North East South West
INTERREG IIIC

PROJECT PART-FINANCED
BY THE EUROPEAN UNION

METREX
The network of
European Metropolitan Regions and Areas

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The Greenhouse Gas Regional Inventory Project

CO_2 80/50

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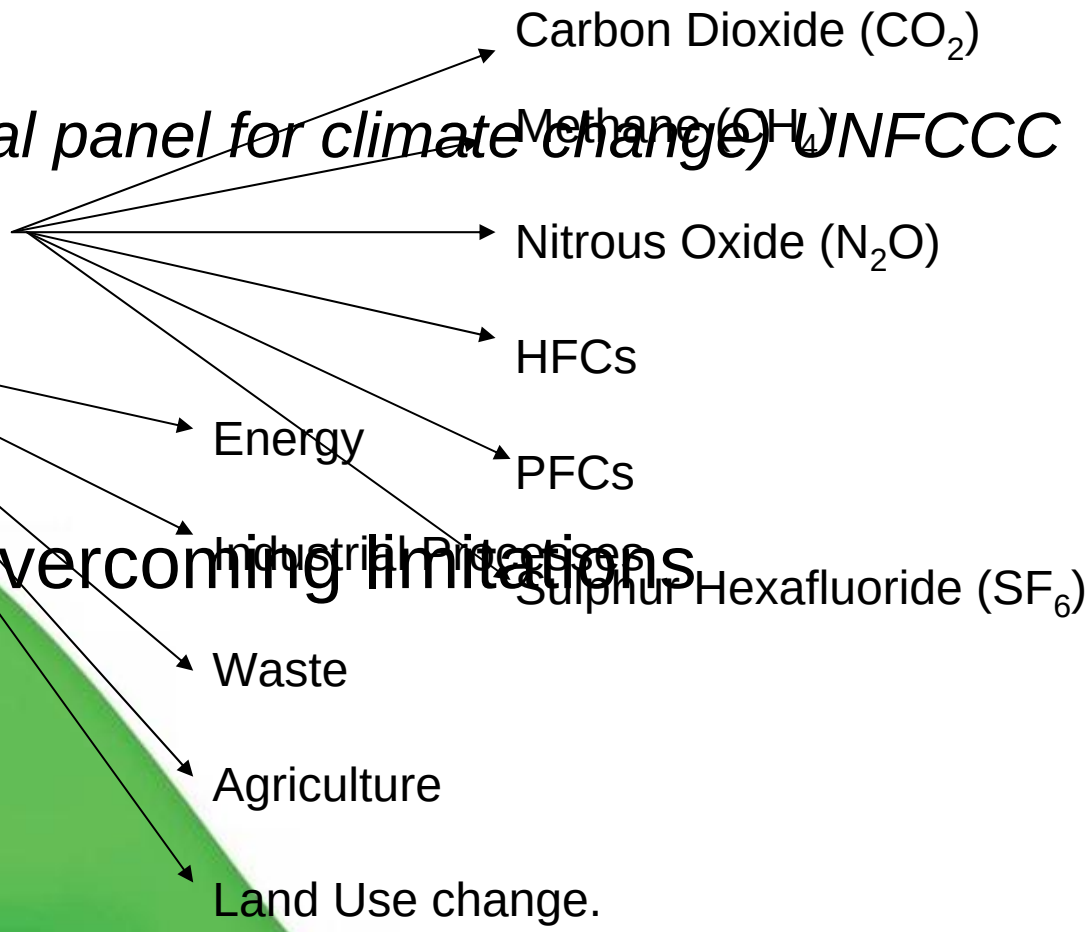
Part 1: Emissions Inventory

- IPCC *(international panel for climate change)* UNFCCC
- Included GHGs
- Sectors
- Uncertainty
- Approaches & overcoming limitations
  - Bottom up
  - Top down



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Inventory Tool

Emissions Industry

		Glasgow		Stockholm		Bologna		Veneto	
		Kt CH_4	Kt N_2O	Kt CH_4	Kt N_2O	Kt CH_4	Kt N_2O	Kt CH_4	Kt N_2O
Enteric Fermentation	Cons ((	12.48		3.1		12.9		88	
Manure Management	Heavy Heat	2,230	1.76		0.043		2.7		15.11
	Gas	1,412							
	Solid	1							
	Liquid	71							
Animal Waste Management			0.07		0.03		0.2		1.21
Agricultural Soils			1.3		0.47		1.2		7.95
Total		3,730	4,666						
Households		786,768	64.24	1.37	880,000	0.5	455,600	1.4	1,852,900	9.16
Per Household		23	5.24	16.44	2.01	1.36	20.6	24.9	25.6	5,004	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

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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….

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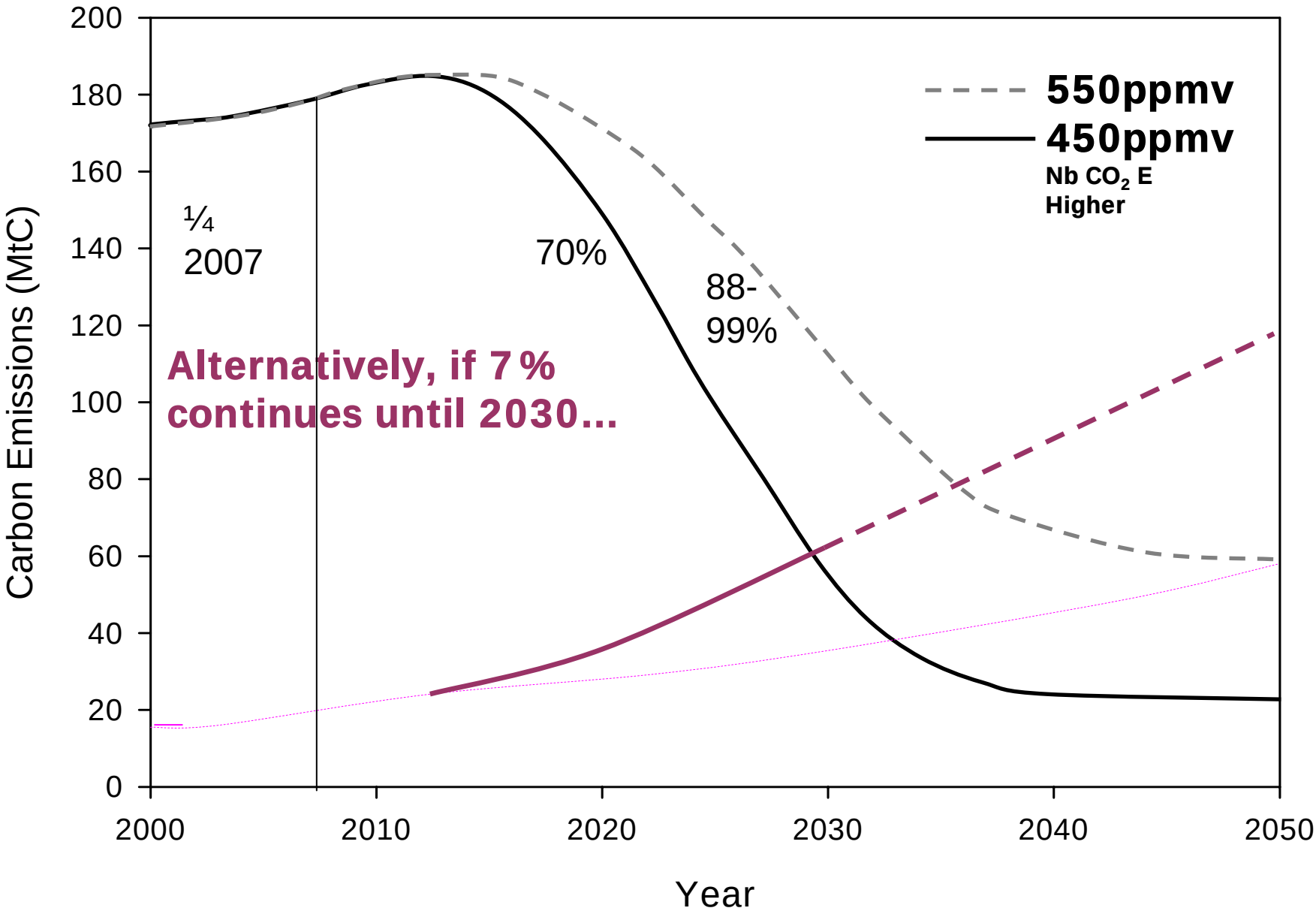
450 and 550ppmv for UK Carbon Emissions



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

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Example of domestic lighting

Light	*Electricity Consumption*	*Transmission*	*Powerstation*	*Fuel Production, Extraction &Transport*
10	*50*	*54*	*120*	*133*

… 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
- The Inventory tool www.carboncaptured.org.uk

- Questions?