

Towards a sustainable transition in cities

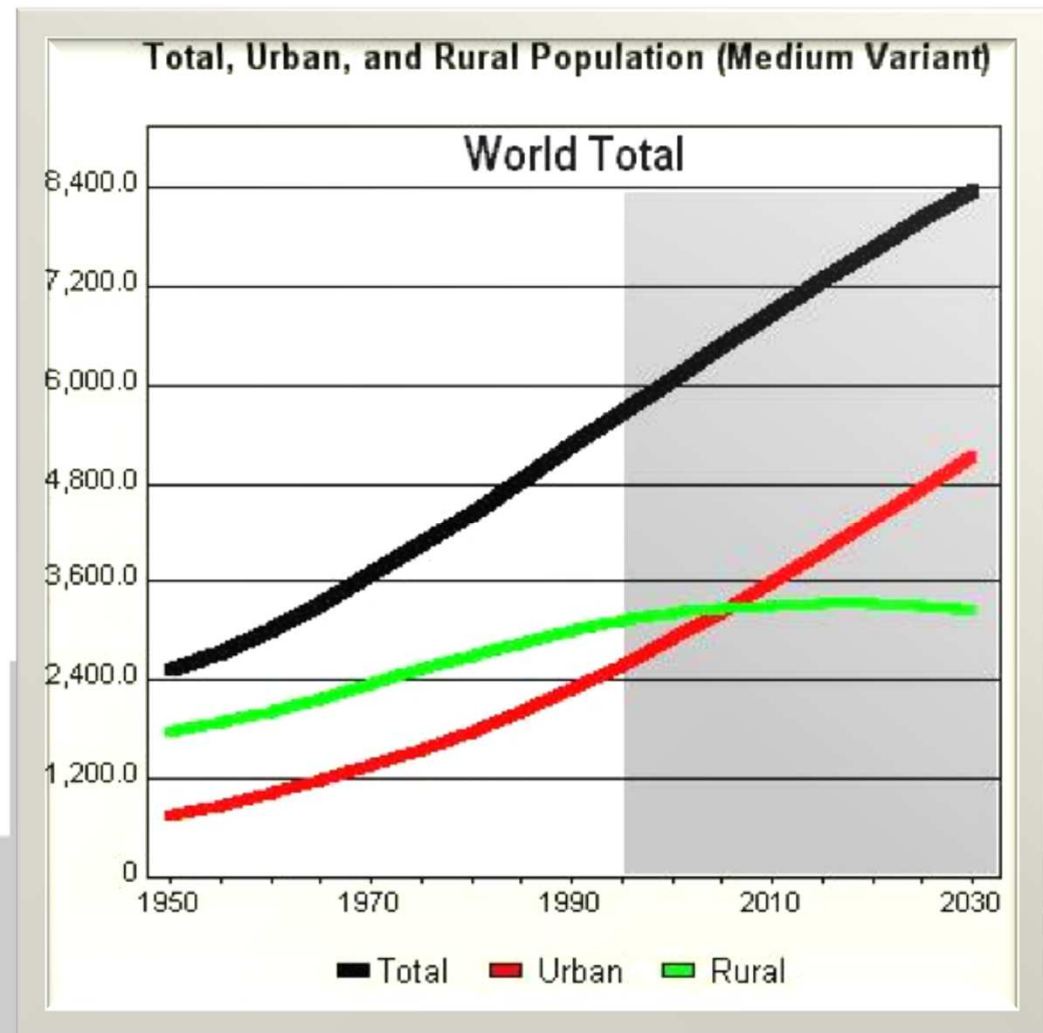
Hans Schnitzer



Urbanization is a global trend

There is a need for action!

- 📍 In cities live 60% of the world population
- 📍 Cities spend 75% of the energy
- 📍 Cities cause 80% of the global air emissions



Cities Facts:

Source: World Resources Institute

- Up to 70% of global CO₂ emissions come from cities.
- There are 800 million vehicles on the road today. Without interventions, that number is set to grow to 2-3 billion by 2050.
- The world's cities produce about 1.3 billion tons of waste every year.
- More than 1.2 million people die in traffic-related deaths every year.

In 2007 the urban population exceeded the rural population in the world.

In 2050 almost 70 % of world population will live in urban areas

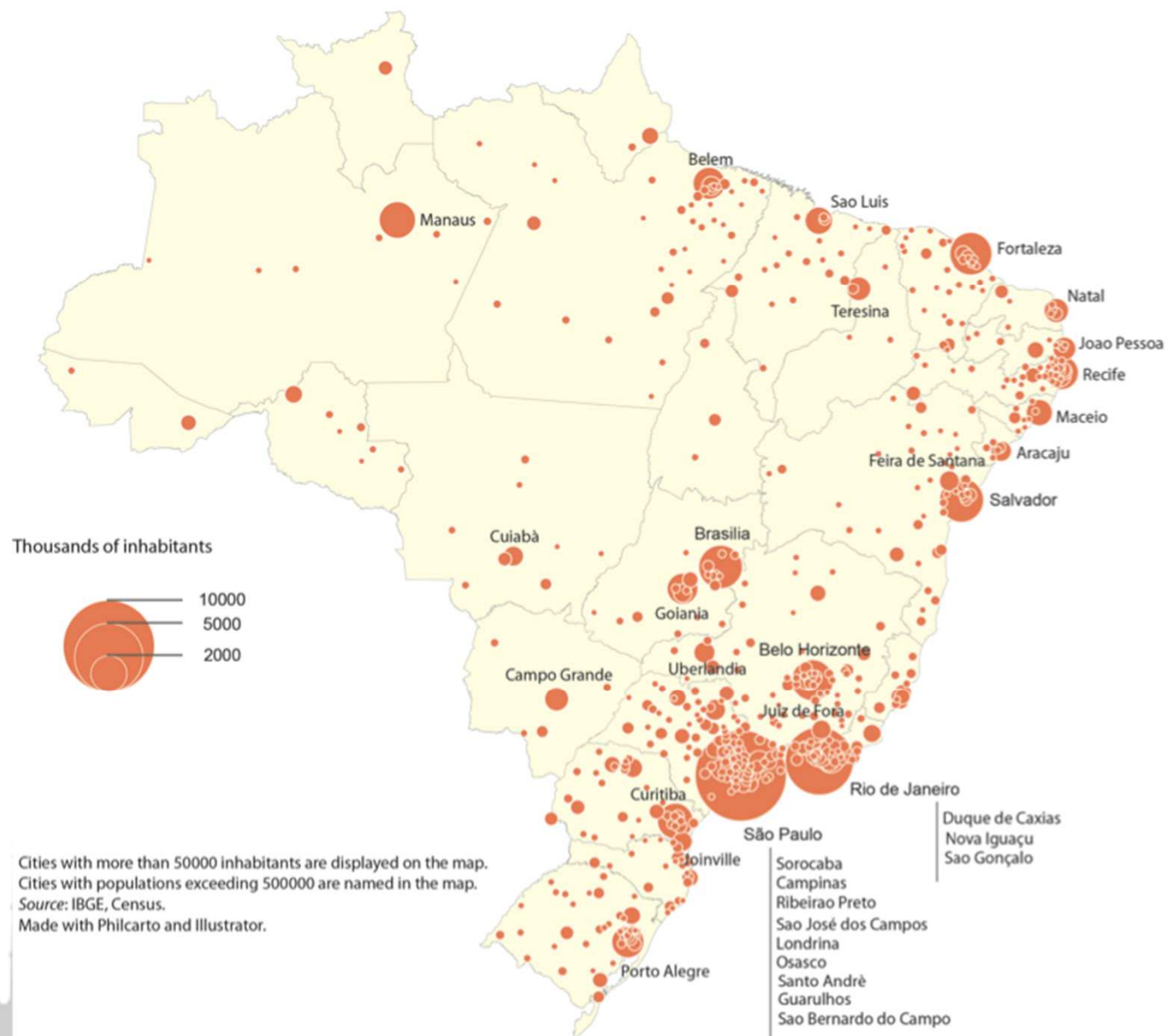
(source: UN).

In Europe already 68 % of the population lives in cities

The XXI century is called to be the century of cities

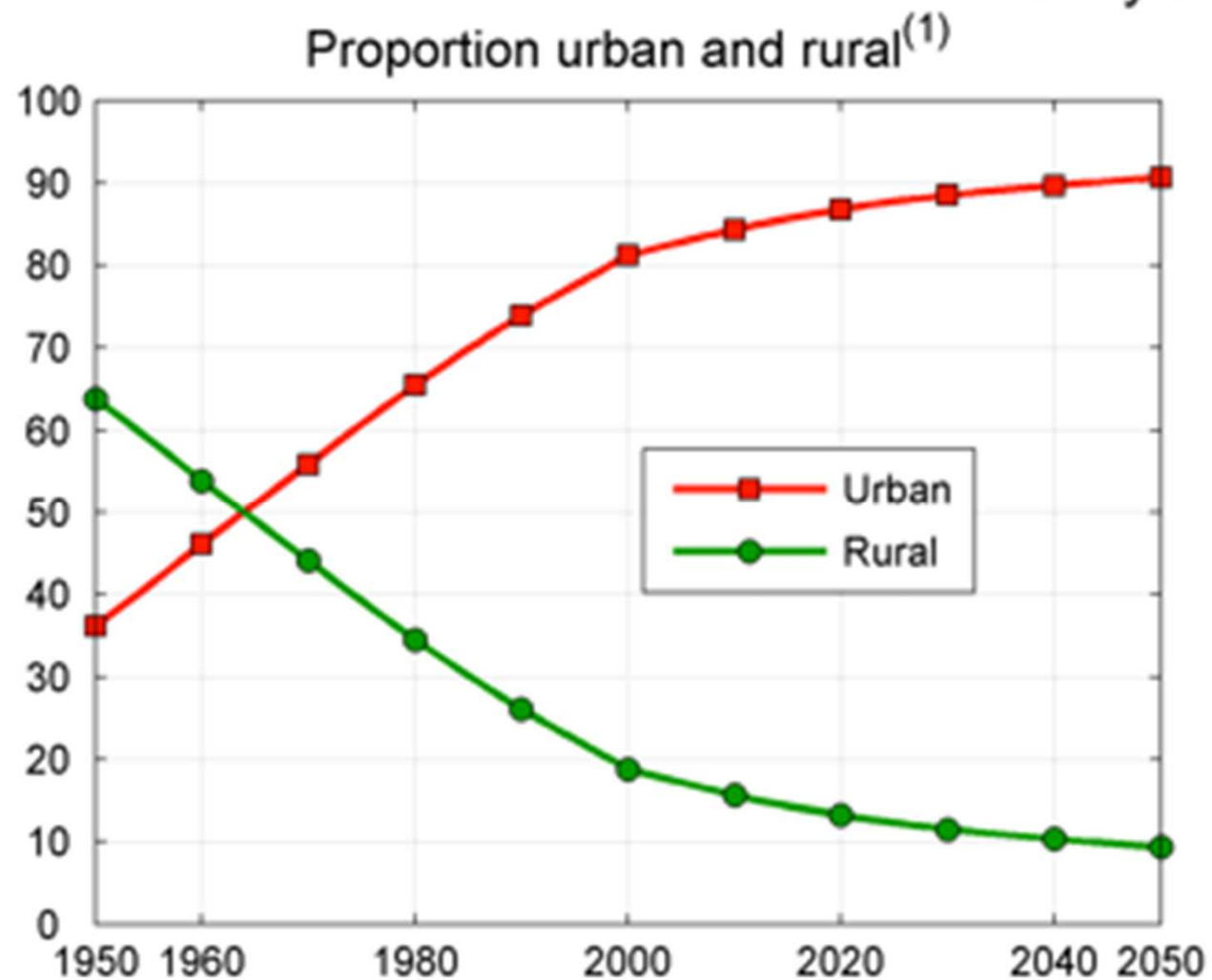


Brazil: Size of Municipios and Metropolitan Areas in 2010



Urbanisation in Brasil

<https://thedevblogdotorg.wordpress.com/2013/06/20/293/>



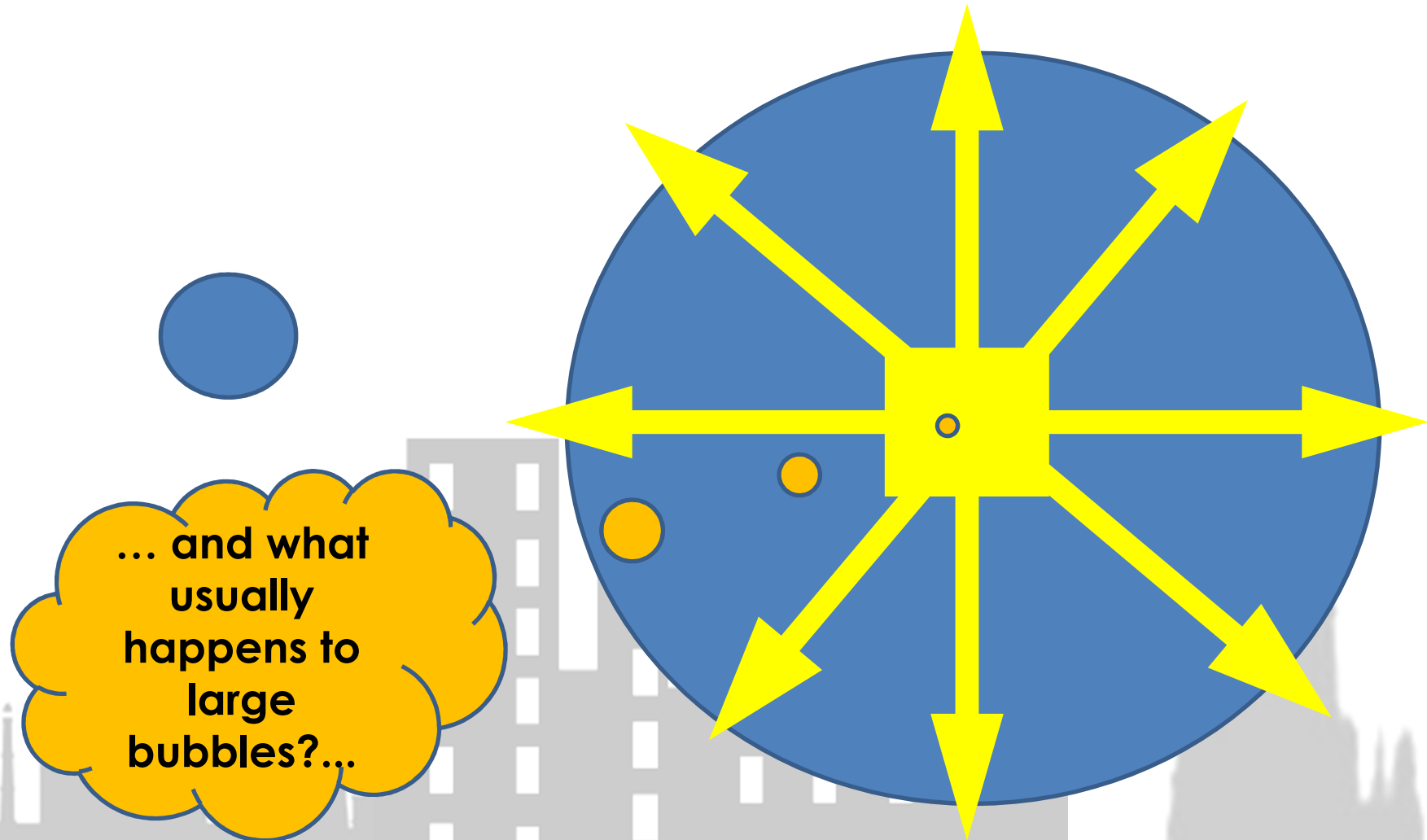


**Energy transition and transition to a
sustainable economic system will
take place in cities
-
or it will fail**

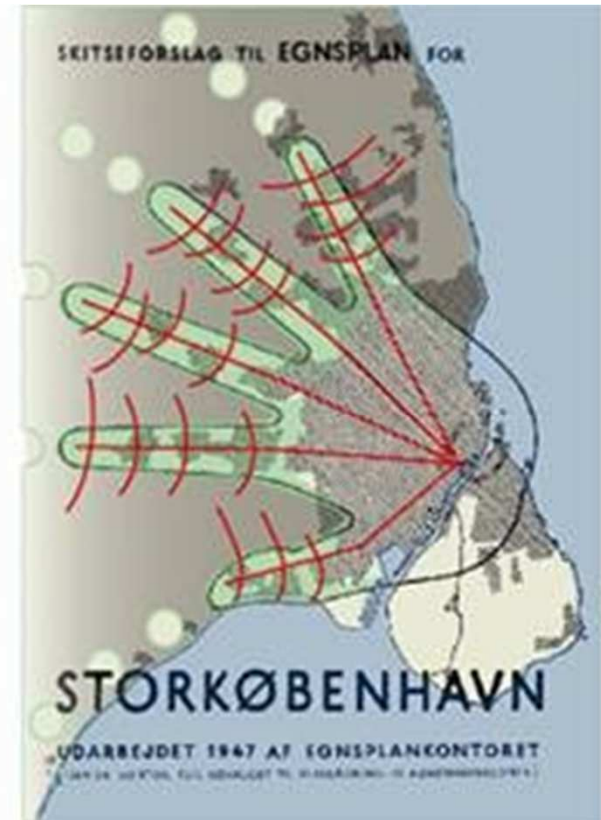
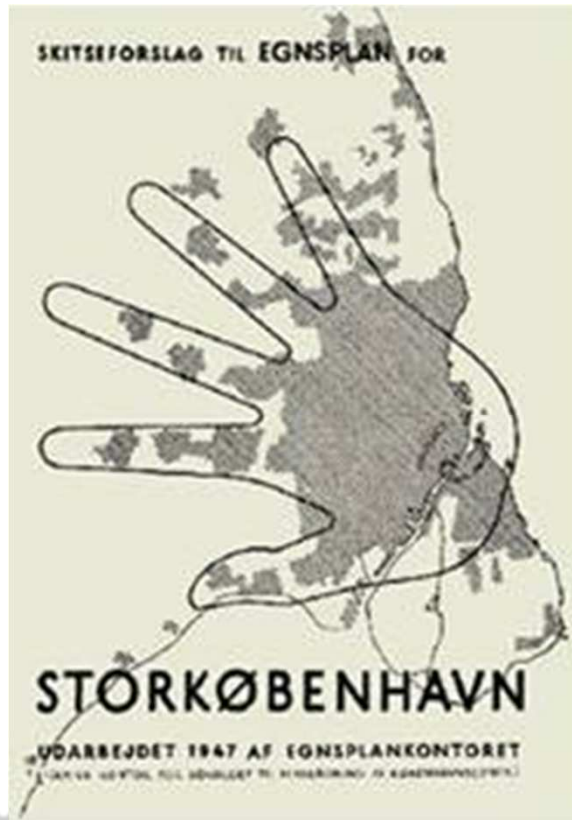


How cities grew

From small circles to large bubbles with radial structure

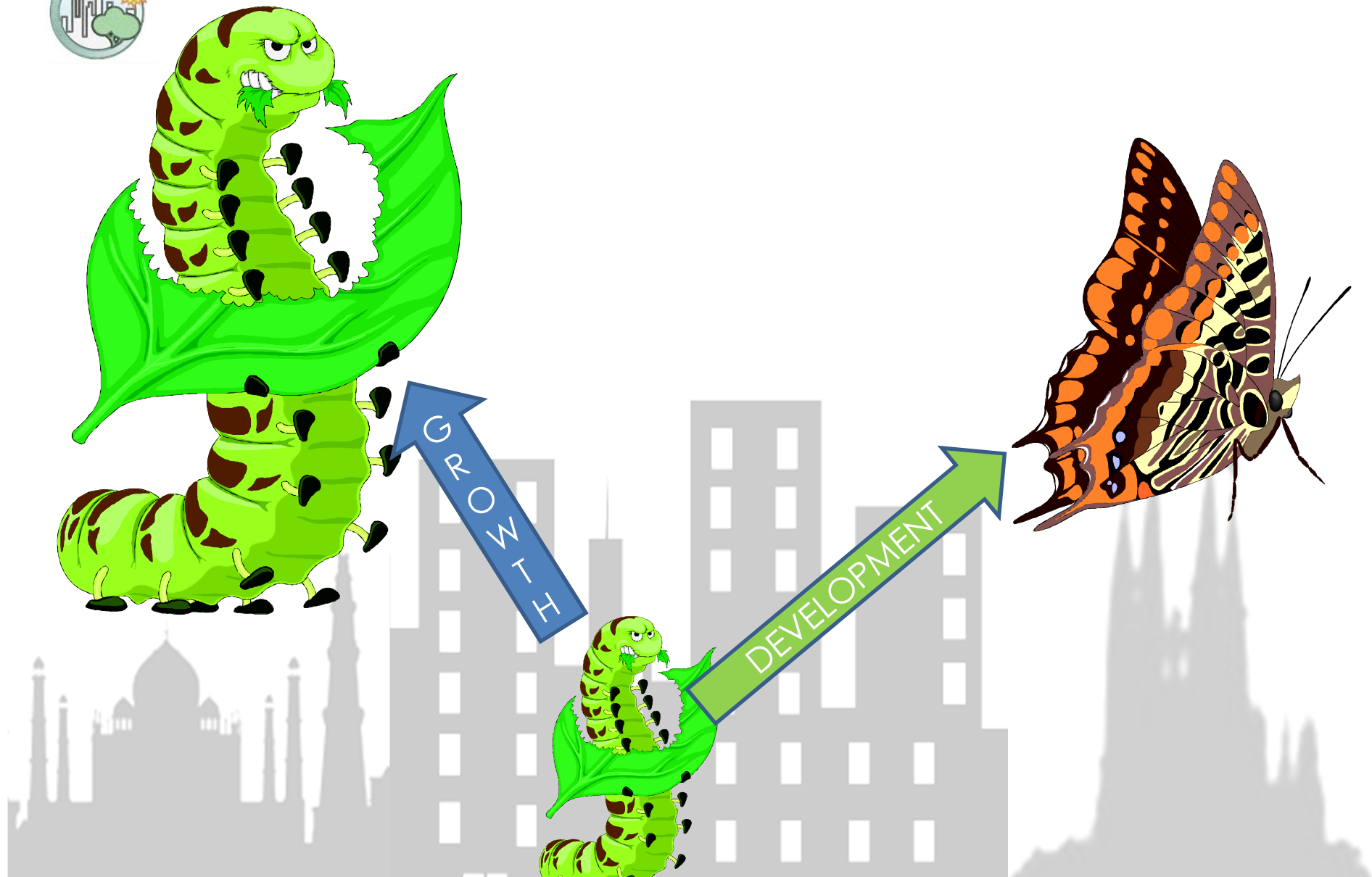


City development in Stockholm





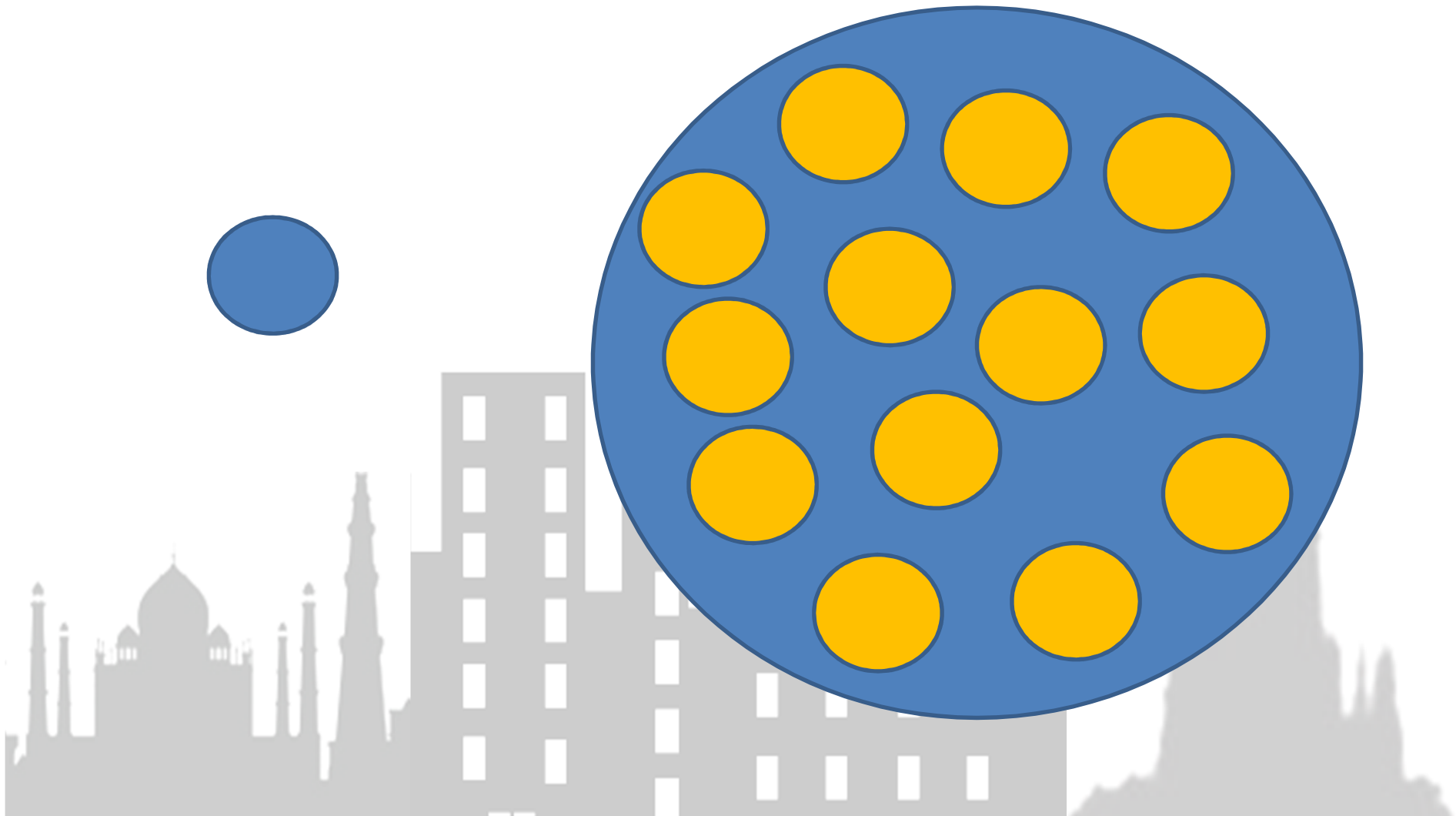
Growth or development





How cities could grow

From small neighborhoods
to large agglomerations with many neighborhoods



Urbanism charters

After 50 years new development guidelines for cities are published

📍 Athens Charter 1943

- Separate functions of city quarters

📍 Aalborg Charter 1994

- European Cities & Towns Towards Sustainability:
Integrated development

📍 Leipzig Charter on Sustainable European Cities 2007; the cities recommend:

- Making greater use of integrated urban development policy approaches
- That special attention is paid to deprived neighborhoods within the context of the city as a whole.

📍 Freiburg Charter for Sustainable Urbanism 2012

- The Charter has 12 principles to guide planning and development if a sustainable city is to be achieved.

Integrated means:

📍 **Living space**

- From newborn to old

📍 **Job opportunities**

- For all kind of qualification

📍 **Education**

- From kindergarten to life-long learning

📍 **Culture**

- Opera and festivals, museums, cinema, temples, ...

📍 **Leisure**

- Sport, pubs, bars, meditation, ...

📍 **Medical services**

- Doctors, hospitals, ...



Let me introduce

📍 Jahn Gehl



Why do we work with cities for a sustainable development:

Action is needed

- 📍 The decisions that national leaders, local officials, developers, and planners make today will determine how billions of urbanites will live over the next century.
- 📍 Traditional models of city development can hinder economic growth, spur greenhouse gas emissions, and endanger lives.
- 📍 Compact, efficient cities can alleviate poverty, combat climate change, and make services like water, energy, and transport more accessible.



Technological change or behavioral change

People don't
resist **CHANGE**
they resist being
CHANGED

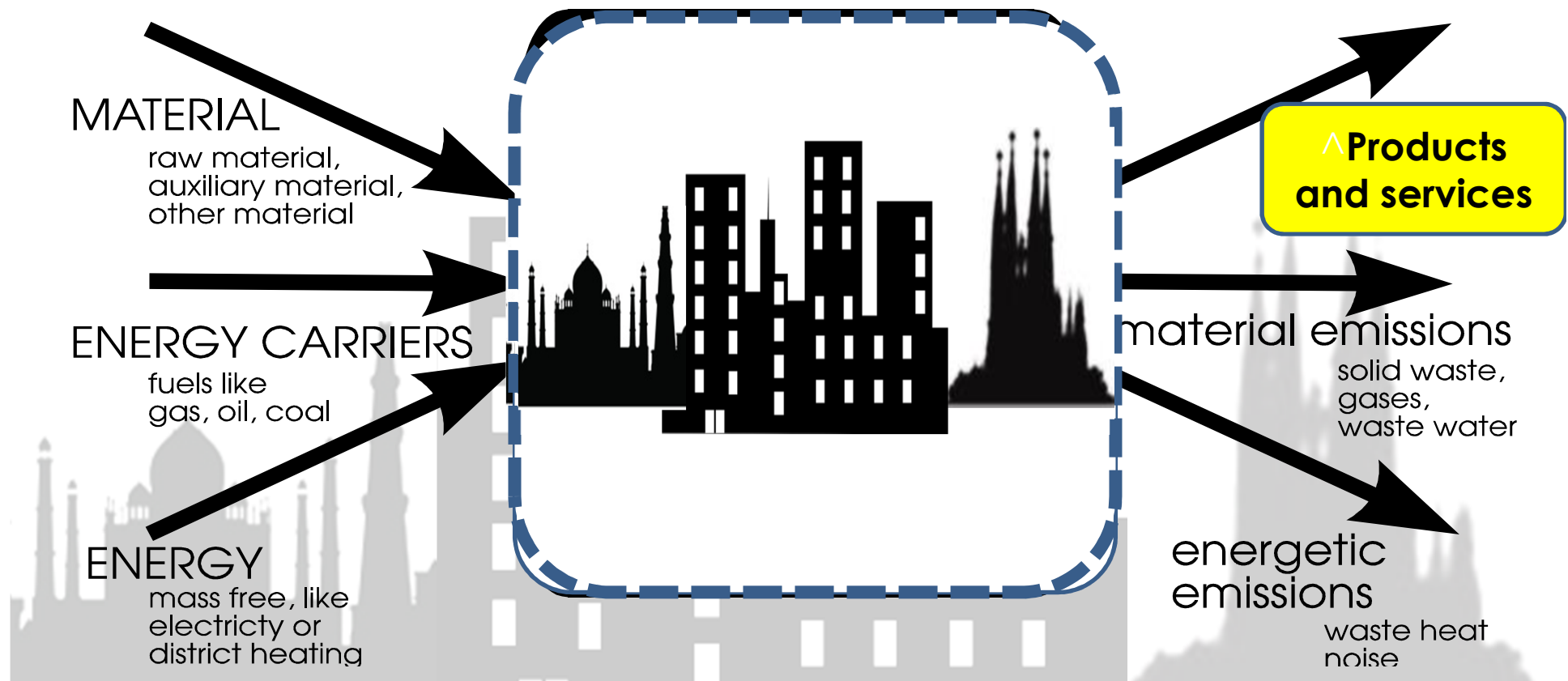
Richard Beckhard; he was a pioneer in the field of organizational development

The city seen as a system

What are the products and services?

INPUT

OUTPUT



Tesla baut Standort in Graz - und sucht Mitarbeiter

veröffentlicht am 20. 10. 2014 von [Stefan Mey](#)



Tesla Model S: Das stilvolle E-Auto soll künftig öfter über Österreichs Straßen rollen.

© REUTERS/Noah Berger



Zuletzt aktualisiert: 21.05.2015 um 20:56 Uhr

[Kommentare](#)

E-Jaguar wird in Graz produziert

Bis zu 10.000 Elektroautos der Marke Jaguar werden ab 2017 bei Magna in Graz vom Band laufen. Der Vertrag mit der britischen Edel-Marke ist unter Dach und Fach. Auch ein SUV soll im Grazer Werk produziert werden.

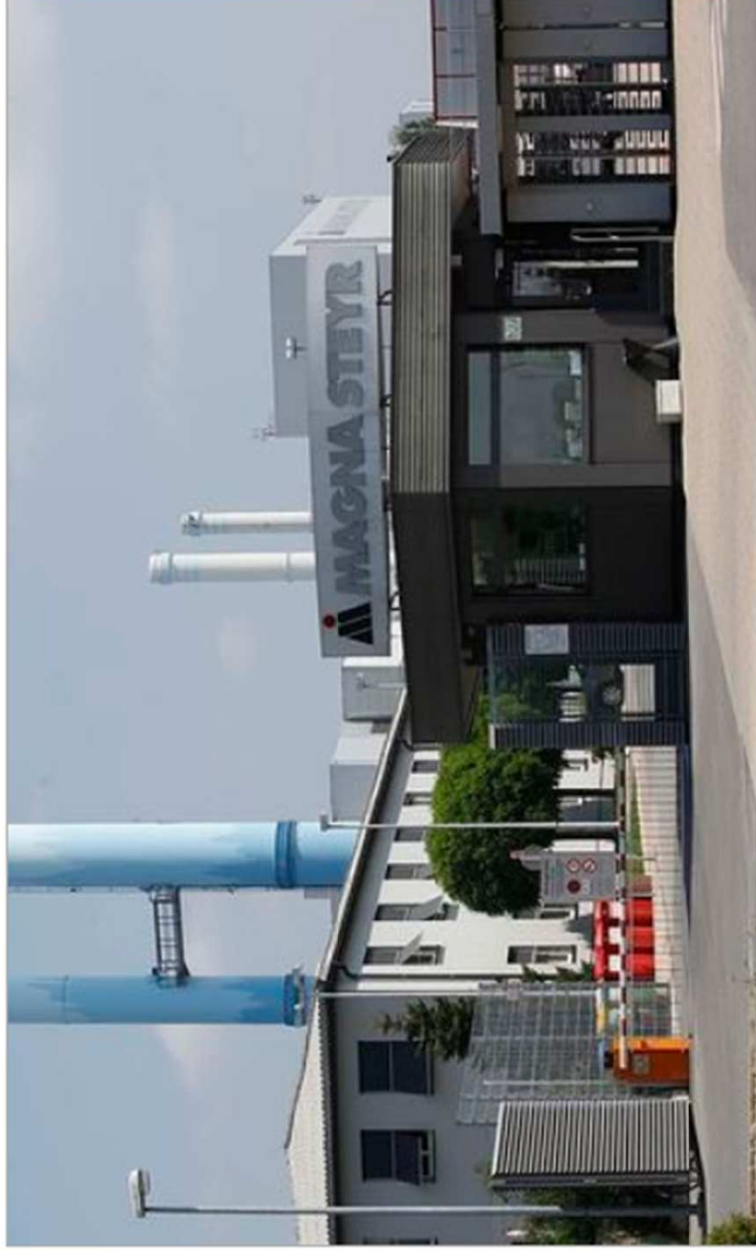


Foto © AP



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Interactive in small groups

- 📍 Why do people move to cities?
and
- 📍 How do companies select the cities where they expand
(and create jobs)? – how can cities attract companies





SAO PAULO

Strengths – Weaknesses – Opportunities-Threats

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Innovations are about finding:

- 📍 ... a new way of thinking
- 📍 ... a new way of working
- 📍 ... a new way of planning
- 📍 ... a new way of organization
- 📍 ... a new development path way
- 📍 ...

📍 **New symbols**

Innovation is not easy





**What would you do, if you were the
major of your home city for 30 days?**



City's symbols and skylines

Religion - Temples



City's symbols and skylines

Democracy - parliaments

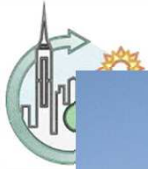




City's symbols and skylines

Banks, business





What is the image of a smart city





Thank YOU !

And don't
forget to
reduce
your
footprint