RURAL 63%

RBAN 37%

RURAL 53%

Mega Trends
What vision of the future?

- Social entrepreneurs
- CSR
- Non profit / Volontariat
- Ltd. / S.A.
- Common goods
- Private profits
- Social goals
- Personal motivation
- Altruism
- Egoism

Source: D. Rossetti

Man and Technology

AI, Transhumanism, NBIC, Robotic,…

Source: Michelangelo

Source: dpaonthenet
### Life expectancy (y)

<table>
<thead>
<tr>
<th></th>
<th>1955-1960</th>
<th>2005-2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>66.3</td>
<td>82.7</td>
</tr>
<tr>
<td>W. Europe</td>
<td>69.5</td>
<td>80.3</td>
</tr>
<tr>
<td>USA</td>
<td>69.7</td>
<td>78</td>
</tr>
<tr>
<td>China</td>
<td>45</td>
<td>72.7</td>
</tr>
<tr>
<td>India</td>
<td>40.9</td>
<td>64.2</td>
</tr>
<tr>
<td><strong>World</strong></td>
<td><strong>49.8</strong></td>
<td><strong>67.9</strong></td>
</tr>
</tbody>
</table>

Source: UN

### A multipolar world

![GDP Projections Graph]

Source: EEA
**EU urban issues**

**EU policy context on Cities**

- “Subsidiarity” and concrete actions
- Several Commission DGs interest
- European Parliament (MEP constituencies)
- Committee of the Regions
- Regional and urban representation in Brussels
- Pan-European city associations

Source: D. Rossetti
Twenty years of EU initiatives

- *URBAN* Community Initiative – ERDF (DG XVI – REGIO)
- *City of Tomorrow* in FP5 and Urban sustainability in FP6 (DG RTD)
- Sustainable cities (DG ENV)
- *CONCERTO* and *CIVITAS* for energy, efficiency, renewables and clean transport (DG TREN)
- Projects on Cities in the programmes “Environment” and “Socio-economic Sciences and Humanities” in FP7 (DG RTD)
- Covenant of Mayors (DG TREN)
- *EU Smart Cities and Communities* (DG ENER)
- Joint Programming Initiative – *Urban Europe* (MS)

Source: D. Rossetti

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Land-use and energy consumption

EU in the middle

Source: Newman and Kenworthy
Economic and social aspects

- Agglomeration effects
- Knowledge spillovers
- Clustering

Similar firms from the same industry can benefit from locating together (A. Marshall, 1890)

World challenges

- Tokyo: 34 M inh.
- Seoul: 25 M inh.
- New Delhi: 23 M inh.
- Sao Paolo: 21 M inh.

EU challenges

- Ageing and shrinking cities
- Built environment and cultural heritage
- NIMBY and BANANA (Build Absolutely Nothing Anywhere Near Anything)

Source: J. Lehner, BRUEGEL
Oregon office of economic analysis

Source: UN-HABITAT

Source: D. Rossetti
World challenge
Inequality

EU challenge
Diversity

Source: São Paulo, picture from D. Bounds blog

Source: United Colors of Benetton

EU Research and Innovation
HORIZON 2020
Energy Topics – WP 2014 - 2015

- SCC 1 – 2014/2015: Smart cities and communities solutions integrating energy, transport, ICT sectors (large scale demonstration projects)
- SCC 2 – 2014: Data and performance measurement - comparability and replication of best-practices
- SCC 3 – 2015: Development of system standards for SCC
- SCC 4 – 2014: Networks of public procurers in local administrations on smart city solutions
- EE 7 – 2014/2015: Capacity of public authorities to plan and implement sustainable energy policies and measures

Source: EC Work Programme

Transport Topics – WP 2014 - 2015

- MG.5.1-2014: Transforming the use of conventionally fuelled vehicles in urban areas
- MG.5.2-2014: Reducing impacts and costs of freight and service trips in urban areas
- MG.5.3-2014: Tackling urban road congestion
- MG.5.4-2015: Strengthening the knowledge and capacities of local authorities
- MG.5.5-2015: Demonstrating and testing innovative solutions for cleaner and better urban transport and mobility

Source: EC Work Programme

- WASTE 1-2014: Moving towards a circular economy through industrial symbiosis
- WASTE-6-2015: Promoting eco-innovative waste management and prevention as part of sustainable urban development
- SC5-4-2015: Improving the air quality and reducing the carbon footprint of European cities
- SC5-17-2015: Demonstrating the concept of 'Citizen Observatories'

Source: EC Work Programme

Inclusive Topics – WP 2014 - 2015

- EURO-5-2015: ERA-NET on Smart Urban Futures
- REFLECTIVE-3-2015: European cohesion, regional and urban policies and the perceptions of Europe
- YOUNG-4-2015: The young as a driver of social change
- Other Actions: European Capital of Innovation 2016

Source: EC Work Programme

- DRS-17-2014/2015: Protection of urban soft targets and urban critical infrastructures
- FCT-10-2014: Innovative solutions to counter security challenges connected with large urban environment
- FCT-11-2014: Countering the terrorist use of an explosive threat, across the timeline of a plot, including the detection of explosives in a flow
- FCT-12-2014: Minimum intrusion tools for de-escalation during mass gatherings improving citizens’ protection

Conclusions
The egoism of urban sprawl
The praise of density
The nightmare of over-density

EU: From Proprietas to Usus

- Unifying power of Internet & smart phones
- New economy and younger generation
- Less ownership (purchasing)
- More access (renting, sharing, swapping)

Source: D. Rossetti
Annex
EU - FP7 - SSH projects

- URBACHINA - Sustainable urbanisation in China: historical and comparative perspectives; mega-trends towards 2050
- SHRINK SMART - The governance of shrinkage within a EU context
- DIVERCITIES – Governing urban diversities
- LOCALISE – Local worlds of social cohesion
- COPE – Combating poverty in Europe – Inclusion through participatory multilevel governance
- WILCO – Welfare innovations at local level
- CITISPYCE – Combating inequalities for young people in cities

Source: EC

EU - FP7 - SSH projects

- SOCIAL POLIS - Social platform on cities and social cohesion
- CHANCE2SUSTAIN - Urban chances: city growth and the sustainability challenge; growing cities in growing economies
- SUSTAINCITY - Prospective of sustainable cities in Europe
- PLACES - Platform of local authorities and cities engaged in science
- GEITONES – Interethnic tolerance and neighbourhoods integration in European urban spaces
- SPREAD - Social platform on sustainable lifestyles

Source: EC
Stock-taking of FP7 and Urban activities

**DG RTD** - Foresight and Sustainable Urban Mgt & Trans.
http://ec.europa.eu/research/social-sciences/index.cfm?pg=home
http://ec.europa.eu/research/environment/index_en.cfm?pg=projects&area=land
http://ec.europa.eu/research/transport/multimodal/sustainable_urban_transport/index_en.htm

**DG ENER, DG MOVE, DG CONNECT** - Smart Cities
http://ec.europa.eu/energy/technology/initiatives/smart_cities_en.htm
http://ec.europa.eu/transport/urban/urban_mobility/urban_mobility_en.htm

**DG REGIO** - Cities of Tomorrow:
http://ec.europa.eu/regional_policy/conferences/citiesoftomorrow/index_en.cfm