



**Hamburg Conference**  
**EUCO2 80/50 project**

## **Hamburg Declaration - Climate change/Urban change**

- 1 - Responsibilities and interests**
- 2 - Commitment**
- 3 - EUCO2 80/50 project**
- 4 - Cooperation**
- 5 - Economic competitiveness**
- 6 - Dialogue**
- 7 - Follow up**



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## **Declaration 1 - Responsibilities and interests**

Whereas metropolitan regions and areas directly and indirectly are the main polluters in the climate change process and Europe's urban areas emit roughly 20 % of global GHG (greenhouse gas) emissions,

**we acknowledge a shared responsibility and a common interest in the pursuit of climate-friendly innovations and the reduction of damaging GHG emissions**



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## **Declaration 2 - Commitment**

**We commit to the reduction goals envisioned by the G8 and proposed by the EU of an overall 80 % reduction in the emissions of GHG/CO<sub>2</sub> by the year 2050 and resolve to work together towards this goal**



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### **Declaration 3 - EUCO2 80/50 project**

**As a first step towards reaching this goal, we appeal to European metropolitan regions to participate in the METREX INTERREG EUCO2 80/50 project**

*The objective of this project will be to enable Europe's 100 metropolitan regions and areas to devise and adopt integrated GHG emission mitigation strategies in order to achieve the reduction target of 80 % by 2050*

**We urge all METREX members as well as all non-member European metropolitan areas to participate in the project and, in their own interest, to secure their carbon light energy futures**



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## **Declaration 4 - Cooperation**

**We urge metropolitan regions worldwide to commit themselves to climate-friendly behaviour and decision-making and to strive for regional cooperation in a spirit of dedication towards the highest-possible protection level**



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## **Declaration 5 - Economic competitiveness**

**We appeal to all European metropolitan regions and areas to make all possible efforts in order to ensure that their economic competition should not be detrimental to climate**



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## **Declaration 6 - Dialogue**

**We urge the European Commission and the national Governments within the European Union to enter into a climate-oriented dialogue with their metropolitan regions and areas and to support these in achieving their reduction targets**



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## **Declaration 7 - Follow up**

**We express our gratitude to the Northern Virginia  
Regional Commission and to the Greater London  
Authority to hold follow-up conferences in Greater  
Washington 9-12 April, 2008 and in London in  
autumn 2010**





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**EUCO2 80/50 project introduction**

Rainer Scheppelmann, Metropolregion Hamburg  
Project Manager and Coordinator

**EUCO2 80/50 project and Interreg IVC Application**

Roger Read, METREX

**GRIP model and process**

Dr. Sebastian Carney, Manchester University,  
EUCO2 80/50 Project Leader, Tyndall Centre

**GRIP pilot**

George Eckton, Glasgow and the Clyde Valley Structure Plan Joint  
Committee (GCVSPJC)



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## **EUCO2 80/50 project and Interreg IVC Application**

Context - Climate change/Urban change

Interreg IVC Programme

Objective and Prospectus

Partnership

Budget

GRIP model and process

Project activities

Project structure

Partners, stakeholders and observers and the GRIP process

Costs and benefits

Programme

Knowledge transfer and dissemination



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### **Context - Climate change/Urban change**

**EU target of an 80% reduction in greenhouse gas emissions by 2050**

100+ metropolitan areas in Europe

60-70% of Europe's population of 490 million

Primary source of EU emissions

Have to stop being part of the problem and become part of the solution

**Mitigation** is the term to used describe this process

### **Metropolitan energy futures**

Metropolitan areas also need to safeguard their futures by moving to sustainable low carbon economies

**The EUCO2 80/50 project is a metropolitan response to these two challenges**



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## **Interreg IVC Programme**

**Environment and risk prevention**

**Natural and technological risks - including climate change**

Regional Initiative Projects - 36 months and €5m

For “Classic” Interreg projects

Focus on interregional cooperation

Objective to improve the effectiveness of regional development policies

Sharing and transfer of policy experience, knowledge and good practice



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### **Project objective**

To enable Europe's metropolitan regions and areas to devise and adopt informed and effective integrated greenhouse gas (GHG) emissions mitigation measures and strategies to achieve the EU target of an 80% reduction by 2050 and to secure their low carbon energy futures.



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**Project objective - Metropolitan dimension**





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**Project objective - Metropolitan dimension**

Europe's major urban regions and their areas of influence

- Travel to work areas
- Labour markets
- Housing market areas
- Retail catchment areas
- Higher education areas
- Health services areas
- Energy and water supply areas
- Waste management areas
- Transport and other infrastructure systems

Integrated spatial planning strategies are already required over such areas

**Metropolitan Mitigation Strategies also require integrated metropolitan thinking**





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## Prospectus





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## Partnership

Lead Partner	1	Metropolregion Hamburg
METREX	1	The Network of European Metropolitan Regions and Areas
Practice Partners	2	Mitigation and Adaptation Practice Partners
Steering Partners	8	Interregional Mitigation Group Steering Partners
Partners	13	Metropolitan partners
<b>Total</b>	<b>25</b>	<b>13 EU countries plus Norway</b>



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## Partnership

- 1 Metropolregion Hamburg
- 2 METREX
- 3 Capitalregion Berlin-Brandenburg
- 4 Comunidad de Madrid
- 5 **GCVSPJC**
- 6 IAURIF (Ile-de-France)
- 7 Organisation for Athens
- 8 **Regione del Veneto**
- 9 **Regione Emilia-Romagna**
- 10 **Stockholm County Council**
- 11 Helsinki Metropolitan Area Council
- 12 Verband Region Stuttgart
- 13 Area Metropolitana do Porto
- 14 Planungsverband Frankfurt/Rhein-Main
- 15 Provincia di Genova
- 16 Provincia di Torino
- 17 Rotterdam City Council
- 18 South Coast Metropole (UK)
- 19 Planning Centre for Bucharest
- 20 Ville de Bruxelles
- 21 City of Ljubljana
- 22 City of Oslo
- 23 Regione Piemonte
- 24 Provincis di Napoli
- 25 Metropolregion Nürnberg

# METREX the network of European Metropolitan Regions and Areas



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## Partnership

EU CO2 80/50 Partnership and potential observers





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## **Project budget**

**Budget €4.2m**

50 %	Staff and/or external expertise
20%	GRIP model and process (Tyndall Centre UK)
20%	Travel and accommodation
10%	Workshop and other costs

**Over 30 months from July 2008 to December 2010**



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### **“GRIP for Europe” model and process**

GRIP model and process was piloted through an extension to the InterMETREX project (March to July 2007) by Glasgow, Stockholm, Emilia-Romagna and Veneto

**GRIP model** takes available energy and socio-economic data to give metropolitan greenhouse gas assessments and inventories.

Quantifies energy inputs and use and consequent emissions

**GRIP process** enables policy stakeholders (energy, social, economic, environmental, transportation and spatial planning interests) to explore mitigation scenarios and strategies and quantify their effectiveness

**The GRIP model and process will be the compass for the EUCO2 80/50 mitigation journey**



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## **Project structure**

### **7 project activities**

- 1 Inception and GRIP briefing/training
- 2 GRIP model metropolitan emission assessments and inventories
- 3 Assessments and inventory synthesis  
Key issues for metropolitan mitigation scenarios
- 4 Metropolitan mitigation scenarios
- 5 Metropolitan Mitigation Strategies
- 6 Scenarios and Strategies Synthesis
- 7 Dissemination



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## **Project structure**

### **Representative metropolitan stakeholder interests**

- 1 Energy
- 2 Social
- 3 Economic
- 4 Infrastructure
- 5 Environment
- 6 Transportation
- 7 Spatial Planning - metropolitan
- 8 Spatial planning - local





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## **Project structure**

### **Local metropolitan stakeholder roles - Example of transportation**

**Road** - Freight transport users and interchange, car users, road and parking providers and managers

**Public transport** - Rail, metro, tram, bus route and interchange providers and managers

**Maritime transport** - Cargo, ferry and cruise providers, port and interchange facility providers and managers

**Air transport** - Airline services, airport providers and managers

**Perhaps 10 local metropolitan stakeholder interests for each of the 8 representative metropolitan interests = 80 local stakeholders**



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## **Project structure**

### **Metropolitan stakeholder interests**

- 8 Representative metropolitan stakeholders per partner area
- 80+ Local stakeholders per partner area (8 @ 10)
- 24 Partner metropolitan areas

**2000+ Metropolitan representative and local stakeholders**

Partner GRIP briefing and training at the Inception Meeting  
Representative stakeholder briefing/training at Emission Assessment Workshops

**Partners and stakeholders enabled to use GRIP for Europe on-line**



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## **Project structure**

### **Observer roles**

70+ European metropolitan regions and areas not directly involved in the EUCO2 80/50 project could participate by attending the programme of 24 Workshops as Observers and then use GRIP for Europe on-line with Tyndall Centre support services

They could be asked to pay a user fee - €10k?

User fees could be used to form a EUCO2 80/50 Dissemination Fund to promote Mitigation strategies and measures



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## **Project structure**

### **Tyndall Centre GRIP services**

GRIP briefing and partner/representative stakeholder training  
GRIP model application within metropolitan areas  
GRIP process facilitation for metropolitan scenarios and strategies  
Workshop outcomes and dissemination

### **GRIP and Tyndall Centre resources**

- 24 Project partner metropolitan areas
- 3 Each Partner participates in Assessments/inventories, Scenarios and Strategies

## **72 Comparative Case Studies**



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### **Project structure**

**Interreg IVC is an interregional programme**

**EUCO2 80/50 based on 4 Mitigation Areas (MA) North, Central, West and South**

Areas facing common mitigation issues (heating, cooling,  
maritime climate etc.)

Areas for ease of Workshop logistics (partners and observers)

**EUCO2 80/50 carried out within the 4 MA through 8 Interregional Mitigation  
Groups (IMG) with 3 Partners in each**

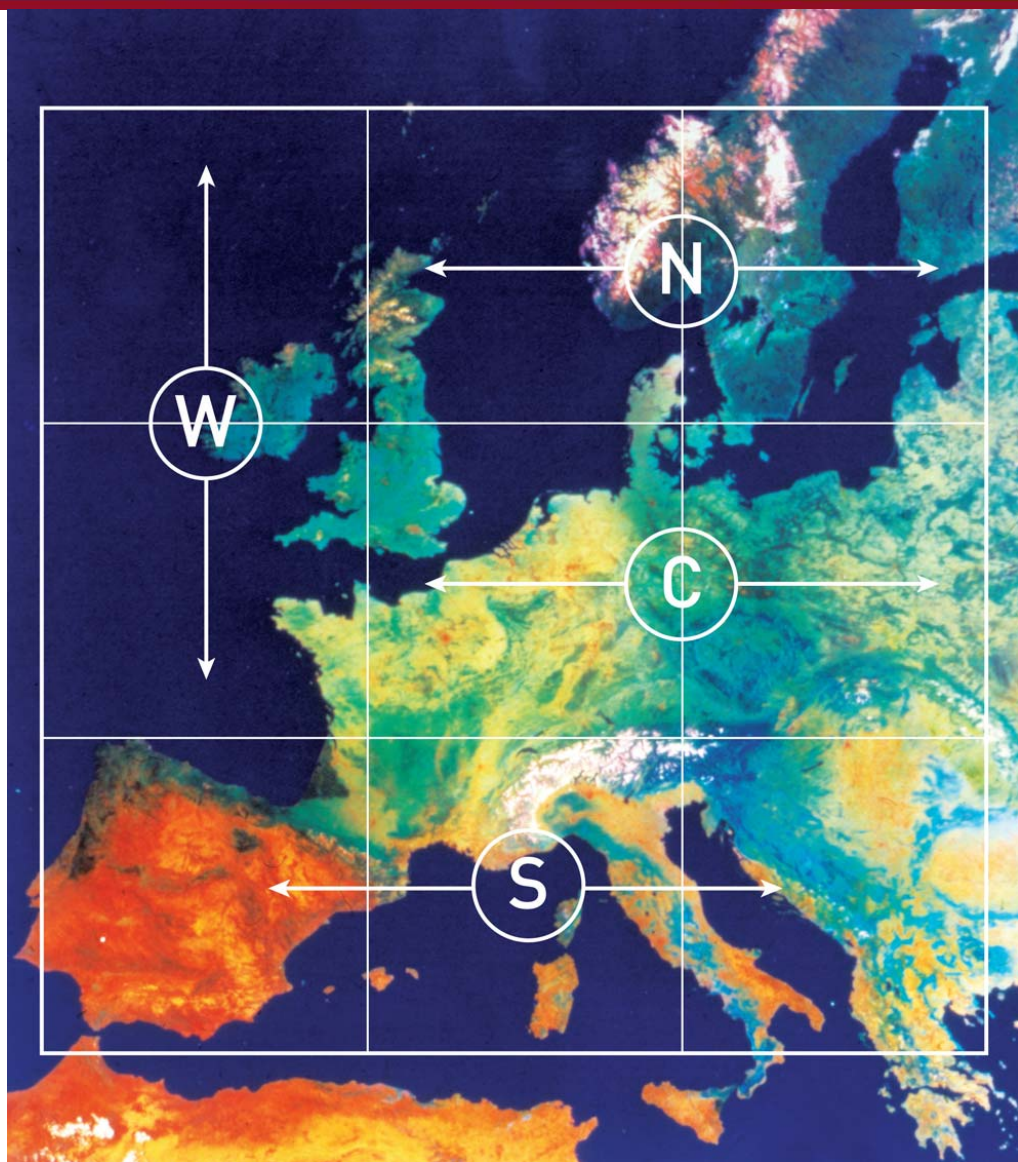
**Interreg IVC is a knowledge transfer programme**

Knowledge transfer will be enabled horizontally between MA and  
vertically within IMG



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## Mitigation Areas

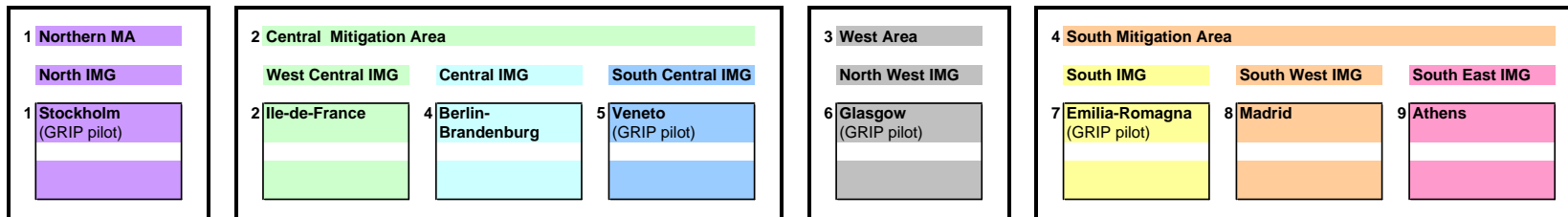




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### EUCO2 80/50 Partnership and potential observers - Mitigation Areas (MA) and Interregional Mitigation Group (IMG) Workshop structure

#### Partner metropolitan regions and areas



#### Potential observer metropolitan regions and areas





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## **Project management**

- |   |                   |   |
|---|-------------------|---|
| 1 | Lead partner      | Partnership leadership and relations<br>European relations<br>Inception, Synthesis events and Conference                  |
| 1 | METREX            | Network outcomes (Mitigation Benchmark)<br>and dissemination<br><a href="http://www.euco2.org">www.euco2.org</a> web site |
| 8 | Steering partners | 8 IMG steering partners<br>IMG Workshop programme   |
| 2 | Practice partners | Mitigation/adaptation measures research   |

**12**

**Project Steering Group**





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**Project activities and roles**

**Partners** GRIP model data inputs  
Representative and local stakeholder group formation (8)

**Steering Partners** GRIP model emission assessment Workshops  
GRIP process scenario Workshops  
GRIP process strategy Workshops

**All facilitated and recorded by the Tyndall Centre**

**Lead Partner** Inception/GRIP briefing and training  
Synthesis of emission assessments  
Synthesis of scenarios/strategies  
Dissemination Conference - Hamburg

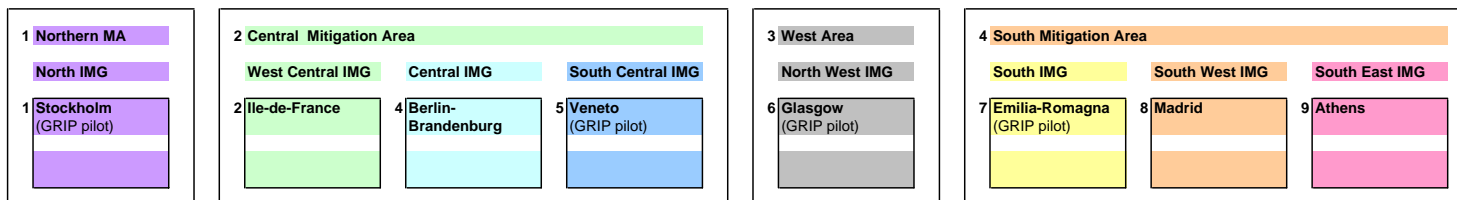
**All facilitated by the Lead Partner**



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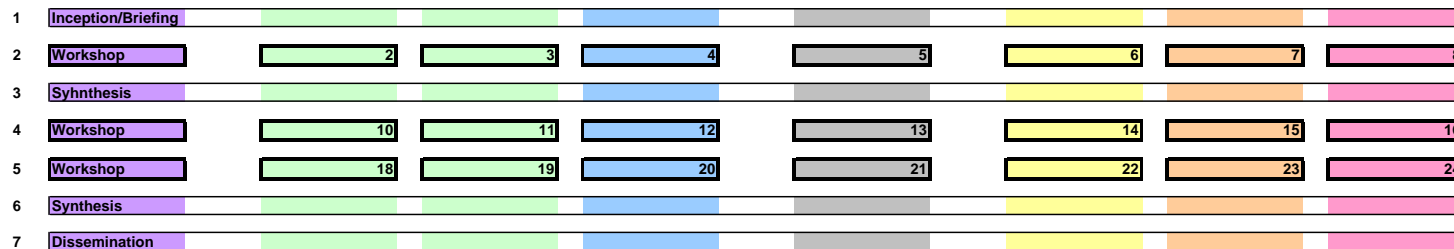
#### Partner metropolitan regions and areas



#### Potential observer metropolitan regions and areas



#### Project structure - 7 project activities

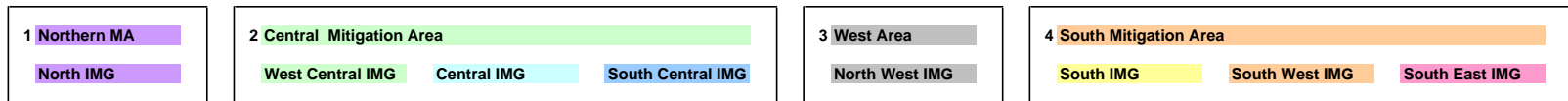




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EUCO2 80/50 Partnership and potential observers - Mitigation Areas (MA) and Interregional Mitigation Group (IMG) Workshop structure

### Partner metropolitan regions and areas



### Project structure - 7 project activities

1	Inception/Briefing							
2	Assessments 8 Metropolitan stakeholders	2	3	4	5	6	7	8
3	Syhnthesis							
4	Scenarios 8 Metropolitan stakeholders	10	11	12	13	14	15	16
5	Strategies 8 Metropolitan stakeholders	18	19	20	21	22	23	24
6	Synthesis							
7	Dissemination							



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## **Project structure, outcomes and outputs**

24 Emission Assessment/Inventory Case Studies

24 Mitigation Scenario Case Studies

24 Mitigation Strategy Case Studies

**1 Metropolitan Mitigation Benchmark**



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**Partner costs and net costs**

	€k	€k 75%	€k 85%
Staff costs - 140 days @ €500	70	52.5	
Travel and accommodation	28	21	
Other costs (Workshop expenses)	13	9.75	
Tyndall costs	34	25.5	
<b>Totals</b>	<b>145</b>	<b>108.75</b>	<b>123.25</b>
<b>Net costs</b>		<b>36.25</b>	<b>21.75</b>

€1.2k per month over 30 months





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