

PROCEEDINGS

METREX Thessaloniki 2002
third biennial Conference

THURSDAY 16 MAY

OPENING PLENARY SESSION

1 [Conference Theme and sub-themes](#)

Conference Chair
[Professor Mercedes BRESSO](#)
President, Provincia di Torino
President of METREX

2 **Welcome addresses**

Organisation for the Planning and Environmental Protection of Thessaloniki
Organisation for the Planning and Environmental Protection of Athens
Ministry for the Environment, Physical Planning and Public Works
City of Thessaloniki
Prefecture of Thessaloniki

KEYNOTE ADDRESS

3 [Unity, solidarity, diversity for Europe, its people and its territory](#)

[Wolfgang PETZOLD](#)
Directorate General for Regional Policy (DG Regio)
European Commission

PLENARY SESSION

European policy on Employment and Social Affairs

**4 [Jean LAMBERT, MEP](#)
[Member of the Committee on Employment and Social Affairs](#)
[European Parliament](#)**

**5 Professor Mercedes BRESSO
Member of the Commission for Economic and Social Policy (ECOS)
Committee of the Regions (COR)**

**6 Dimitrios DIMITRIADIS
Member of the European Economic and Social Committee (ESC)**

7 **Conference Directions**

Professor Grigoris KAFKALAS
Department of Urban and Regional Planning and Development
Aristotle University of Thessaloniki
Joint Rapporteur General for the METREX Thessaloniki Conference

KEYNOTE ADDRESS

8 [The Social Face of Sustainability](#)

[Professor Anne POWER, MBE, CBE](#)
[Professor of Social Policy, The London School of Economics](#)
[Member of the UK Commission on Sustainable Development](#)

WORKSHOP SESSION 1

Workshop 1

The SocioMETREX project

9 "Quality of Life" key objectives and indicators for sustainability

Stephen HALL
Environment Protection Statistics and Information Management
Department of the Environment, Food and Rural Affairs, UK

**10 England's East Midlands Integrated Regional Strategy (IRS)
Sustainable Development Framework**

Tony AITCHISON
Director of Regional Planning
East Midlands Regional Assembly, UK

11 The SocioMETREX project

Roger READ
For the SocioMETREX project Expert Group

12 Community Strategies

John THOMPSON
John Thompson Consultants

Chair	Professor Anne POWER SocioMETREX project facilitator
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Rapporteur	Roger READ Secretary General of METREX
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FRIDAY 17 MAY

PLENARY ADDRESSES

13 Spatial Planning in Greece

Professor Dimitris ECONOMOU
Department of Planning and regional Development
University of Thessaly

14 Spatial Planning in Thessaloniki - Strategic Plan

Theano GEORGIADOU
Director of the Organisation for the Planning and
Environmental Protection of Thessaloniki

15 Contextual parameters for promoting Social sustainability in Athens

Professor Thomas MALOUTAS
Department of Urban Geography, University of Thessaly
Director of IAAK, National Centre for Social Research

KEYNOTE ADDRESS

16 New Life for Old Cities

D. Felip PUIG I GODES
Conseller Regional de Política Territorial i Obres Públiques
Generalitat de Catalunya

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Workshop 2

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including issues of housing need and provision and community development.

- | | | |
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| 17 | Lisboa | Professor José TENEDORIO
Area Metropolitana de Lisboa |
| 18 | Sofia | Stoyan YANEV,
Chief Architect of Sofia and Director of City Planning
Sofia City Council |
| 19 | Venezia | Romeo TOFFANO
Dirigente di Pianificazione Territoriale
Regione di Veneto |
| | Chair | Avghi MARKOPOULOU
President
The Organisation for the Planning and
Environmental Protection of Athens |
| | Rapporteur | Katarzyna IWASZKO-NIZIALKOWSKA
Depute Director of Spatial Planning
Municipality of Wroclaw |

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Urban deprivation

including issues of urban renewal and regeneration priorities and action.

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Director of Land Development
Warsaw City Council |
| 21 | Thessaloniki | Magdalini SEGKOUNI
Organisation for the Planning and
Environmental Protection of Thessaloniki |
| 22 | Napoli | Prof. Guido RIANO, Assessore al Piano Territoriale di
Coordinamento
Provincia di Napoli |
| | Chair | Theo EIKENBROEK
Urban Planner
Rotterdam City Council |
| | Rapporteur | Inguss VIRCAVS
City of Riga |

WORKSHOP SESSION 3

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including issues of education, skills and economic development.

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Director
Verband Region Stuttgart |
| 24 | Birmingham | Martin EADE
Team Leader
Strategic Planning
Birmingham City Council |
| 25 | Amsterdam | Hans SMIT
Stad Amsterdam |
| | Chair | Tamás GORDOS
Project Manager
Central Hungarian Regional Development Agency |
| | Rapporteur | Marcin LEWINSKI
Department of Urban Planning
Municipality of Szczecin |

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Inclusive accessibility

including issues of urban form and public transport.

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DG Joint Research Centre
Institute for Environment and Sustainability |
| 27 | Glasgow | Vincent GOODSTADT
Structure Plan Manager
Glasgow and the Clyde Valley
Joint Structure Plan Committee |
| 28 | Torino | Dott. Gianfranco FIORA
Architetto del Servizio Urbanistica
Provincia di Torino |
| | Chair | Claus PEDERSEN
Øresund Committee |
| | Rapporteur | Dr. Milan TURBA
Director for Strategic Planning
City of Prague |

SATURDAY 18 May

CLOSING PLENARY SESSION

Conference Conclusions

Rapporteur General and the Workshop Rapporteurs team

- 29** Alastair WYLLIE
METREX Secretariat
Joint Rapporteur General for the METREX Thessaloniki Conference

PLENARY ADDRESSES

The Way Forward

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Territorial Reviews Division and
Sustainable Development Territorial Development Service
OECD

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The Work Foundation, UK

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- 32** Dr. Thorsten WIECHMANN
Institute of Ecological and Regional Development Studies
Dresden

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Planning consultant
Former director of Urban Planning, Culture and Commerce, City of Oslo
Professor in Urban and Regional Planning.

Conference Resolution

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Secretary General of METREX

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- 35** Dr. Gerald McGRATH
Honorary President of METREX

Good morning colleagues and welcome to the third METREX biennial Conference here in Thessaloniki. It is my great pleasure to open the proceedings and to introduce you to the Conference theme and sub themes.

The Conference theme *The Social Face of Sustainability*

The theme of "The Social Face of Sustainability" was chosen by our Greek colleagues in Thessaloniki and Athens and it has proved to be a timely issue for discussion. Social cohesion is a key issue as the European Union faces enlargement. Social sustainability is a wider issue that involves the longer term relationships between the European space and those who live in it.

Sustainability began as an environmental concept concerned about the capacity of planet earth to absorb the impact of human activity on its ecosystems. It has now moved beyond this to the more all embracing concept of how human life can be sustained without diminishing the prospects of future generations. Sustainability has taken on the more complete concern for human life, the planet *and future generations*.

This means taking a *holistic longer term approach* to social, economic and environmental sustainability. There is now a considerable amount of documentation on how to achieve this but everyone acknowledges that social, economic and environmental decisions are related and have to be considered in an *integrated way* if a more sustainable approach is to be achieved. The question for us is what this means for metropolitan governance and the spatial planning and development processes that takes place within its administrative framework.

An Integrated Regional Strategy

Firstly, it means having a form of metropolitan governance that is inclusive and embraces sectoral and local community interests. It means including those responsible for health, education, security, welfare, employment, transportation, infrastructure and the environment. It also means including groups with more local interests in these functions. These "stakeholders" are the partners through whom a metropolitan authority will have to work if its strategy is to be effective and sustainable. An *integrated regional strategy* of this kind will provide the holistic framework within which spatial planning and development can play its part.

The four Conference sub themes

You will know from the Conference Brochure that colleagues from twelve European metropolitan areas have been considering, specifically, the contribution that spatial planning and development can make to social sustainability within the SocioMETREX project. We will be considering their interim findings and conclusions in Workshop 1 this afternoon. The SocioMETREX project has been looking at four sub themes, which we will also be considering at our Conference here in Thessaloniki.

1 Urban migration and social sustainability
including issues of housing need and provision and community development

We know that cities are ever changing. Population and households and the economy and employment are growing, declining or changing their structure. People and jobs are moving into and out of metropolitan areas as well as within them. The spatial planning and development process has to foresee and anticipate the social needs that arise from such changes, particularly for housing and community development. We will explore this issue in Workshop 2.

2 Urban deprivation
including issues of urban renewal and regeneration priorities and action

We also know that change requires the urban fabric to be constantly renewed and adapted to accommodate the new demands being placed upon it. European metropolitan areas now have a wealth of experience in regenerating inner areas and the peripheral housing estates of the post war period. Physical renewal is only one aspect of this process. The bigger issue is how to reintegrate such areas into the social and economic life of the metropolitan area. We will consider all these matters in Workshop 3.

3 Economic inclusion
including issues of education, skills and economic development

A key aspect of integration and inclusion is "life long learning" to give all citizens in metropolitan areas the education and skills they need to remain as economically active as they choose to be. Communities within metropolitan areas need to have the capability to foster and develop local social and economic activity. However, metropolitan spatial planning and development also needs to have the capability to relate labour markets to wider economic opportunities and development. These issues will be the subjects of Workshop 4.

4 Inclusive accessibility *including issues of urban form and public transport*

One of the key issues in any metropolitan area is the transport system and its capability to facilitate the movement people to employment and social activities. Without an inclusive transport system no metropolitan area can be socially and economically inclusive. We know that the European form of metropolitan area has traditionally been compact and centralised rather than spread out and decentralised, public transport orientated rather than car orientated. This has been changing and Workshop 5 will explore how inclusive accessibility can be sustained in our urban areas.

Polycentric metropolitan regions and areas

All of the four key issues seem to lead to us to support the concept of polycentric metropolitan areas as the model that is most appropriate to European needs and to social sustainability. However, it would be wrong to leap to this conclusion before the Conference has begun! Let us use our short time here in Thessaloniki to reflect on the positive role that spatial planning and development can play, within a wider integrated metropolitan strategy for social, economic and environmental sustainability.

The Conference Programme

You will see from your updated Conference Programme that there have been some changes from the Conference Brochure but that the basic form and content of the Conference remains as was intended.

We will begin this morning with some words of welcome from our hosts, the Organisations for the Master Plan and Environmental Protection of Thessaloniki and of Athens, and from other colleagues from the Greek Government, the Region of Macedonia and the Prefecture of Thessaloniki. There are special arrangements in Greece for metropolitan planning in Athens and Thessaloniki and we will learn more about these during the first session tomorrow morning.

We are then fortunate to have a series of speakers from the main European institutions who will explain their positions on European policy for cohesion and for employment and social affairs. It will then be my pleasure to introduce you to Professor Grigoris Kafkalas who is our Rapporteur General.

After lunch we have a Keynote Address on the Conference theme from Professor Anne Power, who advises the UK government on sustainability and who has kindly helped to facilitate the SocioMETREX project.

The Workshop programme

At previous METREX Conferences we have had more Workshops and more speakers in each Workshop. Colleagues found that there was almost too much choice and not enough time for the discussion of issues within Workshops. Here in Thessaloniki we have only four Workshops tomorrow with generally three speakers in each.

The success of this more focussed approach will depend on Workshop speakers keeping to their allotted time and highlighting key issues for discussion. I do appeal to all speakers and delegates to help the Workshop Chairs and Rapporteurs by being succinct and to the point in their contributions.

One Friday we will also have the added pleasure of a Plenary Address on "New Life for Old Cities" from our new colleague, the Minister for territorial planning in Catalunya, D. Felip Puig i Godes.

Unfortunately the new date for the Thessaloniki Conference coincides with a Plenary Session of the Committee of the Regions and for this reason I have asked our Honorary President, Dr. Gerald McGrath to take over the Chairmanship of the Conference from me on Friday and Saturday.

Saturday is always an important day because the Rapporteur General will present the findings and conclusions of the Conference and we have important Keynote Speakers on "The Way Forward" from the OECD and from the Work Foundation, which are organisations that have a central interest in the issue of social sustainability. As an innovation we will also have special contributions on "The view from the Conference delegates".

This then is the framework for our third METREX Conference and I wish you success in your deliberations. The most that any Conference can hope to achieve is the transfer of knowledge and understanding that is of practical use and value. We are a network of practitioners and I am sure that the speakers that we will enjoy over the next three days will offer us valuable insights into the issue of "The Social Face of Sustainability".

It is now my pleasure to give the floor to our colleagues from Thessaloniki and Athens. I am sure that you would all wish me to say at this point how delighted we are to be in Thessaloniki and how grateful we are to the Organisations of Thessaloniki and Athens for being our hosts.

The title of my presentation is not purely coincidental. It is the title of the 2nd Report on Economic and Social Cohesion, which the European Commission published in January 2001. This report, which has been meanwhile updated by its First progress report in January 2002, launched the debate about the future of EU's structural policy beyond 2006 in a then possible Union of 25 Member States. I will draw your attention on the main findings of the two reports and the likely roadmap to reform of the Structural Funds.

With its overarching policy goal of ensuring economic and social cohesion in the Community and between its regions, the EU became since the 1990s not only one, but in some Member States *the* actor in the field of **structural policy**. The increase of regional disparities following southern enlargement of the EC led to a rise of the Structural Funds' share between 1990 and 2000 from 21% to 36% of the Community budget (in absolute figures: Euro 9.6 to 36.7 billion p.a.). Compared to the EU average Greece, Portugal and Ireland could increase their GDP per capita from 63.5% in 1989 to over 70% in 1999. The 2nd Cohesion Report estimates that one third of this increase could be related to Structural Funds' interventions through their cumulative effects. However, the effects are smaller in regions, where the interventions are not that much concentrated.

Structural Funds

The Structural Funds can cover support for transport, environmental and educational infrastructure and private investments (in "Objective 1" regions, which are defined by a capita GDP of 75% of the EU average). Funding is as well available for start-up programmes and centres, qualification and employment measures, programmes for cross-border and interregional co-operation or projects in favour of deprived urban areas. These measures have to be designed as integrated development programmes to overcome fragmented policy approaches. The programmes are managed at regional or national level and usually combined with existing regional and employment policies of the Member States and regions. The latter request more simplified management arrangements for the future, while the European Commission has to secure a sound and efficient management of the funds.

The Commission's 2nd Cohesion Report and its update, the First progress report on economic and social cohesion, outline the challenges in the enlarged **EU27**, respectively **EU25**, since it became clear at the EU summit in Laeken in December 2001, that the first wave of accessions will not include Romania and Bulgaria. These challenges are enormous both, for the EU15 and for the accession countries. The EU's surface and population will increase by around a third whereas the GDP will only rise by 5% (1999 figures). The Union will be confronted with differences in levels of regional development, which it never faced before.

For an enlarged EU27 the reports differentiate three groups of countries:

- countries with a GDP per capita of 120% and above (all Member States of EU15 except E, P and GR). Approximately 70% of the population in an EU27 live in these Member States;
- the "cohesion countries" E, P and GR plus Slovenia, Malta, the Czech Republic and Cyprus, with an average GDP per capita of 87%. This group would cover 13% of the EU27 population;
- the remaining accession countries have a GDP of about 40% of the Community's average. 16% of the EU27 population live in these countries.

The population living in regions with a GDP per capita below 75% will rise from 19% (EU15) to 26% (EU27), i.e. from 71 to 125 million inhabitants (115 million in EU25). Statistical effects will lower the community average of the GDP per capita by 18% (13% in EU25). 24 regions of the EU15, which receive funding through Objective 1 today, would exceed the threshold of 75% without having their situation improved. The ratio between the richest 10% of regions and the least developed 10% in EU27 would rise to 5.8 (5.4 in EU25) compared to 2.6 in EU15.

Capital expenditure

Capital expenditure in the CEECs is expected to be high in the fields of transport and environment. It is estimated that transeuropean networks in the accession countries would cost altogether Euro 90 billion and meeting of EU's environmental standards in these countries would need further expenditure between Euro 50 and 100 billion. The annual expenditure for both areas is estimated between Euro 15 and 20 billion.

Answers to the challenge of enlargement have to start from this situation but they must also find consensus in the current Member States. The problems of the current regions lagging behind in the EU15 will remain for many of them. Abrupt absence of Structural Funds could interrupt their catching-up process. These and other questions, which go beyond the context of structural policy, have to be answered. The Commission has committed itself to submit a package of proposals in 2004.

Reform beyond 2006

The 2nd Cohesion Report contains a number of topics for structural policy's reform beyond 2006. Out of 10 priorities 6 are related regional development and planning, while 4 concern employment and social issues.

- the regions with the greatest development needs should be at the center of support
- the cities can become the starting point of a strategy for solidarity and sustainable development
- the diversification of the rural areas should be further accompanied
- cross-border, transnational and interregional co-operation can ensure and spread the value of structural interventions
- areas in structural change need support as well
- areas with serious geographical or natural disadvantages are affected in a special way by concentration processes
- more and better jobs
- promotion of the new economy and the knowledge-based society
- promotion of social integration
- equal opportunities.

Questions

The following questions remain to be clarified for the reform of the Structural Funds:

- the question of the role of structural policy in the enlarged Union. It is the question by which interventions the best added value can be achieved, but also a question for the concept of structural policy in an EU27;
- the question about future priorities;
- the question of the definition of eligible regions and their design;
- the question of the extent and the allocation of Structural Funds capital between Member States;
- the question of how to improve and decentralise management and administration of the interventions.

At the heart of the discussion on the future reform of cohesion policy is the question of Community **added value**. This concept is based on the idea that Community assistance is provided when the measures carried out by the Member States are not sufficient (criterion of necessity) and that its effect is beneficial for the whole Union (criterion of efficiency). Structural policies are based upon shared responsibility between the European Union, the Member States and the regions. This allows the identification of a number of elements of added value, which serve to justify these policies. There are four broad types of criteria:

- Community goals, i.e. economic and social cohesion, balanced and sustainable development, Community priorities;
- The Community resources mobilised and their impact (redistribution, concentration, multiplier effect);
- The way the Structural Funds are implemented based on common rules and principles.
- Cooperation and networking.

Roadmap to reform

The roadmap to reform of EU structural policy is likely to be as follows: the Commission will in 2002 and 2003 continue the debate concerning different aspects of structural policy beyond 2006, e.g. through a number of seminars about the relevant topics and questions. Based on the 3rd Cohesion Report at the end of 2003 the Commission will probably present in spring 2004 a package containing proposals for other policy areas as well, e.g. for the Common Agricultural Policy. Council and Parliament will discuss the regulations in 2004/05. The European Council will probably decide in spring 2006 on the new financial forecast for 2007 until 2013. It can be assumed that the majority of the accession countries will then be Member States of the EU.

The cited reports and other studies and papers can be found at: www.europa.eu.int/comm/regional_policy

The views expressed in this text do not necessarily reflect the ones of the European Commission.

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I very much regret that I am unable to be with you at this Conference, which I really wanted to attend as it is dealing with an important subject. However, as the date clashes with the plenary session in Strasbourg, Members are unable to undertake the official representation of the Parliament at this time. We are also due to be debating and voting on two reports in Parliament this morning (Thursday) on the issue of sustainability, so I feel I am acting in solidarity with you.

I am aware that many local and regional authorities have already been very active on the subject of sustainability and have already been working together to prepare their input to governments in the run-up to the Sustainability summit in Johannesburg in August this year.

Your authorities bear an important responsibility for the delivery of services affected by policies on sustainability. Many of you will provide transport services, which have a direct social and environmental impact, will affect the development of your area and can be a crucial factor in supporting the local economy.

You will be responsible for a range of social services such as housing, which has a direct effect on health, quality of life and the stability of the community and the ability of business to recruit and retain employees.

You will probably be some of the EU's largest employers: you will have a direct interest in the quality of the delivery of essential services, the existence of a skilled workforce and all the EU's Directives and programmes concerning conditions of employment. For those of you from Member States, I hope you have been fully involved in the development of your annual National Action Plan on Employment. Unfortunately, the evidence suggests that many Member States may involve the Social Partners in these, but not their partners in government, despite the best efforts of the Committee of the Regions.

With the Convention on the future of the European Union currently in existence, I am sure that you will want to contribute your views as to how the regional tier of government should be involved within the EU in future. It seems at times, that for many member states, subsidiarity stops at the national level.

The place of sustainability in the future role of the EU has also to be seen, yet it is possibly the most important decision to be made. Is the EU of the future to be truly committed to sustainability or do we want to have sustainability alongside "business-as usual", as is the current situation in my view?

We have no Treaty definition of sustainability, and we need one. The Conclusions of the Barcelona Summit in March this year stated that:

Growth today must in no event jeopardise the growth possibilities of future generations. The Sustainable Development Strategy means that various policies should be consistent with the Union's long-term objectives. Economic, social and environmental considerations must receive equal attention in policymaking and decision taking processes..." (Conclusion 9)

This is a rough variation of the language of the 1987 Brundtland Report, which defined sustainability as:

Development which meets the needs of the present without compromising the ability of future generations to meet their own needs.....

But as so often within the prose of the EU it hangs on to the old language of economics, which was challenged in last year's Brundtland Report on Environment and Economic Growth.

Until we begin to define growth in qualitative terms, we will not have sustainability. That is why the development of indicators which look at the relationship between the social, economic and environmental areas are so important. Yet, we know from the discussions on Social Inclusion over the last few months that member states barely measure anything in the same way. I remember the EU starting work on a range of indicators after the Rio Summit in 1992 - progress is evidently slow.

The Lisbon process aims to co-ordinate, rather than integrate, the economic and social fields of EU policy. The aim of the 2000 Lisbon Summit is often expressed as Europe becoming:

".....the most competitive knowledge-based economy in the world."

This is how Prime Ministers often quote it and, I have to say, the European Parliament itself. Yet the whole statement is more complex as it aimed for the EU to become:

".... The most competitive knowledge-based economy in the world capable of sustained economic growth with more and better jobs and greater social cohesion..."

Now, while this still begs the question as to what happens to those economies and people who do not win this competition, it does set a tough challenge for the EU.

Parliament welcomes the increased attention to the social dimension, yet the Lisbon process needed the Swedish presidency to introduce the environment, and provide a coherent approach to sustainability. Has that been maintained?

The social dimension has long seemed to be the poor relation in terms of EU competencies. Most of the activity in that field has been related to working conditions as an adjunct of economic and business policy. There has been little formal link between the environment and the social: it is not often that the Employment and Social Affairs Committee is asked for an Opinion on a Report in the Environment Committee and vice versa.

However, we are now seeing an increasing interest and activity in terms of social issues, partly as a result of changes introduced in the Treaty of Amsterdam which have widened the EU's competencies with regard to social inclusion and anti-discrimination, for example. This wider concern is also being driven by the changes in demography, as our population ages and shrinks in numbers. Alongside this, there is a concern about the rising costs to the state of social security, pensions (National Strategy Reports are due in September 2002) and access to health care (on the agenda for the Spring Summit of 2003). All of these areas will be dealt with under the increasingly popular method of open co-ordination, in which there is no clear role for the European Parliament or sub-national levels of government: something else for the Convention and InterGovernmental Committee to look at.

Last year saw the first National Action Plans on Social Inclusions: as you know, the next are due in 2003. The active consultation of all actors is required in these, so I hope you are already planning your input. After all, participation is also an important element of sustainability as Local Agenda 21 made clear. The European Parliament has welcomed the plans and the accompanying Action Programme - even if we did manage to win only an additional 5m euro to give a total of 75m. euro.

We recognise that it is destructive for individuals and society alike to have such large numbers of people in poverty, or at risk of it, in one of the world's richest areas. We agree that the best path to social inclusion for many may well be through employment but we are concerned that those who are not able to follow this path are not forgotten or ignored. There are also implications for social sustainability if voluntary work is made more difficult, or if people feel they can no longer choose to care for their children or other dependants, or are pushed in to low-paid work, rather than the quality work that the Lisbon process aims for.

We are also concerned that the importance of strong, local economies is not always recognised: we have still not succeeded in gaining a separate budget line for this area. It can sometimes appear that the current emphasis on a flexible, mobile workforce and the increase in global markets is at the expense of maintaining strong local businesses and diverse economies. As energy and raw material costs rise and we seek to reduce our ecological footprint, the local economy becomes ever more important. The revision of the Common Agricultural Policy will also have a role to play here, in a new commitment to rural development.

So, what will the social face of sustainability look like?

According to the outcome of the Rio Summit, it will need to be more equitable, both within and between regions. It will be diverse, in terms of culture, ethnicity, age, religion, etc. The EU is an area of immigration, and migration and enlargement will also bring greater diversity. The Directives currently in preparation under Article 13, and others which are to come, dealing with anti-discrimination will mean fairer societies, willing to use all the talents available.

There will be a better work-life balance, so that people (men and women) can sustain both their private and their working lives, hopefully with time for civic involvement, too. Better occupation therapy and different working patterns, supported by strong social security systems, mean we will have more older people in the workforce. Lifelong learning, greater worker consultation, investment in the third sector, and new technologies should mean that we will be better able to cope with changes brought on by increasing environmental constraints and the development of new, ecologically sound industries run by companies who will be required to demonstrate their commitment to corporate social responsibility.

There are currently initiatives planned or already in process in all the areas I've just touched on.

The challenge for those of us committed to social justice and a sustainable future is to get these ideas into practice and to integrate them with environmental and new economic policy.

It is a fight at times to achieve this challenge in areas such as public procurement, market liberalisation and international policy. If we want a world where all people feel they have a stake in the future and a future worth having, we have to make such policy integration work and work fast.

I wish you a very successful conference. I look forward to reading the papers from it, and experiencing the results.

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1 Key Questions

- Can cities help sustainable development?
- Why do cities damage environments?
- What divides and damages a city?
- Can we improve a city without creating greater environmental pressures?

2 Sustainable Development

- a) meeting today's needs without jeopardising our children's future
- b) 4 conditions

*basic needs, particularly for poor
quality of life
human potential
Earth's life support systems*

3 Linkages

- life support systems central to basic needs and quality of life of poorest
- progress in poor communities help us all
- sustainability is common human goal – survival strategy
- sustainable objectives v. reality

4 UK Goals

- social progress in meeting everyone's needs
- protection of environment
- prudent use of natural resources
- high / stable economic growth / employment
- RECONCILABLE?

5 Six principles of Sustainable Development Commission

- sustainable development at centre
- valuing nature
- fair shares
- polluters pay
- governance matters
- adapting a precautionary approach

6 Social Challenge of Sustainability

- rapid change
- abandonment of inner cities by better off
- loss of civic pride
- cities "colonised" by poor
- social and economic polarisation
- jobs, families, education always top

7 Environmental polarisation

- and is finite natural resource
- closely linked to energy use
- more congested ∴ more spread out
- MOST urban decay is linked to sprawl

*environmentally
socially
economically*

8 The Flaws in Sprawl Europe is Strongly Sprawling

- economic growth
- inner city problems
- greater wealth
- smaller households
- income gap
- car dominance

9 Environmental Impacts of Sprawl

- green field homes
- low density – below 50 per hectare
- road access and congestion
- new infrastructure

10 Impact of car culture etc

- car access to shops, schools etc
- closure of small, local businesses
- selective migration
- out of town shopping, universities, business
- fuels further sprawl
- social exclusion and insecurity

11 Social Costs

- vulnerable new groups move in
- FEAR of abandonment
- space for crime
- social and physical decay go together

12 Learning from US experience

- costs of ghettos and abandonment
- costs to business and government
- costs to communities
- strong anti-sprawl protests

13 Learning from Britain

- extreme environmental degradation
- massive brown field legacy
- urban abandonment
- white flight / incipient segregation
- congestion and crowding
- low urban / high overall density

14 Environmental Costs of Sprawl

- impact on landscape / loss of tranquillity
- fuel consumption / global warming
- environmental decay of cities
- energy costs of abandoned housing
- energy costs of new housing
- investment = ENVIRONMENTAL DAMAGE
- subsidised double-funded social polarisation

15 Compact Cities

- best European cities are compact
- *communities in reach of each other*
- critical mass / proximity
- need / demand for services
- informal contact
- shared social / public spaces

16 How?

- maximise value of city centre
- access by walking, cycling, public transport
- mixed uses, mixed incomes, mixed communities
- high density is CHOICE of very rich / elderly / young / alone

17 Essential steps

- work from where we are
- moderate density – not high rise
- Georgian terraces, Victorian house, squares, streets and pavements

18 Green Urban Environment

- New York: green streets; pocket parks;
- Islington: Tree for a Tree
- school playgrounds
- Home Zones
- cycle and foot routes
- community responses
- balconies, tubs, courtyards

19 Regeneration has Huge Green Potential

- existing estates and streets
- embodied energy
- public transport
- environment and crime
- equalisation

20 Core Sustainable Regeneration

bring to life again
make new again
make last
create a viable future
reuse

21 So, 3 R's

- RECYCLE – buildings, materials, infrastructure, rubbish
 - REPOPULATE – cities and towns
 - REVITALISE – streets and small enterprises
-
- Can we recycle carbon 60%
 - Can we cohere?
 - Can we green cities?
 - And help poor?

21 Action - Recycle

- public transport, foot, cycle
- smaller, better designed houses
- shared open space
- attractive old buildings
- manage waste
- low carbon future

22 Action - Repopulate

- households v. people
- changing lifestyles and needs
- family barometer
- world population and urban trends
- migration

23 Action - Revitalise

- neighbourhood management
- pro-active policing
- community threads
- urban pioneers
- new uses and skills

Abstract

In preparing the *UK Sustainable Development Strategy*, indicators formed an integral part in the thinking. These include 15 headline indicators making up a quality of life barometer, measuring everyday social, environmental and economic concerns.

For some of these indicators the government has targets. More generally there is a commitment that where a trend is unacceptable, the government will adjust policies and will look to others to join it in taking action.

The UK has also established a core set of national indicators, '*Quality of Life Counts*', to focus on specific issues and identify areas for action. These 150 quality of life indicators provide a benchmark against which future progress can be measured, and cover the main themes of the UK Strategy: a sustainable economy, building sustainable communities, managing the environment and resources, sending the right signals and international co-operation and development. Where possible the indicators have been analysed to identify the main stories behind the trends.

'*Regional Quality of Life Counts*' provides the headline indicators at a regional level. These were developed to help raise the profile of the headline indicators and inform regional sustainable development frameworks.

A handbook, '*Local quality of life counts*', has also been produced. This contains a menu of 29 indicators which local authorities are recommended to consider for monitoring their own Local Agenda 21 Strategies and Community Strategies.

Since the UK produced the first ever set of Indicators of Sustainable Development in 1996, indicators have become a key component of government policy and are helping to change policies. We hope the UK experiences in indicator development and in bringing them to the heart of policy may provide a valuable insight for others trying to do the same.

Keywords: headline, indicators, quality of life, regional, local

Introduction

In May 1999, the UK Government published *A better quality of life: a strategy for sustainable development for the United Kingdom*. The strategy included 'headline' indicators, to give a broad overview of trends, described as a "quality of life barometer"; and outlined a national set of about 150 indicators, to focus on specific issues and identify areas for action. The national set followed and substantially revised the first set of 120 *Indicators of Sustainable Development for the United Kingdom*, produced in 1996.

The indicators, described as '*Quality of Life Counts*', were developed as an integral part of the *UK Sustainable Development Strategy*, to provide a baseline assessment and benchmark against which progress can be measured. As such, it was not an academic exercise that was carried out by back-room statisticians, but one that brought statistics and indicators to the heart of policy making, and that involved a broad spectrum of key players across government.

The headline indicators in particular play a key role, some have been linked with relevant policy targets and for others the government's aim is for them to move in the right direction over time. The headline set was at the core of the first annual review, *Achieving a better quality of life – review of progress towards sustainable development*.

Framework

From the experiences of developing the first national set of indicators, it was clear that any set of indicators needed to be inextricably linked to objectives in order to be useful and resonant. The new set of Quality of Life Counts was therefore developed to link with the objectives being set by the sustainable development strategy. However the objectives came first and were not determined on the basis of the availability of indicators.

Since sustainable development covers a very wide range of objectives, an organising framework was found to be helpful. The UK strategy and the indicators were structured on six main themes, expanding on the recognised three overarching themes of sustainable development (economic, social and environmental issues):

- Assessing overall progress and priorities
using the headline indicators
- Sustainable economy
efficient use of resources, economic stability and competitiveness, education and skills of the population, employment and equal opportunities, ethical trading, action by producers and consumers in priority areas (e.g. the home, personal transport, tourism and leisure)

- Building sustainable communities
local economic vitality and equity between communities in the UK, health, access to services, culture and sport, housing, planning and design, local environmental quality, crime, institutional arrangements and participation
- Managing the environment and resources
persistent pollutants, climate change and energy, air quality, fresh water, seas oceans and coasts, soil, landscape and wildlife, forests, minerals extraction and use
- Sending the right signals
mechanisms by which sustainable development can be put into practice, through government setting an example, through policy instruments like taxes and regulation, through information and campaigns to change people's behaviour
- International co-operation and development
measures of global population and global poverty, aid to developing countries, implementation of international agreements, comparison of UK resource consumption with that of other countries.

The objectives and hence the indicators were established within a clear hierarchy. At the top are four broad objectives: maintenance of economic growth, social progress, effective protection of the environment, prudent use of resources. Below these are key objectives, for example reducing crime and meeting targets to cut greenhouse gas emissions – these objectives led to the selection of the 15 headline indicators.

Below the headline indicators are the national core set, which are linked to more specific objectives and were intended:

- to describe whether we are achieving sustainable development
- to highlight and monitor key policy initiatives, commitments and targets
- to educate the public and businesses both about sustainable development and the actions required
- to report progress to international fora, particularly with indicators recommended internationally
- to help make transparent the trade-offs and links between sustainable development objectives.

Certain scientific and technical criteria were applied to the indicators before their adoption. The indicators had to:

- be representative
- be scientifically valid
- be simple and easy to interpret
- show trends over time
- give early warning about irreversible trends where possible
- be sensitive to the changes they are meant to indicate
- be based on readily available data or be available at reasonable cost
- be based on data adequately documented and of known quality
- be capable of being updated at regular intervals
- have guidelines or targets against which to compare it.

However, by applying these criteria it was not always practical or appropriate to produce an indicator linked to each objective. In some cases a commitment was given to produce an indicator in due course, with some idea of what it might be.

Headline Indicators - a Quality of Life barometer

The 15 headline indicators (listed in Table 1) were intended to focus attention on what sustainable development means, and to give a broad overview of whether we are achieving a better quality of life, now and for generations to come. They were developed with the intention that they should sit alongside traditional measures such as Gross Domestic Product and employment as a means of communicating progress towards sustainable development, and be a powerful tool for simplifying and communicating the main messages for the public.

TABLE 1 The headline indicators in the UK sustainable development strategy

Maintaining high and stable levels of economic growth and employment

- H1 Total output of the economy (GDP and GDP per head)
- H2 Total and social investment as a percentage of GDP
- H3 Proportion of people of working age who are in work

Social progress which recognises the needs of everyone

- H4 Indicators of success in tackling poverty and social exclusion
- H5 Qualifications at age 19
- H6 Expected years of healthy life
- H7 Homes judged unfit to live in
- H8 Level of crime

Effective protection of the environment

- H9 Emissions of greenhouse gases
- H10 Days when air pollution is moderate or higher
- H11 Road traffic
- H12 Rivers of good or fair quality
- H13 Population of wild birds
- H14 New homes built on previously developed land

Prudent use of natural resources

- H15 Waste arisings and management

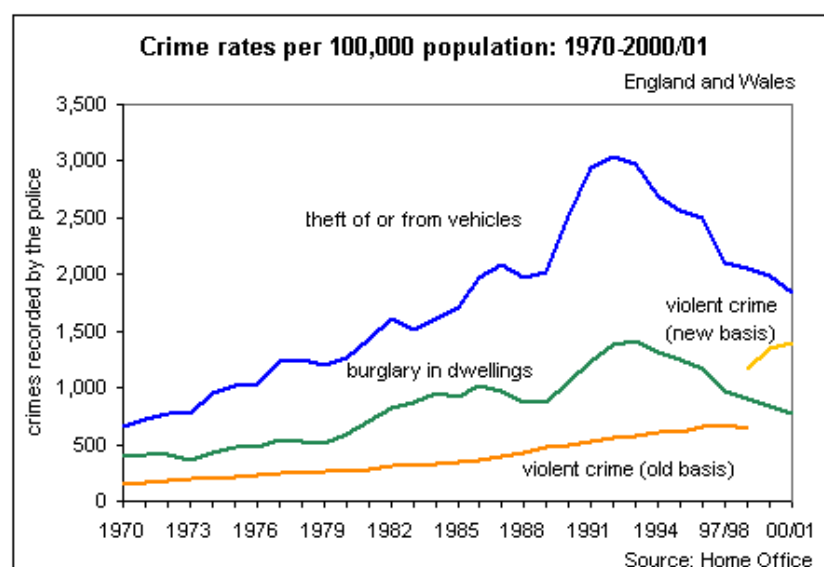
The 15 headline indicators were intended to make up a 'quality of life barometer', which would be used to measure overall progress. As an integral part of the Strategy, a statement was made that:

"the Government's aim is for all the headline indicators to move in the right direction over time, or, where a satisfactory level has been reached, to prevent a reversal. Where a trend is unacceptable, the Government will adjust policies accordingly, and will look to others to join it in taking action."

Monitoring the headline indicators

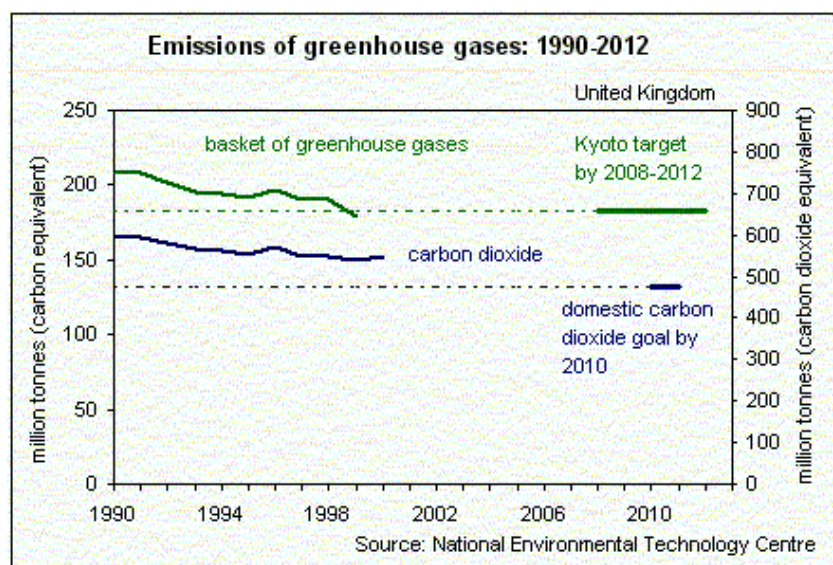
With this commitment, the headline indicators have become established as key policy and communication tools. They are updated on the government *sustainable development website* as and when new data become available, referred to in policy statements, and are also included in the annual review of progress towards sustainable development. The crime (Figure 1) and climate change (Figure 2) headline indicators are given as examples.

FIGURE 1 Crime headline indicator



Commentary on trend: The level of recorded crime increased substantially since 1970. Recorded levels of burglary in dwellings and theft of or from motor vehicles declined more recently since 1993, but violent crime continued to rise over most of this period.

FIGURE 2 Climate Change headline indicator



Commentary on trend: The 1999 estimates of emissions of the 'basket' of six greenhouse gases show that they fell by 14.5 per cent between the 1990 baseline and 1999. There was a 6.5 per cent fall between 1998 and 1999.

Assessing overall progress

To give a broad overview of progress, a tick and cross (Table 2 below) and traffic light approach to communicating progress was established, where for each indicator changes are judged in relation to the objective and the longer-term trend (since 1970), and more recent trends (since 1990).

Table 2: Overall assessment of headline indicators		
	since 1970	since 1990
Economic output		
Investment		
Employment		
Poverty / social exclusion		
Education		
Health		
Housing		
Crime (violent)		
(vehicle/burglary)		
Climate change		
Air quality		
Road traffic		
River water quality		
Wildlife (farmland birds)		
(woodland birds)		
Land use		
Waste (household)		
(other)		
Key:		
Significant change, in direction of meeting objective		
No significant change		
Significant change, in direction away from meeting objective		
Insufficient or no comparable data		

Aggregated indicators or indices

The headline indicators have not been aggregated into indices as an attempt to further summarise progress. The view was taken that whilst some of the ideas proposed by various organisations to create indices from indicators may be useful as tools for raising awareness, they are not yet scientifically valid or technically robust, and so could not be used reliably to monitor change year on year. The choice of components and the weightings applied to them in such indices were regarded as largely subjective - as indeed was the choice of the headline indicators - and different choices would give different results. Furthermore, such indices could mask important underlying trends in individual components. Ultimately requiring such indices to be disaggregated to determine what is really happening.

Perhaps most importantly, such indices are not transparent or clearly understood by the public. They did not therefore meet the objective of helping people to understand the concept of sustainable development, nor enable them to identify the actions they could take to influence progress.

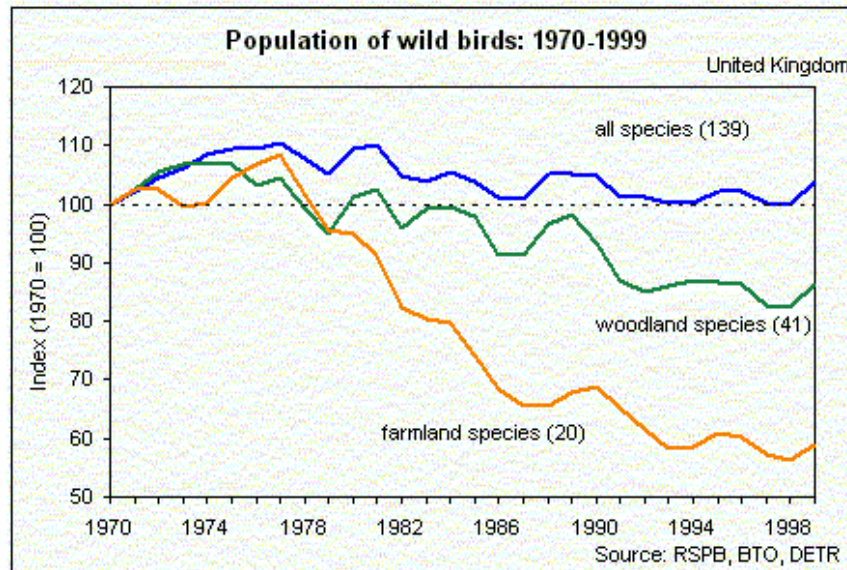
The headline indicator approach was considered to provide a more transparent and comprehensive barometer of quality of life issues, than any aggregated measure.

Making headlines and taking action

On their introduction the headline indicators caught the imagination of government ministers, policy makers, outside organisations and the media. They now serve as the main vehicle for communicating the concept of sustainable development and in reporting progress, and in identifying the need for additional policies. The strongest example of this has been the wildlife indicator on farmland birds (see Figure 3).

The media initially made much of the novelty of the government measuring people's quality of life by counting birds, but the messages it conveyed demanded action. Whilst over all the population of birds has not changed significantly from what it was in 1970, the populations of farmland species have fallen dramatically, by 40 per cent or more.

FIGURE 3 Headline indicator – wildlife (farmland birds)



Such a significant loss in bird populations has been attributed to the intensification of farming, the increased use of pesticides and the loss of hedgerows. As a result of the choice of this indicator, there has been a policy response to redress the decline.

Public perceptions about Quality of Life and the barometer

A survey of public attitudes to the environment and quality of life has recently been undertaken. As well as updating previous environmentally based surveys, the survey asked people about their quality of life, what affected them, and how important they felt the 15 headline issues being monitored were.

Results (not yet published) suggest a strong correspondence between what people regarded as factors affecting quality of life and the choice of the headline indicators. Furthermore when prompted the vast majority of respondents regarded each individual headline issue as fairly or very important.

The national core set of indicators

The national core set of 150 or so indicators is not updated as frequently as the 15 headline indicators – to do so would be impractical. A comprehensive volume, *Quality of Life Counts*, of all the indicators was last published in December 1999. The indicators were distributed into 19 sub-themes (Table 3), following the structure of the *Sustainable Development Strategy*.

TABLE 3 Sub-themes covered by the core set of indicators

The headline indicators

H The headline indicators

A sustainable community

A Doing more with less: improving resource efficiency

B Economic stability and competitiveness

C Developing skills and rewarding work

D Sustainable production and consumption

Building sustainable communities

E Promoting economic vitality and employment

F Better health for all

G Travel

J Access

K Shaping our surroundings

L Involvement and stronger institutions

Managing the environment and resources

M An integrated approach

N Climate change and energy supply

P Air and atmosphere

Q Freshwater

R Seas, oceans and coasts

S Landscape and wildlife

Sending the right signals

T Sending the right signals

International co-operation and development

U International co-operation and development

The practical task of producing the indicators involved the examination of hundreds of potential data sources and indicators. The UK Government Statistical Service is devolved within each individual government department, which made this task all the more challenging as it involved a large number of departments.

The exercise involved considerable consultation across government departments and with non-governmental organisations. Consultation papers were produced, which were followed by seminars and workshops including advisory groups of experts and public focus groups. In many cases the use of the particular indicators required careful negotiation with policy and statistical colleagues. Where possible the indicators chosen were linked to other government initiatives for which indicators or at least statistics were already required, which helped in establishing ownership of the indicators by the department responsible for the policies affecting the objective. Where practicable the indicator chosen also took account of the experiences of organisations such as the United Nations Commission on Sustainable Development, the Organisation for Economic Co-operation and Development and the European Environment Agency.

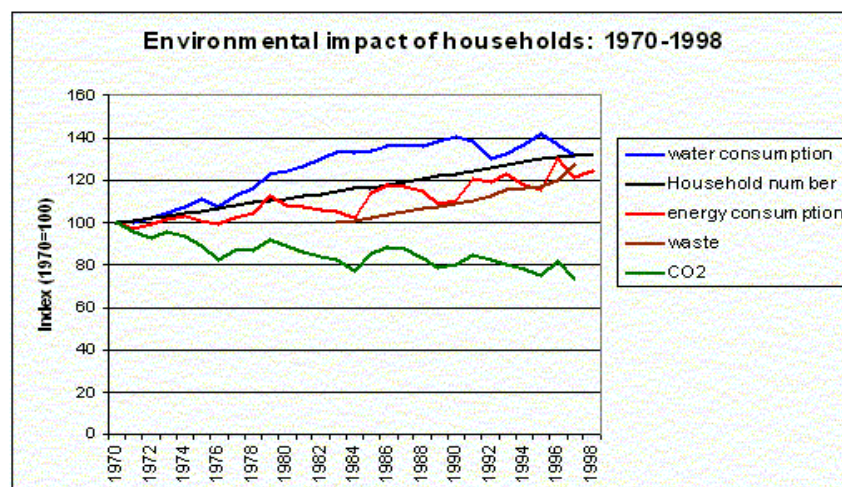
Clearly an exercise to compile a national set of indicators was to some extent data driven, however, where data were not available the intentions of an indicator still to be developed were identified.

In presenting the indicators a sustainable development objective was clearly identified for each. The indicator was then represented graphically if possible, followed by a short commentary on the trends shown. This was followed by text on the relevance, targets and goals, trends and background. Each indicator could therefore stand alone as measure of progress towards the associated objective.

However, the section of the indicator volume found to be most useful and resonant was a chapter providing further analysis that demonstrated the integration of issues across and within sectors and how in some cases economic development has been decoupled from environmental degradation.

This section examined in detail how households, industry, services, transport, agriculture and poverty and social exclusion all affected progress towards the objectives of sustainable development, with a particular focus on the sectoral energy consumption, emissions, waste etc. An example of this analysis is given below on the environmental impacts of households (Figure 4).

FIGURE 4 Sectoral analysis - environmental impacts of households



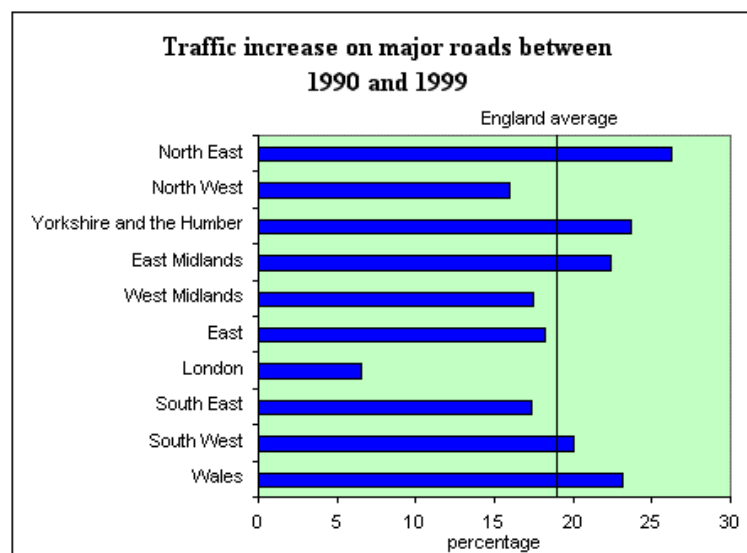
Commentary on trends: Water consumption, energy consumption and waste generation have risen in line with the increase in the number of households. CO₂ emissions have fallen owing to the switch from coal to gas both domestically and in electricity generation.

In addition the *sustainable development website* version of the indicators publication provides a full list and links to all the indicators which relate to particular sectors, i.e. business users, individuals, transport sector, energy sector, agricultural sector, water, resource use, international dimension.

Regional and local indicators

Once the headline and core indicators had been released there were demands for indicators which were more local and more relevant to local experiences. *Regional Quality of Life Counts* were therefore produced, which are now updated annually, providing regional versions of the headline indicators, where data are available. These were intended to help raise awareness of sustainable development still further to provide a useful input into regional sustainable development frameworks, and also to help to direct policies where there are regional disparities. A regional indicator is given as an example (Figure 5).

FIGURE 5 Traffic – regional headline indicator



There are various initiatives relating to sustainable development at the local level. Local authorities are preparing Community Strategies and have formed Local Agenda 21 Partnerships. It was felt that *Local Quality of Life Counts* should also be established to help link these initiatives with the national and regional programmes.

A menu of 29 indicators was developed which local authorities are now encouraged to consider using for their strategies and other local monitoring. The menu was developed jointly by central government, local government bodies, the audit commission, Local Agenda 21 groups, and tested in 30 local authorities.

The authorities that piloted the local indicators found that the exercise of developing the indicators was an important as the indicators themselves, as it stimulated debate and helped people to understand what sustainable development means.

Some of the indicators selected mirrored those in the national set; others were linked to those services and activities that are under the direct control of the authorities. The latter indicators, in particular, highlighted issues that are equally applicable to the development of national indicators. That is that care must be taken to insure that the choice of indicators does not distort priorities, with too much attention focussed only on those policy areas covered by the indicators. Additionally indicators need to focus on outcomes rather than the amount of effort or resources used to tackle a problem, which although potentially easier to monitor may not reflect the true extent to which an objective is being achieved.

Conclusions

The UK experience suggests that

- It is important to develop quality of life indicators, even if not all pieces of the puzzle are in place.
- Indicators provide a key tool in raising awareness about sustainable development and getting people to think about the impact they have.
- Indicators need to be driven by objectives, preferably as an integral part of policy development.
- Indicators should be developed within a clear framework.
- The coverage of the indicators needs to be as comprehensive as possible, ensuring that the key economic, social and environmental quality of life issues are represented and monitored.
- A headline set of indicators is highly effective in communicating progress and raising awareness, without overburdening people with large numbers of indicators.
- At this stage, headline indicators are a sufficient summary of progress and aggregated indices are not sufficiently advanced to be effective communicators.

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www.sustainable-development.gov.uk

Introduction

The approach adopted in England's East Midlands in developing an Integrated Regional Strategy (IRS) has been commended as a model that puts sustainable development at the heart of integrated policy development at the regional level. This short paper therefore outlines a) the factors which prompted the development of the IRS Model and b) the overall approach. The full IRS document can be accessed on the East Midlands Regional Assembly's website, www.eastmidlandsassembly.org.uk.

Background

England's East Midlands is one of 8 regions and has a population of about 4.2 million. The major settlements include Nottingham, Leicester, Derby, Lincoln and Northampton. The Regional Assembly was formed in 1999 as a voluntary regional partnership, at the time that Regional Development Agencies were created to lead on economic regeneration. It is not regional government but is comprised of 105 members, 70% being local government elected representatives with 30% made up of partners including business, the voluntary sector, trade unions, education, health, environment etc.

The Regional Assembly has developed a collaborative style, working closely with a wide range of regional and other partners. It has a scrutiny role in relation to the Regional Development Agency and this was strengthened in 2001. The Assembly works closely with the Government Office (who represent central government in the region) and with other government agencies e.g. the Environment Agency, English Nature, cultural agencies, the health sector etc. It is seeking to develop similar working relationships with the emerging strategic sub-regional partnerships and the local strategic partnerships.

The Assembly is managed by a Steering Group (or Executive Committee). The IRS Policy Forum co-ordinates the development of the Integrated Regional Strategy and has the lead role on promoting sustainable development. The recently established Economic Review Group takes the key role in co-ordinating the Assembly's economic scrutiny role. The IRS Policy Forum is supported by a number of task groups with topic responsibilities including transport, housing, social inclusion, environment, lifelong learning, public health and energy. These task groups are set up on a fit for purpose basis and membership does not follow the 70% - 30% split of the full Assembly but also takes account of specialist knowledge, interest and expertise.

Why did the region decide that it needed an integrated Regional Strategy (IRS)?

The Assembly undertook research in 1999 to establish the overall position on regional policy development. The research concluded that regional partners did not have an agreed *vision* about the kind of region they wanted. There was no agreed set of objectives covering all aspects of sustainable development i.e. social, spatial, economic and environmental issues. It certainly did not have a clear set of regional strategies that addressed the key regional issues. Those strategies that had been developed had not taken account of each other, were not linked, and were certainly not integrated. Strategies had often been prepared by single sectors or organisations without adequate involvement or consultation of other key players. Many were called similar names, causing confusion, had not gained regional ownership and were for different time periods. There was no mechanism for assessing the contributions that strategies and their policies could make to the achievement of regional aspirations or objectives. Not surprisingly, there were no regionally agreed indicators and no basis for achieving this. Any regional targets that existed were handed down from the national level and were related to the achievement of national policy objectives. Any review of progress within the region would be ad hoc, partial and usually in response to a specific request or need. This position reflected the highly centralised form of government with many regional agencies and bodies created by and responsible to central government rather than the region.

The development of the IRS Model

At its first meeting in January 1999 the new East Midlands Regional Assembly resolved to co-ordinate the preparation of the Integrated Regional Strategy (IRS). This decision was a direct response to the above analysis of the state of strategic policy development. The overall approach was developed by the Assembly's Integrated Regional Strategy (IRS) Policy Forum. The IRS approach can be briefly summarised as follows:-

The IRS framework has as its starting point an overall regional vision and a set of 18 economic, social, environmental and spatial objectives. Policy-makers are encouraged to assess how the policies and proposals in their strategy will contribute to the achievement of all 18 regional sustainable development (SD) objectives throughout the policy development. They know that their strategy will be appraised against the regional SD objectives at the end of the process. The economic, social, environmental and spatial strategies are all developed as component parts of the IRS driven by the common set of SD objectives. Strategy developers are encouraged to ensure that all key linkages with the other strategies are identified and addressed to achieve horizontal integration.

The IRS model also stresses the importance of regional objectives and policies taking account of and being influenced by sub-regional and local issues and strategies. The importance of delivery through the implementation of

a set of action plans, which set out what needs to happen at the sub-regional and local levels, is fully recognised. Figure 1, summarises the overall approach.

The Regional Assembly has developed guidance for all policy-makers which outlines an overall process (illustrated in figure 2). At each stage a key question needs to be answered. In defining the vision and objectives for the region we are answering the question "what kind of region do we want to achieve?" A number of "viewpoints" documents have been developed which seek to answer the question "where are we now?" For example, we have viewpoints on health, viewpoints on housing, and social viewpoints. At the strategy and policy development stage we are seeking to explain "how we can ensure we get there?" The next stage of developing Action Plans seeks to set out the key actions that will achieve policies and to define who needs to take the actions. This is a crucial stage to ensure that strategic policies are turned into action on the ground. The involvement and commitment of key government agencies and other partners is crucial to this stage.

During the development of strategies and action plans we need to ensure that indicators are prepared that identify "how we know we are going in the right direction". From the full set of indicators that measure performance on all issues we need to draw out a set of regional "high level" sustainable development indicators. These indicators and targets are essential components of periodic "State of the Region Reports" which enable us to review "what is happening".

Benefits of the IRS approach

In England's East Midlands regional partners have developed and agreed the approach outlined above and are implementing it in a progressive manner. It would be wrong to suggest that all pieces of the jigsaw are in place. However, the benefits of the integrated approach in influencing hearts and minds and changing the traditional "silo – based" ways of working are very encouraging. The benefits can be summarised as below and can be contrasted with the analysis by consultants in 1999, summarised above. The aim has been to turn the negative assessment into a very positive one.

In 2002 the region now has an agreed vision. It has agreed 18 regional sustainable development objectives. The vision and objectives together provide the sustainable development framework within which all regional strategies are developed as component parts. The region has a clear and regionally owned Economic Strategy, a Regional Spatial Strategy including a Transport Strategy, a Regional Environment Strategy and a Cultural Strategy. A number of other strategies are under development including energy, housing, public health and community safety.

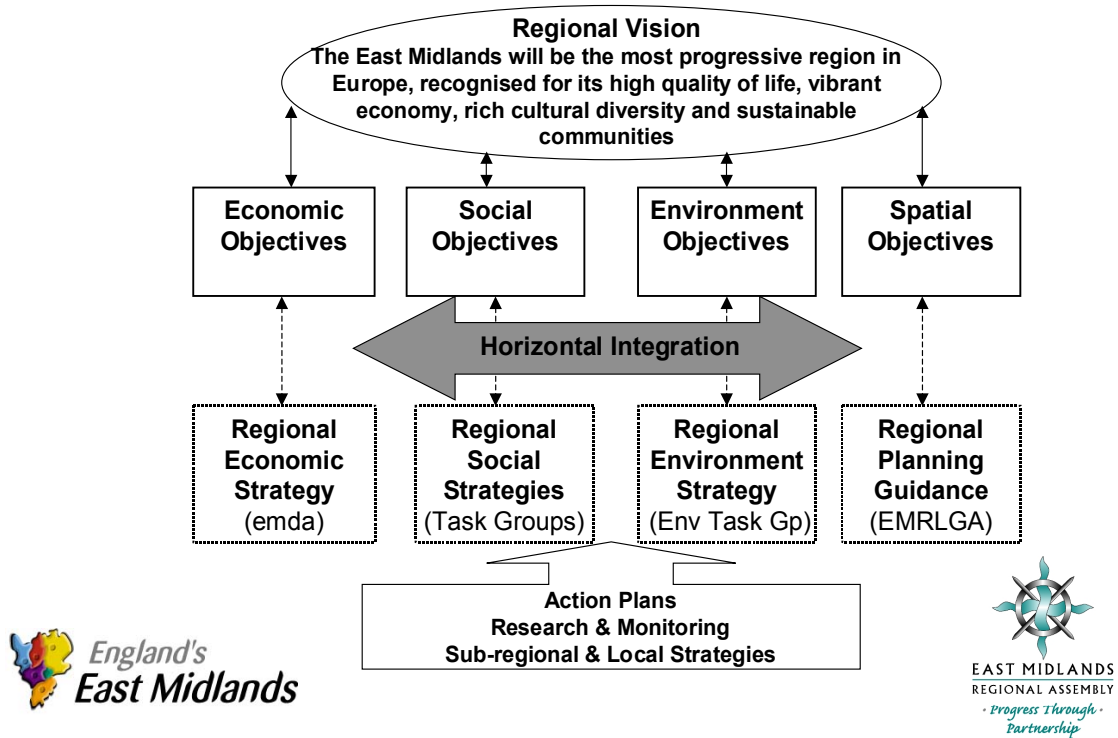
Together the 18 sustainable development objectives and the desire to achieve an integrated approach provide the key drivers of policy development. Although the Assembly does not have the power to force this approach on regional organisations support for it and wide ownership of strategies have been achieved by voluntary and collaborative working and co-operation. The Regional Assembly has been able to endorse all key strategies developed within the IRS framework. Each strategy is assessed for the level of integration and its contribution to the achievement of the regional SD objectives through an agreed appraisal process. Draft regional indicators and targets have been developed as part of this process and a clear approach for reviewing progress has been agreed through the development of a consistent approach to the preparation of a set of state of the region reports.

Conclusion

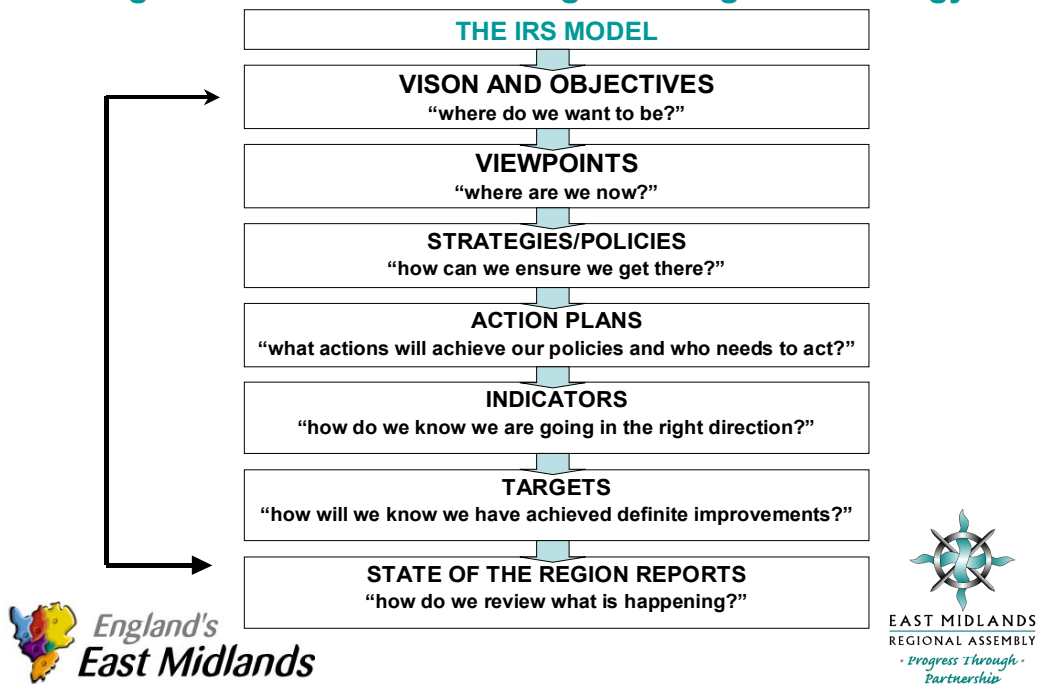
The benefits of the IRS can therefore be summarised as follows. It provides a basis for agreeing a set of sustainable development objectives which drive the development of an integrated set of regionally owned strategies. It enables these to be appraised in a consistent and rigorous way and provides a mechanism for these to be implemented through a series of Action Plans. It provides a clear basis for defining indicators and reviewing progress against regional objectives and policies.

INTEGRATED REGIONAL STRATEGY FRAMEWORK

Figure 1



England's East Midlands Integrated Regional Strategy



A Climate change and sustainability

It is recognised that sustainability involves integrated social, economic and environmental action if the needs of the planet and future generations are not to be compromised

The objective of the SocioMETREX project is to identify the contribution that can be made by spatial planning and development at the metropolitan level to *the social face of sustainability*

By this we mean the spatial planning and development action that can contribute to sustainability as a whole and thus to social sustainability

The cumulative effect of these actions will also be to make urban areas more energy efficient and thus contribute to a reduction in the effects of climate change by, for example, reducing energy consumption and the generation of greenhouse gases

B Presentation of interim findings and conclusions

- 1 What the function of spatial planning can *contribute* to an Integrated Regional Strategy
- 2 The components of a sustainable spatial planning and development *process*
- 3 The essential *components* of a sustainable metropolitan spatial planning and development strategy

Maintenance of high and stable levels of economic growth
Social progress which recognises the needs of everyone
Effective protection of the environment
Prudent use of resources

- 4 A sustainable *approach*

1 What the function of spatial planning can *contribute* to an Integrated Regional Strategy

- *Preventing* unsustainable development
- *Safeguarding* sensitive areas or resources
- *Exercising foresight* by taking a longer term view of development prospects
- *Presenting possible futures* for public consideration and debate
- *Enabling* the realisation of chosen spatial planning and development options
- *Sustaining* a chosen spatial planning and development strategy

This is *positive planning*

What the Integrated Regional Strategy does that spatial planning and development can not do

- *Manages and operates* infrastructure networks including transportation
- *Delivers services* such as health, education, training and public transport

2 The components of a sustainable spatial planning and development *process*

Spatial planning and development strategy
Objectives and the indicators through which progress in achieving them is assessed
Policies, programmes and major projects
Monitoring, review and update as necessary to sustain the strategy

Sustaining a polycentric strategy that emphasises compact development, mixed use, public transport orientated development focussed on centres means *identifying and maintaining* a portfolio of urban development opportunities of all kinds

This will enable a *sequential approach* to be taken to planning decisions starting with the reuse of urban land and buildings and only releasing non urban land for development where this accords with the chosen strategy and its objectives

3 The essential *components* of a sustainable metropolitan spatial planning and development strategy

Maintenance of high and stable levels of economic growth

- Ensure accessibility to metropolitan interchanges for the modal transfer of goods *in order to reduce the need for road travel and to facilitate the efficient import and export of goods*
- Ensure an effective primary transport network *in order to minimise congestion and facilitate the efficient movement of goods*
- Ensure good public transport to the main centres of employment *in order to widen their accessibility to the labour market*
- Ensure adequate economic development opportunities *in order to accommodate business needs*

3 cont The essential components of a sustainable metropolitan spatial planning and development strategy

Social progress which recognises the needs of everyone

- Ensure the balanced distribution of population, housing, employment and services *in order to facilitate accessibility between activities*
- Where there is an unequal distribution of employment and services, take action to reduce disparities *in order to make the urban area more equitable*
- Where there is poor accessibility to employment and services, take action to improve this *in order to make the urban area more equitable*
- Ensure adequate housing provision in terms of size, tenure and affordability *in order to provide an acceptable and affordable home for every household*
- Identify areas that suffer from multiple deprivation *in order to focus integrated remedial action*
- Ensure acceptable environmental standards within urban areas in terms of noise and air pollution *in order to protect and improve the health of residents and workers*
- Ensure the provision of a linked network of open space *in order to provide access to recreational opportunities for all*

3 cont The essential components of a sustainable metropolitan spatial planning and development strategy

Effective protection of the environment

- Safeguard and enhance the quality and character of the landscape *in order to protect the setting of metropolitan areas*
- Safeguard and enhance the quality and character of the urban heritage of buildings and public spaces *in order to make metropolitan areas more attractive places in which to live and work*
- Safeguard and enhance biodiversity *in order to contribute to better ecological balance*
- Safeguard and enhance water catchment areas *in order to maintain and improve the quality of water supplies*
- Safeguard the capacity of flood plains from development *in order to reduce the risk of flooding*

3 cont The essential components of a sustainable metropolitan spatial planning and development strategy

Prudent use of resources

- Maximise urban development capacity through the reuse of urban land and buildings *in order to reduce the need for urban expansion*
- Protect high quality agricultural land from development *in order to sustain this resource for future generations*
- Ensure the planned development of mineral extraction *in order to reduce the consumption of minerals from primary sources (optimise recycling)*
- Within a waste management strategy of waste reduction, recycling, treatment and disposal, enable the development of waste management facilities, *in order to facilitate a more sustainable approach*

4 A sustainable approach

Advocate the preparation of Integrated Regional Strategies which should define the

- *Key issues for sustainability*
- *Integrated sectoral and community action, and resources, required to address these issues effectively*
- *Indicators of sustainability for assessing progress in achieving objectives*
- *Procedures for monitoring and review*

4 cont A sustainable approach within an IRS

Adopt a polycentric approach to the restructuring and renewal, and expansion as necessary, of metropolitan urban areas

City and town centres need to be sustained and rejuvenated as the preferred locations for core metropolitan functions such as retailing, entertainment, culture, education and business to enable them to act as the focal points for a polycentric approach to urban spatial planning and development

A polycentric approach to the restructuring or planned extension of metropolitan areas based on compact development, mixed use, public transport orientated development focussed on centres will assist in achieving balanced urban renewal and development, economic competitiveness, social cohesion and accessibility

It will provide the strategic framework for local community programmes and projects

Introduction

The concept of social sustainability : Problems of context and context

Sustainable development literature and politics originated in the confrontation of environmental problems accumulated and exacerbated by unregulated economic growth. Although these problems seem—and to a large extent they are—ecumenical, they are also socially and geographically divisible and divided in terms of their mechanisms of production and of their impact as well as in terms of the ways they are perceived and of the political projects that are devised to combat them. The dominant interpretation of sustainable development remains limited, particularly in terms of the scope of action for promoting social sustainability.

Moreover, this limited version of concern about sustainability, dominant in the European Union, has some inherent difficulties in its dissemination throughout Europe because of its context dependent character. Greece is one of the less developed regions of the European Union, where the debate on sustainability did not spring endogenously and where relative initiatives—and particularly those concerning social sustainability—originated almost exclusively in the context of wider European programs that have more or less imposed their rationale for social action through the specific canalization of funds.

Sustainable development is a rather recent concept that originated in the environmental sphere, gained credibility since the publication of the Brundtland report and was enriched with economic, social and cultural dimensions in subsequent occasions such as the Rio Summit, the Local Agenda 21 or the World Summit in Copenhagen. Sustainable development is defined as the one that does not compromise the foundations for future development and should be achieved through economic activity that does not impede the regeneration of natural resources as well as through the development of social equity, since inequity is argued to be detrimental for the sound management of natural and human resources by corroding social cohesion and solidarity.

The wide acceptance of sustainability as a development objective is either attributed to its self-evident validity in the context of managerial approaches or, in a more critical perspective, to its very flexible content that can accommodate many different meanings. Ideas, concepts, objectives and slogans need to be relatively loosely defined in order to be accepted and endorsed by different and often oppositely positioned social groups. The looseness of such concepts is then limited through their interpretation in different realms following the *rapports des forces* they create as stakes. However, a relatively fuzzy content is certainly not enough for creating consensus around a concept.

The political success of sustainability is based on the dreaded exhaustion of natural resources standing as the legitimating cornerstone for a development model that seeks to avoid such a doomsday perspective. Thus, social relations and references are overwritten by relations to nature, and although the latter are first of all social relations, the legitimacy of sustainability is heavily dependent on the prominence of relations to nature in the widely accepted form of the need to preserve natural resources. Pursuing a goal that appears of an evident importance for humankind, sustainability loses its socially conflictual character by the de-legitimation of any (social) goal that can be successfully treated as unsustainable. In this process what happens in fact is an inversion between society and nature. The emphasis is withdrawn from social goals *per se*—where nature would stand as a wide set of contextual parameters—and placed instead on the preservation of nature standing as a socially invariable benefit. Following this inversion, social objectives are reintroduced, but as subordinate to the prime goal, which they must serve. The limited content of sustainability is a by-product of this subordination: promoting social equity is justified as a means to a more sustainable resource management rather than as an end in itself.

The limited content of sustainability runs parallel to the general withdrawal from radical objectives relative to social equality and justice in favor of the less ambitious objectives of social cohesion, solidarity and inclusion, which are justified by their positive role in *sustainable growth*. In fact their justification is negative, since it is their lack, which is feared to be an impediment to growth.

Sustainability acquires a more precise content through the specific political and economic projects in which its discourse is incorporated. The content of sustainability is more a stake rather than a given body of ideas, arguments and instructions. Consequently, “strong” or “light” interpretations, dominate depending on the power of the social groups and political formations that specify its content through the particular use they make of it.

Although the content of social sustainability remains rather evasive, its dominant interpretation constitutes a discourse, and a program, which has been developed in compatibility with the profile of the European Social Democracy as well as to that of the bureaucracy of the European Union. The ecological movement has gained political momentum through coalition and merging with social democratic parties, that also paved the way for its infiltration to the European bureaucracy. There are several characteristics of this dominant interpretation marking its suitability to the broader European Social Democrat political profile / project:

- First of all, *sustainability legitimates public intervention*. Sustainability needs planning and, in this sense, it promotes and legitimates public intervention. Legitimation of public intervention has been needed by the Left discourse since the traditional welfare provision approach was effectively discredited by the neo-liberal critique as ineffective and authoritarian. Sustainability can thus figure as an alternative to traditional forms of public intervention legitimation.
- Second, *it legitimates and promotes a kind of European development model*. Public intervention is legitimated as a means against the perverse environmental and social effects of uncontrolled market mechanisms. Thus it remains in the broad Social Democrat tradition and, at the same time, it becomes “un-American” in not letting the market to do its kind of reintegration of the social margin. Thus it offers a distinctive trait for the European pole of the globalizing world, a kind of compensation for its lacking economic competitiveness, political cohesion and military power.
- Third, it is an element that *can create new types of socio-political consensus* contained in the social democrat political space. Sustainability is often accompanied by an inflated discourse, which is reduced however by the scope of the social objectives to be implemented. This reduction is performed through the perception of social ills as the effects of a particular conjuncture (economic restructuring leading to unemployment through the mismatch of labor demand and supply) and through the exclusive focus on the most acute expression of its impact (social exclusion). The reduction in scope creates a large space for sociopolitical consensus, as reformism usually did, and as catchall parties’ survival requires.
- Fourth, *it can be socially and politically mobilizing* and it can run against destabilization that could result from the challenges to traditional and unsustainable forms of governance. Sustainable development demands a participatory attitude. Participation enhances legitimacy and political efficiency, and reduces the social cost of action through the mobilization of inert socio-political resources, especially among the targeted groups. Promoting the new forms of governance required in times when ‘tax and spend’ models become problematic, legitimate rather than challenge or compromise the power and efficiency of traditional governing parties.

However, sustainability is not a Machiavellian device. Its dominant form is the outcome of the adoption and adaptation of ideas and concepts related to sustainable development by specific social and political forces in more or less specific contexts. This does not imply a definitive appropriation of these ideas and concepts by the specific forces, since the former retain a certain autonomy and a mobilizing power that can eventually transgress and reshape their current political meanings.

Sustainability in Greece

The discussion on sustainable development has been weakly developed in Greece and only among small groups of environmental activists and academics. But even this low level of awareness has not been endogenous, since most of these groups were related to some international organization, like Greenpeace, and most of their leading members had international experience in these matters. Today the green movement in Greece is much more institutionalized, with one minister from the ranks of the former activists (who lost his post in the last reshuffling) and the Ministry of Public Works formally dealing with the environment and having been re-titled accordingly (Ministry of the Environment, Planning and Public Works). However, public awareness remains reduced.

The area in which the discussion on sustainable development is almost untouched is social sustainability. Sensitization in these matters originates exclusively outside Greek institutions and movements. European programs to combat social exclusion are the main vehicles bringing social sustainability to the fore, but they are perceived more as a chance for increased European funding and/or as an obligation to comply to European models and rules in order to accede to more European funds, rather than as responses to real local problems. A number of such programs have been clumsily received / implemented as a result. Job re-training and re-orientation programs from the European Social Fund have painstakingly found some alternative uses after a lot of ineffective spending, since the problem of the Greek urban labor market was not that of a mass of jobless industrial workers with unemployable skills. The URBAN initiative (aiming at the regeneration of deprived areas after de-industrialization) equally met with the problem of difficulty in finding such areas in Greek cities that would present an over-accumulation of all possible social ills. The areas that were finally chosen were deprived, but mostly for different reasons than those implied by the program and their revitalization will probably not be effective through the dominant kind of “best practices”.

This mismatch is somehow mainly due to contextual difference. Social sustainability efforts aim at confronting problems related to social polarization and eventually to marginalization and exclusion produced in most West European cities under the impact of economic restructuring leading to job loss and redundancy in the labor market and followed by a cohort of problems for the victims and their families in welfare models that are also under stress that are endangering the cohesion of the social fabric and thus are perceived as socially unsustainable.

The situation in Athens does not seem to comply with either the model of the socially polarised global city or with that of the (simply) de-industrialized city. In respect to the former, Athens does not present any significant accumulation of high-end producer services that contribute heavily in polarising the job market, since it is not one of the global or even regional management centers of the world economy. In respect to de-industrialization, Athens has undergone a rather quick phase of industrial development during the post war period that never made of industrial employment the backbone of its occupational profile, since it predominantly contained unskilled jobs held by very recent rural migrants with no working-class tradition, and it started loosing out to service employment before it became an established and long reproduced social reality. Moreover, the very small average size of the industrial units as well as their orientation to the local market has led to a gradual decline rather than to an abrupt crisis. During the 70s and the 80s industrial employment in Athens stagnated rather than slumped.

Problems at the lower part of the social scale in Athens were, therefore, not due to a destitute work force following de-industrialization but to the reduced level of general economic development, reflected in the non competitive and steadily shrinking primary sector—fueling internal and external migration—as well as in the belated and limited industrial development using part of the work force recently liberated from the primary sector. In this sense, it was poverty rather than polarization, marginalization or any other form of social destitution that mainly characterized any quantitatively significant segment of the Athenian society.

However, poverty can be perceived as destitution and marginalization if it appears to be permanent for the groups that experience it while the rest of society is progressively distanced. In post-war Athens there were a number of reasons that prevented poverty from appearing inescapable and socially delimited, and therefore reduced the visibility of problems related to social sustainability:

- First, *the high social mobility*. In the post-war years an important mobility in the Greek society was produced by the transformation of large numbers of rural migrants to urban homeowners with the feasible aspiration, at least for their offspring, to escape from manual labor and salaried work. The positive and feasible mobility perspective made poverty appear as an interim rather than a permanent situation, while the move from rural areas to the city was experienced—and in fact was—a move towards increased opportunity.
- Second, *the exclusion from mobility chances for certain groups was politically organized rather than inflicted by market mechanisms*. Following the civil war (1946-49) and for a long period, an important part of the population was restricted from access to employment in the public sector, from having a passport or a driver's license, from obtaining the required papers to put up a business etc. on the grounds of political belief or of belonging to a potentially "dangerous" ethnic minority. This type of authoritarian state regulation of mobility chances never led to the victims' permanent exclusion—except for minorities. It led rather to massive derogatory exceptions through the clientelist political system, since the governing parties were unable to do without the electoral support of the politically dangerous and their families. The major outcome was therefore not the exclusion of the social groups at point, but the loss of legitimacy of the state and the party system, combined with the development of a sense of complicity in the wider society that entered massively in this kind of transaction.
- Third, *the limited development of the welfare state in relation to the role of the family in social reproduction*. The post-war development model did not consist of a fordist profile neither on the production nor on the consumption side. Not facing a mass of working class jobs in big and spatially organized units, but rather a multitude of petty employers, self-employed and salaried workers in small units with family ties and resources, and with rural mentality and reflexes, the state opted gradually for a lighter version of welfare provision. This version entailed the mobilization of family resources in order to circumvent the shortcomings of state provision, the development of quasi entrepreneurial skills and often the use of illegality (in housing production for instance) in order to organize the self-provision of the required services at a lower cost. The state encouraged this public fund saving form of self-regulation in social reproduction by tolerating (and often rewarding) illegality—through the clientelist system—and thus reinforced the derogatory and individualistic aspirations as well as the sense of complicity with a de-legitimated state.

These factors have attenuated pressures that would lead large social groups to marginalization and bring poverty and social division to the fore, but their effect is progressively reduced. Athens is actively taking part in the globalizing world. Being in the EU and organizing the 2004 Olympic Games reinforce the pressure inflicted on its social structure leading—if not to polarization in the strict meaning of the term—to more social division and inequality. New, or relatively new, phenomena and mechanisms of that order are:

- First, *the important inflow migration of the 90s*, reversing the 50s and 60s situation when Greeks migrated en masse to the labor markets of Western Europe. This inflow, mainly from neighbouring Balkan countries, is still comparatively low (5% - 6% of the population in Athens in 1998). It is, however, important since it represents a very rapid change affecting dramatically the homogeneity and balance of the city's socio-cultural structure, especially in the areas where it is highly concentrated. Moreover, this inflow differs substantially from the flows of the early post-war decades to the fordist labor markets of Western Europe, where an organized labor demand instigated the supply while today it is an overflowing supply that eventually instigates new labor demand. The more or less unexpected and unorganized inflow resulted in *ex-post* initiatives to regularize the immigrants' situation after the accumulation of several hundreds of thousands of illegal and unprotected workers fuelling the lower ranks of employment and income hierarchies as well as the black economy.
- Second, *the progressive retreat of the family centered social reproduction model*. Family networks acted as substitutes for insufficiencies in state welfare provision, developing a kind of solidarity that represented a safety net for the more vulnerable of their members. The wide diffusion of family networks left few individuals completely unprotected. Progressively, however, family protection has started to wane: household structures are becoming less family invested, family strategies become increasingly defensive, burden on family and money budgets grows under the pressure of an aging population, family solidarity becomes increasingly a socially divided practice and there are growing numbers of people either out of protective family networks or partaking in networks with very few resources.
- Third, *the increasing urban segregation*. The post-war urbanization of Athens followed a model of rapid and unplanned growth that resulted in a rather mixed urban tissue, primarily in terms of land use and secondarily in terms of social residential patterns, the latter being largely determined by the housing provision system which initially did not favor segregation. The transformation of the housing provision system, with the increasing importance of market mechanisms both in production and in access to housing, as well as the growing problems of the urban environment, especially at and around the city center, have initiated new social residential patterns that are increasingly segregated. The change was mainly brought about by a substantial wave of middle-class suburbanization since the mid 70s that has created socially quite homogeneous suburban areas, has put the

abandoned central area in a path of quickly declining social status, while the working-class periphery of the city remained stagnating in a period when growth rates for Athens were substantially reduced. This process has created two main types of segregated areas with negative effects for the population entrapped and reproduced under the low standards they offer.

The above-mentioned phenomena and processes are added to a number of other problems, inherited from the post-war urban growth model, that are obstructing the city's sustainable development. Such problems include the accumulated lack of infrastructure, especially in transport, that has largely contributed to the overwhelming supremacy of the car leading to traffic problems and air pollution; the overbuilding of most areas around the center that has literally destroyed the much lighter pre-war building stock as well as the urban landscape and replaced it with congested low standard condominium buildings whose divided ownership, combined with the dropping or stagnating property prices, render their replacement improbable and their maintenance very difficult; the unplanned expansion outside the city limits that has been severely detrimental to agricultural land and forests; the very limited public space in the city that complicates the effort and rises the cost for constructing the lacking infrastructure and the physical supports for the provision of the insufficiently developed social services etc.

Athens is therefore a city with serious impediments to its socially and environmentally sustainable development. In this sense, even if the concept of sustainability was generated in a different context, there would be no serious obstacle in applying its principles to the Athenian context, provided that symptoms—and their generating mechanisms—were sufficiently analyzed in order to avoid inappropriate measures.

However, a major obstacle in promoting sustainability, and social sustainability in particular, in the Greek context stems from characteristics deeply embedded in the local political culture. Sustainability being a political project, the odds for the city's future depend on the political forces that will embrace such a project and on the social forces that will support it. The modernizer and Europe oriented segments of the two major political parties (the PASOK [socialist] and the New Democracy [conservative]) are favorable to the general concept and to the principles of sustainability. Nevertheless, their sensitivity is limited by traditional populist and clientelist reflexes and practices, that used to guarantee political support to their parties during the post-war period. The main problem, however, does not lie with the sensitivity of the political personnel, but with the limited awareness of sustainability issues and the individualistic approach to social problems that impedes society at large to reflect and act in terms of social (and environmental) concern.

Post-war Athens has seen the formation of a "society of inhabitants" and not one of citizens following the rapid internal migration of the 50s and 60s. The new inhabitants did not develop the feeling of belonging to the city, neither did they feel that the city belonged to them. They never cut off their link to political networks in their place of origin, since it was through these attachments that they tried to solve problems related to their integration to urban society. The city's political framework was too impersonal for the recreation of practices in the traditional rural-clientelist mode, where the role of families and politicians was mutually reinforced through the exchange of derogatory favors for electoral support. A large part of the Athenian population continues to vote in their native villages (or those of their parents) and the Greater Athens Area continues to be seriously under-represented in the Greek parliament. The subsidiary role of a modern political system, affected by clientelist practice and morals, has not been able to alter the self-centered family interest characterizing the Greek political culture.

Following this mentality and its corollary in familist structures of social reproduction, the city has evolved as the outcome of a multitude of uncoordinated individual choices and actions without any broader social concern and coordination: the poor rural immigrants of the 50s and 60s used illegal construction as a way to solve their housing problems in complicity with the state and with the moral excuse of the absence of alternative solutions; the large masses of petty urban landowners used the opportunity of enrichment and improvement of their housing conditions in the 60s and 70s by overbuilding the areas around the city center following incentives given by the state; the upper and upper-middle social strata chose to escape from the overbuilt and congested areas of the city center in the 70s and 80s to secure a better living in the suburbs.

Although these choices seem collective, they are not but the aggregation of individual and individualistic options. There has never been a socio-political framework where individual options would be taking in account the wider social interest. On the contrary, since many options were illegal or illegitimate, and for that matter derogatory becoming possible with the complicity of a clientelist state of reduced legitimacy, the dominant mentality was individualism against the wider social interest, since one should secure opportunities before someone else did. A long apprenticeship in antisocial individualism is definitely not a positive asset for the city's sustainable future.

Conclusion

The difficulties in implementing social sustainability initiatives in Greek urban areas, and in Athens in particular, are related to the limited visibility of socially unsustainable situations, since the dominant shape of social unsustainability in the post-industrial city of the advanced capitalist countries (divided/dual city, social exclusion) are not easily recognizable in the Athenian context. This low visibility is due both to certain important local socioeconomic characteristics—and primarily to the relatively belated and reduced industrial development—as well as to the dominant political culture whose individualist/familist character impedes the perception of social problems in terms of social concern and the development of participatory attitude out of such concern. In spite of their low visibility, social problems increase at least in the sense of more inequality and segregation, and challenging them—even with relatively low expectations—cannot do without their serious analysis and the development of a wider social awareness.

I would like to approach my subject, "Economic Integration", in two steps:

- First step: Let me talk about the four challenges that the Stuttgart region is facing: globalisation, rationalization, tertiarisation of production, and aggravated demographic change.
- In a second step, I would like to describe some exemplary answers to those four challenges.

First step: The four challenges in the economic integration of the Stuttgart region

1 Globalisation

Car manufacturers operating worldwide (DaimlerChrysler, Ford, GM) have developed a global strategy in order to secure favourable conditions from suppliers. A joint Internet platform allows them access to the offerings of suppliers all over the world. The purpose of this strategy is cost reduction or the "economy of scale". The Federation of German Suppliers for the Automotive Industry estimates that suppliers worldwide will have "excess capacities" of 40% by the year 2005. You can image what this could mean to Stuttgart as a automotive industry region.

2 Rationalization

Gross value added in the Stuttgart region has increased from some 60 thousand billion Euro in 1990 to some 75 thousand billion Euro in 2000. In the same period, the region has lost more than 80,000 jobs. The old theorem of "jobless growth" has become, even worse, "job killing growth".

Human work is replaced by machines, from the metal press to the computer. The floor space required per job rises continuously. So are the demands on the workforce.

3 Tertiarisation of production

Globalisation and rationalization create constantly increasing demands on the products of our industry. Traditional distinctions between production and service in the economy become less important. Sectorially speaking, 45 % of jobs in the Stuttgart region are in production and 55 % are in the service sector.

Nowadays, however, such figures are less and less meaningful. Every new product requires more research and development. Products become more complex. Twenty years ago, a car just had to be safe and reliable on the road. Today, it is expected to find its destination (GPS), alert the driver when he gets out and leaves the light on, help him get into a parking space.

There are, consequently, an increasing number of jobs in development, planning and control. Functionally speaking, 72 % of jobs in Stuttgart, a pronounced industrial region, are service jobs.

4 The challenges of demography

The present population of the Stuttgart region is 2.6 million inhabitants. Demographers forecast a 16 % decrease by the year 2050. Within the next ten years, they say, the share of persons over 55 in the total workforce will double from the present 12 % to 24 %.

I am rather doubtful about the validity of such forecasts. From a nationwide image survey, we know that Stuttgart and Frankfurt are rated first as "economic regions that have a future".

Immigration may well alleviate our demographic problems. However, we must also ask ourselves what this means in terms of inner-German or European locational solidarity.

Second step: The answers - a few examples

1 Regionalisation as a response to globalisation

The answer to the worldwide Internet platform of Daimler Chrysler, Ford and GM is: "Locational dialog of the components supplying industry in the Stuttgart region". Together with the chambers of industry and commerce, the chamber of handicrafts, the trade unions and other partners, we want to network the regional competency of the suppliers for the automotive industry in order to maintain the value added in our region.

More than 600 companies participate regularly in workshops, plant visits, and benchmark events. These activities shall help companies present their offerings to car manufacturers in a concerted complex effort whenever possible.

Let me use a metaphor: An exhaust pipe is easier to replace than the entire exhaust gas system. In other words, it is easier to replace a manufacturer of exhaust pipes than a consortium of companies that together offer a complete exhaust gas system. This is our objective: Turning single companies into system providers.

We want to get our whole economic location into good trim so that it cannot easily be replaced with other locations in worldwide competition. This includes activities of domestic marketing, enhanced domestic mobility by improved short-distance passenger traffic but also better international accessibility by rail.

And it includes an opening to the outside world - active cooperation in the Metrex network and the opening an office with the European Union in Brussels.

2 Regional networks, our answers to rationalization

Rationalization in industry comes along with keywords such as "reduced depth of manufacturing", "concentration on core competency", "outsourcing".

An example: In the Stuttgart region, they make cars that take less than 3 seconds to accelerate from 0 to 100 KPM. These cars are powered by rear engines. American pop singer Janice Joplin has sung about them. You will appreciate that I cannot name them. No product placement by civil servants!

It is interesting that only 20 % of this car are made by the manufacturers' themselves, while 80% of all its components are produced by suppliers.

The same development can be found in mechanical engineering, in the media, in biotechnology. This is also the general trend in industry, handicraft, and services.

Our ambition is to reverse this fragmentation of forces through networks from industry, science and public authorities. We want to strengthen and develop regional clusters.

We have already done this in recent years by a variety of activities, both in our classic fields of competency and by introducing new topics hitherto unknown to our region.

In our "Mobilist" project, we have brought together a consortium of 44 partners from industry (such as Daimler Chrysler, Bosch, HP, Siemens, and IBM), outstanding academic institutes at the Stuttgart universities and scientific colleges, and not least local authorities. In a nationwide competition, we have won public grants worth some 13 million Euro Mio Euro, to which were added some 10 million Euro from the companies' own funds.

We have set ourselves the target of developing new mobility services and products. This is our contribution to turning Stuttgart from a "automotive region" into a "mobility region". The subjects of this cooperation include: improved timely information about the mobility situation in the region, especially traffic jams, enhanced interfaces between public transport and private motorcar traffic, but also a better response of settlement and housing policies to the requirements of mobility than in the past.

In recent years, we have opened up a number of new fields for the economy of our region. We have created a network for the promotion of biotechnology. The following are taking part in this network:

- More than 120 research institutes
- More than 75 small and medium-sized enterprises (SME's)
- More than 30 service providers (local government, associations, public authorities, banks, ...)

The purpose behind this network is to speed up the road from a scientific idea to an economically viable product, thus creating new jobs.

Last year, much to our own surprise, this network won a nationwide competition for the promotion of biotechnology. Our new concepts on "regenerative biotechnology" were awarded a grant of 18 million Euro. Industry will contribute another 18 million Euro.

Comparable networks were created for issues like start ups, media, and fuel cell. At the moment, we are making plans for networking all resources on the subject of mobility in our Stuttgart region. We want to unite an incredible variety of coexisting initiatives in order that - an ambitious target, I admit - Stuttgart may be placed worldwide as a mobility region.

In a certain sense, we are following the appeal from the Symphony No. 9, when Beethoven calls upon us to "overcome the artificial divisions brought about by custom and fashion".

3 The answer to the tertiarisation of production

The networks described above are the first part of our response. However, constantly rising demands on the quality of our work must also be met by further qualification of our workforce.

The Stuttgart region has a large number of eminent educational institutions at all levels of our social and economic system. Universities, technical colleges, professional academies, vocational training in the German dual system.

Nevertheless, some 20 % of all people currently employed in our region, i.e. more than 200,000 persons, have no vocational education or are just semi-skilled. This figure holds a certain ambivalence:

- Positive: The rate of unemployment in our region is very low so that many people of little or no professional education do find jobs.
- Negative: In the Stuttgart region, there are more jobs at risk than anywhere else in Germany. Those "jobholders" would seem rather unfit to cope with the rising demands of industrial tertiarisation.

Therefore, the Stuttgart region together with partners from industry and the trade unions has initiated a project called "Mentoring for women with low professional qualifications". With the assistance of the European Social Fund, we shall implement a model project by the year 2004.

With about 200 female participants, we want to prove that there is some potential in the large number of girls and women with little or no professional qualification in the Stuttgart region. We want to remove barriers to advanced training and motivate companies to satisfy their need for qualified female staff from within their own workforce. Mentoring will be a three-stage process:

- Basic qualification, e.g. mathematics and language
- Workshops to teach "learning how to learn"
- Finally, professional qualification as such, e.g. skilled worker's certificate

Activating the "human resources" of our region, that is what this project is about. Industry needs skilled people. People need an opportunity.

4 The challenge of demographic development

The decreasing population and the increasing number of elderly people are problems that the Federal Republic attempts to encounter with a number of measures. The "green card" and an immigration act are meant to pave the way for capable committed persons from outside the European Union who want to work in Germany, especially in the Stuttgart region.

The freedom of movement within the European Union with its common economic territory and labour market is a joint European opportunity.

Naturally, the strong economic regions of Europe must ask themselves whether it is legitimate to recruit capable labour from poorer European regions. Ultimately, I am sure that there is no alternative to a common industrial and labour market.

Even the proposed enlargement of the EU towards Eastern Europe and the resulting inflow of highly qualified people from Poland or the Baltic States to our high-tech region in Germany, Italy, France, Great Britain, Spain ... is going to be an opportunity for the new member states. There will be "joint-ventures". Many people educated and trained in our high-tech regions are going to return to the "European regions of the future".

Last summer, our regional program for promoting the economy initiated a very promising action under the title of "Move back". The purpose of this action was to bring back to the Stuttgart region IT experts who had gone to the United States of America for their professional future. We appealed to their feelings about their Swabian home country, no less than to their sound Swabian sense of business.

Our goal was that urgently needed IT experts should return to our region for their professional future. For this purpose, Dr. Rogg, head of our regional promotion program, sent aeroplanes to circle over Manhattan, displaying the banner "Move back to Germany!"

Within the first few weeks, the action produced hundreds of inquiries from well-trained IT experts with our promotion program, emigrants from Germany as well as American IT experts. I have before me a photo of this campaign.

An aeroplane, a banner, the twin towers of the World Trade Center in New York. It was only natural for us to discontinue the action after the 11th of September last year. We did not want to benefit in any way from an act of terrorism.

Our main concern must be a reinterpretation of our demographic development. We are not prepared to accept that a rising number of elderly people are considered a locational disadvantage. We are no followers of the cult of youth presented to us in commercials everywhere in Europe.

We stand up for a "Renaissance of experience". In fact, the odds are rather good in the Stuttgart region. In 2002, 12 % of all persons employed in our region are over 55 years of age. In the Federal Republic as a whole, it is only 9 %.

That so many more elderly people than elsewhere in Germany still find jobs is due to our excellent economic situation. From this peak share of elderly people in working life, we want to develop a competitive edge for the future.

We believe: The region in Europe that best succeeds in winning qualified motivated persons of advanced age for committed professional activities will enjoy a competitive advantage.

Industry in our region shares that view. At present, we are jointly working on concepts for an organization of work that shall integrate elderly persons into advanced training concepts, thus turning the theory of "life long learning" into reality.

Third step : A final request

Those were just a few points and examples to outline the prospects of the Stuttgart region. However, we do not want to push ahead with this development just on our own behalf.

We believe that our ideas are a contribution to Europe as a whole. I would be delighted to share these ideas with European partners. Partners from all over Europe will be most welcome to those projects: in mobility technology, biotechnology, setting up business, on the subject of media, but also for the integration of low-qualified people or the "Renaissance of experience".

I would like to invite you to join us for the advancement of those projects. Let us approach the European Union together and speak up for those ideas. The Stuttgart region is ready to be your partner.

Twenty-five years ago, Birmingham, the city that I represent at this Conference, was one of Britain's most successful and prosperous manufacturing centres, with a strong economy, based on engineering and in particular the automotive industry. Within a few years, that prosperity had been blown away by the oil crisis and the recessions which followed. From being one of the most prosperous city regions in the UK, Birmingham dropped almost to the bottom of that particular league table. So, like many other industrial cities in Britain and Europe, Birmingham's story in the 1980s and 1990s has been about economic recovery and urban regeneration.

In the short time available to me this afternoon, I want to identify what seem to me to be some of the more significant features of our experience in Birmingham and to relate them to the theme of economic inclusion. Since this is a workshop session, I should also warn you that it is not my intention to provide pre-packaged solutions. Instead, my presentation will end with some questions which I hope will serve to stimulate further debate.

By way of introduction, I should perhaps provide you with a little background information on Birmingham. We are Britain's second city, with a population of around one million, located at the geographic heart of England. Birmingham is also the 'capital' of the West Midlands region of England. Unlike most English regions, the West Midlands is a fair approximation to a classical 'city region' with a metropolitan area, including the City of Birmingham at the centre, surrounded by a rural hinterland with a number of free-standing towns. Communications to the rest of the country are good - by which I mean that the basic road and rail links exist, although they suffer from the problems of congestion and under-investment which are common to transport networks in Britain. Finally, I should draw attention to the diversity of Birmingham's population. Over 25% are from minority ethnic groups, in particular the Indian sub-continent and the Caribbean, and this proportion is rising, mainly because of the relatively young age structure of these sectors of the population.

A few statistics demonstrate the scale of the economic change which affected Birmingham in the 1970s. Between 1971 and 1983, 190,000 jobs were lost, overall employment within the City rose to over 20%, and for young people aged below 20, unemployment levels reached as high as 40%. Given this history, the challenge for Birmingham in the 1980s was clear - how to restructure the City's economy in order to restore its economic fortunes.

The theme of this workshop is economic inclusion, and it is important at the outset to make clear what I understand this term to mean. For me, economic inclusion means that no-one should be prevented from playing a full part in the economy of the City, or in benefiting from the wealth it generates because of avoidable barriers, such as poor education, poor transport or poor perceptions about the area in which they live. Put slightly differently, the process of restructuring the economy of a city like Birmingham should not be seen as an end in itself, but as something undertaken for a purpose - and ultimately that purpose must be to secure the quality of life of all the people who live in the city, and of future generations.

It is within this context that I now intend briefly to review Birmingham's experience over the past two decades.

The first point to emphasise is that this has been a partnership approach. The City Council has sought to provide a strategic lead, as the main mouthpiece for Birmingham, but has worked in partnership with a wide and varying range of other organisations responsible for delivering particular services, such as health, education, training and economic development.

Over the years, partnership working has gradually become more formalised. Recently, this has culminated in the creation of the City Strategic Partnership, which brings the main organisations responsible for delivering public services in Birmingham together with representatives of the business, voluntary and community sectors, in an attempt to 'join up' service delivery and make it more effective and responsive. Inevitably, these different organisations sometimes have their disagreements - but the benefit of this approach is that there has been agreement and commitment to the main strands of the City's approach to urban regeneration across a range of agencies.

Birmingham's approach had a number of clear objectives and the first of these was to diversify the City's economy. This meant in particular moving the area away from its dependence on manufacturing, by developing a more extensive service sector. The route chosen to achieve this was a bold one and involved developing Birmingham as a centre for business tourism.

The two keys to this were the expansion of the National Exhibition Centre, which is located on the edge of the City close to Birmingham airport, and the development of an entirely new International Convention Centre in the heart of the City Centre. These facilities are now the largest of their type in Britain and taken together they account for over 40% of the UK's conference and exhibition trade. They have succeeded in dramatically increasing the number of visitors to Birmingham, and have helped to stimulate significant investment in new hotels, restaurants, shops and leisure facilities.

There was a second aspect to diversification and this was to modernise Birmingham's industrial base - to improve the quality of the City's stock of industrial floorspace, much of which dates from the first half of the twentieth century or

earlier; to assist Birmingham's existing firms to modernise and become more competitive; and to attract new firms in a wider range of industrial sectors to invest in the City.

Performance in this area has been more patchy. There are certainly successes, and the West Midlands region has become one of Europe's most successful regions at attracting foreign inward investment. However, a continued shortage of good quality investment sites, made worse by Birmingham's tight Green Belt, has limited the City's ability to benefit fully from this. Despite the successes, the West Midlands still has the second lowest manufacturing productivity of any region in the UK, and its GDP, although rising, remains below the national average.

The third aspect to the approach was to realise the full potential of Birmingham City Centre. We recognised that to capitalise on the full benefits of world class conference and exhibition facilities, Birmingham also needed world class hotels, shops, restaurants, leisure and cultural facilities, and that these needed to be provided in a high quality environment. The transformation of Birmingham City Centre over the past 15 years has certainly been our most visible success story. Our market research tells us that it is something which most Birmingham residents are proud of. Perhaps more importantly, the City Centre also provides a growing number of jobs (well over 100,000) in a highly accessible location.

These initiatives have all been primarily about creating new sources of employment to replace those that were lost. However, this type of approach, pursued in isolation, is open to criticism that it does not necessarily benefit those in greatest need. The new jobs may be taken by newcomers or commuters, rather than those displaced from older industries. It was therefore accompanied by a major emphasis on training and re-skilling the existing workforce to equip them to compete for jobs in the new economic sectors. This has involved a cultural change. The City's traditional industries tended to rely on apprenticeships and the acquisition of a 'trade'. Less value was placed on the acquisition of more formal qualifications and transferable skills. The emphasis on training has therefore been expanded into a broader commitment to raise educational standards generally throughout the City. There are solid examples of success in this area, and in particular the performance of Birmingham's schools is improving rapidly. However, skill gaps still exist, and the West Midlands region remains below the national average in relation to skill levels.

Accessibility is also an important factor in ensuring fair access to job opportunities, and so we have also consistently placed great importance on the need to modernise our transport infrastructure. This is an area where it is much more difficult to point to success stories. Birmingham's international accessibility has improved, mainly as a result of the expansion of Birmingham's airport, and this is obviously important given our intention to develop business tourism. However, progress on improving our internal transport networks has been slow - after 20 years of trying, we still have only one light rail route. This means that moving around the City, and in particular journeys not involving the City Centre, is more difficult than it should be.

The final piece in this policy jigsaw has been area-based regeneration - a commitment to focus public resources and action on the most deprived areas. Over the last 20 years there has been an almost bewildering array of locally-based initiatives, often responding to nationally inspired programmes which it would take far too long to describe. Again, there are examples of success - for example, a major transformation of the Lee Bank area, which adjoins the City Centre, is currently taking place. However, there are always problems of maintaining such successes in the long term, once the area programme has come to an end, and difficult issues of competition for resources between areas also arise.

To sum this up, Birmingham's approach has led to real progress. Again, a few statistics help tell the story. Overall, unemployment within the City is now down to 7.3%, total employment has increased by 9% since 1992 and economic activity rates are rising. After 40 years of population decline, people are beginning to move back to the City, and the population is stabilising. This is a very real achievement, given the starting point 20 years ago, and it owes much to the clarity of the vision which Birmingham developed and the consistency with which that vision has been pursued.

However, the story of Birmingham's regeneration is by no means complete. If we are serious about economic inclusion, we also need to ask how universal the benefits of economic recovery have been. Perhaps the most telling statistic here is the national index of deprivation, which shows that one-third of Birmingham's residents still live in areas which are amongst the 10% most deprived in Britain. Unemployment in the worst of these areas still exceeds 20%, skills levels and educational attainment are often low, and problems of dereliction and a poor living environment persist. These areas also include a disproportionately high number of the City's black and ethnic minority residents. The inescapable conclusion is that although a regeneration process is well-advanced, not all communities have shared in the process to the same extent, and for some the benefits are hardly visible.

In responding to this continuing challenge, we are working towards a more comprehensive and coherent approach to the issue of neighbourhood renewal. An important step in this direction was taken at a conference held in Birmingham in February 2001, and known as Highbury 3. This produced the concept of 'Flourishing Neighbourhoods' - the idea that a city like Birmingham is not a single entity, but is actually made up of a diverse range of distinctive neighbourhoods, each with their own character, but each contributing to, and sharing in, the success of the whole. This approach sees neighbourhoods as being assets and opportunities rather than problems, and it emphasises the need to foster and support all neighbourhoods and not simply those with the greatest needs - although it still encompasses the need to continue to target resources at the most deprived communities.

One of the ways in which we are beginning to put this concept into practice is by developing a strategy for improving local centres throughout the City. In part, this responds to public pressure for the very visible renewal of the City Centre to be repeated in the suburbs, but it also seeks to realise the potential of local centres to provide locally accessible shops, services and employment at the heart of local communities.

A second way forward is an increasingly serious commitment to move towards decentralising control over some aspects of service delivery and to provide greater local control over local regeneration budgets. The Council is working towards the creation of a series of local strategic partnerships which will bring together the key agencies from the public, private, voluntary and community sectors, to provide a more coherent and 'joined up' approach at the neighbourhood level. We are very much at the beginning of this process, and there are many challenges ahead - for example, in terms of deciding what services can most effectively be devolved, and how central budgets can be disaggregated. The reality is that the capacity of communities in different parts of the City to take on this task varies and so it is unlikely that progress will be even across the City. However, the principle which underpins this approach is an important one - that we are unlikely to be successful in tackling the problems of economic inclusion without the active participation of communities in developing solutions at the local level.

I said that my intention would be to end with questions rather than answers.

Firstly, how do we know when a neighbourhood is flourishing? Is it possible to identify some objective measures which would enable us to chart the progress of different areas? In particular, is it possible to include within this, a meaningful method of assessing some of the less tangible factors, such as community spirit and involvement?

Secondly, is it possible to transfer the success of the City Centre to the suburbs? Birmingham City Centre has been transformed through a radical process of redevelopment and renewal. Is this model appropriate for suburban centres or is a process of more gradual and incremental change likely to be more sustainable?

Finally, how far should local management be taken? What services and what budgets can most effectively be devolved? Birmingham has benefited from being able to pursue a clear strategic approach across the whole City. Can this be maintained if control is increasingly delegated to neighbourhoods?

I hope these thoughts will help to stimulate the debate.

Access to green urban areas as an indicator of urban sustainability

The Directorate General Joint Research Centre (DG JRC) of the European Commission (EC) is performing a pilot project named MOLAND (Monitoring Land Use / Cover Dynamics) the aim of which is to measure of the extent of urban areas and regional developments, as well as of their progress towards sustainable development, through the creation of land use and transport network databases for various cities and geographical areas in Europe. The project covers wider issues linked to sustainable development, and also aims to create a network of partners and collaborators within and outside Europe. Currently the project is analysing 40 urban areas and seven extended regions in Europe.

MOLAND addresses specifically the issues mentioned in the European Spatial Development Perspective (ESDP) that are related to urban and regional development, and those linked to sustainable land use management. Consequently, MOLAND is also of direct relevance to several environmental topics at the EU level, such as the actions on sustainable urban development and related communications, and the initiatives on Environmental Impact Assessment and on Strategic Environmental Assessment. In particular, MOLAND contributes to the preparation and definition of the Thematic Urban Strategy of the 6th Environmental Action Plan of the European Union, following the guidelines set by the EC General Directorate on Environment.

Access to green urban areas is an important indicator of urban sustainability and quality of life of the citizens. Green urban areas offer recreational possibilities free of charge for all population groups regardless of the age or income level. Urban areas differ very much from each other as to the proportion of green areas of the total urban area, the size of green areas and their distribution in relationship to residential areas.

In the MOLAND project the accessibility and availability of green urban areas have been studied in selected European cities by using the same methodology. The analysis has been carried out to support the European Common Indicators Initiative. Due to historical and geographical reasons but also to varying spatial planning policies and objectives, the differences in availability and accessibility in studied cities are quite big. The proportion of the residential areas within a walking distance from a larger than 1 ha green area ranges from 50 % to 90 %. On the other hand in the availability of green recreational areas per inhabitant the differences are even greater. The smallest area/per person is 0.2 acres and the highest more than 4 acres/per person.

In addition to accessibility studies MOLAND can be used for analysing and simulating the impacts of different planning options and scenarios on various urban features linked to land use, transport network and demographic developments from the point of view of sustainable development.

Keywords: Spatial planning, accessibility, green urban areas

Introduction

The Directorate General Joint Research Centre (DG JRC) of the European Commission (EC) is performing a pilot project named MOLAND (Monitoring Land Use / Cover Dynamics) the aim of which is to measure of the extent of urban areas and regional developments, as well as of their progress towards sustainable development, through the creation of land use and transport network databases for various cities and geographical areas in Europe. The project covers wider issues linked to sustainable development, and also aims to create a network of partners and collaborators within and outside Europe.

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In particular, MOLAND contributes to the preparation and definition of the Thematic Urban Strategy of the 6th Environmental Action Plan of the European Union, following the guidelines set by the EC General Directorate on Environment.

The aim of MOLAND is to provide an integrated methodology based on a set of spatial planning tools that can be used for assessing, monitoring and modelling the development of urban and regional environments. The main feature of the project is that it allows quantitative and qualitative comparisons at pan-European level, among areas subject to transformation due to policy intervention. A further characteristic is that it adopts a methodology that simultaneously addresses the EU perspective on the one hand, and the regional / local dimension on the other. Currently, a total of 40 urban areas have been analysed in Europe and a wider network of links is being created in collaboration with existing organisation such as EUROCITIES and others.

Project overview

The overall aim of the JRC's MOLAND Project is to provide a spatial planning tool for assessing, monitoring, and modelling the development of urban and regional environments. MOLAND was initiated in 1998 (under the name of MURBANDY – Monitoring Urban Dynamics), in support of the preparation of the European Spatial Development Perspective (ESDP). The aim of MURBANDY was to monitor the development of urban areas and to draw some conclusions on trends at a European scale. This work was subsequently extended (under MOLAND) to the computation of indicators (following the requirements of EUROSTAT, European Environment Agency and others), and to the assessment of the impact of anthropogenic stress factors (with a focus on expanding settlements, transport and tourism) in and around urban areas, and along development corridors.

The primary role of the MOLAND Project is to provide scientific and technical support to the European Commission's various Directorates-General (DGs), services, and associated bodies, that are responsible for the conception, development, implementation, and monitoring of EU policies related to urban and regional development. At present, the main EU policy areas that are supported by MOLAND include the following: the 6th EC Environment Action Programme's proposed Thematic Strategy on the Urban Environment, for DG ENV (Environment); Indicators for Sustainable Urban and Regional Development, for DG ENV, EUROSTAT, and the EEA (European Environment Agency); the ESDP, for DG REGIO (Regional Policy); Impacts of the Structural and Cohesion Funds, for DG ENV; Strategic Environmental Assessment (SEA) of the Trans-European Transport Networks (TEN-T), for DG TREN (Energy and Transport).

The study areas currently under examination in MOLAND are shown in figure below:

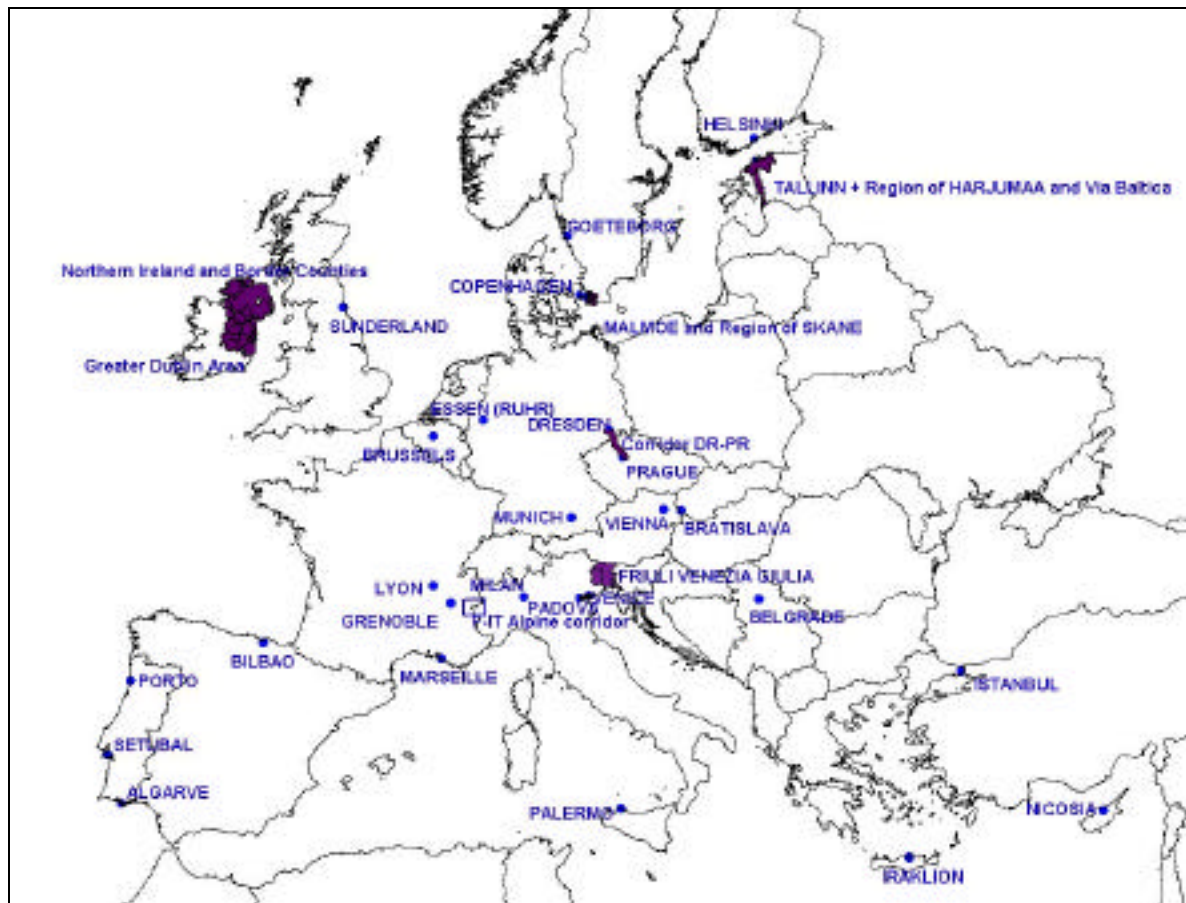


Figure 1: Study areas in Europe.

From a technical point of view, MOLAND has three specific aims:

- to produce quantitative information on the evolution of land use and transport networks, from 1950 onwards, in study areas subject to infrastructural changes (e.g. urbanisation, construction of transport links);
- to develop methods for performing a harmonised analysis of historical trends, including socio-economic aspects, impact of legislation, landscape fragmentation, etc.;
- to develop models for the harmonised simulation of future European-wide scenarios, at local and regional scales.

The implementation of MOLAND is divided into three phases, corresponding to the above specific aims. Central to the methodology is the creation of detailed GIS databases of land use types and transport networks for the study areas, at a mapping scale of 1:25,000. The databases are typically for four dates (early 1950s, late 1960s, 1980s, late 1990s), or for two dates (mid 1980s, late 1990s) in the case of larger areas. For each study area the reference land use database (late 1990s) is created from interpretation of satellite imagery, most commonly from the IRS (Indian Remote Sensing) satellite (pixels of 5.7x5.7 metres), and in a few cases from the IKONOS or SPOT satellites. The three historical databases are created from the available data (aerial photographs, military satellite images, etc.) for these dates. MOLAND adopts the CORINE land cover legend, with a fourth, more detailed level of nomenclature added for artificial surfaces.

In the second phase of MOLAND, various spatial analysis techniques are applied to the land use and transport databases, and associated socio-economic data, in order to compute different types of indicators of urban and regional development. These indicators are used to assess and compare the study areas in terms of their progress towards sustainable development. Analysis of the fragmentation of the landscapes is also carried out. The land use and transport databases have also been used for a strategic environmental assessment (SEA) of the impact of transport links on the landscape.

In the third phase of MOLAND, an urban growth model is applied. This model, which is based on spatial dynamics systems called "cellular automata", takes as input the MOLAND land use and transport databases, as well as maps of land use suitability and zoning status, and simulates future land use development under the input urban and regional planning and policy parameters. Here, the aim is both to predict future land use development under existing spatial plans and policies, and to compare alternative possible spatial planning and policy scenarios, in terms of their effects on future land use development.

Territorial indicators in the analysis of urban and regional development

Key objectives in MOLAND are to quantify the changes in land use patterns, to explain the trends of growth for the selected urban areas, and to help in identifying strategies for sustainable urban and regional development. The extensive data set created within MOLAND allows handling a series of unique land-referenced data. Those data are used to build and, particularly, to test specific spatially referenced indicators. Such indicators serve several purposes:

- Provide a better understanding of complex territorial problems
- Provide a sufficiently complete basis for the approaches to urban and regional spatial planning (particularly regarding sustainable land use management)
- Help city managers and decision-makers in defining local policies
- Provide regional/national authorities and international institutions (such as Eurostat and EEA) with detailed territorial-referenced information at local and European levels.

The indicators are designed to be robust in space and time, as well as flexible enough to accommodate the urban and regional different structures. At the same time such indicators offer a degree of standardisation that allows comparisons between different urban areas Europe.

A further key peculiarity of the approach is the multi-temporal perspective for assessing past and future trends.

A core set of urban and regional indicators, which includes land use and socio-economic information, has not yet been precisely defined and agreed at EU (or even international) level, and within the project the definition of specific indicators for the sustainability in urban areas (as systems connected to their regional backgrounds) is one of the most investigated topics. The technical framework for providing such a quality of information has never been previously developed at large scale. MOLAND addresses these deficiencies and offers a new point of view by linking "classical" socio-economic indicators to territorial parameters.

Particular effort is devoted to the development of easily handled indicators, since potential users of these results include city managers, local administrators and planners, up to international bodies. Such users may also be willing to have a comprehensive framework of the situation. Due to the complexity of the urban systems and the quantity of data managed, the number of indicators has to be reduced to the minimum. Furthermore, in order to attain all the sectors that need to be considered MOLAND targets a set of cross-sectoral indicators, with a focus on pressure indicators. The user, in this way, should be able to handle more information with a manageable effort.

The indicators developed under MOLAND can be divided into two main categories:

- Spatially referenced indicators providing information on different land use types and changes;
- Cross sectoral spatially referenced indicators to target and evaluate more complex processes for landscape changes (e.g. fragmentation). Socio-economic data, prepared in a spatially disaggregated format, are included in this category to cover topics of relevance for different policies (environment, transport, social cohesion, etc.). The aim here is to address carrying capacity and general urban and regional sustainability issues.

Examples of the MOLAND indicators are presented in Figures 2, 3 and 4 which show respectively the application to generalised land-use indicator at European scale and examples of territorially differentiated indicators. Figure 5 shows an example of a territorially referenced indicator defined in the frame of the European Common Indicators initiative of DG ENV.

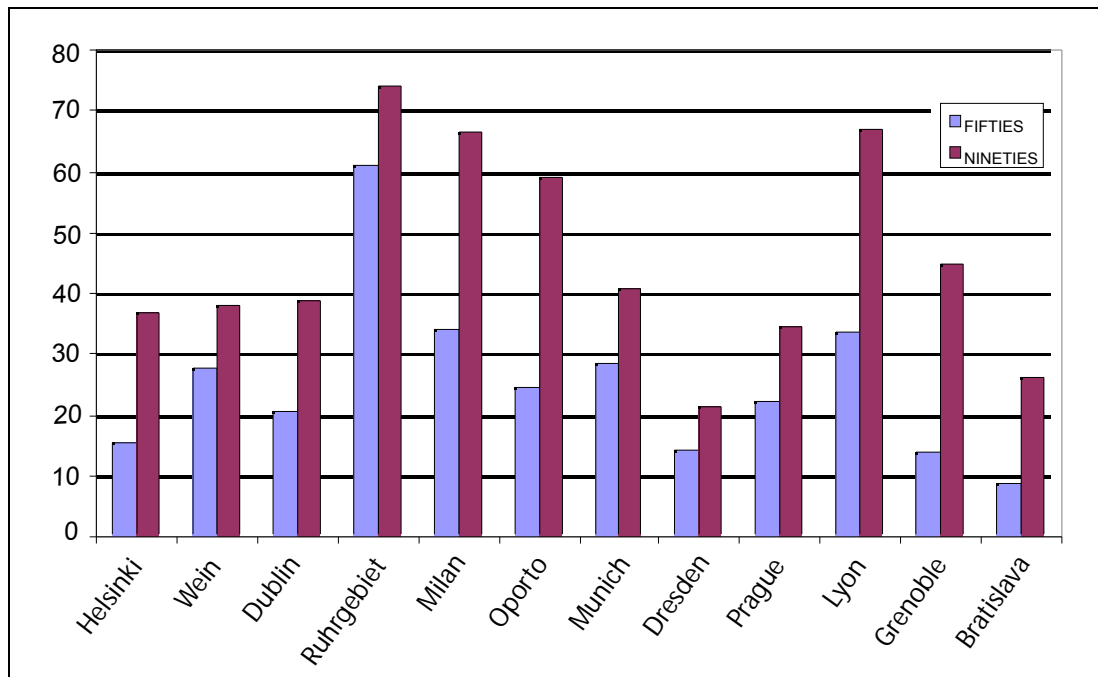


Figure 2: Urban sprawl (in %) for 12 European cities in the last 50 years.

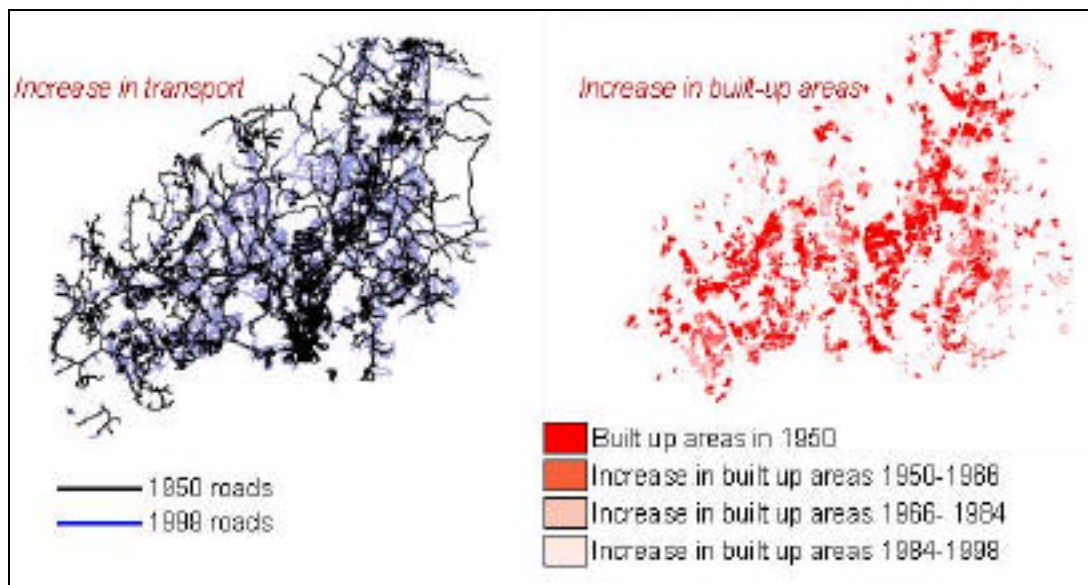


Figure 3: Land use evolution in Helsinki from 1950 to 1998.

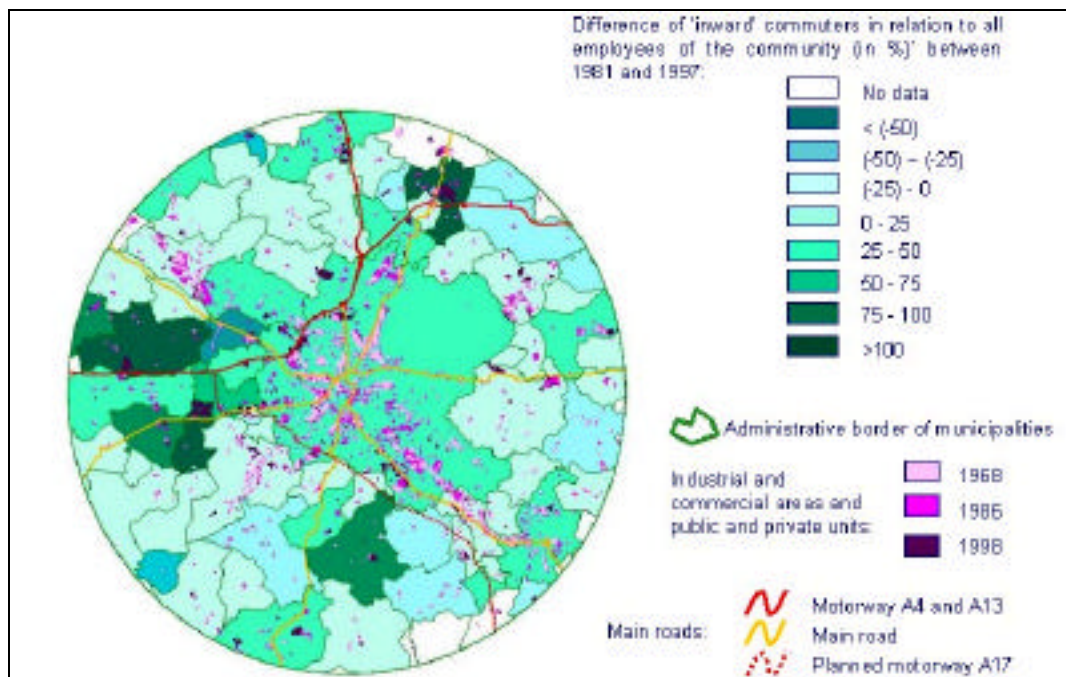


Figure 4: Dresden (D) - Impact of land use transformation due to commercial and industrial activities on commuters behaviour between 1981 and 1997. Commercial and industrial areas for three dates (1968, 1986 and 1998) and main roads are overlaid on the change in 'inward' commuters for each municipality around Dresden. Darker green indicates that the industrial and commercial settlements are attracting daily workers, which in turn call for the establishment of transport infrastructure.

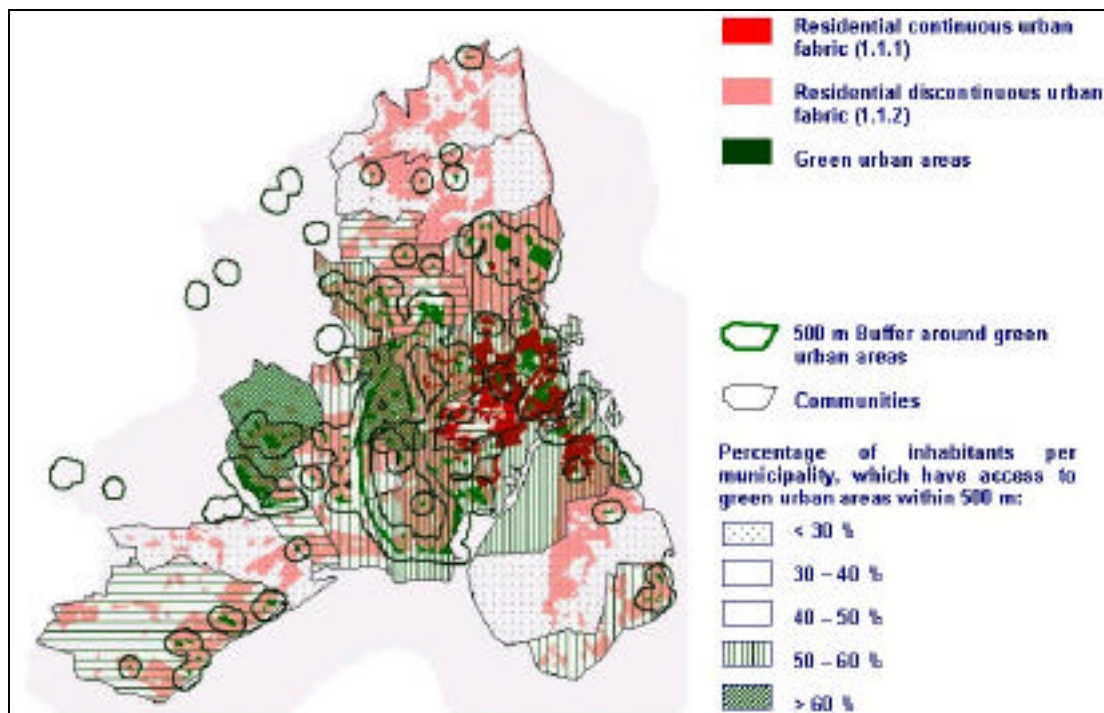


Figure 5: Copenhagen 1986 - Percentage of inhabitants (per municipality), which have access to green urban areas. The map is built up from the definition of indicator n. 4 'availability of local public green areas and public services', from the European Common Indicators.

Moland in the analysis of the access to public open areas (European Common Indicator A4)

The Moland land use classification consists of approximately 100 land use classes. It is based on the European standard land use legend, CORINE, but a fourth, more detailed level has been added to match the more detailed scale of the Moland project. In Moland the scale is 1:25 000 and the minimum mapping unit (=the smallest area mapped as an independent land use unit) is 1 ha (100m*100m) for artificial areas and 3 ha for agricultural and natural areas.

To analyse the access to public open areas the following land use classes of the Moland legend were chosen:

1.4.1 Green urban areas	This class includes areas with vegetation within urban fabric. It includes city parks (minimum mapping unit is 1 ha).
1.4.2 Sport and leisure facilities	This class includes areas such as camping grounds, sports grounds, leisure parks, golf courses, racecourses, amusement parks, etc. It also includes formal parks not surrounded by urban zones (minimum mapping unit is 1 ha).
2 Forests and semi-natural areas.	This class includes forests, shrub, grassland beaches and sparsely vegetated areas (minimum mapping unit is 3 ha).

The areas classified in the class 1.4.2 include mostly parks which are not completely surrounded by built-up areas but which are partially surrounded by natural or agricultural areas. It also includes areas which are not accessible free of charge at least not all the time. In the analysis herein presented, also the areas not freely accessible, such as leisure parks, are included, although it is possible to exclude them. Forests and semi-natural areas have been taken into analysis because in most urban areas they are widely used for recreational purposes and they are freely accessible in most cases. In the contrary, agricultural areas are not part of the definition of public open areas, since a vast majority of them are not accessible to public not at least in the growing season.

The proportion of green areas (Moland classes 1.4.1 and 1.4.2) varies considerably in the studied urban areas. In Bratislava (the capital of the Slovak Republic) less than 2 % of the total land area is classified as green areas. The other extreme is Sunderland in the UK, where 13 % of the land area is green areas. The general trend over the past 50 years is the increase. In the sample of 15 cities only in Dresden in 1990s there are less green urban areas than in 1950s, which is explained by the heavy bombings during the WW II and the reconstruction work in the following decades as a result of which the green areas within the urban fabric have turned into built-up areas.

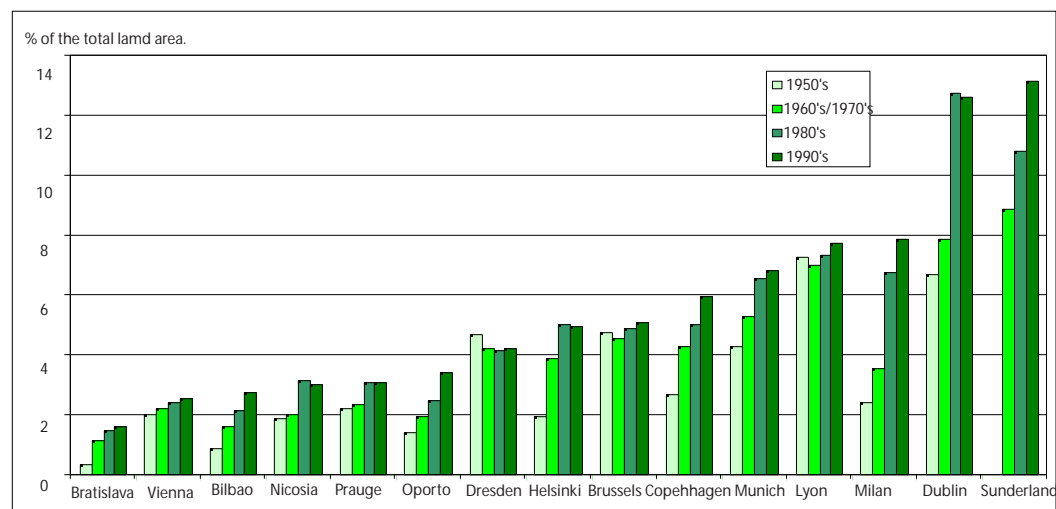


Figure 6: Proportion of green-areas in selected European urban areas from mid 1950s to late 1990s

When the surrounding forests, which have a very important recreational value, are taken into consideration, the picture changes. The areas covered by forests and other green recreational areas vary between 8 % in Milan Italy and 50 % in Helsinki, Finland. The big differences in Europe are caused by different prevailing land use patterns, which in turn have been moulded by geographical location and historical developments. Some urban areas are located in the middle of agricultural areas and others are bordered by forests.

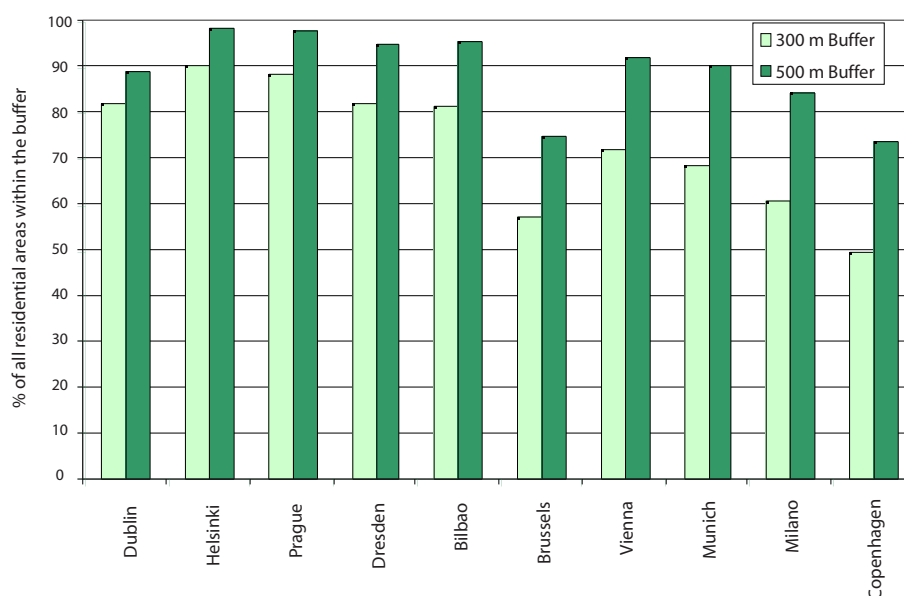
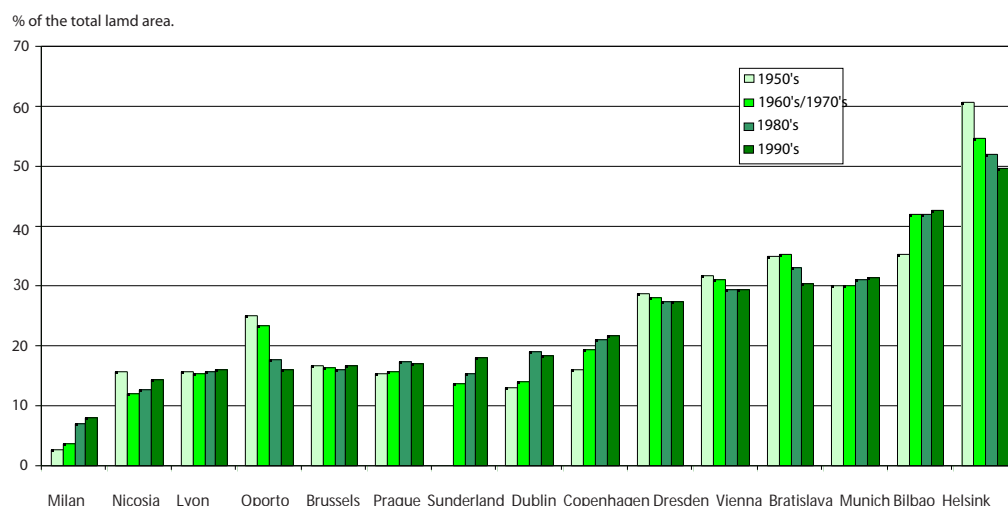


Figure 8: Sensitivity of indicator ECI #4 to the size of the buffer.

The mean difference between the two sizes is of about 16 percentage points. The higher the percentage of residential areas within the buffer is, the smaller the difference between the situation of a 300 and a 500-meter buffer became. The largest difference is recorded in Copenhagen with 24 percentage points. Although the indicator seems to be sensitive to the size of the buffer, it is even more sensitive to the threshold size of the open public space. A difference of over 40 percentage points in the value of the indicator has been found if no lower limit to the dimension of the green areas is set (i.e. all small green areas be they narrow strips of grass or groups of trees are taken in the computation of the indicator).

The accessibility indicator has been computed for a selection of ten European cities with a 300 m buffer range. The differences between areas are surprisingly high. In Copenhagen the accessibility is lowest among the selected cities. But even there half of the residential areas are situated closer to 300 m to an open public space. The other extreme is Helsinki where 90 % of all residential areas are located closer than 300 m to an open public space.

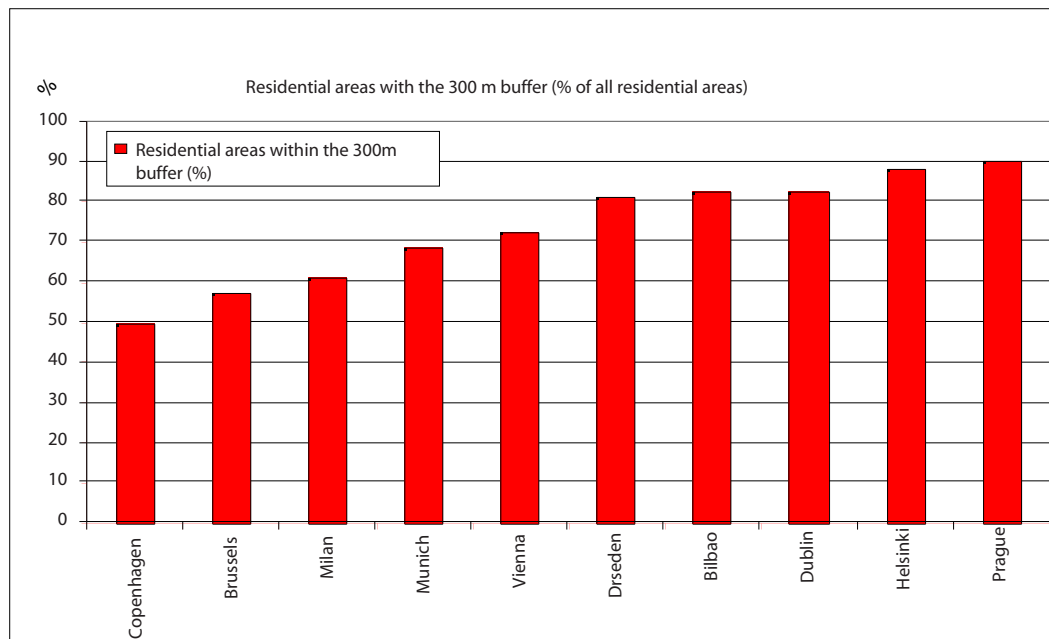


Figure 9: Accessibility to green-areas for selected European urban areas.

The accessibility indicator sheds light only on one side of ‘the user-friendliness’ of open public areas. In a more thorough analysis also the size and relative location of open public area should be taken into account. This is illustrated by analysing, for example, the urban areas of Milan and Munich where the difference in accessibility indicator is 8 percentage points. Milan is characterized by a large number of relatively small open public areas which are spread very evenly in the urban structure. In Munich the areas are much bigger in size, more continuous, but they are concentrated in the outskirts of the city. In spite of these huge differences, which can be immediately seen on a map, the indicator gives a very similar value for both of the cities.

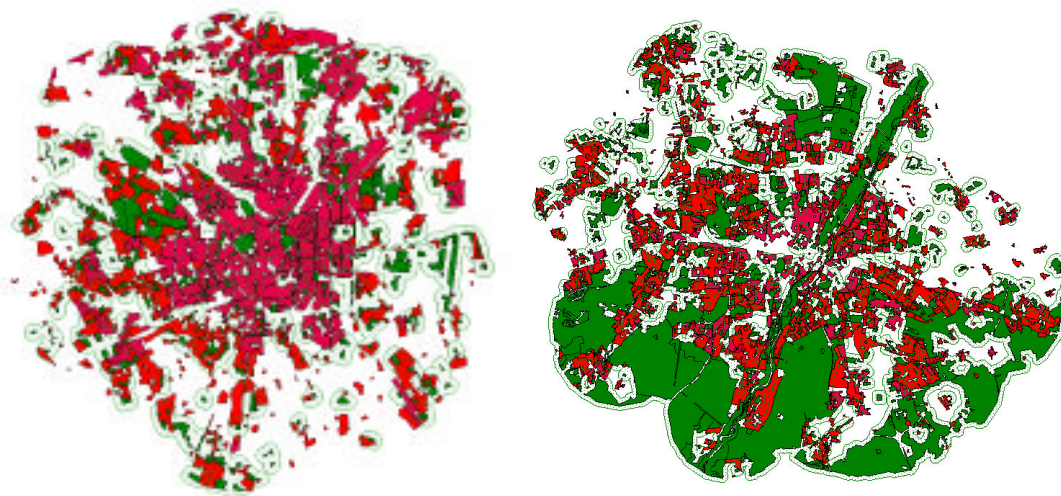


Figure 10: Size and relative location of open public space in Milan (left) and Munich (right).

Conclusions

The methodology experimented and continuously evolving in the project MOLAND was set up to provide a European view on spatial developments of urbanised areas. During its evolution, the method has proven to be applicable in the evaluation of the impact of policies and measures at both local/regional and continental level.

The example illustrated in this paper gives an idea of the flexibility of the method. Once the database is coherently and duly completed, the analysis can be customised to satisfy different criteria of evaluation. Remedial actions can therefore be taken more promptly and with greater precision.

The key element for the application of the criteria and methods developed by MOLAND is the concrete and active involvement of regional and local authorities. This is for two main reasons.

- In the field of Regional policy the subsidiarity principle reaches its full dimension: local/regional bodies implement with almost full autonomy directives and measures for regional developments decided by the EC. This is particularly true for structural funds related to urban and local infrastructure (ports, airport etc.) and for the application of SEA at local/regional level. The debate has also been at the center of the ESPD, and will have to be solved in the establishment of ESPON.
- From a purely technical point of view, only at the adequate local level is there a need for information to fully assess and analyze the impact of measures taken or planned.

In the frame of the activities of the project, particular efforts have been dedicated to establish links and contacts with national, regional and local authorities. These contacts have resulted in formal collaborations either following already established mechanisms in the EC (such the Working Groups in DG ENV, projects funded in the INTERREG Programme, the 5th RTD Frame-work Programme, etc.) or establishing bi-lateral agreements. An active collaboration has been initiated with EUROCITIES (originated in the frame of the working groups set by DG ENV) and the Union of Baltic Cities to network cities and local administrations. This results in a series of proposals for thematic network to the EC, in which the partner-cities will aim to adopt as much as possible of the MOLAND methodology.

The 'instrument' to formally set up a large thematic network on the issue of urban (and regional) sustainable development is provided by the European Research Area which will drive the research activities of the European Commission. It is essential to extend the scope of such network to 'institutional users' (e.g. local administration, EC services etc.) and to institutes and organizations with a specialization and tradition in the various fields related to the "urban affaire".

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1. Preamble

The Province of Turin adopted the Territorial Plan of Coordination (T.C.P.) in 1999. This provides an intermediate level of planning for local authorities between regional and municipal plans. Pursuant to Article 20 of Legislative Decree No. 267, 18/08/2000, the Territorial Plan of Coordination must define “*general guidelines for land planning and development*”. The main contents of the T.C.P. were outlined during the course of the METREX Torino 2000 Biennial Conference, to which reference should be made. The T.C.P. defines a set of rules to overcome the inconsistencies of municipal town-planning policies and expresses the need to include municipal plans within specific “extra-urban” sub-environments. These “specific sub-environments” represent a preliminary attempt to create a provincial network for coordinating local policies.

The Territorial Plan of Coordination thus defines specific extra-urban agglomerations that require more in-depth studies at local town-planning level. These studies must be exhaustive, require the co-operation of all those involved and can benefit from the direction and support of the Province. These areas are defined on the basis of different sets of problems and fall into three main categories:

- Areas that developed historically and morphologically along important arterial roads, merging the built-up suburbs of different municipalities with similar problems in terms of urban development issues.
- b) Areas that, in relation to the importance of current initiatives, must be examined in terms of extra-urban co-ordination, including by sector.
- Areas of particular environmental importance - landscapes and natural heritage - that must be protected and the presence of elements of critical environmental importance characterised by extensive, low-density buildings and very few opportunities for integration. The need here is for upgrading and improvements.

Corso Francia is an important arterial road that links three municipalities within the Turin metropolitan area. It is approximately 12 Km long and falls into all three of the categories listed above. The project has not yet been implemented. However, it is in the process of being drawn up and is one of the main “Strategic Projects” for the Province of Turin.

2. Historical and land context

The project must take into consideration the historical and land context. The Province covers an area of approximately 683,000 hectares (6,830 sq. km). Turin is the main town and centre of the Province, characterised by the Alps that separate it from France. The Alps cover almost 1/2 of the province, the hills account for approximately 1/6 of the surface area and the remaining 1/3 is flat land. The plain covers a very small part of the area and it is here that the city of Turin has developed.

When the road that is now called Corso Francia was built, Turin had approximately 45,000 inhabitants and was the capital of the Savoy State. The city lay between two rivers, the Dora and the Po. It was surrounded by city walls, with bastions and moats from which the army defended the city. The “Cittadella”, a formidable and impenetrable five-sided fort, was built in the second half of the 16th century in the south-western corner of the city, on the highest part of the city.

In 1706, during the reign of Vittorio Amedeo II, the French army, led by the Duke de la Feuillade, besieged the city to punish Vittorio Amedeo II for taking sides with Austria instead of France during the Spanish War of Succession. The city put up memorable resistance. Each year it still celebrates the heroic actions of one soldier, Pietro Micca, who gave up his life to prevent a group of French grenadiers from entering the “Cittadella”. On 7 September 1706, the Empire’s troops rejoined the Savoy army and freed Turin from foreign rule. There is a legend that says as Vittorio Amedeo II watched the French army assemble from his position on Superga hill, which stands 669 meters above the city, he vowed he would build a church on that site in case of victory.

In this historical context, extensive building work got underway and urban development plans were implemented. These plans included a new castle in Rivoli, to the west of the city, opposite Superga hill and in the direction of France. This was part of more extensive plans to develop a modern urban centre to be used as a royal palace outside the city, based on the new decentralised land model of royal residences in Europe.

3. The “wide road of Rivoli”

These plans also included the construction of a new, straight road, called the “wide road of Rivoli”. The road traced a line between the Castle and the Basilica of Superga, built between 1717 and 1731 and designed by the architect, Filippo Juvarra. Work on the road started in 1711 and was completed the following year. The year 2011 will mark two important anniversaries: 150 years since the Unification of Italy and 300 years since Corso Francia was built.

As stated earlier, the city underwent considerable development during the 18th century. The decision to connect Turin with Rivoli, by means of a straight road that was totally unaffected by existing roads, also had significant political implications. Rivoli Castle was designed to become a seat of power and not a residence of leisure, unlike the Palace

at Venaria Reale. The new road was thus constructed with no regard for land owners' rights and traced a straight line between the Superga hill at one end and the moraine hill in Rivoli, on which the Castle was built, at the other end. This tree-lined road, approximately 15 meters wide and 12 Km long, running over an area of completely flat land, was an imposing piece of engineering work for the time.

A map dating back to about 1820, more than a century after the road was built, shows how the "wide road" still maintained the characteristics of a tree-lined avenue, with the sole purpose of connecting Rivoli. However, a number of rural centres gradually started to develop along the route, for instance, where it crosses the road that joins the municipalities of Collegno and Grugliasco located, respectively, to the north and south of the "wide road".

4. Development along Corso Francia in the first half of the 20th century. The triumph of Liberty

Between the end of the 19th century and the beginning of the 20th century the first important industrial-residential estate, known as "Villaggio Leumann", was built in Collegno, about half way along the "wide road". The estate comprises two areas of houses built along the sides of a textile factory and covers an area of approximately 60,000 square metres. "Villaggio Leumann" in Collegno is one of the best examples of twentieth-century workers' housing developments. The distinctive, Liberty-style architecture of the houses and factory entrance stands out amidst the disorderly architecture of what is now an industrial suburb, created somewhat frenetically in the second half of last century.

The urban planning, architecture and, above all, the social institutions created by a brilliant entrepreneur, Napoleon Leumann, are an extraordinary model of historical, cultural and architectural importance; a heritage that we must safeguard. The Swiss industrialist established the Leumann Cotton-Mill in 1875. The company soon grew in size and importance. In less than ten years the workforce increased from two hundred to eight hundred. By 1911 it stood at around 1500.

"Villaggio Leumann" was not merely a residential nucleus for its workers. It was a clearly defined area in which production, housing, social and welfare institutions, free time activities were all closely linked to form a functional and socially advanced unit. The estate comprises 59 cottages and houses representing a total of 120 apartments that originally housed around one thousand people. Buildings to house essential facilities, such as a junior school, day nursery, church, theatre, doctor's surgery and sports hall were built around the houses, in addition to a boarding-house providing accommodation for approximately 250 female workers aged between 13 and 20.

Turin developed to the west, along Corso Francia, in the early 20th century, when a new district, called "Cit Turin", was built. This district features a number of Liberty-style buildings.

Note that Turin played host to the most important "Italian Art Nouveau" exhibition of that time, the International Exhibition of Decorative and Industrial Art, which opened on 10 May, 1902. Some of the finest examples of Liberty architecture in Turin can be found in the first part of Corso Francia, near Piazza Statuto. One such example is "villino Raby", a family house designed in 1901 by the architect, P. Fenoglio. Another of Fenoglio's projects, dated 1902, is "la Fleur", which stands on the corner of Corso Francia with Via Principe d'Acaja. Fenoglio also designed "Casa Maciotta", in Via Bagetti on the corner with Corso Francia.

Further along Corso Francia is another fine building, "Palazzo della Vittoria", built in 1920, which combines Liberty and medieval architecture.

During the first half of the 20th century, urban development along Corso Francia was well-planned and characterised by high-quality architecture.

5. Development along Corso Francia in the second half of the 20th century. The triumph of commonplace architecture

As Turin continued to expand, especially after the Second World War, it maintained its Roman grid street pattern but failed to acquire the characteristics of a "well-organised" urban environment. The new part of the city is characterised by its anonymous, characterless architecture with no cultural hinterland.

The basic structure lost the value of rational relationships in subsequent "deformations". This was aggravated by the City of Turin building code, which did not allow buildings more than 30 meters tall. Development was thus characterised by buildings of a standard height and the commonplace style described earlier. The only exception is to be found in the tree-lined avenues, although many of those linking the Savoy residences and villas around Turin no longer exist.

In order to assess the environmental quality of urban development along Corso Francia, we must also consider the urban context, with specific reference to the particular form of suburban development. Turin differs from other cities that have developed in flat areas and only have two land dimensions: Turin is surrounded by hills and mountains that are visible from the city streets. The city and its metropolitan area, rather than being part of the plain, are part of the hills and mountains that characterise Turin's skyline.

As the city (and the municipalities that border on or use Corso Francia) expanded, it swallowed up the few remaining agricultural areas. Immediately after the Second World War, the population of Rivoli, Collegno and Grugliasco numbered just a few thousand. It now numbers approximately 140,000. The majority of new residential, industrial and commercial buildings and facilities were constructed along Corso Francia. New facilities already exist or are planned in the municipalities to the west of the city, in addition to existing residential, industrial and tertiary structures:

- the European University and the Museum of Man at the Charterhouse in Collegno

- extension of the Museum of Contemporary Art in Rivoli Castle
- a new university campus in Grugliasco.

From maps drawn in 1923, it is clear that Corso Francia was an extra-urban, rather than urban road. The following map is more recent. It shows how the various areas have been used and how the entire length of the road is now built-up. Different colours are used to represent the different uses. Residential areas are shown in red, public facilities are shown in grey, industrial areas are shown in purple and commercial areas are shown in green. If we study the map drawn in 1820, shown earlier, and superimpose the built-up areas, the city's development along Corso Francia over the last two centuries is seen clearly.

6. The concept of “extended city”

The boundaries of this city spread around Turin, not only to the west, continue to expand. The development of virtual forms of communication (information technology, communications technology) has consolidated, rather than hindered, this process. This land extension does not conform to administrative land boundaries. Corso Francia is a typical example of this.

In future we may well be confronted with a “city – region” or broader, cross-border relations, due to the area's proximity with France. Such variable relationships and the profound repercussions these may have on the provincial population and institutional policies must be the subject of detailed studies. To the west, and in the entire metropolitan area of Turin, a number of important, innovative opportunities go hand in hand with significant differences, contradictions and functional restrictions, an almost total lack of environmental conservation policies, infrastructure and land preservation.

Pollution in densely populated areas has reached alarming levels. Emissions and waste have harmed the environment, area and primary resources (water, air and land). Suburbs that developed without noting the characteristics of the land and area have often resulted in environmental destruction, increasing risks of soil erosion and flooding.

In congested areas, like everywhere else in the province, the lack of infrastructure and facilities for community life, industry and the tertiary sector has reduced the potential for economic, social and cultural development and made the area less attractive to outside investors. This functional inadequacy in Turin and the surrounding areas is even more evident if we consider the province as a whole. What should be an “extended city” is really still a “scattered city” that lacks organisation. Failure to implement coordinated policies on important environmental issues such as the supply of drinking water or urban waste disposal facilities are two critical examples of the inadequacy of programming and planning policies over recent years.

7. The ring motorway: the new “city walls”

The city ring motorway system was developed in the 70s. Built in the form of an open ring, or “C”, it surrounds the city on all sides except towards the hills. This new road network revolutionised private transport. It also formed a sort of new city wall within which the city developed. The number of vehicles that use the ring motorway every day is far higher than originally expected. This traffic is a significant source of acoustic and atmospheric pollution in the surrounding areas.

The slip roads have become new gateways to the city, through which people enter and leave the ring motorway (and thus the City). They have replaced the “historic gates” to become new reference points that are included on all road maps. New shopping centres (hypermarkets), sports facilities (stadiums), leisure facilities (multiplexes) and hotels are built in the vicinity of these new, easily accessible gates, on the few remaining areas of unused land or by replacing old buildings. These slip roads have even become meeting points (*... we can meet at the Borgaro slip road*). Places along the route of the ring motorway have been given new names.

The ring motorway crosses Corso Francia and the fly-over blocks the view of Superga and Rivoli Castle. The railway that connects Turin with the Susa Valley and France also crosses Corso Francia.

8. Corso Francia as an arterial urban highway

Every day approximately 350,000 vehicles enter and leave the city of Turin. In spite of the ring motorway, Corso Francia is still an important route used by private vehicles travelling to and from Turin, particularly from the west. Data regarding road traffic, inferred from the Urban Traffic and Mobility Plan approved by the Municipality of Turin in 2001, clearly demonstrate this function.

According to the aforesaid Plan (data for 2000), on average:

- 24,552 vehicles enter Turin
- 21,892 vehicles leave Turin

every day via the section of Corso Francia that lies within the City of Turin.

On the basis of this information, Corso Francia is the busiest access route to the City of Turin. It is slightly busier than Corso Regina Margherita, which leads directly to the city ring motorway network.

9. Plans for urban development in the City of Turin

In 1995 the Piedmont Region approved the new Master Plan (M.P.) for the City of Turin. The new M.P. defined a series of reforms that are extremely innovative in terms of land planning and development and will radically change the lives of the inhabitants of Turin. The previous M.P. dates back to 1959.

Certainly the most innovative element, which will affect people's lifestyles and public and private transport, is the "passing railway", a sort of "underground rail link", on which work is already underway. This project, which was designed and implemented in cooperation with the Italian State Railways, consists in quadrupling the lines that run through the city, then covering the entire link and creating new avenues. The most important of these avenues, called the "Spina Centrale", is a new, wide tree-lined avenue that provides a link with the rest of the city's road network.

Twelve kilometres, almost 300 hectares, will thus be made available to develop new infrastructure (roads, parks, car-parks) for the city's inhabitants. The "passing railway" will create a new extensive rail network, used by long-distance and local trains to cross the city centre.

The M.P. also defines three "urban centres", i.e. three new zones that will constitute foci for work, shopping and leisure, in addition to the existing functions of the historic centre. The first of these is the "Spina centrale", which will become the focus for public services. The second is the axis along the river Po which will become the focus for leisure, entertainment and relaxation. The third is the Corso Marche axis, which will become a focus for metropolitan activities. The latter crosses Corso Francia, between the municipalities of Turin and Collegno.

10. The new underground railway

Line 1 of the new Turin Underground Railway, that will link Rivoli - Cascine Vica - Collegno - Torino Porta Susa - Torino Porta Nuova - Torino Lingotto, will also alter the habits and lifestyles of the inhabitants of Turin, especially those who live along the Corso Francia artery. The underground railway will be built in sections. The first section should be operational by the beginning of 2006, when Turin will host the next Winter Olympic Games.

The Turin underground railway will make use of the automated VAL system (Light Automatic Vehicle). The system, designed and developed by the French company, Matra Transport, features state-of-the-art automation and has been used successfully for more than 30 years in the field of urban transport. VAL technology is one of the most tried and tested underground railway systems in terms of safety, reliability, performance and low cost. It also allows for the use of reduced-diameter tunnels compared to traditional underground railways.

The line from Collegno to Porta Nuova, Turin's main railway station, runs for approximately 9,600 meters through a blind tunnel. There will be 15 stations along the line. 12 of these will be standard stations and 3 will be "specials": Porta Susa station, for connections with the main-line station and the underground rail link, Porta Nuova, for connections with the main-line station and line 4 of the underground railway (which will be built in the future), and Fermi station. The positions of the stations have been designed by bearing in mind future plans for new road subways, drawn up by the Municipality of Turin, and the Turin underground rail link.

Line 1 will be extended by approximately 4,500 m to Lingotto. All of this section will be underground and bring the total distance covered by Line 1 to approximately 14,100 m. The project will upgrade public transport along one of the most important arteries.

In addition to the 15 stations between Collegno and Porta Nuova, 7 more will be built between Porta Nuova and Lingotto. Another 3,600 m extension is planned to the west. This section will also be underground and will run through the municipalities of Collegno and Rivoli along Corso Francia. There will be 4 stations between Fermi and Cascine Vica: Pastrengo, XXIV Maggio, Leumann, Cascine Vica.

The stations along Corso Francia, corresponding to a number of important squares (Piazza Massaua, Piazza Rivoli, Piazza Bernini), will provide an opportunity to redesign part of the city. In that connection, the City of Turin has called for bids to upgrade the squares concerned and also plans to upgrade tree layout and the urban design of parks and gardens.

11. Plans to upgrade the entire Corso Francia artery

As work moves ahead on building the underground railway, the overlying areas must also be redesigned. In this connection, the Province is conducting a unit feasibility study. This involves a detailed historical study of building work and modifications along the land axis of Corso Francia in order to define future characteristics in terms of urbanisation, the environment, landscape and the road network with a view to upgrading all the areas along Corso Francia.

In particular, the study must assess the feasibility of technical options, transport networks, layout of parks and gardens and urban design, relations with underground line work-sites, technical-administrative feasibility, time-scales, economic feasibility, including the definition of possible sources of European, national and local funding, and the potential involvement of private operators.

12. Targets and expectations

The project aims to bring requirements in terms of mobility and transport (public and private) in line with the need to use the areas along the route of the infrastructure. This involves:

- moving traffic away from residential areas and pedestrian areas;

- reducing acoustic and atmospheric pollution;
- reducing risks in connection with intense use of private transport;
- providing new opportunities for transformation and suburban development aimed at upgrading the areas concerned.

The project comprises a number of proposals based on specific guidelines as regards the main characteristics for designing the road, including:

- shape and structure of the “standard” section;
- studies and solutions for crossings;
- type and design of pedestrian areas;
- pedestrian crossings;
- cycle paths;
- car parks.

Town-planning appraisals should include the following:

- surveys and descriptions of existing structures, main sections, mapping of green spaces, urban design and car parks;
- mapping of public and private usage that affect Corso Francia;
- historical research and analysis of the urbanisation process;
- architectural assets;
- mobility studies, with expected traffic levels in Corso Francia up to 2006;
- description of underground infrastructure and interference by utility installations;
- description of the land framework, the resulting landscape, views to be safeguarded;
- urban and sector planning, program framework for public works.

13. Initial planning proposals

As regards the section of Corso Francia within the City of Turin, one of the first proposals put forward is to transform the secondary roads that run parallel to the avenues, used by private vehicles, into pedestrian areas and car parks for use by residents. This would ensure a more marked separation of residential and mobility functions. This proposal also includes the elimination of the two-way tram lines that run along part of Corso Francia.

Another proposal consists in eliminating the connection between Corso Francia and the ring motorway network, in order to reduce the amount of extra-urban traffic. Within the framework of the local Urban Traffic Plan, Rivoli town council assessed the feasibility of redesigning the entire width of Corso Francia, by reducing the number of lanes, increasing the number of trees and adding continuous cycle and pedestrian paths.

Similar studies have been carried out by the Collegno town council within the framework of the local Master Plan.

The two towns have also conducted preliminary technical appraisals to check the compatibility and consistency of their plans and proposals, and the consistency of these with metropolitan and provincial plans.

14. Conclusions

The “Strategic Project of Corso Francia” is clearly one of the most complicated and important projects that the Province will have to tackle over the next few years.

The difficulties involved in coordinating different public administrations, public and private ownership rights, the public transport system, the overall extent of the work involved (Corso Francia covers an area of many square hectares) and obtaining the necessary funds represent just some aspects of the problem.

Yesterday evening the METREX Secretariat met with the rapporteurs and chairs of all the workshops to feedback our impressions and findings from the day, and it has fallen to me to collate these points and to present them to you. For each workshop I have tried to derive three aspects that were common to each of the casestudies presented in the workshop, and by way of a brief word of explanation, present them to you as aspects which the rapporteurs felt may need to be borne in mind when considering these issues.

Inevitably, there will be gaps and misrepresentations, and since I myself could only be in one of the workshops at any one time, you will find that my observations on the two workshops that I attended are more detailed than the comments I have gleaned from the rapporteurs and chairs of the two workshops that I did not attend. However, given such circumstances, I know that I can count on all of the rapporteurs and chairs to amplify or correct any mistakes that I have made, and I do hope that you will all take that opportunity as well when we invite your further observations at the end of my presentation.

WORKSHOP 2**Urban migration and social sustainability***Including issues of housing need and provision and community development*

Unfortunately, owing to the indisposition of Prof. José Tenedorio, we had no casestudy from Lisbon, but we did hear two examples of different approaches to city development and long-term planning from Sofia and Veneto in Workshop 2, which was chaired by Avghi Markopoulou of Athens, and reported by Katarzyna Iwasko-Nizialkowska from Wrocław.

Need for long-term sustainable balanced development not just at the city level, but at the level of the city-region

In both casestudies we heard that a significant number of people have been unable to satisfy their economic and social needs and aspirations within Sofia and Venice, and have moved to settlements outside the metropolitan area. This is despite the fact that the search for better employment opportunities, better quality and affordable housing, and better access to social, educational and cultural amenities is usually the driving force behind inward migration to cities.

The development potential of the wider city-region is an integral part of a city's attractiveness, and all the more so if that city is a national capital with an additional concentration of multilevel public administration functions, foreign businesses and representations, educational and cultural institutions, and under pressure to develop and sustain a competitive advantage within national, transnational, European and global markets.

The need for urban issues to be addressed in greater collaboration with regional authorities was also expressed strongly by the Amsterdam casestudy in Workshop 4.

Need for scenarios regarding future migration and city expansion

Sofia outlined its demographic forecast for future migration flows, and its projected labour market requirements and expectations, based on current and projected growth models. An aspect of their projection is based on the numbers of Bulgarian emigrants who might return to Sofia in the period after Bulgaria's accession to the European Union. The need to persuade emigrants to come back home was also a feature of the casestudy from Stuttgart in Workshop 4.

It is interesting to consider this expectation that a significant number of those who have already gone somewhere else in search of something better will return to address the immediate need for skilled labour, and in time to regenerate the city's economic potential, in the light of the advice from our speaker from DG REGIO, Wolfgang Petzold, who said that much of the accession-related migration within the wider EU had already taken place.

Competitive advantage and attractiveness are also requirements for investment by individuals and their families.

Need for inward investment to benefit the overall quality of life

We heard from Veneto of its plans to address the opportunities and threats posed by migration flows within its region through a series of seven development projects that have been planned as an integrated cross-sectoral programme that will improve the social, environmental and economic quality of life across the regional corridor from Padova to Mestre:

- Development of the airport
- the creation of a science and technology park from former derelict and polluted land
- heritage site and environmental upgrading
- creation of an educational, cultural and recreational campus of the arts
- a fashion city with its fashion museum, centre for design and new conference facility
- improvements to the industrial zone in Padova, and
- the construction of exhibition and trade fair facilities

all of these innovative projects are addressing the need to be equally attractive and competitive to citizens, visitors and inward investors.

WORKSHOP 3 **Urban deprivation**

Including issues of urban renewal and regeneration priorities and action

In Workshop 3 we heard three case study presentations from Warsaw, Thessaloniki and Napoli. The Workshop was chaired by Theo Eikenbroek of Rotterdam, and was reported by Inguss Vircavs from Riga.

Both Warsaw and Thessaloniki presented case studies based on projects to arrest further urban environmental deterioration in order to begin the process of social recovery, and Napoli presented an overview of its integrated strategic plan to address social issues.

The alleviation of social degradation needs to be the prime purpose of urban renewal and regeneration

In Thessaloniki's case the proximity of residential areas to industry, wholesale commerce and the port, the ever-increasing heavy traffic and pollution, and the lack of social and cultural infrastructure led to the social exclusion of the western neighbourhoods and an area in crisis.

In Warsaw, the upgrading and revitalising of the pre-fab concrete-panel tower blocks, build under the communist administration, is intended to prevent their further decline into second-class housing and the social segregation of its inhabitants.

Need for integrated mechanisms to promote self-sustaining social integration and inclusion

Disadvantaged groups need support for their social integration beyond the up-grading of their urban environment, housing and physical community infrastructure. In addition to measures to control traffic pollution and undertake environmental improvements, the Thessaloniki case study highlighted a range of integrated measures for occupational training and support, drugs information and rehabilitation, health and safety, and community capacity-building and development.

Need for public involvement throughout

Perhaps the greatest benefit of all planning comes from participating in it. Certainly, all of the projects and initiatives in each of the case studies presented in this Workshop depend on meaningful engagement with local citizens for their co-creation and joint implementation.

WORKSHOP 4

Economic inclusion

Including issues of education, skills and economic development

In Workshop 4 we heard from Stuttgart, Birmingham and Amsterdam, in place of Bilbao. The Workshop was chaired by Tamás Gordos of Budapest, and reported by Marcin Lewinski of Szczecin.

The improvement of (all) citizens' personal prosperity and quality of life needs to be the prime purpose of economic restructuring and development

Birmingham told us of its need to restructure its economy in the wake of the downturn in manufacturing in the 1970's and 80's that resulted in massive loss of jobs, very high youth unemployment and year-on-year decline in population. Its strategy to:

Diversify into the service sector

Modernise its industrial base, and

Realise the full social, cultural and recreational potential of the city centre

has had a regard not only to create new sources of employment to replace those that were lost, but also to benefit those in greatest need. Training, reskilling, modernising the transport infrastructure to ensure fairer access to job opportunities, and area-based regeneration has implemented a commitment to focus integrated public resources and action on the most deprived areas.

Despite this commitment, there is still an issue about how accessible and equitable the benefits of economic recovery have been when one third of Birmingham's residents still live in areas which are among the 10% of the most deprived communities in the UK, and contain a disproportionately high number of the city's black and ethnic minority residents.

This is an issue in common with Amsterdam which has halved its unemployment rate in recent years, but it is still double the national average and has a high percentage of ethnic minority residents. Many of the unemployed do not match the employment opportunities available, and Amsterdam's socio-economic approach tries to bridge that gap through training and support measures — such as childcare and debt counselling — as well as direct intervention in the job market by providing salary grants to employers, and the city council hiring unemployed workers in order to second them to work for private enterprises. Work experience, even if voluntary, increases the individual's economic viability as well as the city's.

Stuttgart, also, has a similar strategy to combat the exclusion of 20% of its working population who have no vocational education and are unable to benefit from the increasing requirement for skilled and articulate labour. Their mentoring programme for women increases the confidence, skills and employability of individuals while motivating companies to support basic literacy and numeracy learning from within their own workforce.

Neighbourhoods and networks need support to flourish

Birmingham's concept of 'Flourishing Neighbourhoods' acknowledges that the city is not a single entity but a collective of separate neighbourhoods with their own needs and abilities to contribute to overall city prosperity and to share in its benefits through locally accessible shops, services and employment. Birmingham has decentralised control over some aspects of service delivery and regeneration budgets to neighbourhood residents. Supporting neighbourhoods to flourish goes beyond engagement and involvement into participation and empowerment, and Birmingham's evidence is that we are unlikely to be successful in tackling the problems of economic inclusion without such active participation by communities to develop their own solutions at the local level.

To combat the threat of lower profits and excess capacity at the hands of car manufacturers who can buy in global markets, Stuttgart is supporting a regional network of suppliers to the automotive industry in order to maintain regional competitiveness — a clear example of the advantages of complementarity over divisive competition.

Cities and citizens need to diversify

I've already mentioned Birmingham's diversification strategy into a service sector that now accounts for 40% of the UK's conference and exhibition trade with the resulting benefits from urban tourism, but we heard further examples of innovation and diversification from Stuttgart which has a strategy to move from an automotive region to a mobility region — a service and knowledge-based economy that can offer knowledge and know-how on transportation and communications, settlement and housing policy, and the requirements of greater mobility across the European Union as it prepares for enlargement.

Stuttgart is also promoting a 'Renaissance of experience' — with higher numbers of older workers than the national average, it believes that it can gain a competitive advantage by supporting the lifelong learning of older workers to realise their greater potential.

WORKSHOP 5

Inclusive accessibility

Including issues of urban form and public transport

Workshop 5's casestudies were from the Land Management Unit of the Institute for Environment and Sustainability, which is part of the European Commission DG Joint Research Centre, and from Glasgow and the Clyde Valley, and from Torino. The Workshop was chaired by Claus Pedersen from the Øresund Committee, and reported by Milan Turba of Prague.

Need for an integrated spatial strategy to relate accessibility issues to social, economic and environmental cause and effect

The Glasgow and the Clyde Valley casestudy outlined the main social issues addressed by its strategic plan — unemployment, health, the environment and multiple deprivation: life circumstances which are further aggravated by access to transportation, the key driver of social polarisation — it can take up to three times longer to travel by public transport from some peripheral housing estates into the city centre than it would take if you went by car — rising crime, low educational attainment, poor housing quality and low incomes. Such multiple deprivation is a very significant barrier to jobs, services and amenities.

Need for realistic, quality projects with guaranteed partnership commitment and funding

Torino presented a casestudy on a project to build the city's first metro line below the Corso Francia, the road which runs in a totally straight line through Torino to link urban areas in three separate municipalities. Not only will the project address Torino's accessibility issues, but cuts in traffic congestion and air and noise pollution, and urban improvements and new development opportunities will follow on. This is a partnership project involving Torino and its two neighbouring municipalities, and has joint public and private finance.

Need for good instruments to monitor, analyse and assess results to improve future activity

The casestudy from the European Commission presented a pilot project entitled MOLAND, Monitoring Land Use, the aim of which is to measure the extent of urban areas and regional developments, as well as their progress towards sustainable development. Access to green areas is an important indicator of urban sustainability and quality of life, and MOLAND has studied and measured such accessibility and availability in selected European cities in order to support the European Common Indicators Initiative. In addition to accessibility studies, MOLAND can be used for analysing and simulating the impact of different planning options and scenarios on various urban features linked to landuse (such as urban sprawl), transportation and demography from the point of view of sustainable development.

Finally, it would seem that at least three findings are common to all of the Workshop case studies that we heard yesterday:

Need for meaningful stakeholder engagement

in order to involve communities in the development of their own solutions

Need for effective cross-sectoral partnerships

for the integrated delivery of public services

Need for the prosperity, health and wellbeing and inclusive social cohesion of citizens to be at the heart of all our policies and practice.

Chair, Colleagues I would like to thank you for inviting me to this interesting and important METREX conference. In my presentation I will begin with a broader OECD perspective followed by more specific reference to the Territorial Development Service which I represent today.

As many of you will know the OECD brings together 30 countries sharing a commitment to democratic government and a market economy. The global reach of its activities is secured by active relationships with some 70 non-OECD countries, non-governmental organisations and civil society. The Organisation provides governments with a forum in which to identify emerging issues and analyse, discuss and develop a range of public policies. Member countries compare experiences seek answers to common problems and work to improve domestic and international policy co-ordination. The work of the Organisation covers economic, social, environmental and agricultural policies, as well as development co-operation, trade, fiscal, public management, science, and other sectoral policies. Because of the interdisciplinary approach taken by the OECD in its analytical and policy work, it is well placed to support governments in their efforts to increase policy coherence and integration in pursuit of sustainable development.

Your conference here in Thessaloniki coincides with two important OECD events: the Ministers from OECD countries met in Paris on 15-16 May 2002 to review the outlook for the world economy and policy challenges relating to trade, governance, development and the environment. Their discussions followed on from the OECD Forum. The 2002 Ministerial is an integral part of a series of high level meetings this year, including the UN Financing for Development Conference in Monterrey, the G8 Summit in Kananaskis and the World Summit on Sustainable Development in Johannesburg.

In May 1998, OECD Ministers agreed "... that the achievement of sustainable development is a key priority for OECD countries. They encouraged the elaboration of a strategy ... in the areas of climate change, technological development, sustainability indicators, and the environmental impact of subsidies". They also agreed "... to interpret the term 'sustainable' as including social and environmental, as well as economic, considerations", and in a context of "... integrating economic, environmental and social policies to enhance welfare". Finally, they "... stressed the importance of promoting effective integration of environmental considerations in the multilateral system".

When OECD Ministers of Finance and Environment met together at the OECD in May 2001, they recognised sustainable development as an overarching goal of OECD governments and the Organisation. They emphasised that OECD countries bear a special responsibility for leadership on sustainable development worldwide, historically and because of the weight they continue to have in the global economy and environment. Endorsing the key policy recommendations from a three-year organisation-wide project on sustainable development, they recognised the difficulties inherent in implementing these policies, and the gaps in analytical and scientific understanding in the area of sustainable development. To help address these issues, they asked the OECD¹ to continue assisting them in formulating and implementing policies to achieve sustainable development, and in particular to:

develop agreed indicators that measure progress across all three dimensions of sustainable development, with a view to incorporating these into OECD's peer review processes;
identify how obstacles to policy reforms can be overcome;
analyse further the social aspects of sustainable development; and
provide guidance for achieving improved economic, environmental and social policy coherence and integration.

Also important are the commitments made by EU Member States. At the Summit Heads of State confirmed the commitment of EU Member States to a new economic and social agenda. A new strategic goal was also agreed for the EU to become the most competitive and dynamic knowledge-based economy in the world capable of sustainable economic growth with more and better jobs and greater social cohesion. The Lisbon conclusions established a context for change – requiring modernisation of the European Social Model and placing social inclusion high on the political agenda throughout Member States. The Summit also drew attention to the role of business in realising a meaningful social agenda. The Lisbon conclusions, in effect, establish the supranational commitment to established local and national strategic goals.

Because of the multi-dimensional nature of sustainable development, OECD countries recognise that they need to strengthen their decision making through increased integration of policies across sectors and ministries. Adequate investment is needed across the economic, social and environmental pillars of sustainable development: in equipment and infrastructure, intellectual capital, human capital, and natural capital. Monitoring and reporting progress towards sustainable development, including through the use of indicators, is important for this process, as are increased transparency of policy decisions and participation by affected citizens, social partners and civil society.

Most OECD countries are now developing more effective communication and consultation processes.

¹. The specific role of the OECD as one of a number of major international institutions working towards sustainable development is described in Annex 1. This Annex discusses the policy and analytical work of the organisation that supports countries in working co-operatively towards sustainable development.

The growing economic importance of non-OECD countries has increased their role in ensuring the integrity of global economic, environmental and social systems. The globalisation of both economic activity and environmental problems means that co-operation and partnerships have become essential for moving towards sustainable development at least-cost. This requires co-operation not only among governments, but also between governments and stakeholders.

However, sustainable development remains a global challenge. Progress has been realised in the ten years since the 1992 Earth Summit, but many challenges remain. OECD countries have enjoyed sustained economic growth in recent years, improved social conditions, and reductions in certain environmental pressures. Their actions also supported moves towards sustainable development in non-OECD countries and globally, including removing some barriers to investment and trade, and working together to tackle some global environmental problems. But, many pressing issues remain.

Although this growth has led to improved quality of life for most OECD citizens, not all have benefited. Although education and social cohesion are fundamental to sustainable development, unemployment, social exclusion, and access to education have worsened in a few OECD countries. Everywhere, rapidly ageing populations are putting pension schemes under pressure, with important implications for inter-generational equity.

Social considerations are important for the pursuit of sustainable development in OECD countries. Most have made significant progress in establishing extensive safety nets, education and health systems, alongside well-developed governmental, legal and institutional apparatus for delivering these services to their citizens. Social policy in OECD countries has long been motivated by concerns about equity and the social externalities of poverty, unemployment, inadequate skills or ill health.

The First Principle in the Rio Declaration declares that 'human beings are at the centre of concerns for sustainable development.' However, while researchers, policy analysts and governments have achieved some integration of Environmental with the Economic dimensions over the past ten years, efforts to fully integrate the social dimension have been left behind.

The close relationship between poverty, employment, poor working conditions, poor health and incomes requires that socio-economic policies function in tandem with those relating to the decoupling of growth and the environment. Human insecurity, poor health and social exclusion are evidence of unsustainable economic and human development. They call for policies to reduce unemployment, tackle social inequality, facilitate adjustment to economic reform, ensure adequate pensions, and other specific policies to preserve living standards, and in particular, to minimise disruption and unemployment amongst those directly affected by the transitions to sustainability.

There will be no sustainable development without reducing poverty and disease. A fifth of the world's population lives on less than US\$ 1 per day, and millions suffer from chronic hunger. HIV/AIDS and other diseases are undermining the very foundations of society in many countries. Meanwhile, international and civil conflicts threaten the ability of people to rise out of poverty, setting up a vicious circle whereby poverty feeds violent conflict, and vice-versa. Climate change, biodiversity loss, deforestation, water scarcity, and overfishing – all need immediate action. International environmental conventions and agreements have been set up to tackle many of these, but implementation difficulties abound.

This week OECD Ministers reaffirmed their commitment to sustainable development.

Let me now move on to the Territorial Development Service of OECD which was created in 1994, and since that time has built a knowledge base to cover critical and priority issues related to regional policies, urban affairs, rural development, local employment initiatives, and territorial indicators and databases. Our objective is to undertake policy analysis to enhance sustainable economic well-being, social cohesion and effective governance right across our countries. In 1999 the Territorial Development Policy Committee was created, first OECD committee to be created in 20 years.

Territorial development includes social, economic and environmental aspects of sustainable development at the sub-national level. The positive impact of territorial development policies comes in part from the fact that cross-sectoral integration takes place, often quite literally, on the ground, and is reflected in the spatial arrangements that transform the functional dimensions of different sectors (transport, energy, housing, etc.) into liveable places. Territorial policy provides a framework for linking environmental, social and economic aspects of sustainability.

We believe that progress toward sustainability will require change in the organisation of cities and regions, in the management of their natural resources — including their demand for energy — and in land-use patterns. The lessons of recent years indicate that the cities, communities and regions of developed countries can be modified and improved, but this often requires public and private investment, as well as changes in the behaviour of individuals and enterprises.

Our policy analysis and territorial review process tells us that governments have only recently begun to re-examine traditional spatial planning, land use, and social and economic development policies in an effort to meet these challenges. A major challenge is to develop a coherent strategy that operates effectively at international, national and local levels. Our Territorial Reviews reveal that:

- Territorial trends widely recognised as unsustainable (such as urban sprawl or the loss of rural amenities) have significant spillover effects, and cannot be addressed effectively at the local or regional level in the absence of sound national policies.

- A successful policy mix will combine national policies, local initiatives, and implementation strategies that are effective across different levels of government, and across administrative or jurisdictional boundaries at the sub-national level.
- To achieve policy coherence, the territorial impacts of national economic and sectoral policies need to be identified, and addressed in national policies.
- An area-based approach connects the environmental, social and economic aspects of development. Territorial development policy is the only policy field in which the spatial aspects of different sectors, and hence the spatial organisation of the economy, are explicit.
- Governance issues are critical to improving vertical and horizontal co-ordination, co-operation with the private and community sectors, and the capacity of sub-national authorities to meet the obligations of international treaties; they can also prevent competition between territories for jobs and investment due to differences in environmental standards. And that
- Top-down, technocratic strategies alone appear unable to generate a reassuring vision of the future on which an overall development strategy can be based. Territorial policies respond to the requirements for ecological sustainability and to the demand of people for places that combine economic opportunity with a higher quality of life.

The variety of regions and places within Member countries is a major factor in the emergence of territorial development policies. Carrying capacity refers to the limits within which any given place can handle the environmental consequences of activities. Precisely because conditions vary widely, not only from one region to another, but even within a single region, national policies that set uniform standards or targets may be inappropriate at best, counter-productive at worst. Macroeconomic and sectoral policies can rarely take full account of the varying density and uneven spread of positive and negative effects within a nation. Difference among and within territories should be viewed as a strength, not a liability.

Sustainable places have a capacity for renewal, whether by generating firms and creating jobs; integrating people into communities and reducing disparities; improving quality of life; or maintaining and enhancing cultural and natural amenities. These aspects of economic development highlight the importance of social capital that is rooted in the culture and traditions of a particular place. Social endowments take on greater significance in territories that do not enjoy a comparative advantage based on fortuitous geographical location or endowment in natural resources.

A territory with a diversified social and economic base is more able to respond to external shocks than a more homogenous and specialised one. Territories can become laboratories where new approaches and solutions can be developed and diffused, a phenomenon that has been a long-standing feature of policy innovation in many federal states and is increasingly recognised in centralised ones. Territorial development policy is relevant to all territories, not by imposing a single model for development, but by helping each to enhance its particular strengths and address its problems. Indeed, in many countries, regional and municipal authorities are further ahead than the central government in the design and implementation of strategies for sustainable development.

Widening social disparities — incompatible with sustainable development objectives — are a function of inadequate skills for today's economy, poverty, and spatial patterns that isolate people from jobs. At the very least, affected individuals may lack the financial and institutional resources to solve problems made more severe by the effects of spatial concentration. Areas of high unemployment and disadvantage are increasingly found in close proximity to areas of high growth, and are often part of the same region. These are neither isolated phenomena, nor the inevitable consequences of growth about which little can be done, but rather manifestations of dysfunctional patterns of growth and change at local and regional levels often resulting from shortcomings in national policies.

Short-term pressures to meet economic objectives often lead to long-term costs as localities make trade-offs between competitiveness and sustainability. Integrative, cross-sectoral approaches have much greater potential for achieving cost-effective results than those which treat environmental, economic and social issues separately. Territorial policies, which respond to the needs and strengths of particular localities, are not only complementary to macro-level measures but essential for the successful implementation of both national and international sustainable development policy goals. Moreover, local and regional activities are increasingly important in the formulation of national policies, especially where they offer opportunities for civil society to influence national priorities at the local and regional levels.

I will now give you some examples of our work to date - National Reviews of Italy, Korea and Hungary have been completed. As have a set of Regional Reviews. A Metropolitan Review of Melbourne is near completion and one of Athens about to commence. In turn these Reviews are complemented by the Urban Renaissance Series which demonstrates the practical application of territorial development concepts, highlighting the importance of urban centres for the sustainable development of the metropolitan regions to which they belong. The Series builds on substantial TDS work on urban policy. The purpose is to articulate and promote holistic and integrative approaches which can only be implemented through a combination of sound framework policies at the national level and strategic planning and local initiative at the metropolitan level.

We have now completed studies of Belfast, where the regeneration of the River Lagan has had dramatic economic, environmental and now social benefits for the city, making an important contribution to wider political changes in the province. In Krakow our attention turned to problems of the preservation of the historic urban core and brownfield sites - the case of Nowa Huta being a unique challenge for all levels of government.

In Canberra we learned that no matter how well planned a city may be it cannot take the future for granted. The city, like others has undergone massive shifts in employment patterns, over 5000 public sector jobs were lost in 1996. More surprisingly, a city which was based on idealised planning traditions has no strategic plan for the 21st century. The OECD process has contributed to preparation of a new plan and OECD will be invited to return to Canberra in 2003.

In Glasgow our focus was the River Clyde - once the *raison d'être* of the city and now an incredible opportunity to deliver a more sustainable future which effectively addresses the social, economic and environmental challenges posed by the waterfront area. The city has turned its economy around through targeted strategies. It benefits from well articulated Structure and City Plans and a clear economic development strategy. Partnership lies at the heart of delivering change in the city, just as it did in Belfast. Glasgow is seeking to reduce child poverty, increase educational attainment and re-skill its people - all vital ingredients to secure social sustainability.

We are currently working with the city of Berlin, focusing on three challenging and diverse districts where issues of exclusion, unemployment and immigration are prominent. In June we begin work with the State of Maryland to analyse their approach to Smart Growth. The lessons learned from cities such as Belfast and Glasgow will contribute to our promotion of the importance of the social dimension of sustainability

Finally, we know that the sustainable development agenda is a complex one, which demands action by many different stakeholders at the national and territorial levels, all of whom need to be involved in establishing shared goals and targets and in action to ensure that they are met. The Johannesburg Summit will be the next crucial step in helping us realise a more socially sustainable future for all citizens of the world. If I may conclude with two points: sustainable development is important because the status quo is not an option. And as the 2001 UN World Cities report noted "A country's global success rests on local shoulders" and that is why your Network is important and the theme of your conference here in Thessaloniki to consider the social face of sustainability is most pertinent.

„Smart Growth“ oder sozialverträgliche Schrumpfung? Nachhaltigkeit aus einer ostdeutschen Perspektive

die 3. Jahreskonferenz des METREX-Netzwerkes befasst sich mit den vielfältigen Facetten der sozialen Dimension von Nachhaltigkeit in europäischen Metropolregionen. Dabei wurde vor dem Hintergrund des demografischen Umbruchs und der regionalen Disparitäten in Europa deutlich, dass wir vor bedeutsamen und schwierigen Herausforderungen in allen europäischen Agglomerationen stehen. Es darf jedoch nicht verkannt werden, dass sich im Einzelfall immer ganz spezifische Probleme und Handlungsbedarfe zeigen, so dass die Lösungsstrategien immer auch einen lokalen Charakter haben müssen.

Betrachtet man die Gesamtheit der Beiträge auf dieser Konferenz wird jedoch deutlich, dass die überwiegende Mehrheit der Referenten unter einer nachhaltigen Entwicklung auch und vor allem eine Entwicklung verstehen, die auf einem intelligenten, zukunftsfähigen ökonomischen Wachstum basiert. Dieses Wachstum soll soziale Ausgrenzung verringern und eine stabile demografische Entwicklung sichern, im Falle der Beispiele Stuttgart und Sofia sogar dazu führen, dass Abwanderer in ihre Stadtregion zurückkehren und so den negativen Trend in der Bevölkerungsentwicklung umkehren.

Die vielschichtigen und facettenreichen Beiträge der Konferenz sollen an dieser Stelle noch einmal reflektiert werden aus Sicht eines ostdeutschen Vertreters. Diese Sicht unterscheidet sich in einigen Punkten von dem, was hier bisher gesagt wurde. Dies liegt natürlich an der Ausnahmesituation, in der sich Ostdeutschland seit nunmehr 12 Jahren befindet. Nur 11 Monate nach dem Fall der Berliner Mauer am 9. November 1989 traten die ostdeutschen Länder am 3. Oktober 1990 der Bundesrepublik Deutschland bei. Dies bedeutete zugleich die Mitgliedschaft in EU und NATO. In einer historisch betrachtet sehr kurzen Zeit wurde ein radikaler Systemwechsel vollzogen, mussten postsozialistische und postfordistische Transformationsprozesse gestaltet und bewältigt werden. Mit enormen Transferleistungen aus Westdeutschland wurde in Ostdeutschland modernste Infrastruktur geschaffen und bedeutende Wirtschaftsunternehmen angesiedelt. Jedoch verlief und verläuft dies nicht ohne Komplikationen, ohne wirtschaftliche und soziale Spannungen. Die Euphorie der deutschen Wiedervereinigung ist heute weitgehend verflogen. Stattdessen dominieren Negativschlagzeilen: folgt man den Massenmedien prägen hohe Arbeitslosenzahlen, geringe Produktivität der Wirtschaft, Geburtenrückgang und eine inzwischen sogar wieder anwachsende Abwanderung junger gut ausgebildeter Menschen in den Westen das Bild von Ostdeutschland.

Die in den jüngsten Jahren wieder auseinander gehende ‚Wohlstands-Schere‘ zwischen West- und Ostdeutschland hat natürlich auch Einfluss auf die Nachhaltigkeitspolitik in Deutschland. An zwei Beispielen soll dies im Folgenden illustriert werden: der unterschiedlichen Wahrnehmung der Agenda 21 in Ost und West und den regional selektiven Folgen der schrumpfenden Bevölkerung in Deutschland.

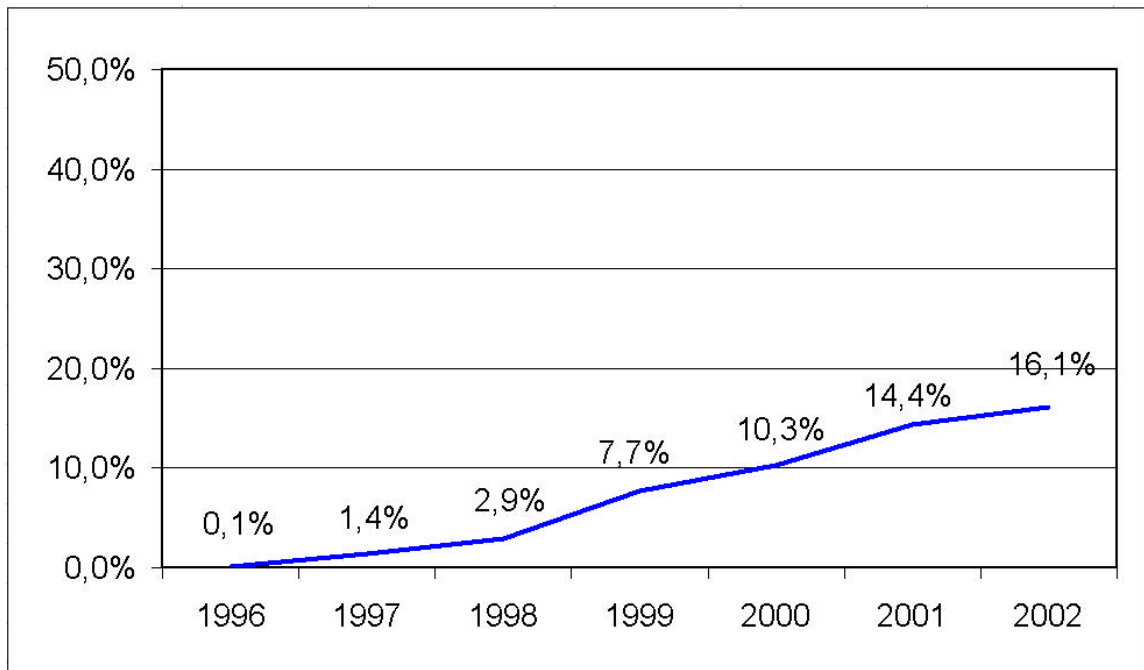
1 Die Agenda 21 und ihre Wahrnehmung in Deutschland

Der Begriff ‚Nachhaltige Entwicklung‘ hat eine steile Karriere hinter sich. Ausgang nahm der internationale Dialog über nachhaltige Entwicklung bereits in den 1980er Jahren. Vor allem der 1987 veröffentlichte Brundtland Report „Our common future“ wirkte als Initialzündung. Mit der UN-Konferenz für Umwelt und Entwicklung in Rio de Janeiro erreichte die internationale Verständigung über eine globale nachhaltige Entwicklung 1992 ihren vorläufigen Höhepunkt. Das Abschlussdokument der Rio-Konferenz, die Agenda 21, formuliert die Grundlagen für eine nachhaltige Entwicklung, die wirtschaftliche, soziale und ökologische Belange gleichermaßen beachtet und zusammenführt. Im Kapitel 28 dieser Agenda für das 21. Jahrhundert werden die Kommunen aufgefordert, mit den Bürgern und Bürgerinnen in einen Dialog zu treten und sich aktiv bei der Aufstellung und Umsetzung lokaler Agenden zu beteiligen. Diese Aufforderung hat vielerorts zu ersten Ergebnissen geführt. Europäische Städte und Kommunen haben sich 1994 in der Charta von Aalborg auf die Ziele der Agenda 21 verpflichtet.

In Deutschland wurde eine nachhaltige Entwicklung 1994 Verfassungsziel. Seit 1998 gilt sie auch als Oberziel deutscher Raumordnung, verankert im § 1 des Raumordnungsgesetzes. Im Jahr 2000 wurde schließlich auf Bundesebene ein „Green Cabinet“, bestehend aus den relevanten Staatssekretären, geschaffen und ein unabhängiger Nachhaltigkeitsrat berufen. Im Frühjahr 2002 wurde mit Blick auf die Rio+10 –Veranstaltung in Johannesburg eine ‚Nationale Strategie für nachhaltige Entwicklung‘ vorgelegt.

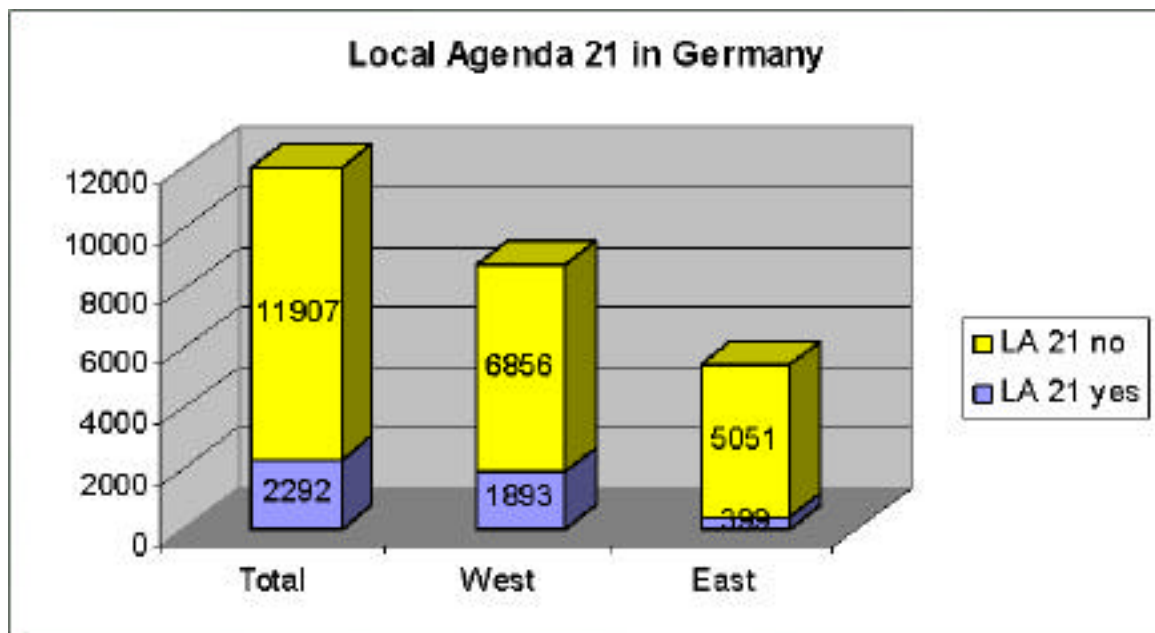
Auf der kommunalen Ebene war jedoch nur eine – im Vergleich mit anderen europäischen Ländern – sehr langsame Adaption zu beobachten. 1996, zu einem Zeitpunkt als eigentlich alle Kommunen bereits eine lokale Agenda hätten vorlegen sollen, hatten erst 0,1% der über 14.000 deutschen Kommunen einen entsprechenden Ratsbeschluss gefasst (vgl. Abb. 1). Kontinuierliche Zuwachsraten führten immerhin dazu, dass heute 2.292 kommunale Beschlüsse zur Aufstellung der ‚Lokalen Agenda 21‘ existieren. Dies entspricht 16 % aller deutschen Gemeinden.

{Abbildung 1: „Kommunale Beschlüsse zu Lokalen Agenden in Deutschland“ einfügen!}



Interessant sind jedoch die regionalen Unterschiede, betrachtet man einmal west- und ostdeutsche Länder getrennt (vgl. Abb. 2). Lag die Quote im März 2002 in Westdeutschland bei ca. 22 %, so fiel sie in Ostdeutschland mit 7% sehr viel niedriger aus. In einigen Gebieten – etwa in Sachsen – lag sie unter 1%.

{Abbildung 2: „Lokale Agenda in West- und Ostdeutschland“ einfügen!}



Die Erklärung für diese unterschiedliche Wahrnehmung des Agenda-Gedankens in Ost- und Westdeutschland ist v.a. in der unterschiedlichen sozioökonomischen Ausgangssituation zu suchen. Die krisenhafte Transformation Ostdeutschlands erfordert aus Sicht der dortigen Kommunalpolitiker eine volle Konzentration auf ‚harte‘ Aufgaben, wie z.B. Ansiedlung von Unternehmen, Schaffung von Arbeitsplätzen, Verbesserung der kommunalen Finanzkraft. Informelle ‚weiche‘ Aufgaben, wie eine lokale Agenda, werden nicht selten als Luxus aufgefasst, den sich nur die Kommunen leisten können, denen es wirtschaftlich gut geht. In der Prioritätenabfolge stehen diese Aufgaben daher in Ostdeutschland relativ weit hinten.

Ich möchte in meinem Beitrag noch einen zweiten Aspekt beleuchten, der die Wahrnehmung der Agenda 21 in Deutschland betrifft. Gemeint ist die in der Relation zu den ökologischen und ökonomischen Zielstellungen vernachlässigte soziale Dimension von Nachhaltigkeit. Dass dies so ist, haben verschiedene Untersuchungen immer

wieder gezeigt (vgl. Müller 2001, Rösler / Trapp 2000). Beispielhaft lässt es sich am Bundeswettbewerb „Regionen der Zukunft“ (1997 – 2000) verdeutlichen.

Im September 1997 hat das für Raumordnung zuständige Bundesministerium einen Ideen- und Realisierungswettbewerb „Regionen der Zukunft“ ausgeschrieben. Ausgewählte Regionen sollten bis zur Weltkonferenz Urban 21 im Jahr 2000 in Berlin in Dialog- und Kooperationsprozessen mit Vertretern unterschiedlicher Bevölkerungs- und Interessengruppen regionale Agenden für eine nachhaltige Raum- und Siedlungsentwicklung beispielhaft entwerfen und mit ihrer Umsetzung beginnen. Die räumliche Abgrenzung und organisatorische Verfassung wurde dabei den teilnehmenden Regionen freigestellt. Aus 87 Bewerbern wurden im Mai 1998 von einer unabhängigen Jury 26 Regionen ausgewählt (vgl. Abb. 3). Erklärtes Ziel war es, selbsttragende Strukturen für eine nachhaltige Regionalentwicklung aufzubauen. Eine Besonderheit bestand darin, dass die teilnehmenden Regionen zwar einen Imagegewinn erzielen und für die Dauer des Wettbewerbs eine fachliche und organisatorische Beratung durch das Ministerium erhalten konnten, darüber hinausgehende finanzielle Anreize waren mit dem Wettbewerb jedoch nicht verbunden.

{Abbildung 3: „Regionen der Zukunft“ einfügen!}



Seinen Abschluss fand der Wettbewerb mit der Prämierung von ersten, zweiten und dritten Plätzen auf der Weltkonferenz URBAN 21 im Juli 2000 in Berlin. Aus Sicht der Auslober und der teilnehmenden Regionen konnte dies jedoch nicht der Endpunkt der Entwicklung eines neuen Ansatzes sein, sondern wurde als ein Etappenziel auf dem Weg zur Schaffung nachhaltiger Regionen angesehen. Als Modellvorhaben der Bundesraumordnung wird das „Netzwerk der Regionen der Zukunft“ bis 2003 bei dem Bemühen unterstützt, eine dauerhafte Struktur zu entwickeln. Das Institut für ökologische Raumentwicklung (IÖR) in Dresden führt in diesem Rahmen eine wissenschaftliche Begleitforschung durch und untersucht insbesondere wie regionale Agendaprozesse optimiert und verstetigt werden können. Dabei zeigt sich u.a., dass

- erhebliche Unterschiede bei der Organisation, dem Akteursspektrum und den erkennbaren Effekten in den Regionen zu beobachten sind,
- ein starker Mobilisierungseffekt auftrat, die Mehrzahl der implementierten Projekte jedoch bereits zuvor geplant war,
- nach Wettbewerbsende einige Regionen erfolgreich Mittel eingeworben haben, andere ihre Arbeit kontinuierlich fortgesetzt und einige ihre Initiative beendet haben
- bislang die meisten Versuche, ein Monitoring einzuführen, gescheitert sind
- die Nachhaltigkeitsidee jetzt eher im Hintergrund steht - wichtiger ist der Gedanke des regionalen ‚Networkings‘
- Projekte zu einer Untergewichtung sozialer Aspekte tendieren.

Der letzte Punkt war in der Ausschreibung des Wettbewerbes schon angelegt, als die generelle Leitvorstellung einer nachhaltigen Siedlungsentwicklung zur näheren Orientierung auf sieben konsensfähige Ziele herunter gebrochen wurde: vier ökologische, zwei ökonomische und nur ein soziales, nämlich die gleichberechtigte Beteiligung und Berücksichtigung der Interessen aller regionalen Akteure und Bevölkerungsgruppen.

In der Tradition der Brundtland-Kommission wird Nachhaltigkeit in Deutschland – und dies gilt in Ost und West gleichermaßen – primär mit Blick auf den Interessengegensatz zwischen Ökologie und Ökonomie thematisiert. Soziale Aspekte treten dabei regelmäßig in den Hintergrund oder werden nur implizit angesprochen, etwa über das Handlungsfeld ‚Schaffung von Arbeitsplätzen‘, worin natürlich auch eine starke soziale Komponente liegt.

Edda Müller, Mitglied des deutschen Nachhaltigkeitsrates, fasst den gegenwärtigen Stellenwert sozialer Themen in der deutschen Nachhaltigkeitsdiskussion wie folgt zusammen (vgl. Müller 2001):

- Im Vergleich zum Umweltdiskurs hat die soziale Nachhaltigkeit noch keine eigenständigen Kategorien hervorgebracht. Wo im Umweltbereich über Effizienz, Lebensstile, über Technik und Emissionsziele geredet wird – wo also das Messbare gemanagt wird – da bleibt die soziale Nachhaltigkeit vergleichsweise nur Appellhaftes, Unverbindliches und Anekdotenhaftes zu konstatieren.
- Die soziale Dimension wird bisher weitgehend defensiv verstanden. Im Vordergrund steht die Maxime „don't damage“.
- Politische Gestaltung der sozialen Nachhaltigkeit steht nicht an. Allenfalls werden soziale Aspekte im Sinne fast karikativer Hilfe beachtet.
- Soziale Nachhaltigkeit hat keine eigenständigen Akteure.

2 Die demografische Herausforderung: „Going for Growth?“

Ganz Europa steht heute vor einem dramatischen demografischen Umbruch. Wir werden uns daran gewöhnen müssen, strukturelle Schrumpfungprozesse als einen wesentlichen Trend europäischer Raumentwicklung im 21. Jahrhundert zu akzeptieren. Schrumpfung meint dabei in Anlehnung an Wood (1994) einen mehrdimensionalen Prozess, einer krisenhaften Umstrukturierung von Wirtschaft, Gesellschaft und letztlich auch von baulich-physischer Struktur. Schrumpfung geht also über die zyklischen Schwankungen der Wirtschaft hinaus. In der Regel folgen demographische Schrumpfung (durch Abwanderung) und technischer Rückbau dem wirtschaftlichen Niedergang. In Zukunft kommt aber auch der natürlichen Bevölkerungsabnahme große Bedeutung zu.

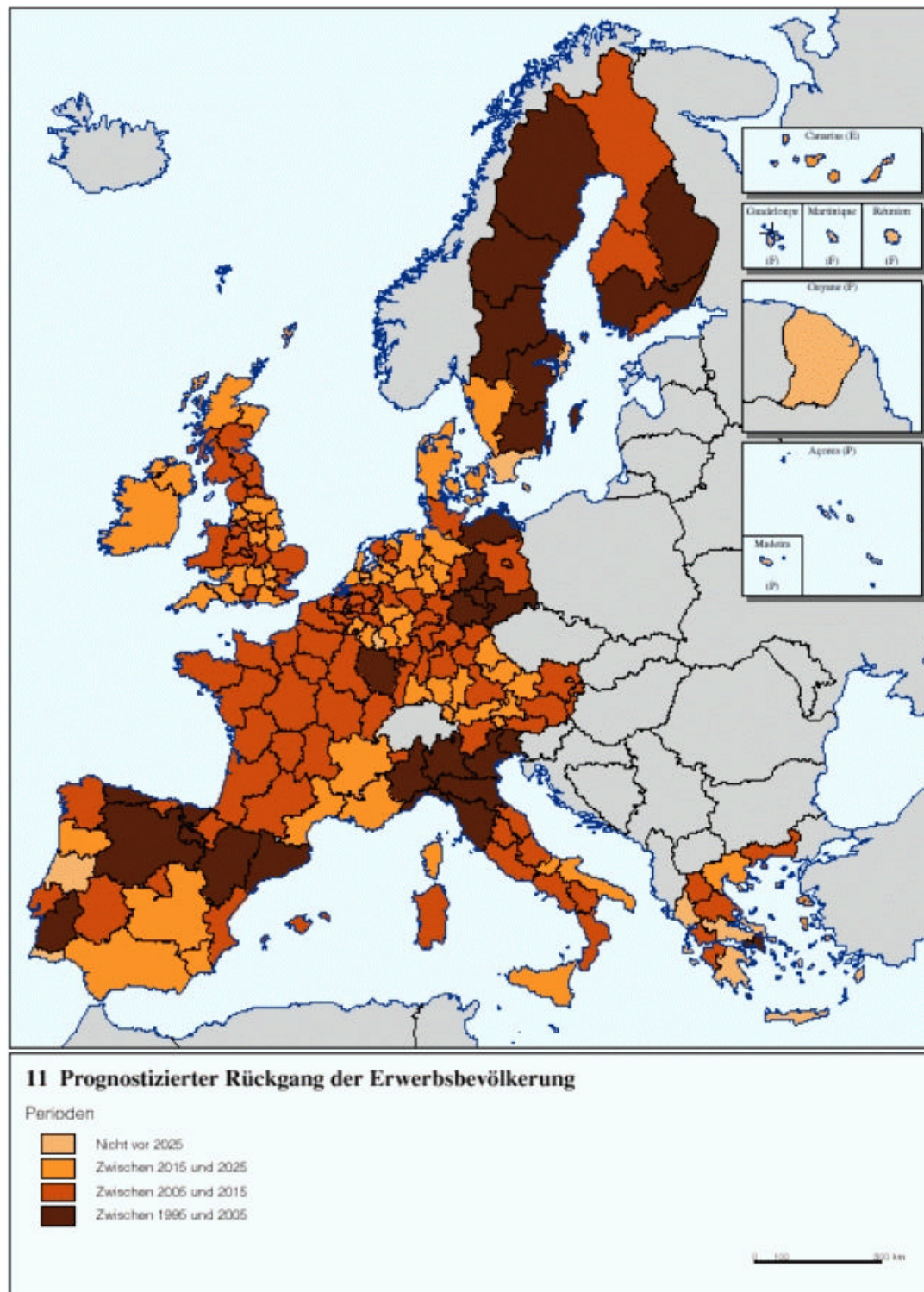
In historischer Betrachtung sind Schrumpfungprozesse ein normaler Vorgang gesellschaftlicher Entwicklung. Staaten und Regionen sind den Phasen des Wachstums, der Stagnation und der Schrumpfung ausgesetzt: sie durchlaufen 'Wachstumszyklen'. Wichtige Ursachen struktureller Schrumpfungprozesse in Europa seit den 1970er Jahren sind:

- Natürlicher Bevölkerungsrückgang (Geburtenrückgang),
- Technologische Innovationen (Automatisierungen, Arbeitsplatzabbau),
- ‚Krise des Fordismus‘,
- Niedergang ganzer Industriezweige durch globale Konkurrenz,
- Interregionale selektive Migration als Folge des Strukturwandels,
- Intraregionale Migration (Suburbanisierung),
- weitgehende Deindustrialisierung in Mittel- und Osteuropa nach 1990.

Schrumpfungprozesse sind nicht nur in den Transformationsstaaten Mittel- und Osteuropas zu beobachten. Vielmehr zeichnet sich in über 90 % der NUTS II-Regionen in Europa ein Rückgang der Erwerbsbevölkerung in den nächsten 20 Jahren ab (vgl. Abb. 4). Besonders betroffen sind folgende Gebiete:

- Westeuropäische Industrieballungen im wirtschaftlichen Niedergang (Ruhrgebiet, Mersey Side, Pays Noir, etc.)
- Ländlich-periphere Entvölkerungsgebiete (v.a. Nordschweden, Ostfinnland und Schottland)
- Transformationsregionen mit stark rückläufiger industrieller Entwicklung (u.a. Ostdeutschland)
- Gebiete mit extremen Geburtenrückgang (Spanien, Italien, Griechenland)

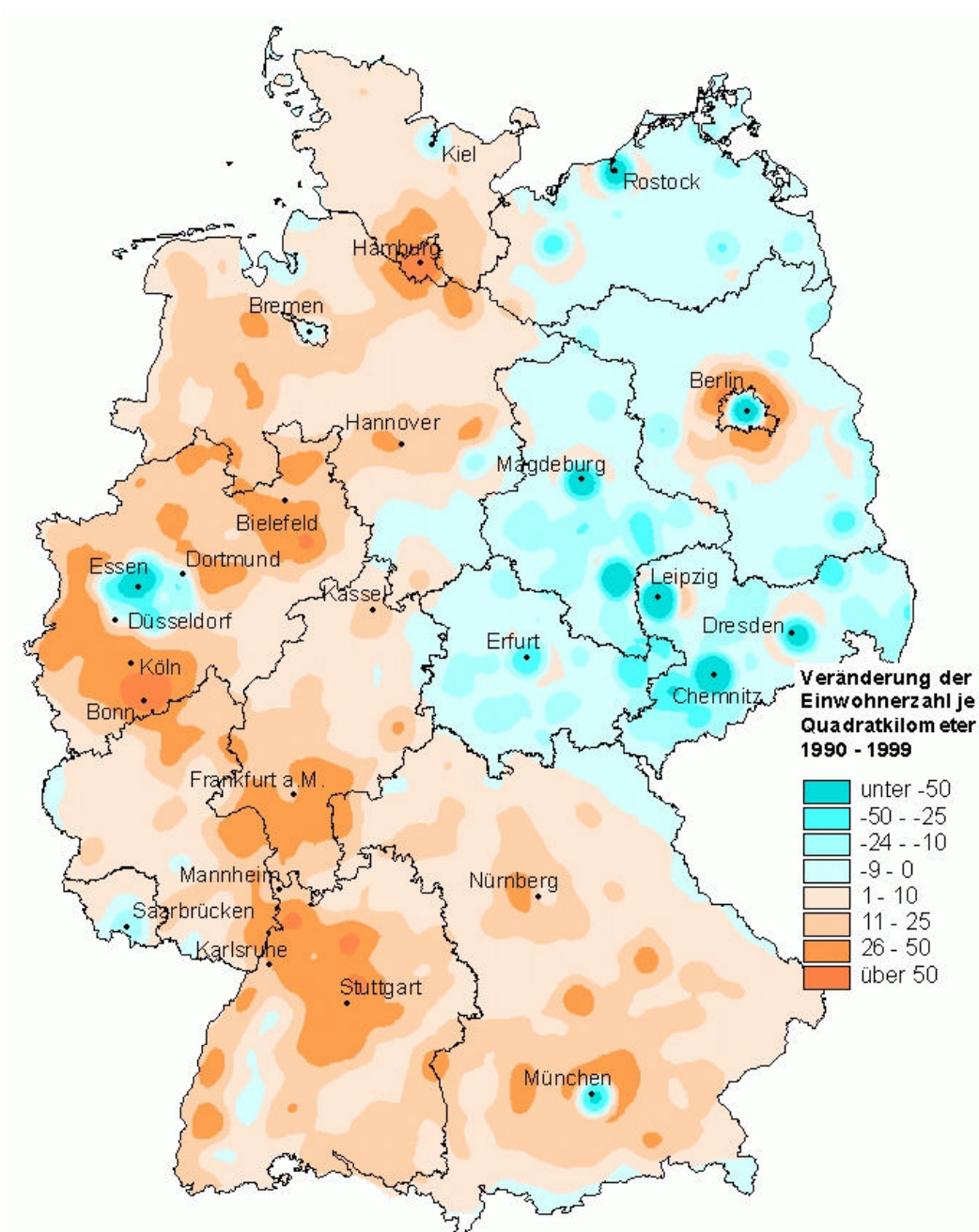
{Abbildung 4: „Erwarteter Rückgang von Erwerbspersonen 1995 - 2025“; Quelle: 2. Kohäsionsbericht der EU (2001); einfügen!}



Die aktuelle Prognose des Statistischen Bundesamtes erwartet trotz erheblicher Wanderungsgewinne allein in Deutschland einen absoluten Bevölkerungsverlust zwischen 1999 und 2050 von 12 bis 17 Mio. Einwohnern, dies entspricht einem relativen Rückgang von ca. 18% (Statistisches Bundesamt 2000). Schrumpfung ist dabei keineswegs ein originär ostdeutsches Problem. Schon in den 1990er wiesen auch in Westdeutschland einige altindustrialisierte Regionen (Ruhrgebiet, Saarland), einzelne Städte (München, Bremen, Kiel) und einige periphere Regionen (Schwarzwald, Fichtelgebirge, Westeifel, Harz, Eichsfeld, Küste, Alpen) negative Bevölkerungssalden auf. Allerdings hat sich in Ostdeutschland in den letzten Jahren eine Entwicklung vollzogen, die andernorts erst noch bevorsteht. Hier trafen hier mehrere Faktoren zusammen, die in einem sehr kurzen Zeitraum zu besonders starken Bevölkerungsverlusten führten (vgl. Abb. 5). Dies gilt gerade für die Großstädte wie Leipzig, Halle, Magdeburg,

Chemnitz oder Dresden. Waren die Schrumpfungsprozesse in Westdeutschland in den 1970er und 1980er Jahren noch gut zu verkraften und durch den Wiedervereinigungsboom sogar auszugleichen, verstärken sich in den Regionen Ostdeutschlands seit 1990 postfordistische und postsozialistische Schrumpfungsprozesse.

{Abbildung 5: „Differenz der Bevölkerungsdichte in Deutschland zwischen 1990 und 1999“; Quelle: Siedentop et al. (2002); einfügen!}



Wie erfährt nun der Bürger diesen demografischen Umbruch? Wie wird er im Alltag konkret erlebt? Am sichtbarsten sind zweifellos die baulich-physischen Folgen, seien es nun Industriebrachen oder leerstehende Wohngebäude (vgl. Abb. 6 und 7). Allein in Ostdeutschland stehen heute über 1 Million Wohnungen leer. Die Leerstandsquote liegt in vielen Städten über 15 %, zum Teil über 20 %. Angesichts der Bevölkerungsprognosen, die eine weitere Zunahme des Rückgangs erwarten, ist ein teilweiser Rückbau unvermeidbar (vgl. Abb. 8). Noch Mitte der 1990er Jahre ein Tabu, gibt es seit 2000 in den ostdeutschen Ländern Förderprogramme für den Abriss von Wohnraum, insbesondere in großen Plattenbaugebieten. Prinzipien dieser neuen Stadtumbaupolitik sind: die Förderung nach integrierten Stadtentwicklungskonzepten, Stärkung der Innenstädte, der Umbau der Plattenbausiedlungen und die Erhöhung des selbstgenutzten Wohneigentums. Mit dem Bund-Länder-Programm 'Stadtumbau Ost', das im Zeitraum 2002 bis 2009 über 2,5 Mrd. € zur Verfügung stellt, unterstützt auch der Bund die neue Stadtumbaupolitik in Ostdeutschland.

{Abbildung 6: „Industriebrache in Ostdeutschland“, Abbildung 7: „Wohnungsleerstand in Ostdeutschland“ und Abbildung 8: „Abriss von Plattenbauten in Ostdeutschland“ einfügen!}



Was bedeuten die vorherrschenden Schrumpfungsprozesse nun für die Strategien nachhaltiger Entwicklung? Sind die vorhandenen Instrumente der Stadt- und Regionalplanung für die neue raumstrukturelle Situation geeignet? Nun, es bedeutet zunächst einmal, dass Schrumpfen als in Teilräumen dominante Entwicklung nicht länger verleugnet werden darf, auch wenn Planung der Schrumpfung komplexer, schwieriger und politisch unverdaulicher ist als Planung des Wachstums. Dabei fehlt es in Deutschland – und es ist zu vermuten, dass dies in den meisten anderen europäischen Ländern nicht anders ist – an leistungsfähigen Instrumenten für eine Raumentwicklung unter Schrumpfbedingungen. Das kommunalpolitische Instrumentarium folgt den vorherrschenden Wachstumszielen und orientiert sich am Planungsbedarf unter Wachstumsbedingungen. Förderprogramme, sowohl bezüglich der Wirtschaftsentwicklung wie auch für die öffentliche Infrastruktur richten sich vorrangig an Neuinvestitionen bzw. Neubauten.

Die gleiche Orientierung gilt auch für das raumordnerische Instrumentarium, da auch hier der Grundsatz des Bestandsschutzes von erheblicher Wirkung ist. Außerdem: was kann mit dem Ansatz der zentralen Orte oder der Entwicklungsachsen erreicht werden, wenn es kaum neue, zusätzliche Bedarfe gibt, die es zu verteilen gilt? Typische Vorgaben in Raumordnungsplänen sind von expansiven Entwicklungserwartungen geprägt: Schaffung zusätzlicher Arbeitsplätze, die Entwicklung der Wirtschaft, womit Wachstum gemeint ist, der Infrastrukturausbau, usw. Daher kann es nicht überraschen, dass die planerische Antwort auf Schrumpfungsprozesse regelmäßig die Umkehr zu neuem Wachstum zum Ziel hat. In Newcastle, einer Industriestadt im Nordosten Englands, die seit Jahrzehnten mit Bevölkerungsrückgang zu kämpfen hat, lautet der aktuelle Strategieplan bezeichnenderweise „Going for Growth“, ungeachtet der geringen Aussichten, tatsächlich Wachstum zu realisieren.

„Going for Growth“ ist implizites Leitbild heutiger Planung und ihres Instrumentariums. Meine These ist nun, dass die anhaltende Orientierung auf Wachstum, die Folgen der Schrumpfung erst problematisch werden lässt. Alle großen Fehlplanungen der Vergangenheit basierten auf unrealistischen Wachstumserwartungen. Planung muss den realen Entwicklungen angepasst werden. Zudem sollte Schrumpfung auch als Chance begriffen werden: Neue Raum- und Zeitpotenziale werden verfügbar. Eine nachhaltige Entwicklung ohne Stagnation bzw. Schrumpfung wird es nicht geben.

Tabelle 1: Wachstums- versus Schrumpfungsplanung

Traditionelle Wachstumsplanung	„Neue“ Schrumpfungsplanung
Ziel: Wachstum	Ziel: Korrektur, Stabilisierung und Erhalt der Regenerationsfähigkeit
Vorrangige Aufgabe: Defizite durch zusätzliche Angebote abbauen, Investitionen kanalisieren	Vorrangige Aufgabe: Defizite im Bestand abbauen, Deinvestitionen verhindern
Steuerung durch Pläne bei umfassenden Bestandsschutz	Prozesssteuerung (Beratung, Moderation)
Orientierung auf neue Bauflächen und Neubauten	Orientierung auf Um- und Nachnutzung des Bestands und kreativen Rückbau
Eindeutige, verbindliche Vorgaben (z.B. für Art und Maß der Nutzung)	Alternative Entwicklungsmöglichkeiten, multifunktionale Architektur
Sozial-räumliche Trennung von Wohnen, Arbeiten, Einkaufen und Erholen	Effizienter Mitteleinsatz durch strategische Rahmenkonzepte und sektoral übergreifende Lösungen
Kommunale Planungshoheit	Interkommunale Kooperation

Eine Umorientierung von Wachstums- auf Schrumpfungsprozesse bedeutet ein anderes Verständnis von Planung und verlangt eine Abkehr von „ingenieurtechnischer Planung“. Es geht vor allem darum, Defizite im Bestand abzubauen und eine Stabilisierung der stadtreionalen Entwicklung anzustreben. Eine notwendige Orientierung auf die Um- und Nachnutzung des Bestands und den kreativen Rückbau erfordert einen effizienten Mitteleinsatz durch strategische Rahmenkonzepte und sektoral übergreifende Lösungen. Der Planung kommt dabei stärker als heute die Rolle als Moderator und Berater in den Entscheidungsprozessen zu. Politisch wird Schrumpfung allerdings erst diskussionsfähig, wenn ein neues Leitbild entworfen wird. Schrumpfung an sich kann kein Ziel sein.

3 Fazit: „Smart Growth“ oder sozialverträgliche Schrumpfung?

Meine Ausführungen sollten verdeutlichen, dass die Stadt- und Regionalentwicklung in Europa am Beginn des 21. Jahrhunderts vor neuen Herausforderungen steht. Demografische Schrumpfungsprozesse werden dabei eine der dominanten Rahmenbedingungen sein. Wie sich ein drastischer Bevölkerungsrückgang auswirkt, kann heute schon in einigen Teilen Europas beobachtet werden, so auch und gerade in Ostdeutschland.

Im Kontext von Nachhaltigkeit kann Planung angesichts der Herausforderung ‚Schrumpfung‘ grundsätzlich zwei Reaktionen zeigen: sie kann an ihrem traditionellen Selbstverständnis als wachstumsorientierte Steuerung durch Pläne festhalten und dem erhofften Wachstum eine intelligente Richtung geben: wie in der us-amerikanischen „Smart Growth“-Bewegung wird dabei Wachstum an sich nicht in Frage gestellt. Es wird vielmehr als Voraussetzung verstanden, sich überhaupt mit ökologischen und sozialen Problemen erfolgreich auseinander zu setzen. Durch eine ökologische Modernisierung soll das Wachstum in nachhaltigere Bahnen gelenkt werden.

Abgesehen davon, dass unbegrenztes Wachstum der Nachhaltigkeitsidee im Kern widerspricht, läuft diese erste denkbare Reaktion auch Gefahr, der realen raumstrukturellen Entwicklung nicht gerecht zu werden. Schrumpfungsprozessen kann mit Wachstumsplanung nicht begegnet werden. Für die Nachhaltigkeit unserer

Gesellschaften bietet gerade ein Bevölkerungsrückgang erhebliche Potenziale. Die Alternative zum traditionellen Wachstumsplanungsparadigma lautet daher ‚Schrumpfungsplanung‘, also eine Planung, die Schrumpfen als in Teilräumen dominante Entwicklung nicht länger verleugnet und sich auf die Bestandsentwicklung konzentriert.

Die aktuellen Entwicklungstendenzen legen es nahe, dass neben dem traditionell wachstumsorientierten Planungsparadigma in Zukunft ein „Paradigma der Schrumpfung“ treten muss (Müller / Wiechmann 2002). Dazu gehört auch Rückbau von Gebäuden, Anlagen und Infrastruktur. Welchem Paradigma die Planung in einem konkreten Planungsprozess folgen sollte, hängt in erster Linie von den jeweils vorherrschenden raumstrukturellen Problemen ab, die es zu lösen gilt. Die Kleinteiligkeit der zu beobachtenden siedlungsstrukturellen Entwicklungen und die Tatsache, dass Wachstums- und Schrumpfungsprozesse zeitlich wie räumlich eng miteinander verflochten sind, macht jedoch deutlich, dass die Planung in der Regel beide Paradigmen berücksichtigen sollte. Weder eine unkritische Wachstumsorientierung noch eine Abfederung der Folgen von Schrumpfungsprozessen werden allein den anstehenden Herausforderungen gerecht.

Der anhaltende Bevölkerungsrückgang und die damit verbundene Überalterung der Gesellschaft sind zentrale Themen sozialer Nachhaltigkeit. Die Städte und Regionen Europas sind aufgefordert, sich offensiv damit auseinanderzusetzen und zur Bewältigung der demografischen Herausforderung neue Wege zu beschreiten. Dazu gehört unvermeidlich auch die Gestaltung sozialverträglicher Schrumpfungsprozesse.

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I have been asked to comment/reflect upon the METREX conference theme, as a planner from Norway – the fairly large country, with a small population of about 4,5 mill. people whos majority twice has voted not to join the EU, so we might also add the rather "strange" country.

First of all let me emphasize that all the challenges which have been presented at this conference also have relevance for Norway – we are indeed in practice a part of EU, and I shall refer to some examples of this in a moment, but first of all I like to start by telling you a little story.

Many years ago I was interviewed by the Norwegian Development Aid Organization for a job of an environmental study in Sri Lanka. The interviewer was an experienced and reflected man. One main principal question he dwelt with was this:

"On the coast of Sri Lanka there are some few places where "coral forests" are growing – they are scarce and must be protected. But on the shores live some of the poorest people of Sri Lanka. They have found that coral can be used as fertilizer for simple agriculture. Therefore, during the night they sneak out and collect coral branches and use them for their own purpose or they sell them to farmers. This is their main and only possibility of survival. What will you do, facing this?"

A very basic question, indeed. And a question we are similarly faced with in our part of the world when for instance polluting workplaces are meeting new environmental requirements and might be closed.

Norway, I will argue, has actually a tradition of awareness for sustainability. The farmers have their cultural heritage of trying to hand over the farm to the next generation in an improved condition where nature, animals and humans live in a balanced way.

We are fond of our nature and cultural landscape – and we do pay a price by subsidizing the rural areas and villages quite heavily. But so far there is a broad consensus for this. For years we have tried to slow down the migration to the larger towns – partly in vain – but more successfully than many other countries. The educational society with high demands on specialized jobs makes this even more difficult.

Now turning to the urban challenges and the issues taken up in this conference. As I have said, Norway is not very different from other European countries. We do have a planning tradition which of course is similar to that of the other Nordic countries, with strong links to for instance Holland and England.

Environmental challenges and sustainability therefore are seen as a natural extension or widening of planning.

We do not, however, have any national physical planning except for the reservation of national parks and national monuments.

We do not have any regional planning either, if we are talking about functional regions, we do, however, have planning at the county level. But this planning is advisory, and in reality the true planning power is vested in the municipalities. Therefore, we are again often faced by the basic challenge of "human needs" (although of a different character than I mentioned from Sri Lanka) and sustainability, with very short distance between those who demand and the administrative/professional/and political level. This of course emphasize the tasks of information and dialogue.

This then brings me to another point which has been commented upon from some of the previous speakers in this conference, and which also the international planning theory is concerned with, namely the need for open dialogue between all parties involved and a more collaborative approach.

In Norway we are faced with a challenge which we have not experienced for – I would say two generations - but I have heard in this conference that several of the countries in Europe are more familiar wit it. We are experiencing "a privatization" of every kind of development, and of planning! This dimension also leads to a behavior of municipalities and even the state – similar to that of private interests. Let me give you one example: Land ownership. There is now a wide political consensus in Norway that there is no reason for the municipalities and the state to own land. Therefore sell it. But sell it to top prices in the market. An added excuse for this is our agreement with the EU which prohibit state or municipal subsidies, as it is called, to private interests. Land ownership then is not used to influence the market or to cater for special needs – like social housing – as we extensively did before, and have been doing for more than 100 years regardless of political color!

This attitude also, in my mind and to my experience, leads to a large concentration on the public side for short term gains, and leave the long term consequences to a lesser concern.

Instead planners are basically left with frame-setting for private actors, and with negotiations and mediations in order to secure good social and environmental solutions.

Planners try to deal with this in different ways, and again I appreciate some of the presentations in this conference. Just one example. How can we monitor the privately driven development and its effects? We heard about the interesting approach from the UK on the use of indicators, and how this also caught the attention of the media. This is, no doubt, a way to follow – and at the same time it again reminds me of getting back to very basic concerns.

In our work on environmental study for Sri Lanka we were fortunate to have very scholarly local people. One of them, a professor of biology, told us about his grandmothers worry for her village. After the farmers started to use pesticides all the cats disappeared and the rats took over. The cats lived on birds, the birds lived in the fields which had been heavily polluted by chemicals. The food chain showed the ecological, and in the end social consequences.

Public, private, partnership is the only way forward in our situation, and many of you can give us advice on how to proceed in a fruitful way.

In order to give you an example of typical challenges for a city like Oslo, I will briefly mention some of our practices which try to meet also the social face of sustainability.

- Oslo, a city of 500.000 in a region of 1 mill. has a beautiful setting between the fiord and the green hills which surround the city. The municipality of Oslo, the city, covers some 420 km². However, only 1/3 is built up area, the rest is forest and hills. The limit – the border between the built up area and the rest of the area is strictly enforced by regulation – and so far upheld politically. This then leads to more intensified utilization of land – as we all have been discussing here.
- The densities that Ann Power wished for, with reference to Barcelona, is not regarded as socially sound in our culture, however. The city is now debating the use of high-rised buildings –also dwellings, in the city center.
- Green areas are to be protected and shaped into continuous patterns leading from the waterfront to the forests. Rivers are to be protected, and the previous dominant harbor is to be concentrated and built down in favor of new mixed land use development. At the most central part – the central railway station – the state and the municipality now have agreed to a joint effort for infrastructure – in order to secure the surroundings of the new national opera to be built, and to open the area for private development. This is a unique example of cooperation, and not the rule unfortunately.
- Further urban, and in fact also regional development in the Oslo area shall take place primarily in what we call “areas of concentrated efforts”, or transportation nodes which are in reality the basis for the focusing. This in order to enhance public transport uses.
- Norway (and Oslo in particular) has since the late 1960ies experienced immigration of people from other cultures and of different religious background. For many years we have been somewhat naive in dealing with this – and we do not have the experience like Thessaloniki of being a multi cultural city. Now we are. There are classes in schools in Oslo where you have more than 10 nationalities represented. This does create interesting opportunities, but unfortunately it also creates problems, as most of you already know. We have not been very good in dealing with these challenges, and I think we can learn a lot from many of you.

These brief remarks show, I hope, that Norway is not that different from the rest of Europe, and that we all probably experience the global connections and interplay. I have not taken up our economy which is indeed a part of the “global capitalism” if I may call it so.

I thank METREX for inviting me to this very interesting conference, and I thank the local organizers for a very pleasant arrangement. If I should dare to give just one advice, I would suggest a different practical arrangement for the workshops where smaller groups more “intensely seated” would be a gain.

As for METREX – I can only wish you the best of luck – and hope you will continue to take up new challenges, new questions of mutual interest, and thus be an inspiration for sustainable planning and implementation!

Thanks to the work of the Rapporteur General, and his team of Workshop Chairs and Rapporteurs, and the progress made with the SocioMETREX project, it has been a straightforward task to draw up the Thessaloniki Conference Resolution for your consideration this morning.

In her opening remarks our President emphasised the need for an integrated approach to sustainability that recognises the related roles of social, economic and environmental interests and of local communities. The importance of these relationships was touched on by many of our Plenary and Workshop speakers.

Our common experience since the METREX 2000 Torino Conference

We bring to our third Conference in Thessaloniki the experience that we have shared since our last Conference in Torino in 2000. We have held meetings in Sevilla, Rotterdam and Copenhagen where we have seen at first hand the constructive way in which issues of urban migration, urban deprivation, economic inclusion and inclusive accessibility have been addressed.

Sevilla is a wonderful example of renewal and regeneration aimed at maintaining a compact mixed use city form. Rotterdam is taking advantage of the opportunities that have become available through port rationalisation to reinforce its urban core and Copenhagen has balanced traffic management and public transport to sustain a high level of inclusive accessibility.

Here in Thessaloniki we have also experienced at first hand a unique form of compact, mixed use, urban housing and development.

Social sustainability

We know what is not socially sustainable. Metropolitan areas which sprawl at low density and have so little sense of place or identity are inherently less sustainable than compact, mixed use, urban areas focussed on our heritage of city living. How this tradition can be sustained in the face of pressures for decentralisation of many of the core functions of urban life including retailing, business, health, education and entertainment to peripheral parks and campuses is a challenge for metropolitan spatial planning and development.

Our great challenge is also the management of the use of the car to sustain inclusive accessibility to our city and town centres and to maintain their environmental quality. The provision of a public transport system that enables all citizens to participate in urban life, at a price that is affordable, seems to be an essential. There is clearly a strong relationship between a compact mixed use urban form and a viable public transport system.

Affordable housing, within a polycentric urban form, is a key issue in many metropolitan areas. In economically successful urban areas it will be necessary to manage the housing market to ensure a balance between market demand and social housing need.

An Integrated Regional Strategy

It seems that the function of spatial planning and development can make its most effective contribution to social sustainability within the framework of an Integrated Regional Strategy. This requires the establishment of some form of effective metropolitan governance and we have seen one interesting approach to this in Greece through the Organisations for Thessaloniki and Athens.

A polycentric approach

In her opening remarks our President also suggested that the polycentric approach to the renewal and regeneration and development and expansion of European urban areas, advocated by the European Commission and supported by the key European institutions, may be one way in which progress towards social sustainability can be achieved.

Through the contributions of our Keynote Speakers and the case studies given to the Workshops it is clear that Europe, with its long tradition of rich and varied urban life, is well placed to demonstrate the way forward.

Community action

Whilst we have focussed on the contribution to social sustainability that can be made at the metropolitan level, and the need for an integrated regional framework within this can be achieved, we have also all been conscious of the need for action at the community level to foster social and economic inclusion.

Such action will usually address the related needs for housing choice, employment opportunities, health, education and leisure provision, security and environmental improvements.

Thessaloniki METREX Conference Resolution

As a result of these general findings and conclusions I would suggest to you that our Conference Resolution might have three core considerations. These might relate to an Integrated Regional Strategy, based on the outcome of Workshop 1, a polycentric approach, based on the outcome of Workshops 2-5, and community action based on the Workshop programme as a whole. These matters were also covered by our Keynote Speakers.

A Conference Resolution is by its very nature a highly abbreviated, and perhaps oversimplified, summary of the outcome of much more detailed and complex discussions. However, its value is perhaps as mentioned by our President in her opening remarks. It seeks to leave delegates with some key common concepts to take away with them. It is in this spirit that your Conference Resolution might be as follows.

The third METREX Conference, meeting in Thessaloniki from 15-18 May 2002, resolved that,

Spatial planning and development can an effective contribution to social sustainability when it,

- **is set within an *integrated regional strategy* that includes social, economic and environmental considerations.**
- **sustains and rejuvenates *city and town centres* as the preferred locations for core metropolitan functions such as retailing, entertainment, culture, health, education and business.**
- **adopts a *polycentric approach* to the restructuring or planned extension of metropolitan areas based on compact, mixed use, public transport orientated development, focussed on centres, rather than low density, single use, decentralised, car orientated development.**
- **recognises the value of such an approach in achieving *balanced urban renewal and development, economic competitiveness, social cohesion and accessibility.***
- ***provides a context for community level initiatives to promote social and economic inclusion.***

Thank you colleagues for your support for the Conference Resolution.

It is now my role to bring this most enjoyable and successful third METREX Conference to a close. I do this on behalf of our President, Mercedes Bresso, who, as you know, had to return to the Plenary Session of the Committee of the Regions yesterday.

The Conference theme and sub themes have been thoroughly explored over the past three days and there will be a whole range of ideas and approaches that delegates will have considered and thought about in relation to their own circumstances.

The SocioMETREX project

When beginning the SocioMETREX project, in Rotterdam last year, Professor Anne Power wisely observed that the value of European projects is very often that they enable colleagues to view their own problems in a new light as well as providing a source of new ideas. They can open windows onto different ways of thinking rather than providing ready made solutions. I sense that our Conference in Thessaloniki has enabled many delegates to look at their own problems in new ways that may be helpful and if so then it will have fulfilled its purpose.

A multi national multi cultural Europe

You may have heard of the Slow Food movement that had its origins in Italy and is dedicated to the preservation and promotion of traditional food cultures from farming to retailing, cooking and eating. It hopes to be a counter force to fast food in the tourist and leisure industries and help to preserve the traditional Italian love and respect of eating as a social activity. Such food cultures exist in most Mediterranean countries but are less strong elsewhere in Europe.

In Rotterdam they have taken the wonderful sounding initiative of "Eating in the streets" to enable mixed culture communities to cook for one another, sample each others food cultures and to begin to share new experiences. The Dutch have also been very progressive in enabling ethnic minorities to learn their language, travel in Holland and experience the opportunities of living in a multi cultural society.

These are just two different examples of the building blocks for the multi national, multi cultural, society that Europe now is. A concern and respect for traditional values and cultures but a willingness to share these with others. Sustaining societies means being able to retain the traditions that add value to life, such as food cultures, but also adapting these to changing circumstances.

The quality of European urban life

The same approach applies to our urban heritage and European tradition of city living. We need to retain and conserve our urban fabric but to ensure that it remains fit for the new roles that it has to fulfill in a competitive global economy. What we clearly must not do is to lose sight of the qualities that still make European urban life so special, enjoyable and fulfilling.

Metropolitan governance

In the age of the specialist it is all the more important to retain groups of non specialists, especially at the European, national, regional and metropolitan levels, to take the longer term and wider view of the future that is required. They need to be concerned about the social, economic and environmental issues that require integrated consideration in any sustainable approach.

We have explored some of the ways in which this can be achieved here in Thessaloniki and I am delighted that the next METREX Meeting, which I hope will be in London this autumn, will continue consideration of the issue of Metropolitan Governance.

The InterMETREX and PolyMETREX projects

The coming year will be an exciting and challenging one for METREX. This summer and autumn we will be submitting the InterMETREX and PolyMETREX projects to the relevant Interreg IIIC secretariats of the European Commission. If we are successful with these applications then the basis will have been laid for much of the Network's activity from 2002 until 2006.

The InterMETREX project will enable exactly the exchange of knowledge and experience that METREX was founded to promote. The PolyMETREX project will enable the Network to begin to play a significant role in European spatial planning policy by taking forward the concept of cooperation between European metropolitan areas.

These projects will involve between 40 and 60 European metropolitan areas, in each project, in an intensive programme of 20 Workshops at three monthly intervals over the period 2002 to 2006. This is a very ambitious

programme that could not be contemplated without the backing and support of the Lead Partners. The projects have the potential to enable METREX to make a quantum leap in the scale and significance of its activities.

London in 2002, Stuttgart and Stockholm in 2003, Barcelona in 2003

This year we hope to meet again in London in the autumn when the theme of Metropolitan Governance could be informed by hearing at first hand about the work of the new Greater London Authority in producing the Spatial Plan for London. Next year we will have Meetings in Stuttgart and Stockholm, on issues to be chosen by our hosts and we thank them for their kind invitations to us. In 2004 we will have the great pleasure of holding our fourth biennial Conference in Barcelona, hosted by the Generalitat de Catalunya.

Our kind thanks

Colleagues, I know that you share my gratitude to our friends and METREX Members in Thessaloniki and Athens for the care and consideration that they have given to making our third biennial Conference such a success. Greek hospitality is legendary and now we all know why!

In closing our Conference there are some special thanks that I know you would wish me to give on your behalf.

Firstly, to Kostas Loizos, Chairman of the Organisation of Thessaloniki and to Abraam Kalteberides, Vice Chairman. They it is who have ensured that the Conference happened in this wonderful venue.

I want to make special mention of Magda Segkouni who has taken on much of the organisational burden of the Conference and has remained her calm and considerate self throughout.

Secondly, to our long standing colleague Avghi Markopoulou, President of the Organisation of Athens and her close colleagues. They have promoted the Conference theme and ensured that the issues have been well explored.

Thirdly, to all the contributors to the proceedings of the Conference including our distinguished speakers, Rapporteur General and Workshop Chairs and Rapporteurs. To you all our grateful thanks for your time and constructive thought about the Conference theme and sub themes.

Finally, to the Metron and CMD Agencies that have arranged our accommodation and managed the Conference bookings and to the METREX Secretariat and Interpretariat who helped to put together the Conference programme.

As ever the Conference could not have taken place without the interpretation services which on this occasion have been provided by the METREX Interpretariat and colleagues from Greece. Our thanks to you all.

On behalf of President Mercedes Bresso I now draw the Conference to a close. As on previous occasions the Conference Proceedings will be published on the METREX web site in about one month. Can I ask all speakers to make their contributions available to the METREX Secretariat if they have not already done so?

Please enjoy the excursions this afternoon and tomorrow and I look forward to hopefully meeting you all again in London this autumn. Have a safe and comfortable journey home.