

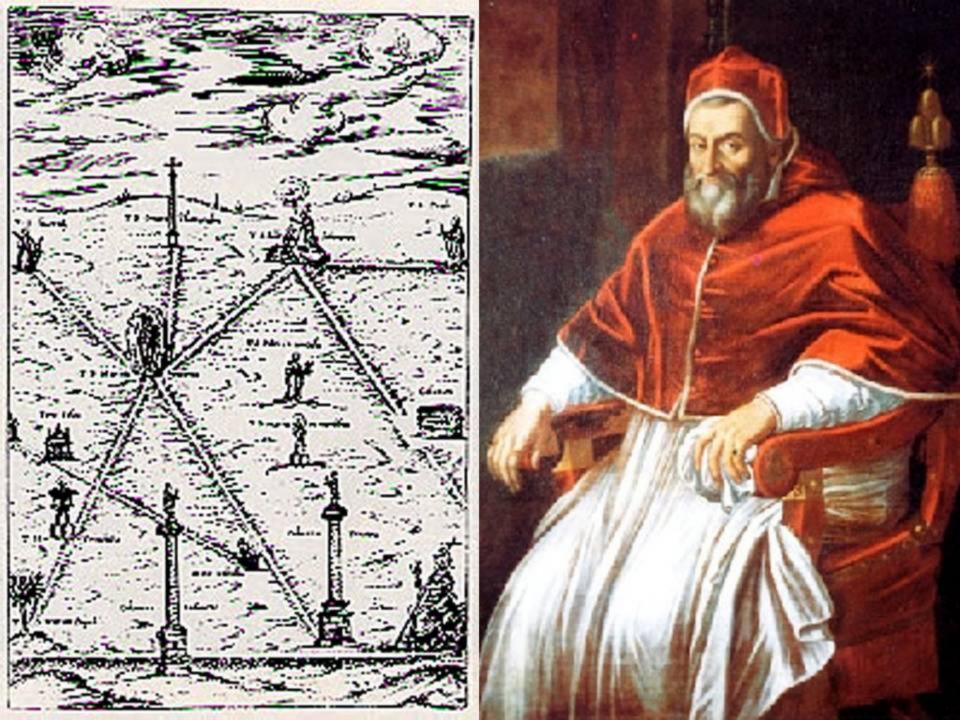
City Trends



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1 What kind of City









2 City Trends

We are in the "urban millennium"

Population

In 2007 ~50% of the world's population was living in cities, an increase from 3.5 B to 4.7 B until 2030

Powerhouses

Urban millennium

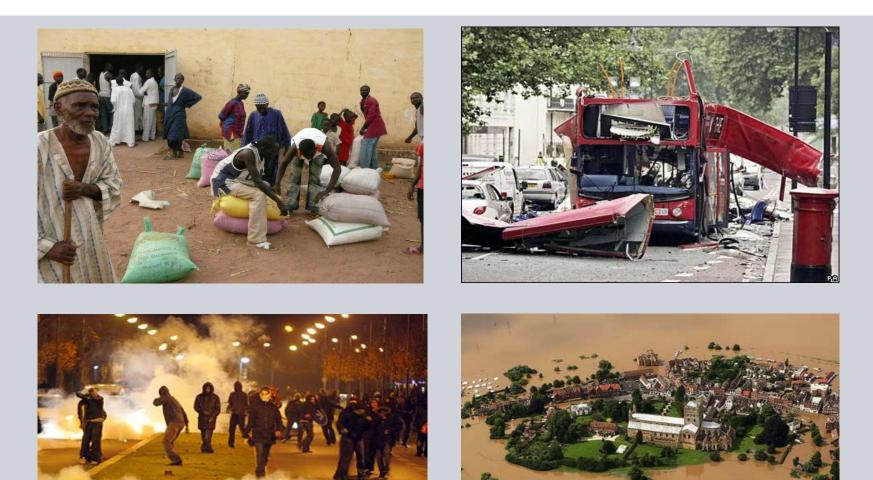
50% of world GDP is produced in cities with a population over 750 K

Major energy and climate factor

75% of energy consumed in cities 80% of CO² emissions are produced in cities

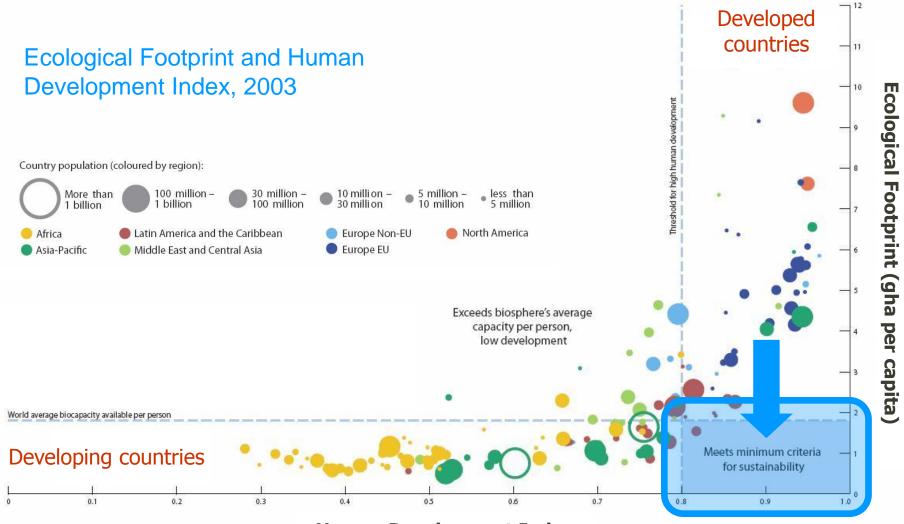


The 21st Century will effect the ways we live...



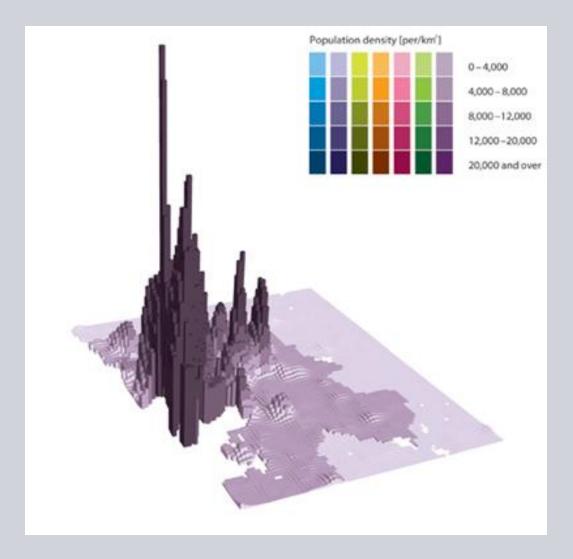
Cities are thrilling, exciting, creative, liberating, cruel and inhuman





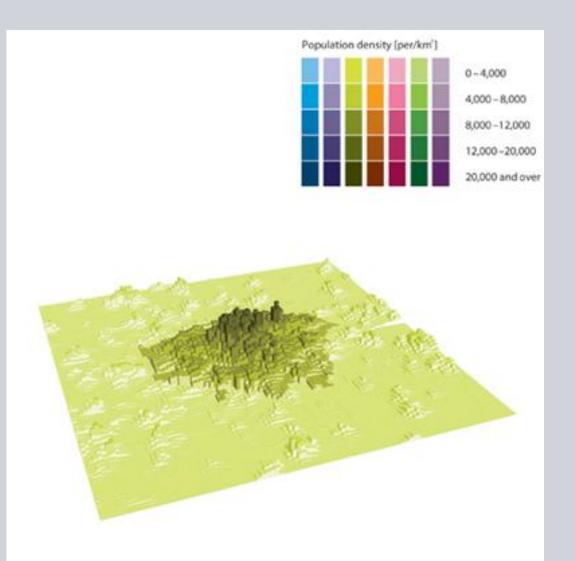
Human Development Index

Mumbai - 34,000 people per km (sq)



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London - 4500 people per km (sq)

















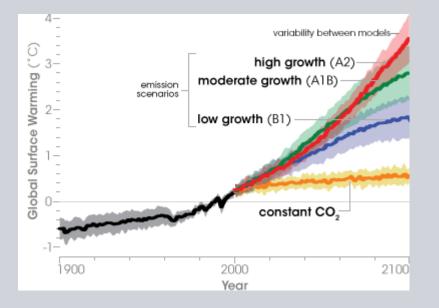
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Future Scenarios

• Surface temperature of the Earth is likely to increase by 1.1-6.4°C by the end of the 21st century, with a best estimate of 1.8-4.0°C.



•The average rate of warming over each inhabited continent is very likely to be at least twice as large as that experienced during the 20th century.

•Most of North America; all of Africa, Europe, northern and central Asia; and most of Central and South America are likely to warm more than the global average.

The International Energy Agency's, the World Energy Outlook, has been sounding strong warnings to policymakers for some years now. This year, for the first time, it has put a deadline to its warnings: -

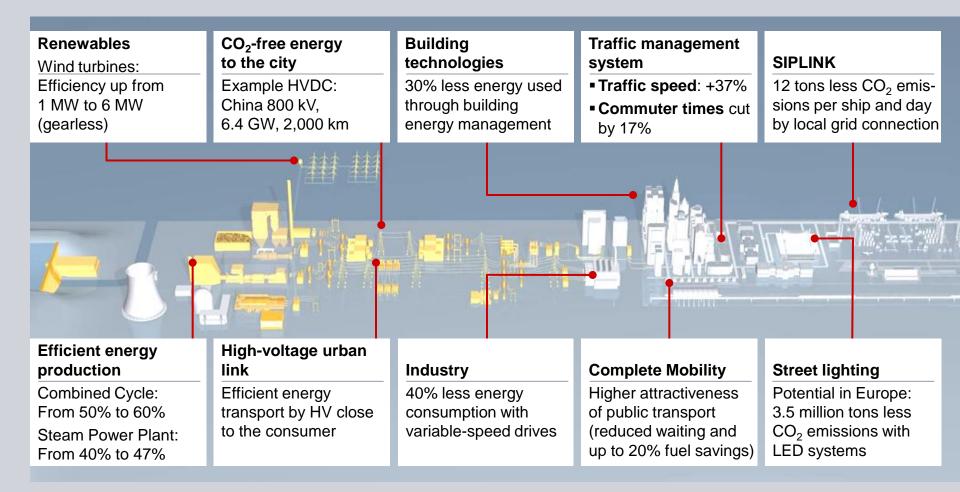
by 2017, if present trends continue, the world will be locked into a 2°C temperature rise.

3 Meeting the Challenge

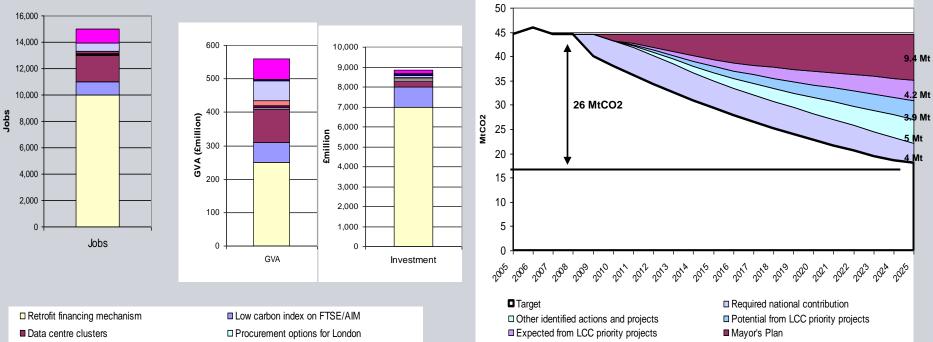
Sustainable Green Growth – Energy efficiency in the city



Existing technology achieves high gains in efficiency and CO² abatement



The projects with the greatest economic benefits



- Early stage project underwrite
- Emissions Management tool
- Low carbon innovation clusters

- National Centre for Carbon Measurement
- Carbon management for infrastructure project



4 Rethinking Required

Cities offer huge growth potential and need pioneering solutions to solve their problems



- How to get enough electric power, ... how to bring enough goods into the city?
- How to manage the ever increasing traffic?
- How to reduce the energy consumption ... and emissions?
- How to ensure security and safety of people?
- How to finance all this?



From closed island solutions and single products to cross-linked intelligent infrastructure solutions





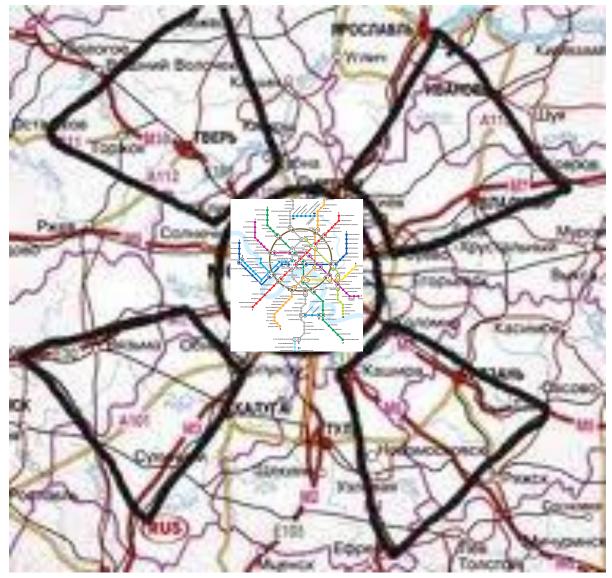


Moscow







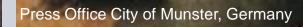








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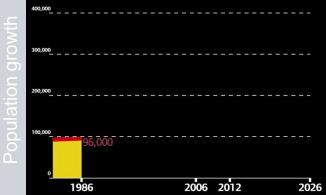


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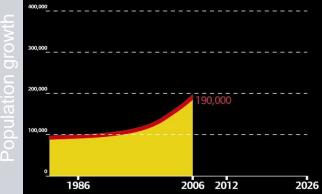


Smart Growth

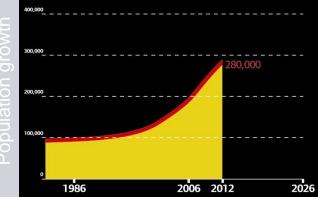




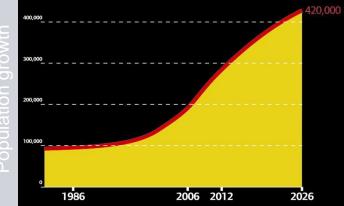




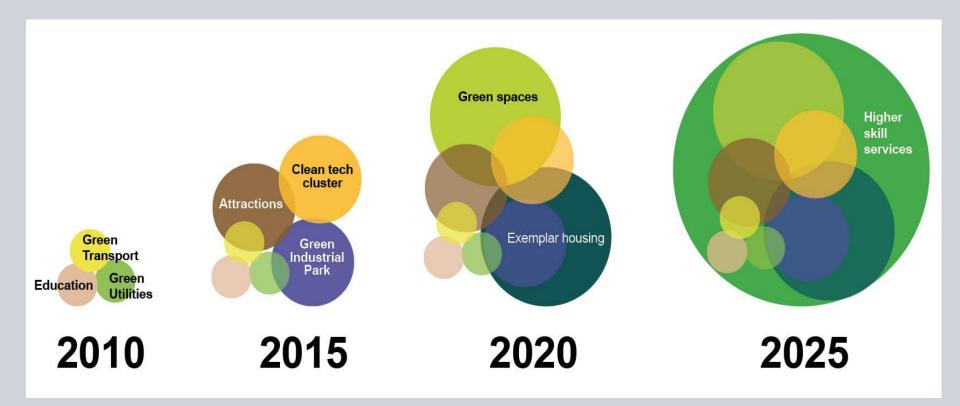


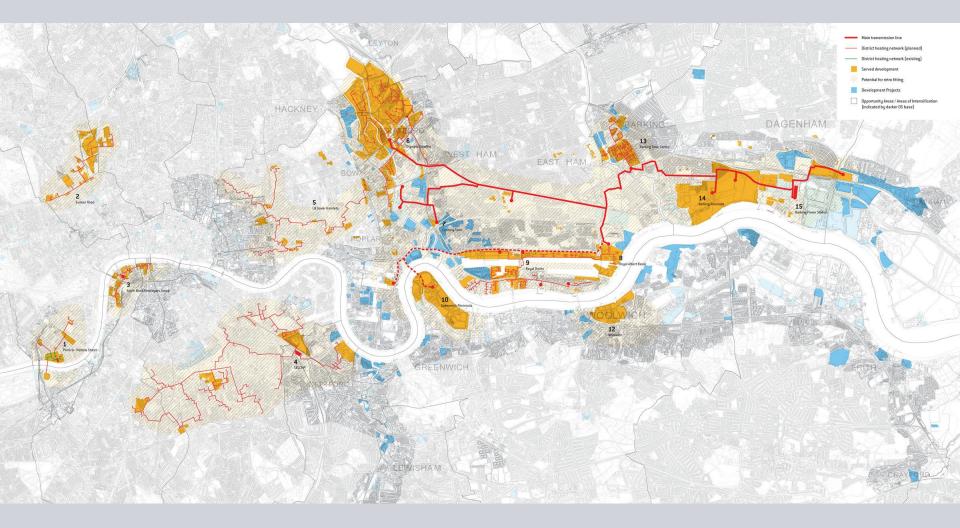


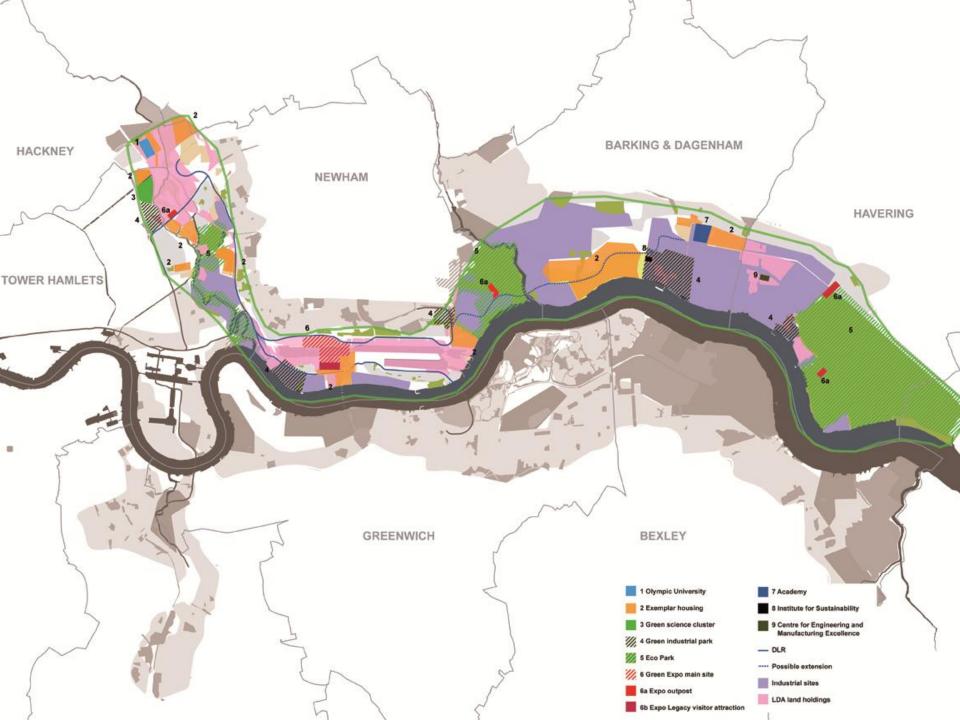




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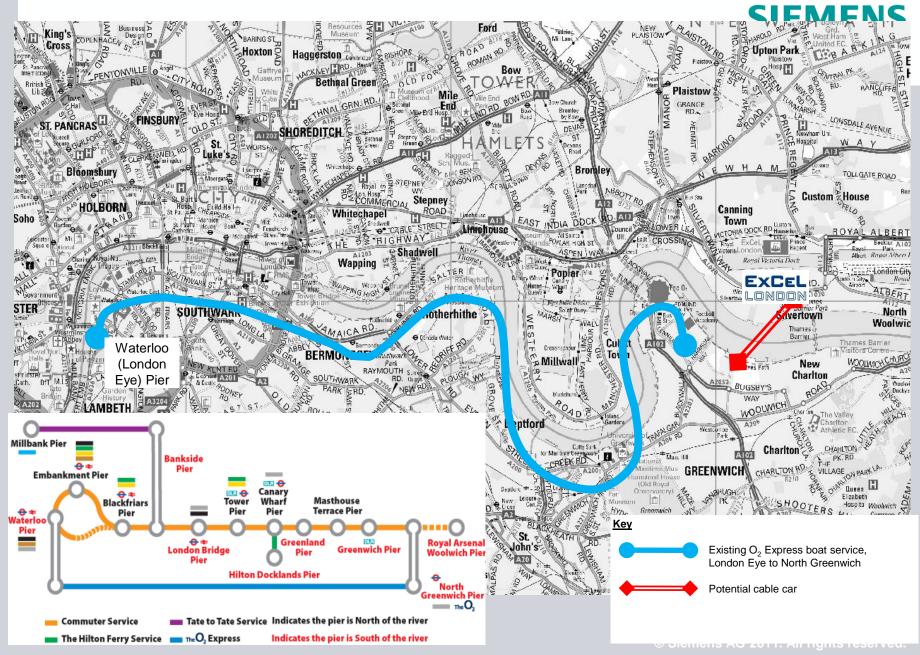






Strong structuring vision to deal with complexity of issues







Integrated Strategies

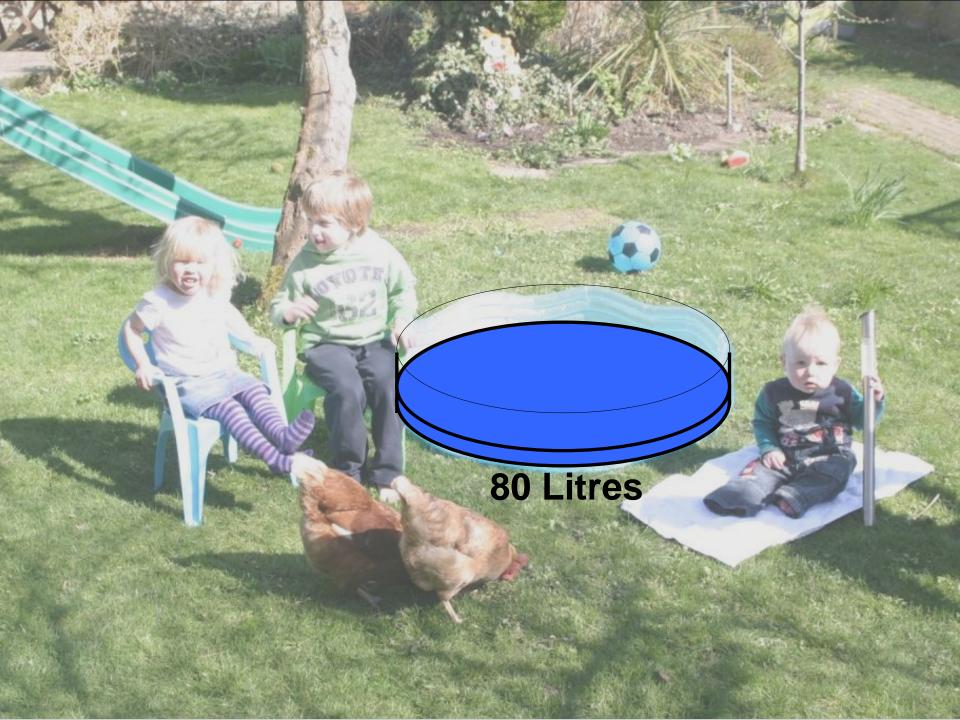
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- Energy & Climate Change
- Air Quality
- Municipal Waste
- Business Waste
- Adaptation
- Water
- Biodiversity
- Transport
- The Spatial Plan



6 The Final Challenge





Thank You!

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