



Beyond Copenhagen – The Green Race is on

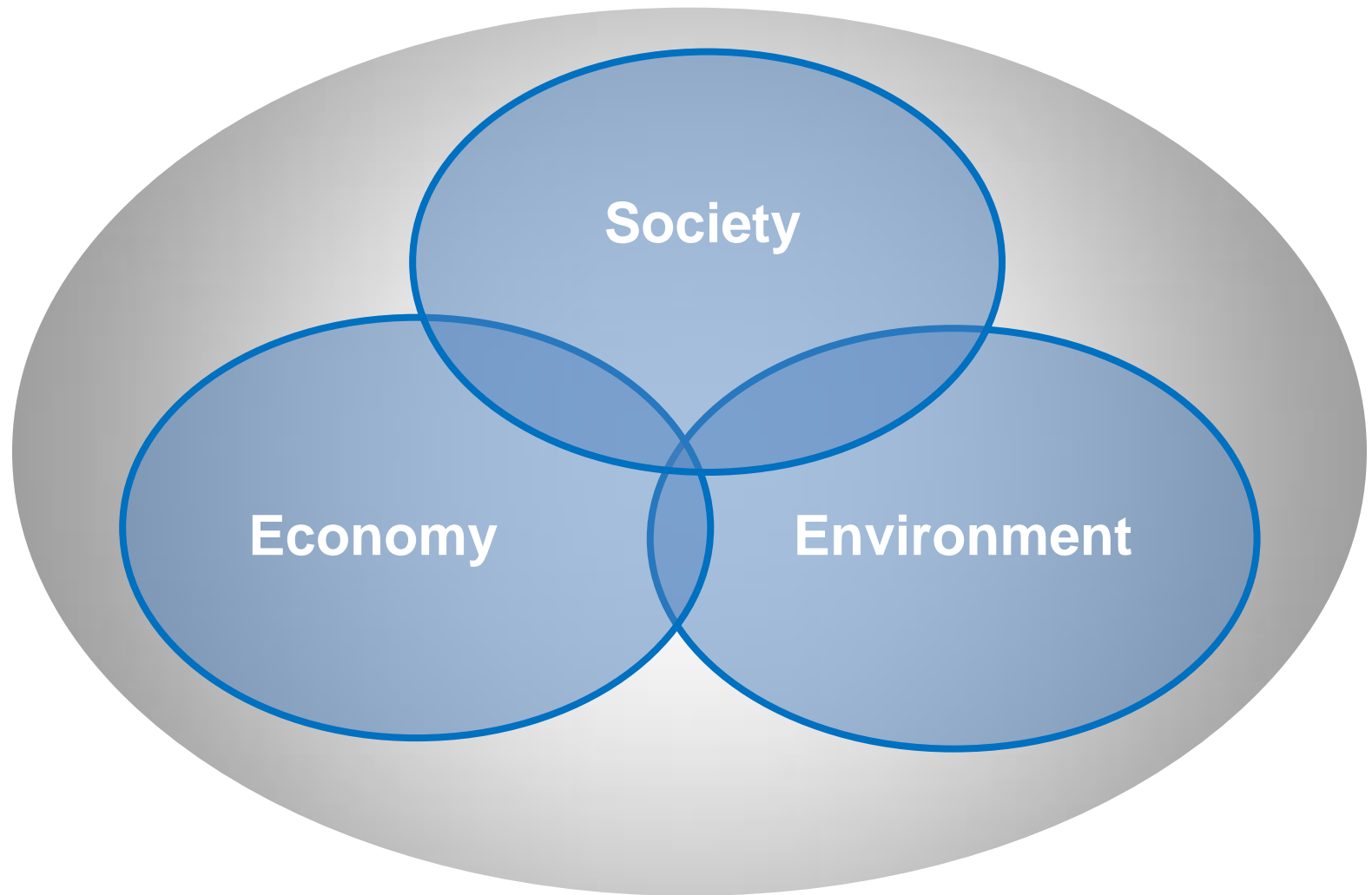
China Business Council for Sustainable Development
Trends in Sustainable Development
Björn Stigson, WBCSD President



World Business Council for
Sustainable Development



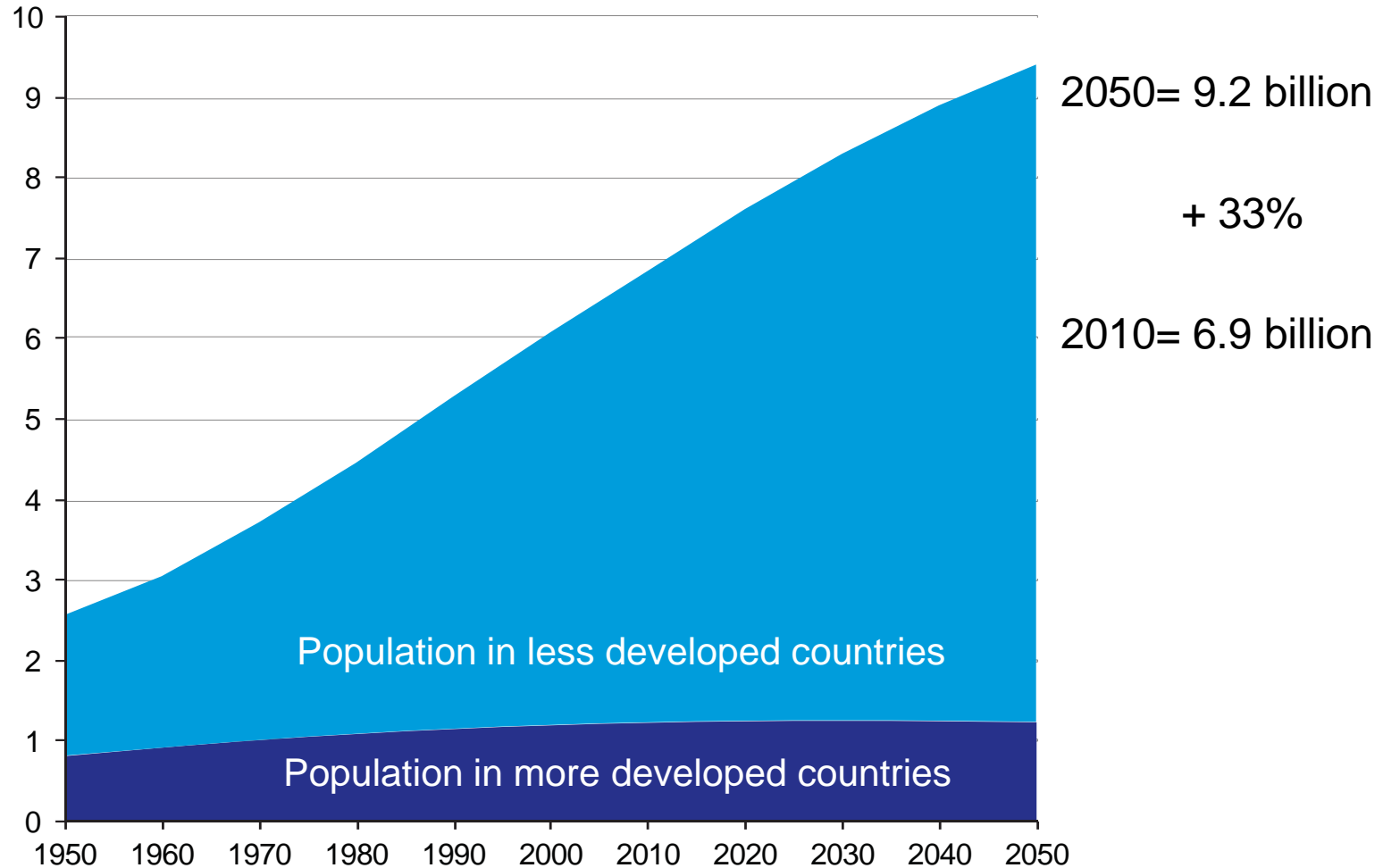
A World in Transition to Sustainability





The Future Society: A growth story

World population (in Billions): 1950-2050





Development: The Poverty Challenge

Income poverty:

- Over 2 billion people live on less than \$2/day

Energy poverty:

- 1.6 billion people today without access to electricity

Mobility poverty:

- 900 million people without access to transport

Water poverty:

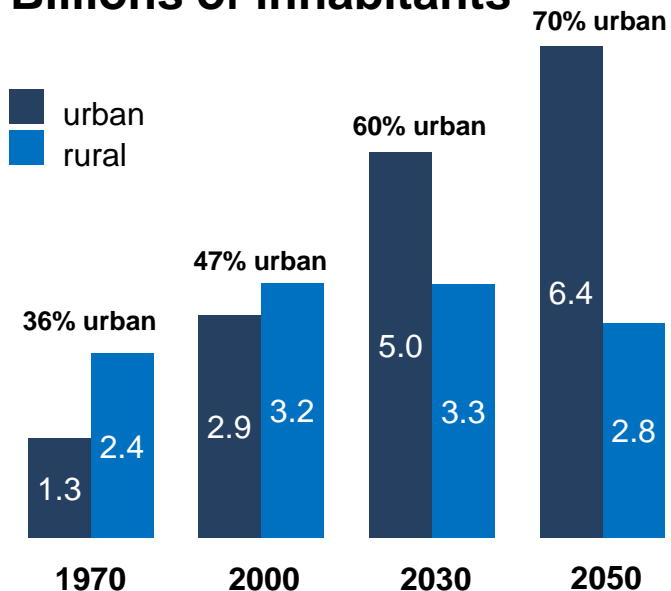
- 1.8 million deaths per year due to lack of sanitation, poor hygiene and unsafe drinking water.



Urban Future

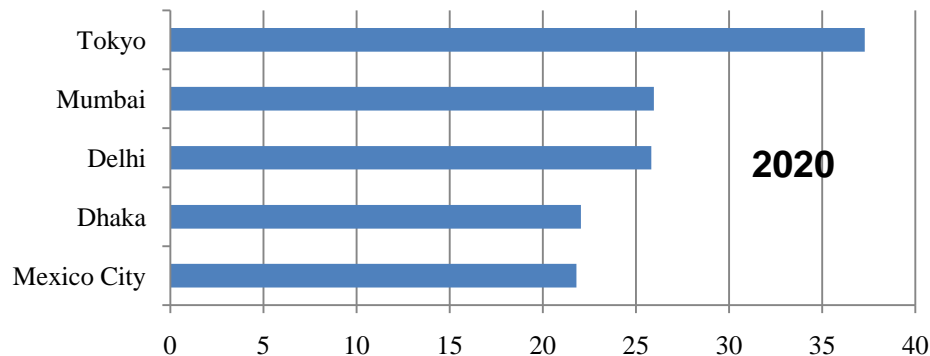
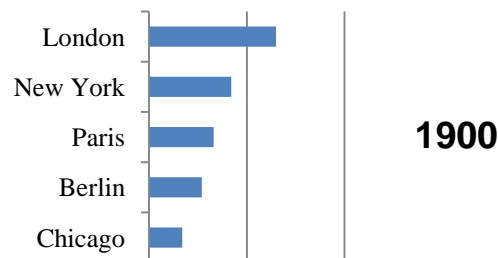
70% urban in 2050: 6 billion
2010: 3 billion

Billions of inhabitants



Source: United Nations, World Urbanization Prospects:
 The 2007 Revision

Growth of mega-cities

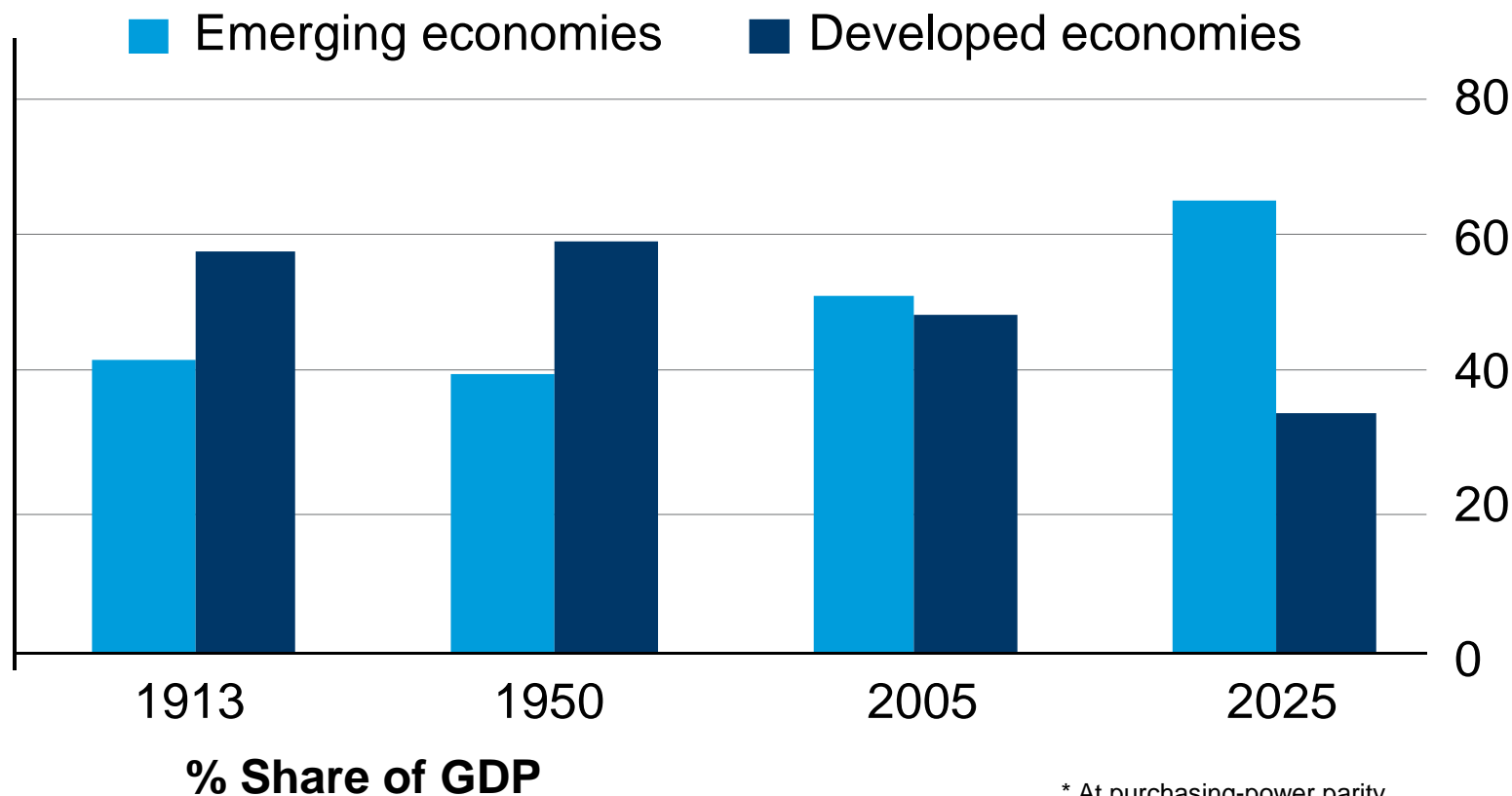


Source: Citymayors statistics, 2008



Shifting Fortunes

**Emerging economies > 50% of global GDP
and trend will continue**



Source: Angus Maddison, OECD, IMF
From The Economist print edition.
"Wrestling for Influence." July 3rd 2008.

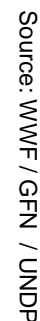


Vision 2050

Vision 2050: Nine billion people living well, and within the limits of the planet

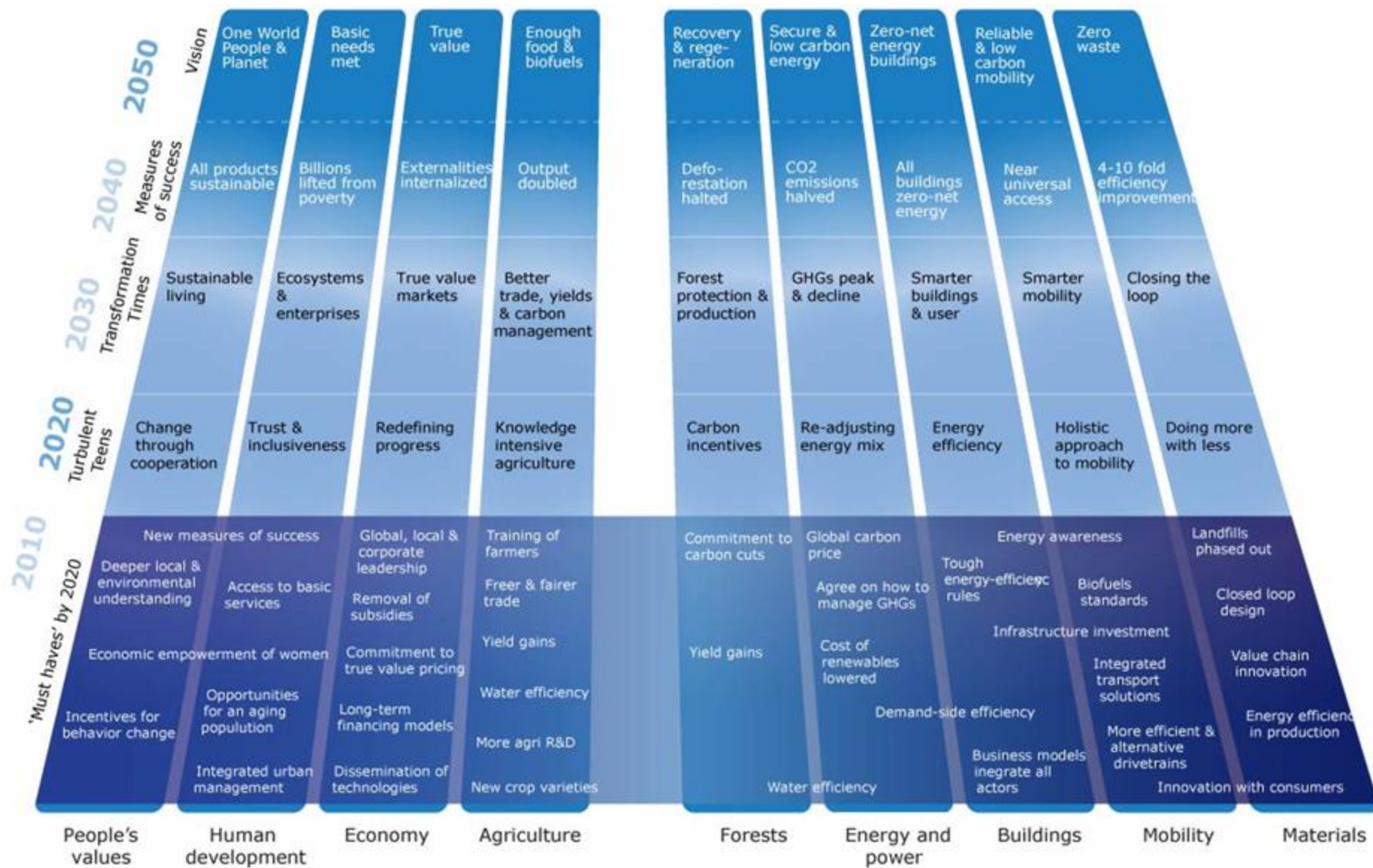
A platform for dialogue about the role of business in a resource & carbon constrained world.







Innovations & Transformations





The World is Turning Green

- “The Green Race is on” between countries to transform to low carbon economies and to become the leading supplier of resource efficient technologies & solutions
- If you want to win:
 - Transform your home market to build competences and scale



The World is Turning Green

■ Key transformations:

- Energy
- Transport
- Urban infrastructure
- Food
- Water

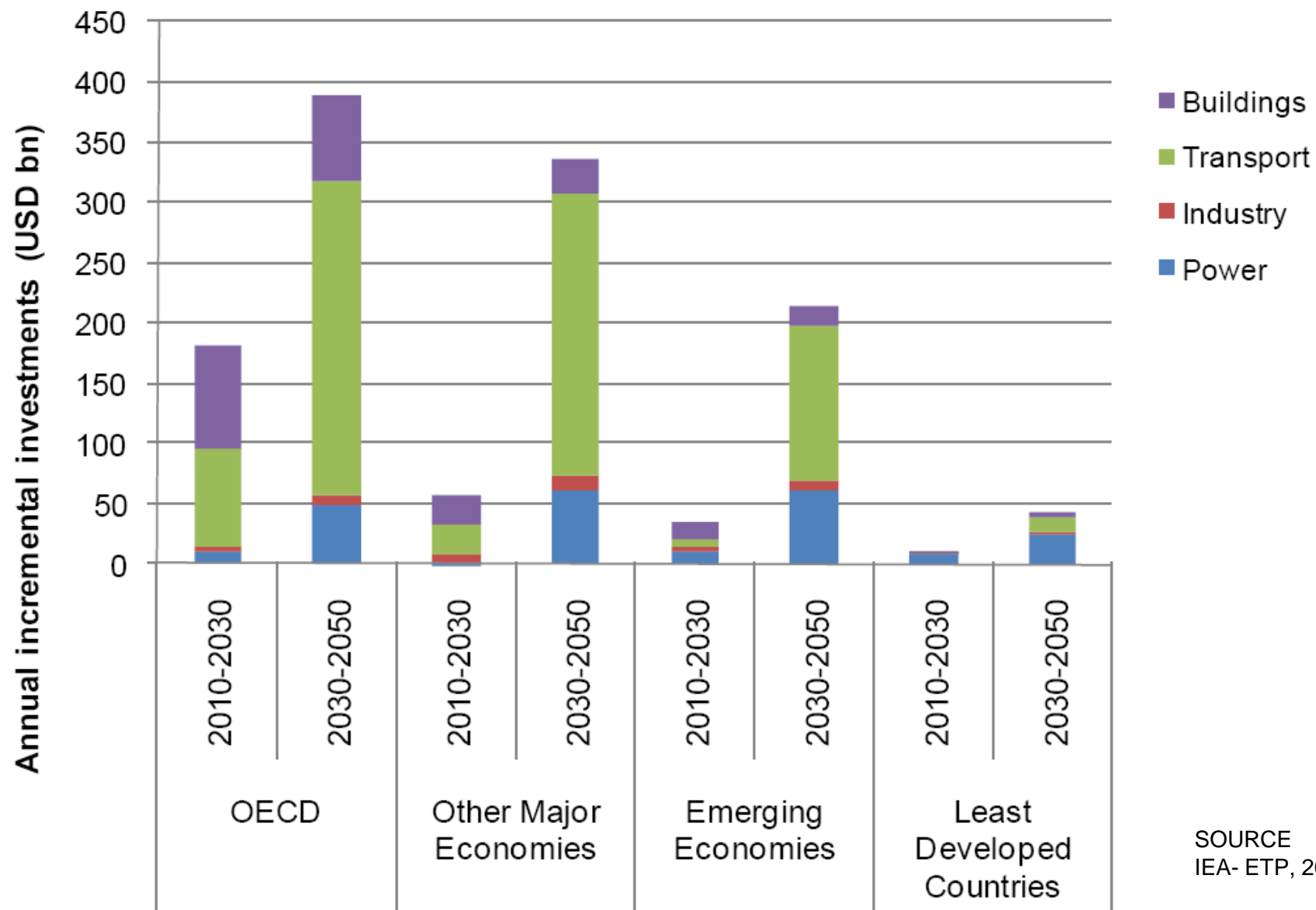


A Transformed Energy System

- Less oil, more renewables and more nuclear
- Reduced carbon intensity of existing energy:
CCS, sinks
- A focus on smart technology solutions:
 - energy efficiency
 - smart grids
- Demand side management
- New business models in the energy industry
- Increased electrification of transportation
- Pressure on affordable energy for development
- Value for carbon - carbon taxes/emissions trading



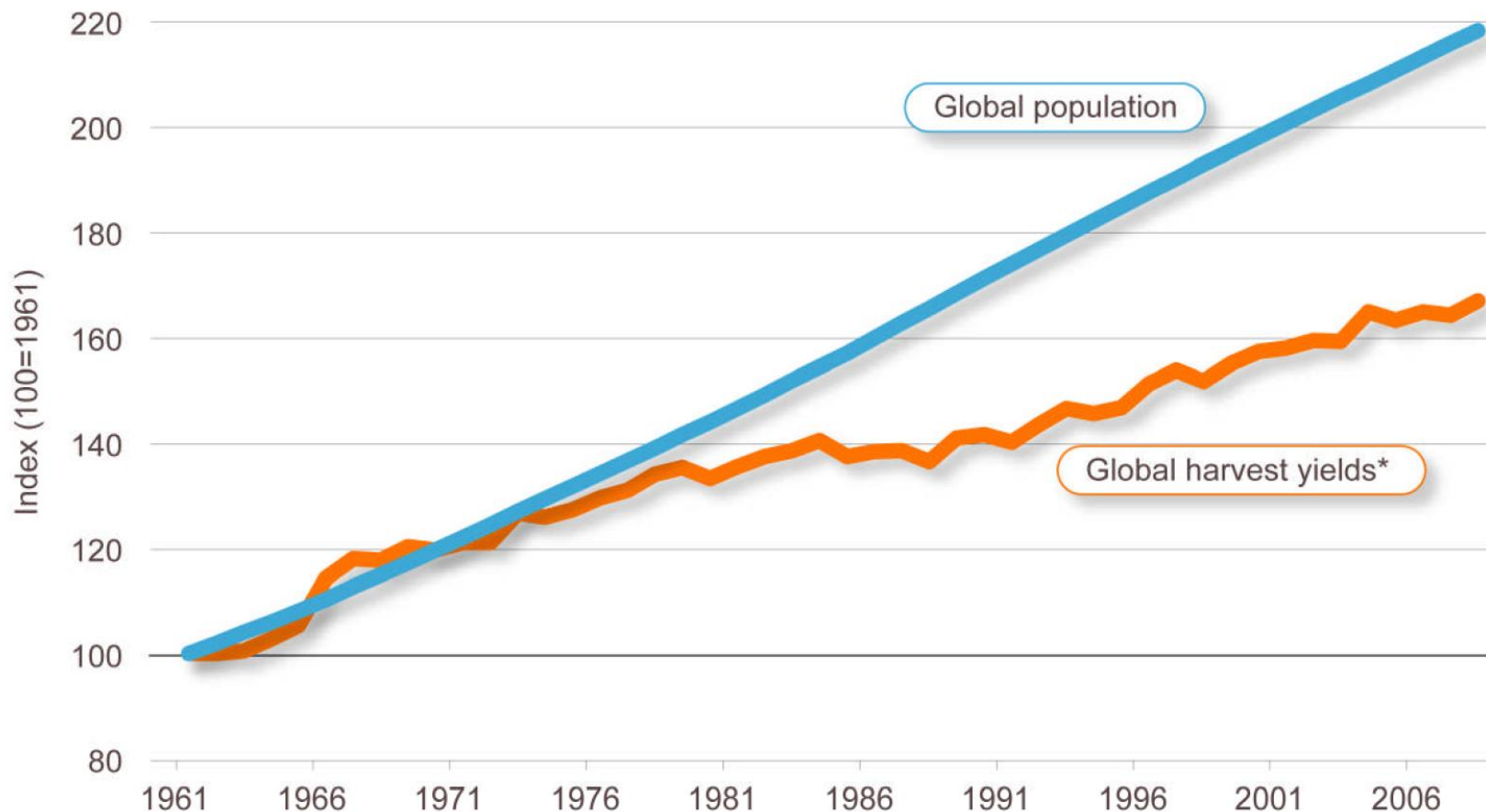
Additional investments to reach 450 ppm





The Food Challenge

Global harvest yields



* Index of global yields from 13 key agricultural crops

- Source: FAO Stat 2009, UN population Division (2006), PwC Analysis



Food, Agriculture & Land-use changes

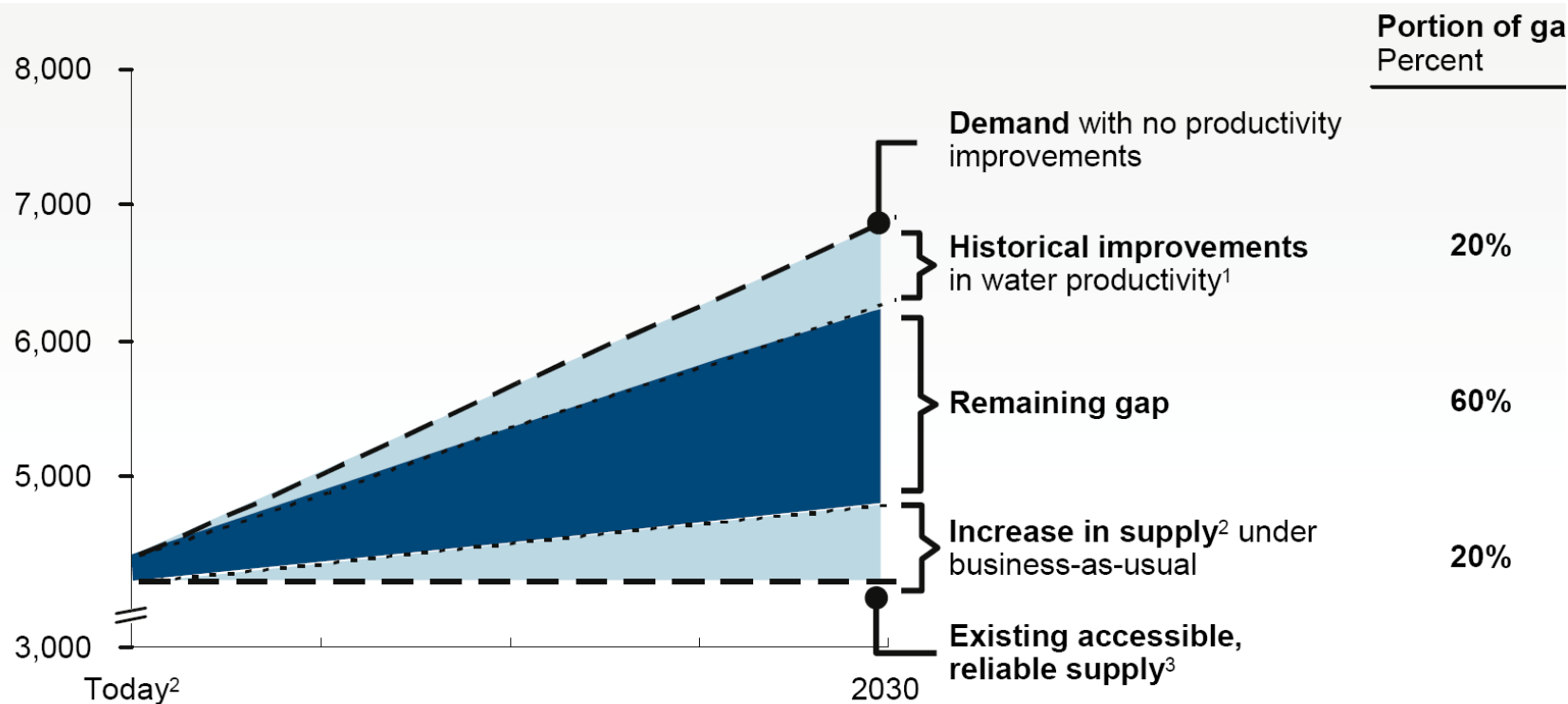
- Consequences for food consumption patterns and lifestyles?
- Agriculture and forestry = 30% global GHG emissions (IPCC 4th assessment)
- Livestock is the world's largest user of land resources (70% of agricultural land)
 - Major driver for deforestation



Water: The challenge

Business-as-usual approaches will not meet demand for raw water

Billion m³



¹ Based on historical agricultural yield growth rates from 1990-2004 from FAOSTAT, agricultural and industrial efficiency improvements from IFPRI

² Total increased capture of raw water through infrastructure buildout, excluding unsustainable extraction

³ Supply shown at 90% reliability and includes infrastructure investments scheduled and funded through 2010. Current 90%-reliable supply does not meet average demand

SOURCE: 2030 Water Resources Group – Global Water Supply and Demand model; IFPRI; FAOSTAT



Growing role of business



- “...while governments provide the necessary policy framework, the real solutions must come from business. Copenhagen did not provide us with a clear agreement in legal terms, but the political commitment and sense of direction toward a low-emissions world are overwhelming. This calls for new partnerships with the business sector and I now have the chance to help make this happen”

– *Yvo de Boer, 2010*



The Role of Business

- Business needs to be clear on what we can contribute and the support we need to deliver solutions
 - Technology deployment frameworks
 - Price signals for consumers and businesses
 - Regulations and Standards
 - R&D cooperation



The World in Transition to Sustainability

- There is no global sustainable future without a sustainable China
- Business solutions/contributions are crucial
- China BCSD & WBCSD –
Dedicated to making a difference



www.wbcsd.org