



North East South West  
**INTERREG IIC**



**PROJECT PART-FINANCED  
BY THE EUROPEAN UNION**

**METREX**



The **network** of  
European Metropolitan Regions and Areas



**grip** for Europe  
The Greenhouse Gas Regional Inventory Project

**Tyndall°Centre**  
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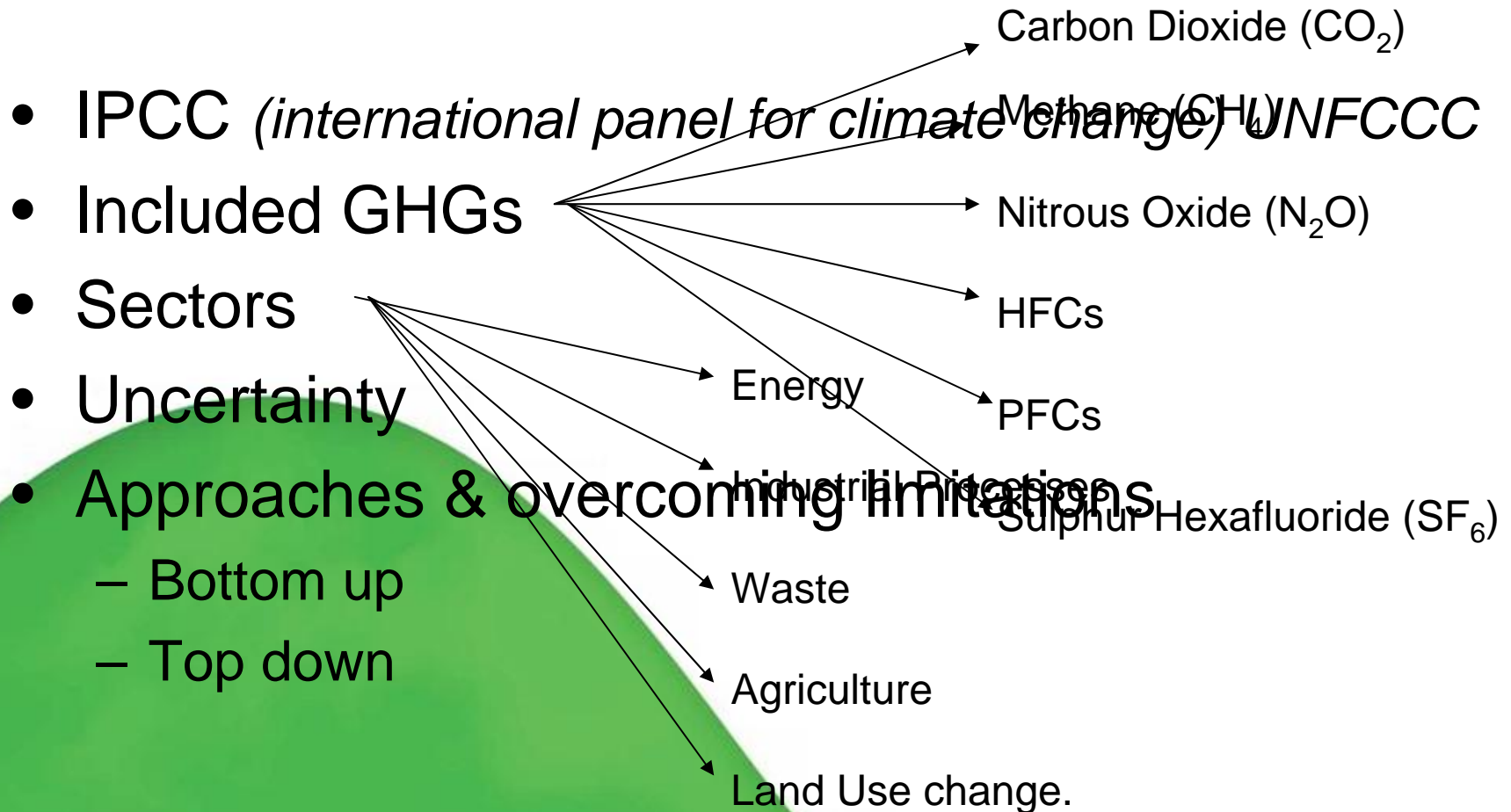
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# Part 1: Emissions Inventory



# Inventory Tool

**The Greenhouse Gas Regional Inventory Project**

Menu Options

This allows you to load and save your progress

The red boxes are for the Level 3 methods, these must be completed

The orange boxes are for the Level 2 methods

The green boxes are for the Level 1 methods, completing these will yield more accurate results

This tells you how far through the inventory programme you have progressed

|                                       | Region               | National             |      |
|---------------------------------------|----------------------|----------------------|------|
| Total GDP or GVA                      | <input type="text"/> | <input type="text"/> | GDP  |
| Population                            | <input type="text"/> | <input type="text"/> | POP  |
| Household                             | <input type="text"/> | <input type="text"/> | HH   |
| Cars Registered                       | <input type="text"/> | <input type="text"/> | CAR  |
| Flight take off                       | <input type="text"/> | <input type="text"/> | FLT  |
|                                       |                      |                      |      |
| GVA by Sector                         | <input type="text"/> | <input type="text"/> |      |
| Iron and Steel                        | <input type="text"/> | <input type="text"/> | ISC  |
| Non-Ferrous Metals                    | <input type="text"/> | <input type="text"/> | MF   |
| Chemicals                             | <input type="text"/> | <input type="text"/> | CHMI |
| Paper, Pulp & Print                   | <input type="text"/> | <input type="text"/> | PP   |
| Food & Beverages                      | <input type="text"/> | <input type="text"/> | FOB  |
| Other                                 | <input type="text"/> | <input type="text"/> | OTH  |
| Agriculture                           | <input type="text"/> | <input type="text"/> | AG   |
| Services (commercial / institutional) | <input type="text"/> | <input type="text"/> | SER  |
| Expenditure on Fuels per HH           | <input type="text"/> | <input type="text"/> | EFF  |
| Miles or Km Travelled per person      |                      |                      |      |
| Car                                   | <input type="text"/> | <input type="text"/> | IPC  |
| Train                                 | <input type="text"/> | <input type="text"/> | IPR  |
| Plane                                 | <input type="text"/> | <input type="text"/> | IPP  |
| Tonnes of Waste per Household         | <input type="text"/> | <input type="text"/> | THW  |
| Waste                                 |                      |                      |      |
| % Landfilled                          | <input type="text"/> | <input type="text"/> |      |
| % Incinerated                         | <input type="text"/> | <input type="text"/> |      |
| % Recycled                            | <input type="text"/> | <input type="text"/> |      |

Progress: 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

# Emissions Industry

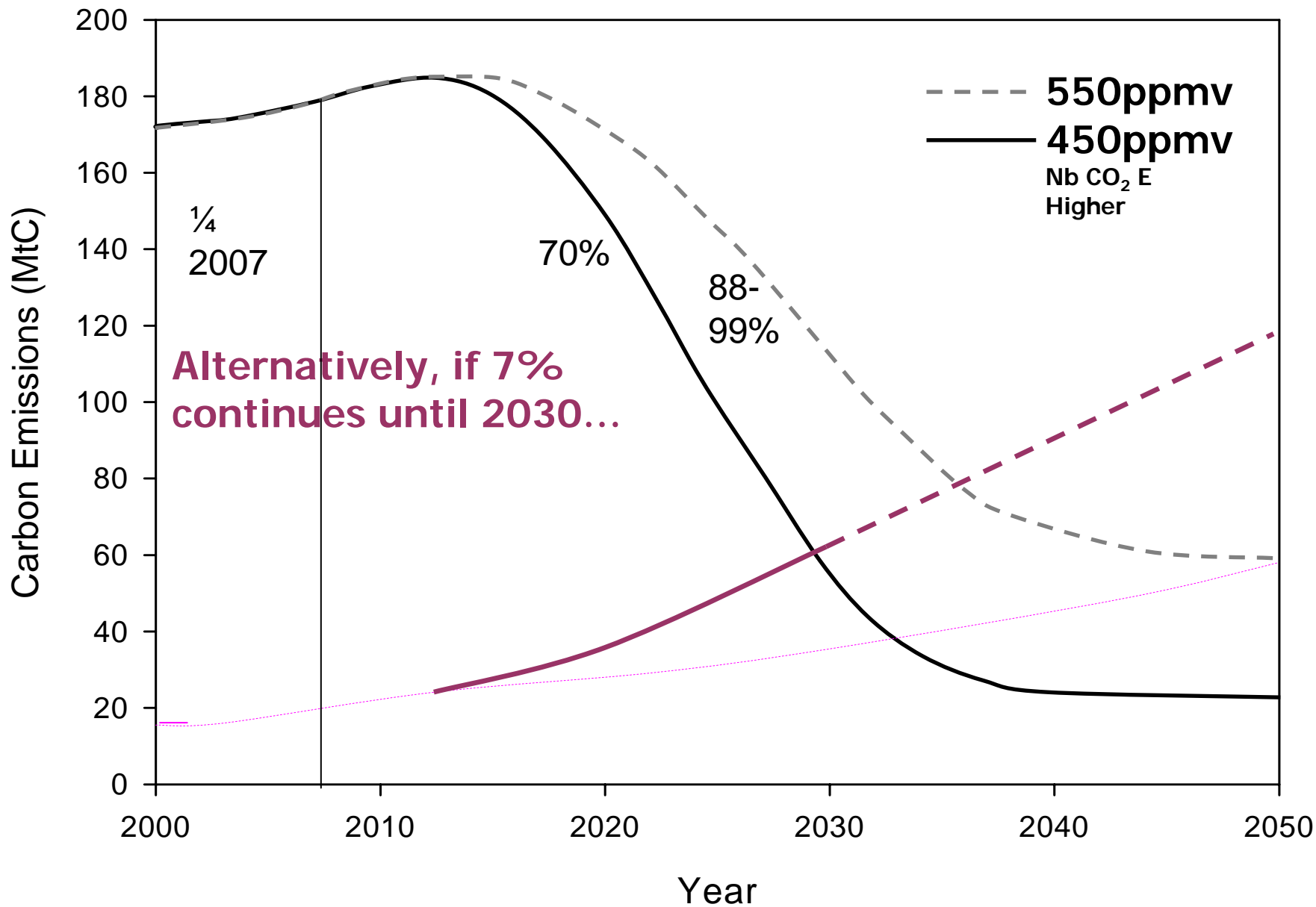
|                      | Consumption (t) | Glasgow            |                     | Stockholm          |                     | Bologna            |                     | Veneto             |                     |
|----------------------|-----------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|
|                      |                 | Kt CH <sub>4</sub> | Kt N <sub>2</sub> O | Kt CH <sub>4</sub> | Kt N <sub>2</sub> O | Kt CH <sub>4</sub> | Kt N <sub>2</sub> O | Kt CH <sub>4</sub> | Kt N <sub>2</sub> O |
| Enteric Fermentation |                 | 12.48              |                     | 3.1                |                     | 12.9               |                     | 88                 |                     |
| Milking & Heat       | 2,230           | 1.76               |                     | 0.043              |                     | 2.7                |                     | 15.11              |                     |
| Gas                  | 1,412           |                    |                     |                    |                     |                    |                     |                    |                     |
| Animal Waste         | 3               |                    | 0.07                |                    | 0.03                |                    | 0.2                 |                    | 1.21                |
| Solid Management     | 9               |                    |                     |                    |                     |                    |                     |                    |                     |
| Liquid               | 71              |                    |                     |                    |                     |                    |                     |                    |                     |
| Agricultural Soils   | 3,730           |                    | 1.3                 |                    | 0.47                |                    | 1.2                 |                    | 7.95                |
| Total                | 18,193          | 4,666              |                     |                    |                     |                    |                     |                    |                     |
| Households           | 786             | 768.24             | 1.37                | 880,000            | 0.5                 | 455,600            | 1.4                 | 108,521,900        | 09.16               |
| Beef Cows            | 23              | 57.24              | 16.44               | 2201.36            | 20.67               | 676.24.9           | 25.65               | 65,004             | 5.7                 |
| Population           |                 | 1,747              |                     | 1,900              |                     | 915                |                     | 4,700              |                     |
| Per Capita           |                 | 10.4               | 2.67                | 7.65               | 0.63                | 10.23              | 2.47                | 10.12              | 2.3                 |

# Part 2: Where to then?

- Where we are, and where we want to be...
- But how do we get there...
- Numbers are important
- Individual understanding is important
- Undershooting....



# 450 and 550ppmv for UK Carbon Emissions





# The Scenario Tool – Original

- To blend quantitative and qualitative discussions on climate change mitigation
- To develop discussion with policy makers / influencers from different subjects to discuss “trade offs”
- Important as, in the first run in NW England half of policy makers futures did not meet a 60% reduction.
- E.g. Given the uncertainty.... Do we mitigate to 2 degrees, adapt to 4 degrees?
- Decentralised Energy – An electricity example

## Example of domestic lighting



*... carbon reductions from reducing demand could dwarf reductions from low-carbon supply in all but the long term!*

- The Original Scenario Tool
- Available at: [www.grip.org.uk](http://www.grip.org.uk)
- The Inventory tool  
[www.carboncaptured.org.uk](http://www.carboncaptured.org.uk)

- Questions?

