

Urbanisation: some aspects and facts

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Nestlé Breakfast Discussion Davos 27 January 2012

Urbanisation: driving social and economic development

*“Cities are **nodes of new ideas**, communication and innovation.”*

UN Habitat; Population, urbanisation and quality of life, 1994

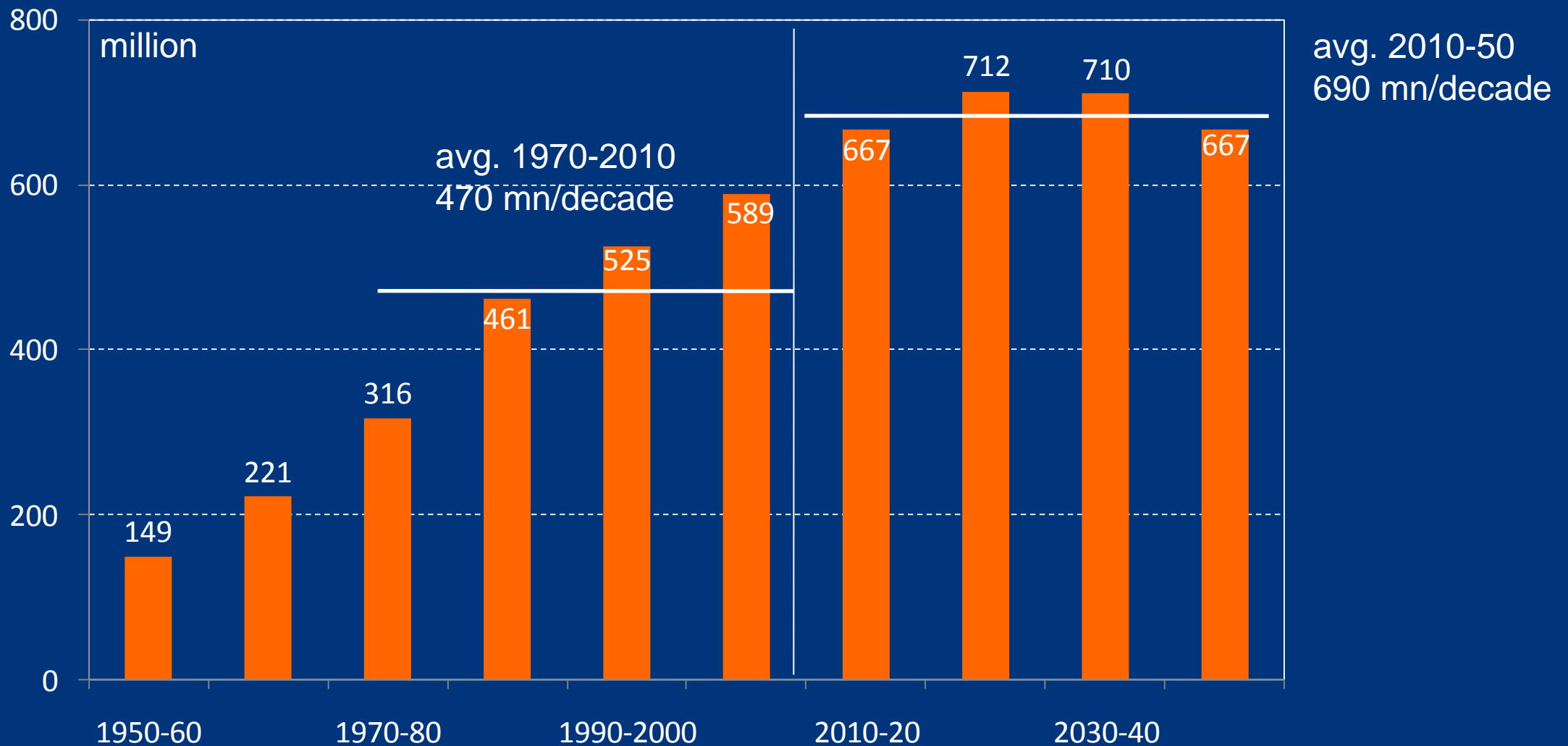
The century of cities

“The 19th century was a century of empires; the 20th century was a century of nation states.

The 21st century will be a century of cities.”

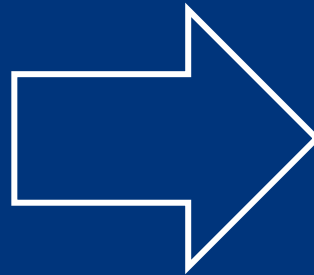
Wellington Webb, former mayor of Denver CO

Urbanisation continues accelerating – growth in urban population, million/10-year intervals, 1950-2050



Source: <http://esa.un.org/unup/>

New orders of magnitude: size of cities by 2050



< 1 million	1 to 5 million		5 to 10 million	> 10 million inhabitants					
2050 in bn and % of urban population	2009	2050	2050 in bn and % of urban pop.	2009	2050	2050 in bn and % of urban pop.	2009	2050	2050 in bn and % of urban pop.
3.7 bn 58 %	374 cities	→ 700 cities	1.4 bn 22 %	32 cities	→ 68 cities	480 mn 8 %	21 cities	→ 47 cities	750 mn 12 %

Source: UN, DESA, World urbanization prospects (2010 revision), and own estimates

Our speakers this morning

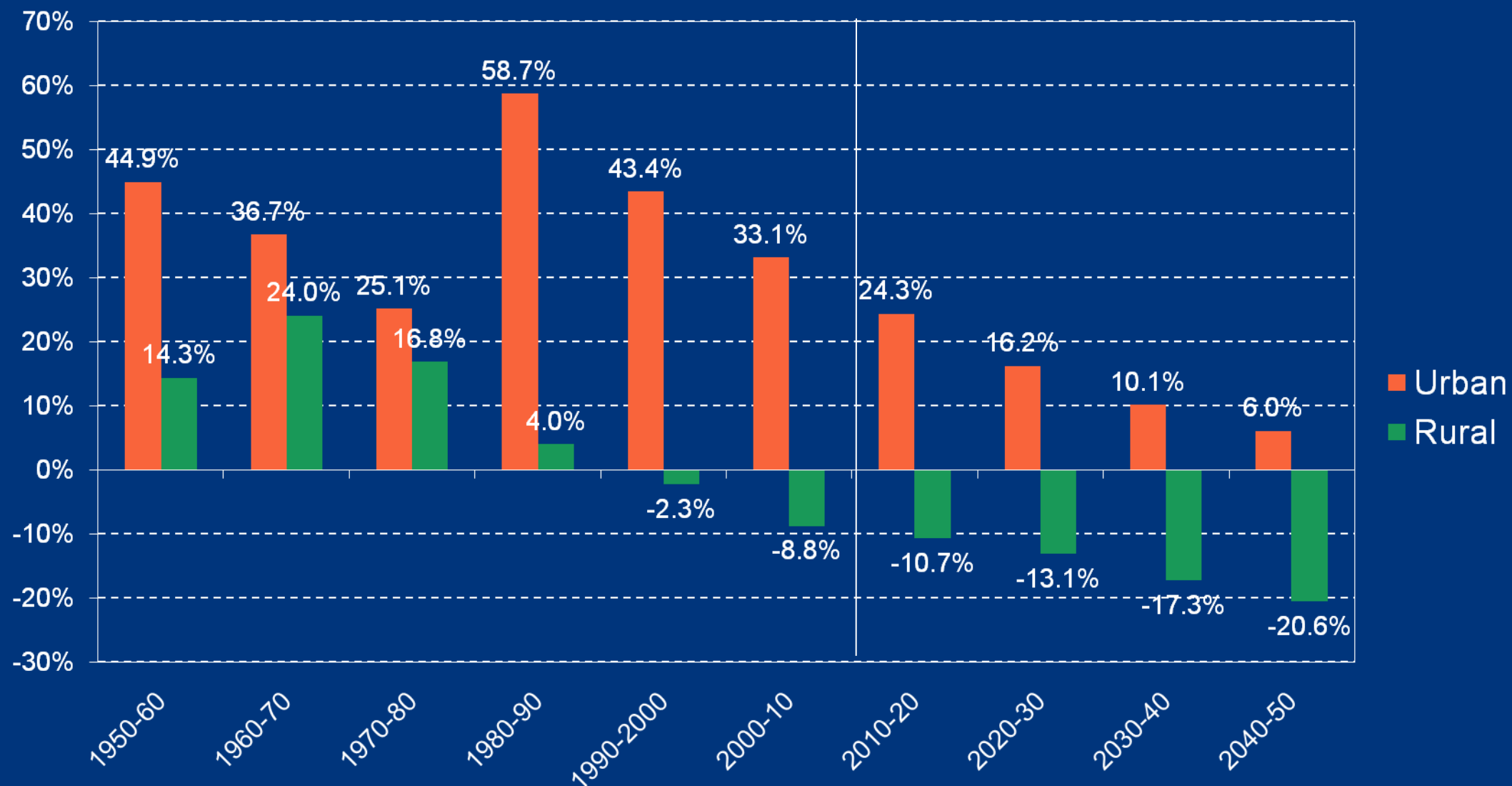
Juan Clos, Executive Director of UN Habitat,

Adele Naudé Santos, Dean MIT School of Architecture and Planning,

Sangeeta Prasad, CEO Mahindra World City Developers Limited,

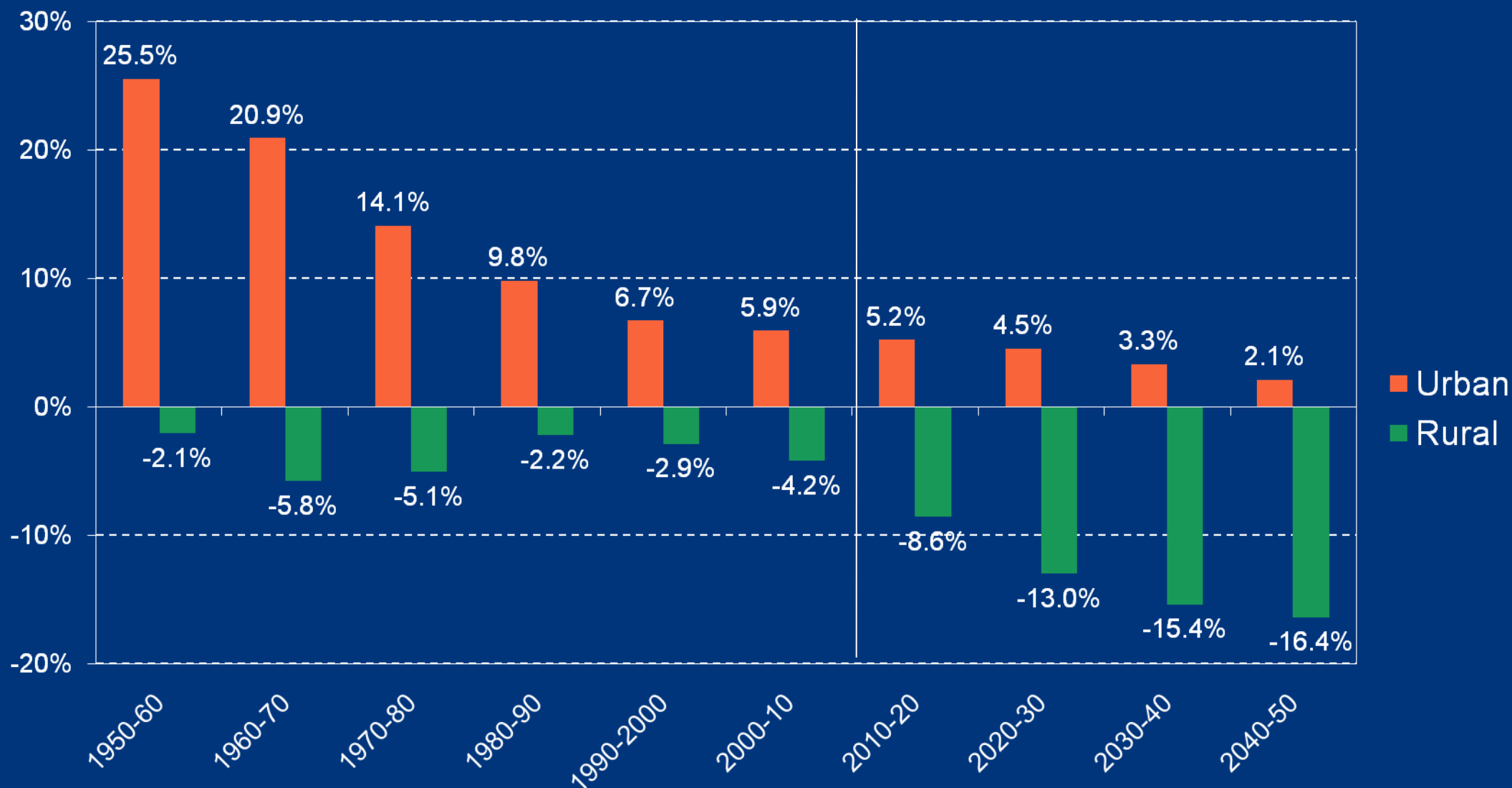
Angel Gurría, Secretary-General of OECD.

Urban and rural population in China: Change in % over 10-year intervals



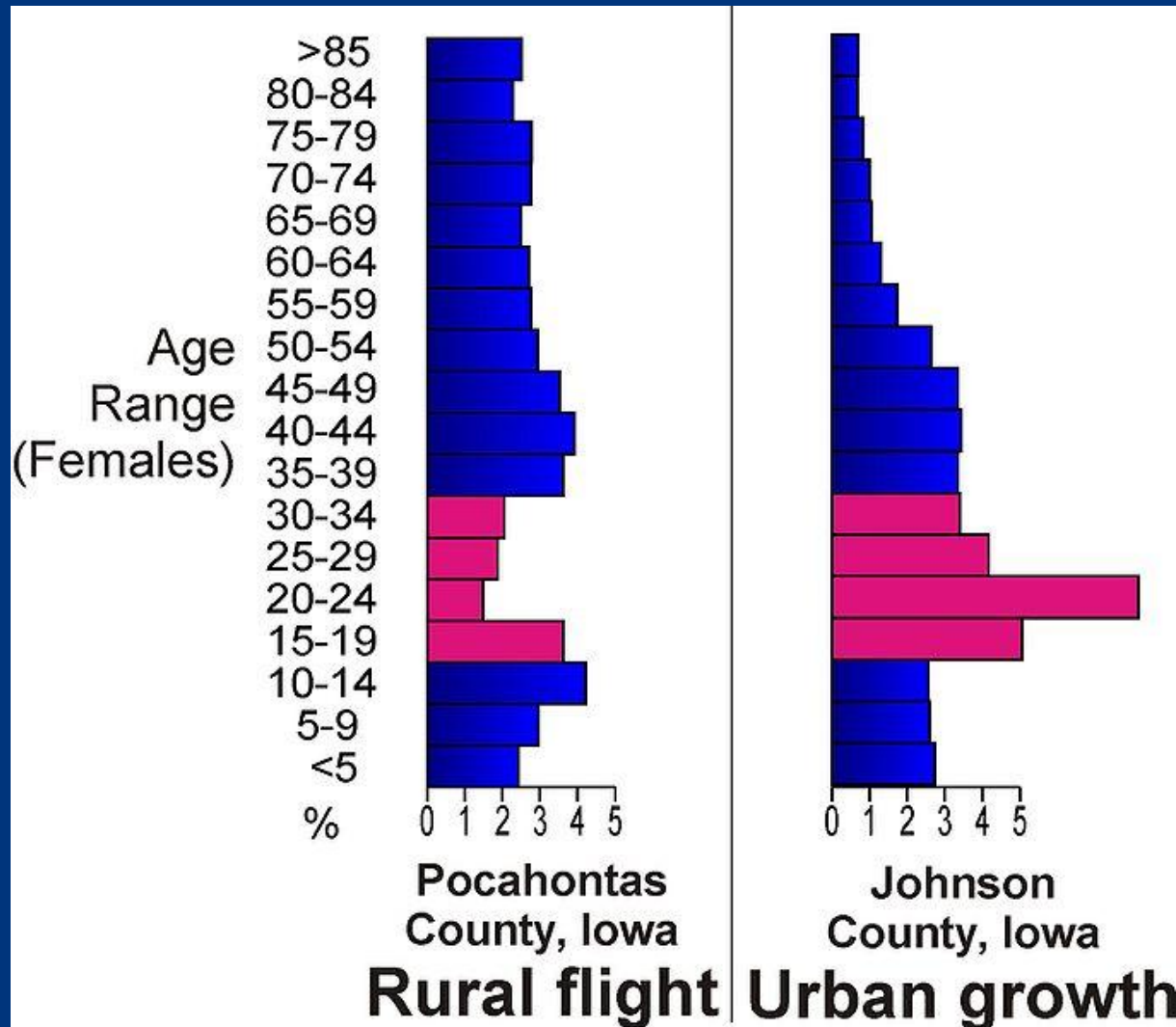
Source: <http://esa.un.org/unup/>

Urban and rural population in industrialised countries: Change in % over 10-year intervals



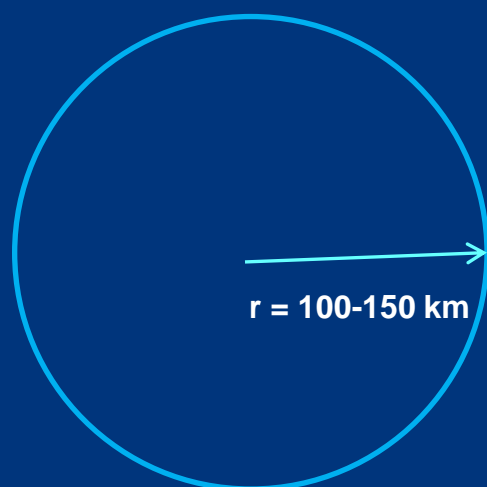
Source: <http://esa.un.org/unup/>

Urbanisation by age groups; the older people staying behind in rural areas, the young leaving



Source: US Census Bureau

Size of cities and surface for full recharge of withdrawals of municipal water from aquifer (India)



10 million inhabitants

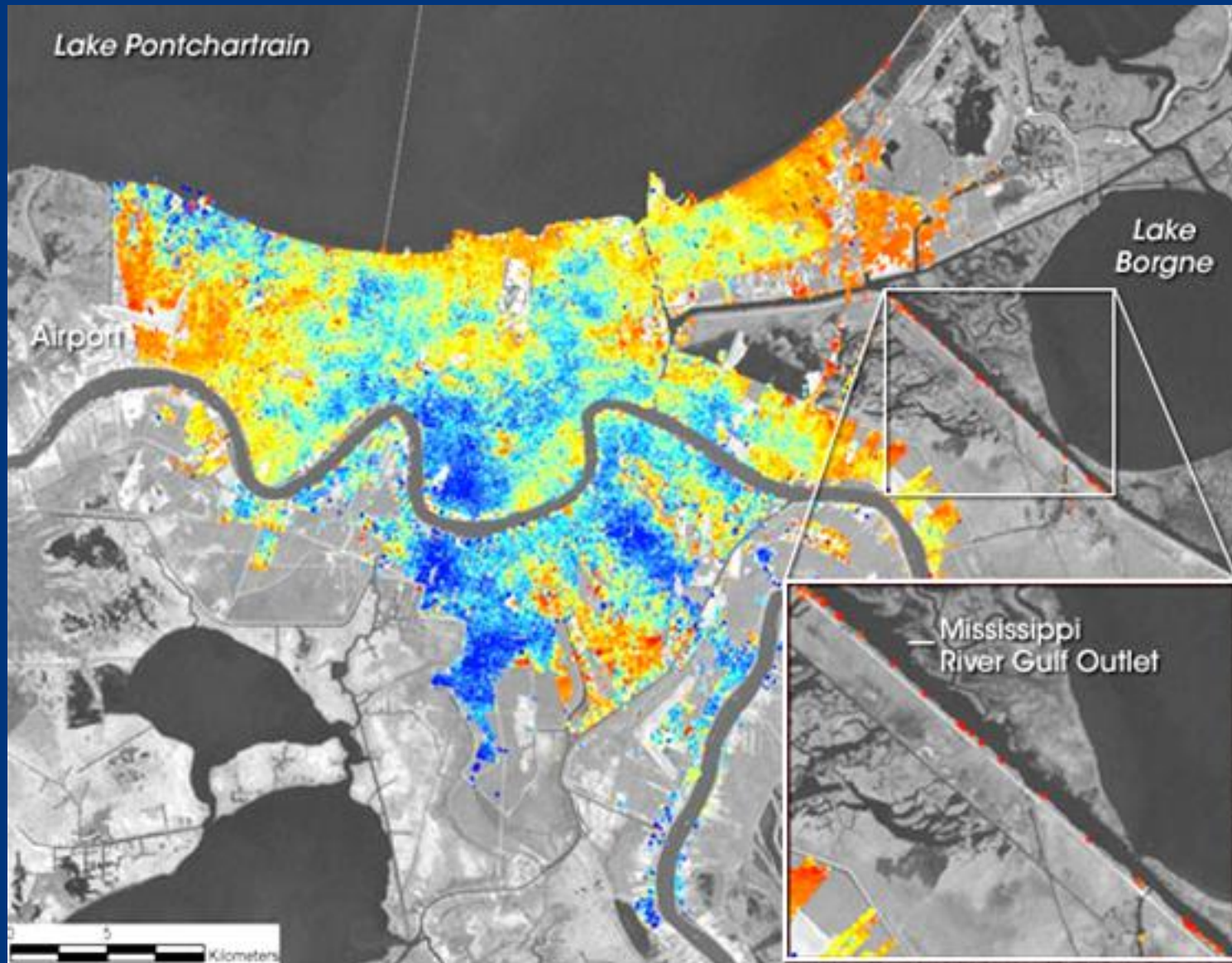


1 million inhabitants

> 10 million inhabitants			5 to 10 million inhab.			1 to 5 million inhab.			< 1 million
2009	2050	2050 % urb pop.	2009	2050	2050 % urb. pop.	2009	2050	2050 % urb. pop.	2050 % urban population
21 cities	47 cities	750 mn 12 %	32 cities	68 cities	480 mn 8 %	374 cities	700 cities	1.4 bn 22 %	3.7 bn 58 %

Source: UN, DESA, World urbanization prospects (2010 revision), and own estimates

Overuse of groundwater: also risk of subsidence

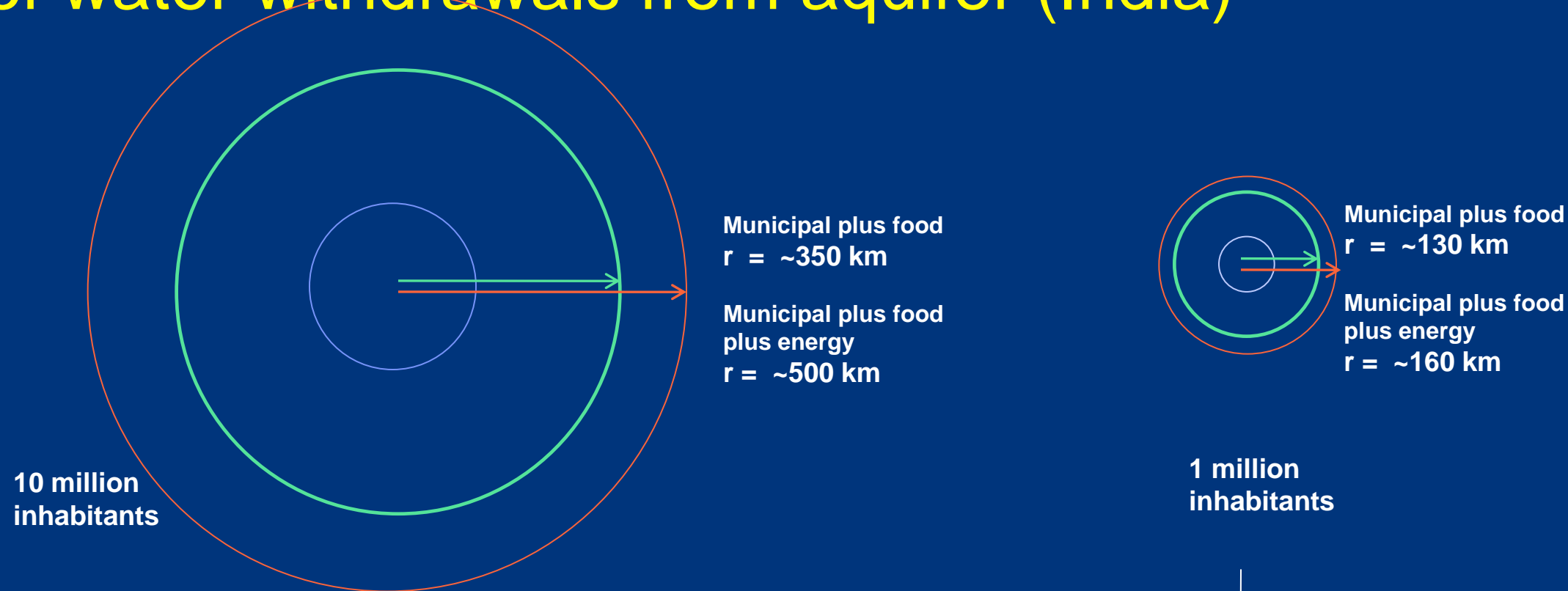


New Orleans

In red: areas that sunk up to 30 millimeters each year between 2002 and 2005 (only one of the slowest subsidence rates the area has experienced since the 1960s.)

Source: NASA Earth Observatory

Size of cities and surface required for full recharge of water withdrawals from aquifer (India)



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Source: UN, DESA, World urbanization prospects (2010 revision), and own estimates

Five of the challenges

Along the supply chain

1. Reducing waste
2. Comprehensive food security

At the watershed/local level

1. Reducing overdraft (increasing the efficiency of water use) – bringing withdrawals back into line with natural renewal
2. Freeing water to allow shifts to other uses (urban, energy)
3. Strategies to protect catchment area