

Future Cities: Innovation, Investment and Transformation.

Professor Sir David King

UK Foreign Secretary's Special Representative for Climate Change
Chair, Future Cities Catapult, UK



29th September 2014

University of Havana,

Cuba

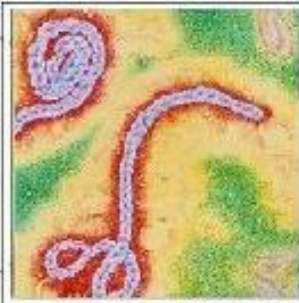
Foresight projects



**Mental Capital
and Wellbeing**



**Sustainable
Energy
Management
and the Built
Environment**



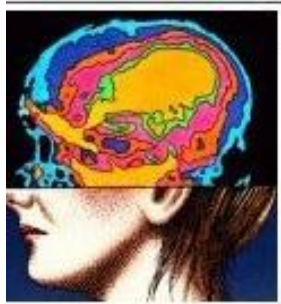
**Detection and
Identification of
Infectious
Diseases**



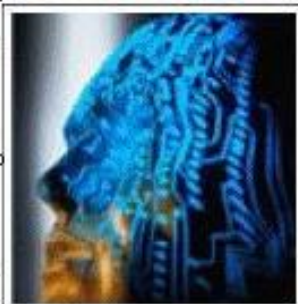
**Intelligent
Infrastructure
Systems**



**Tackling
Obesities:
Future Choices**



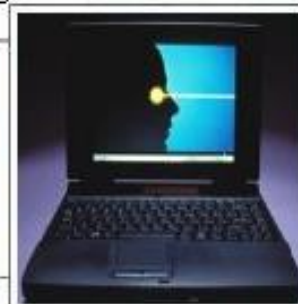
**Brain Science,
Addiction and
Drugs**



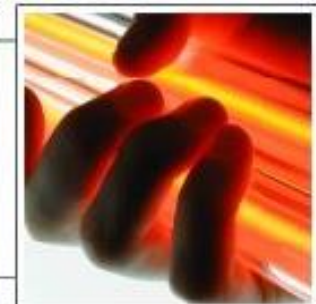
**Cognitive
Systems**



**Flood and
Coastal
Defence**

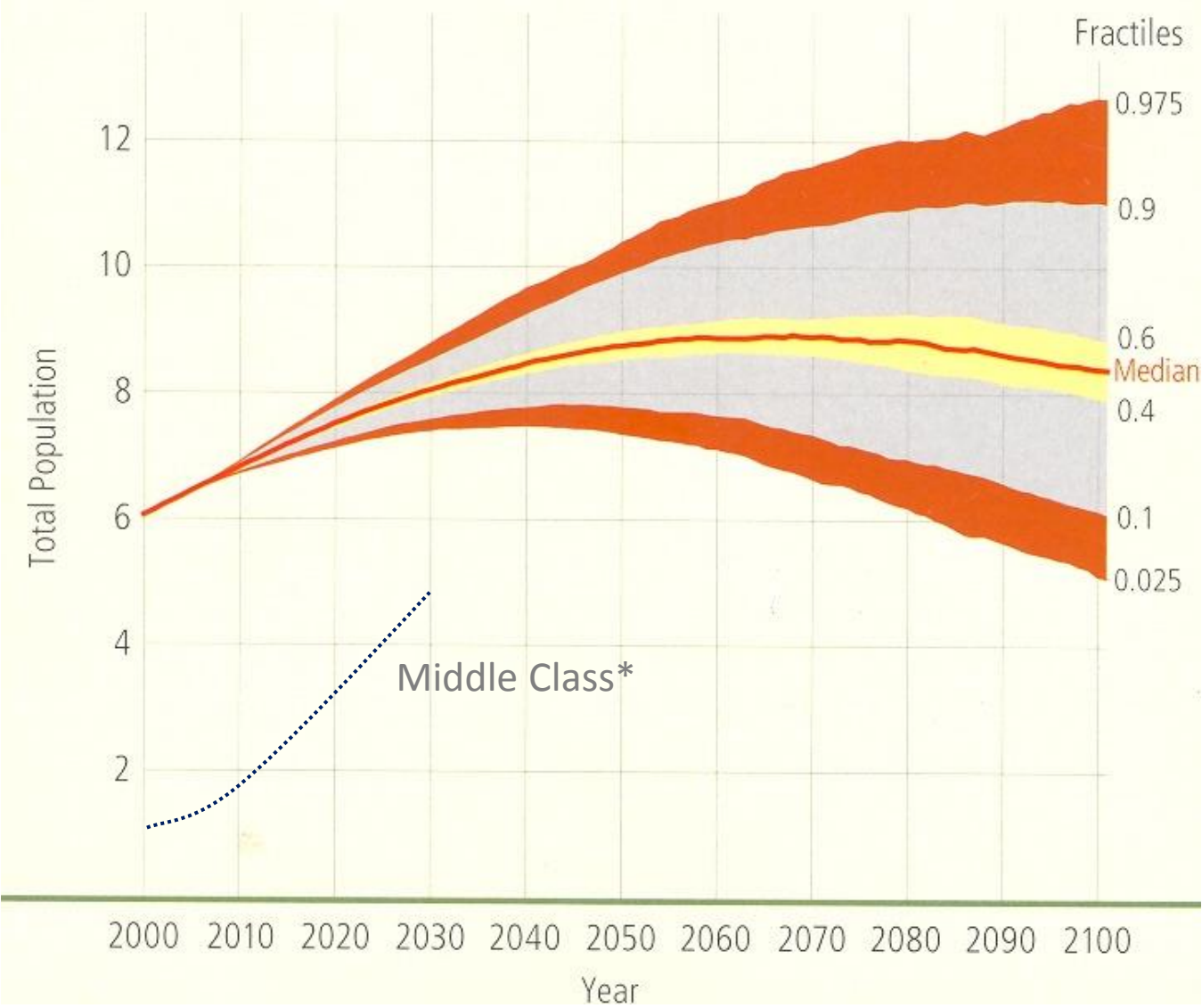


**Exploiting the
Electromagnetic
Spectrum**



**Cyber Trust and
Crime Prevention**

Total Population of the World in Billions



*Middle class here defined as daily per capita spending of between \$10 and \$100 in PPP terms

An aerial photograph of a city, likely New York City, viewed through a grid of window panes. The grid is a light blue color and creates a perspective effect, making the city below appear to be seen through a series of rectangular frames. The city buildings are in shades of brown, grey, and white, with some greenery visible. The sky is a clear, pale blue.

2008 > 50%

2050 > 70%

21st Century Challenges

Minerals



Food production



Climate change



Conflict and terrorism



Demographics –
the driver

Ecosystems



Water resource



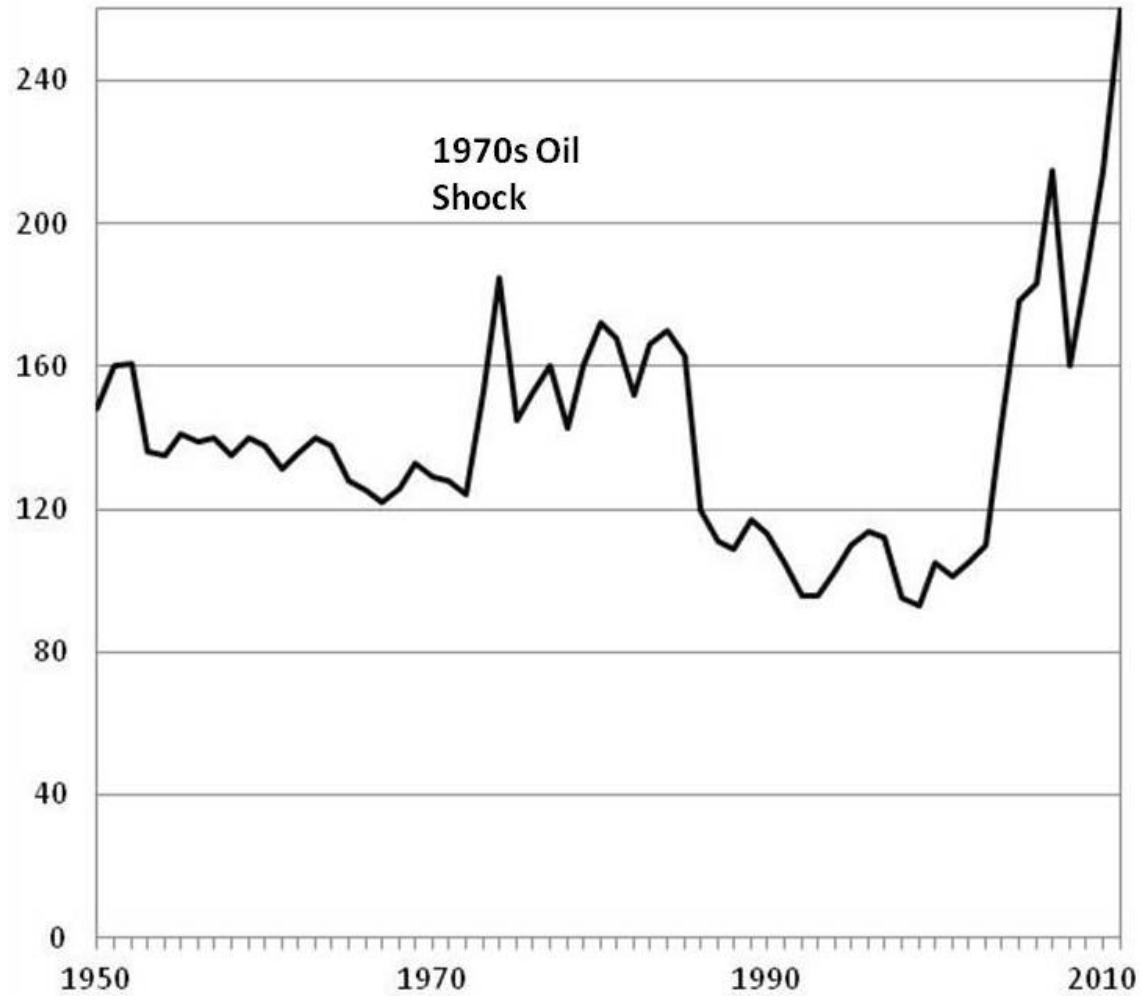
Health and development



Energy security and supply



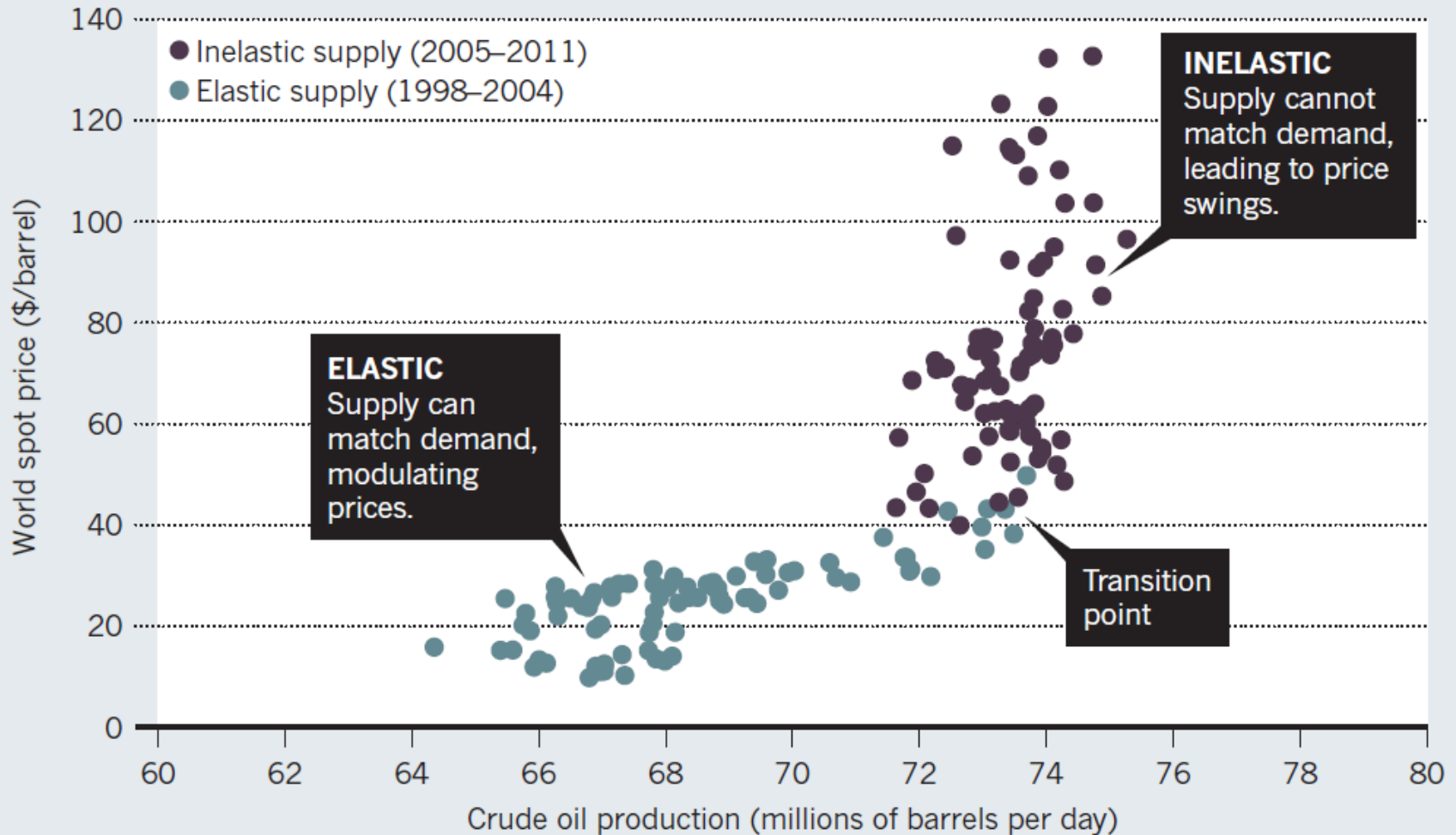
MGI Commodity Price Index (years 1999-2001=100)



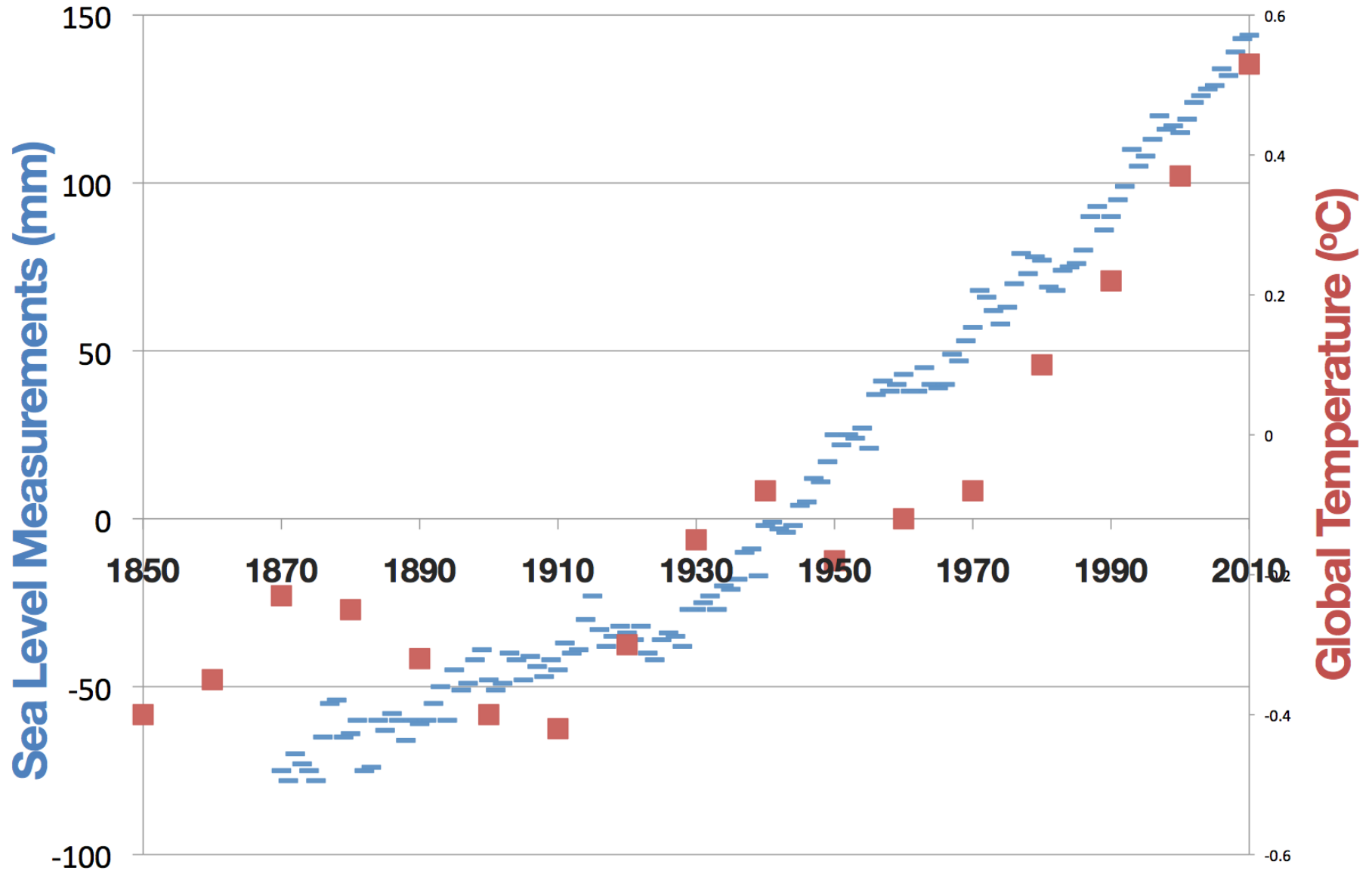
Crude Oil Price versus Crude Oil Production from 1998 to present

PHASE SHIFT

The abrupt change in oil economics can be seen in this scatter plot of production versus price.

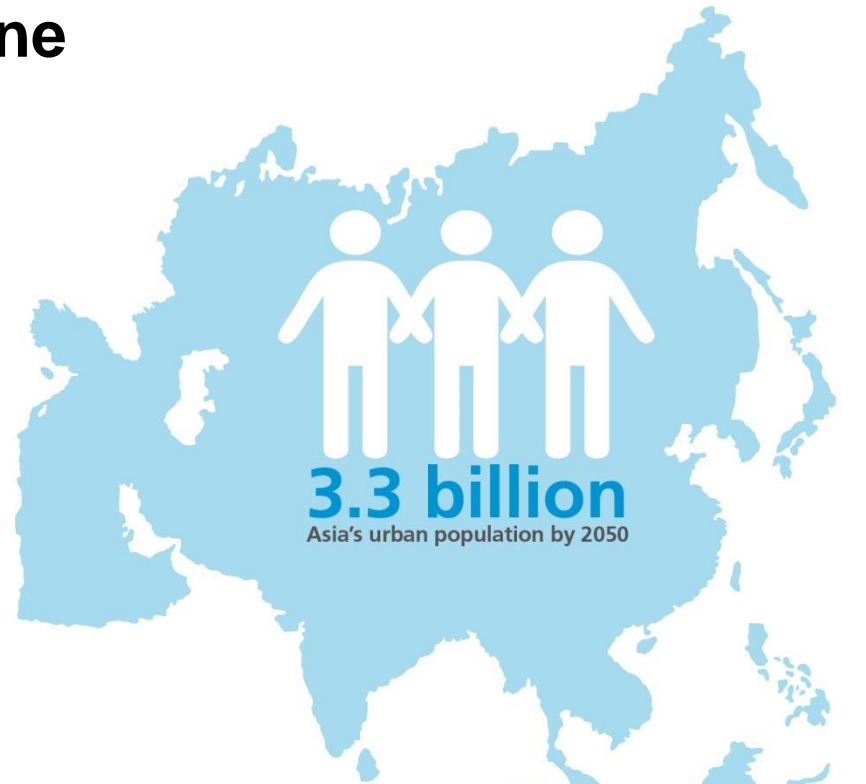
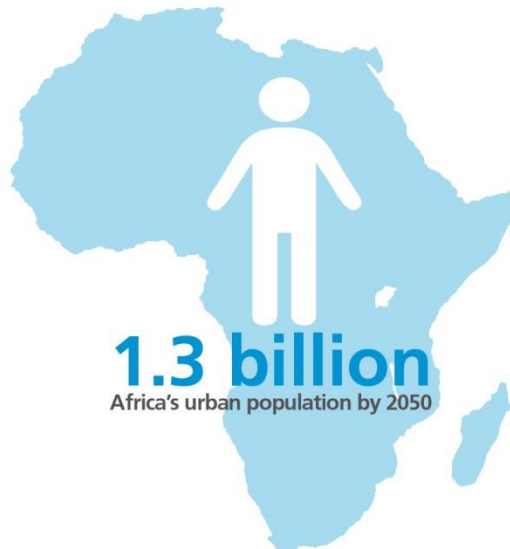


Sea Level and Temperature Measurements



Cities are on the frontline

Nexus of challenge is
the city - *cities in
developing world
face steepest
challenge*



**95% of the increasing
urban population will be
in developing countries –
mainly in smaller cities**

Energy & Urban Density

