

SmartCity projects in Stockholm



Gustaf Landahl
City of Stockholm

The Capital of Scandinavia

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Vision 2040

– A Stockholm for Everyone–

- A cohesive city
- A climate-smart city
- A financially sustainable city
- A democratically sustainable city



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Strategy for a Smart & Connected Stockholm



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Examples

- The City of Stockholm owns the world's largest open fiber network. more than 5 500 kilometers of fiber cable long.
- [Stockholm Open Award](#)

- [E-services](#)

- Apps



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Relation Sustainable development and ICT

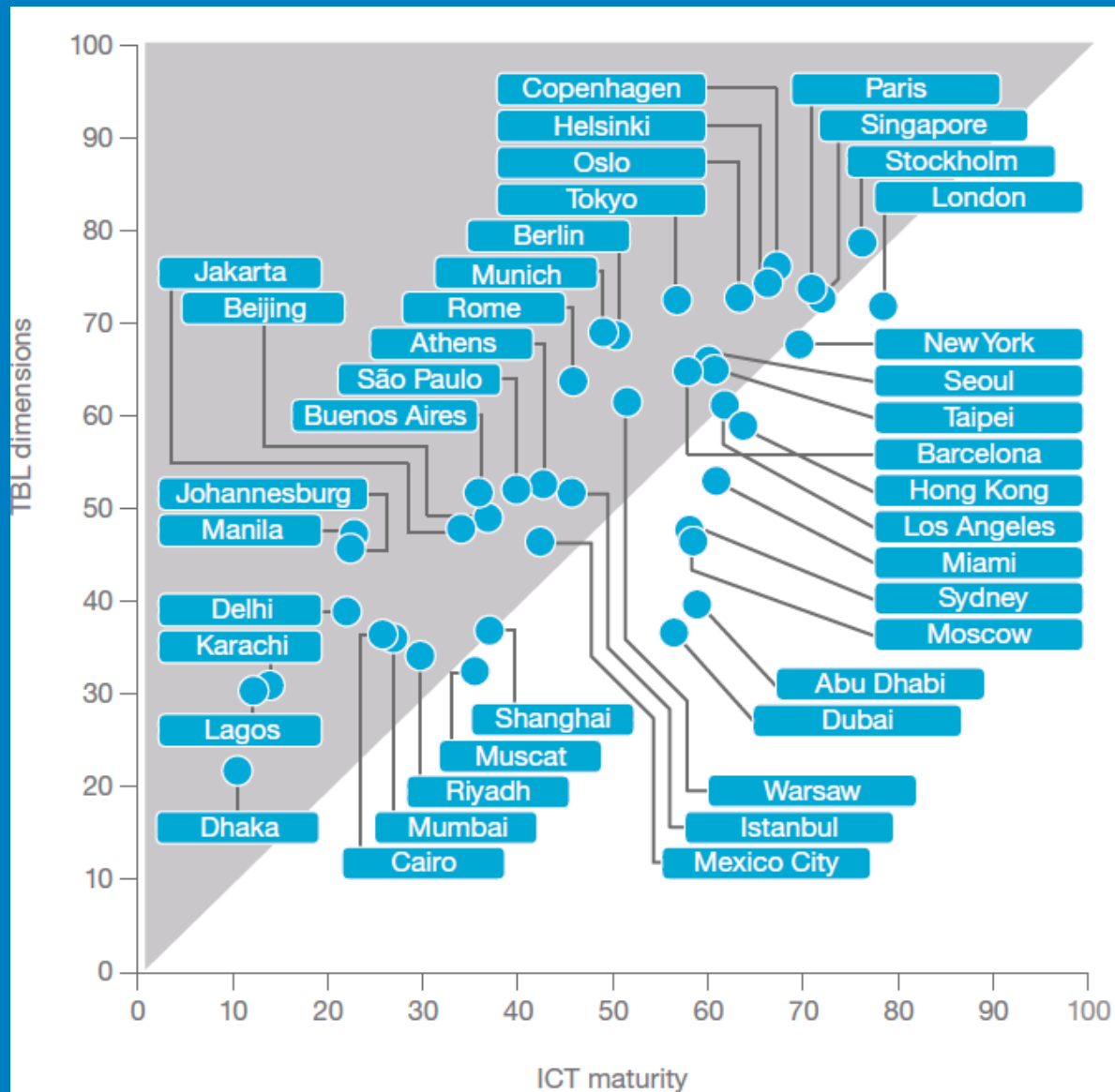


Figure 2 – 2016 Networked Society City Index ranking and the relation between TBL and ICT

GrowSmarter

for a Fossil free Stockholm 2040



The Capital of Scandinavia

Increased ambitions



"1,5 degrees"

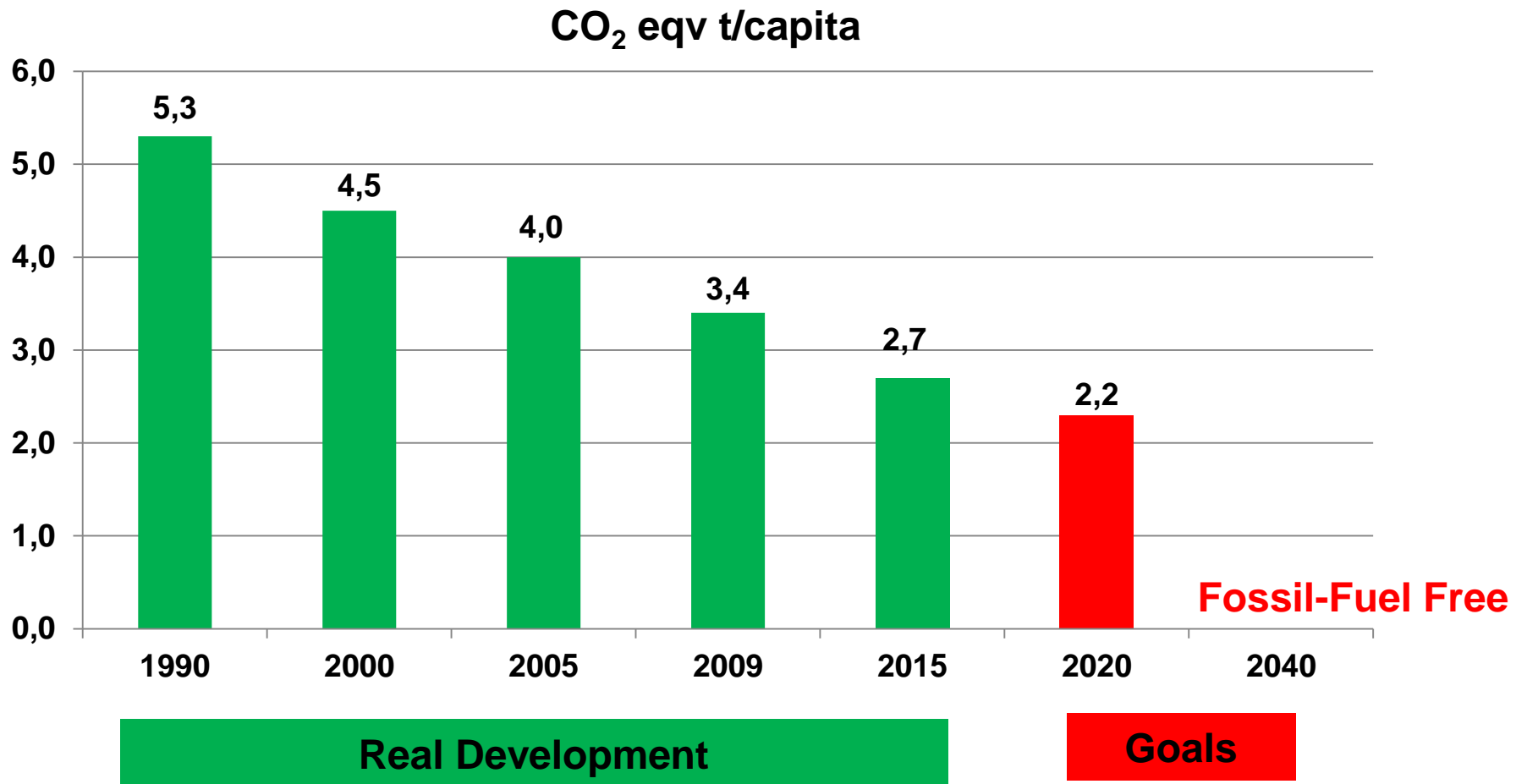


"Net zero 2045"



"Fossil fuel free 2040"

Goals and achievements



THE GROWSMARTER PROJECT 2015-19

Creating a Market for 12 Smart Solutions





Cities face the same challenges

GrowSmarter shows 12 smart solutions!



LOW ENERGY DISTRICTS

Smart solutions:

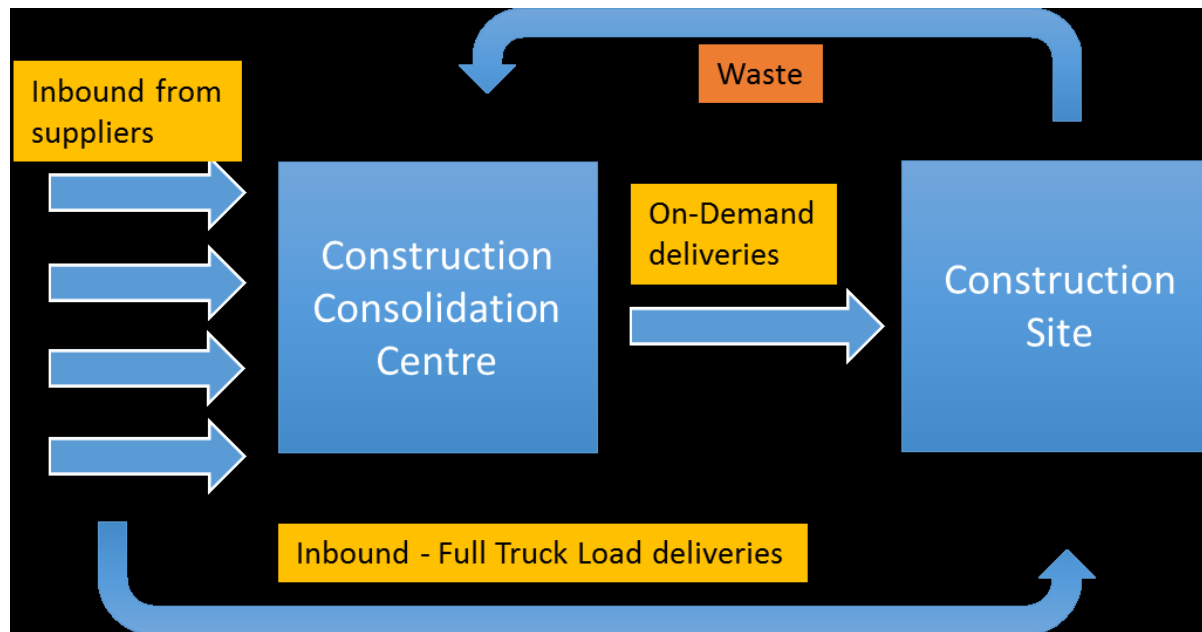
1. Efficient and smart climate shell refurbishment



LOW ENERGY DISTRICTS

Smart solutions:

1. Efficient and smart climate shell refurbishment
2. Smart Building logistics and alternative fuelled vehicles



LOW ENERGY DISTRICTS

Smart solutions:

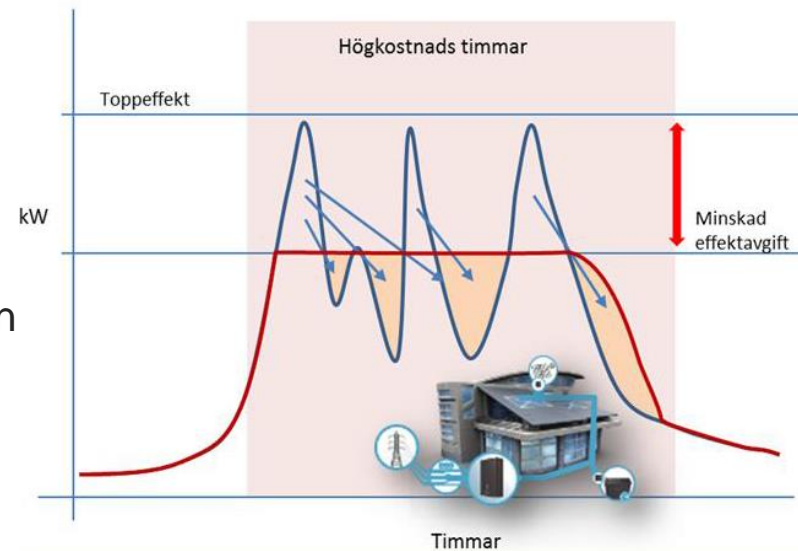
1. Efficient and smart climate shell refurbishment
2. Smart Building logistics and alternative fuelled vehicles
3. Smart, energy saving tenants through information



LOW ENERGY DISTRICTS

Smart solutions:

1. Efficient and smart climate shell refurbishment
2. Smart Building logistics and alternative fuelled vehicles
3. Smart, energy saving tenants through information
4. Smart local production of electricity and integration with power grid



VPP – Virtual Power Plant
VPM – Virtual Power Management

INTEGRATED INFRASTRUCTURES

Smart solutions:

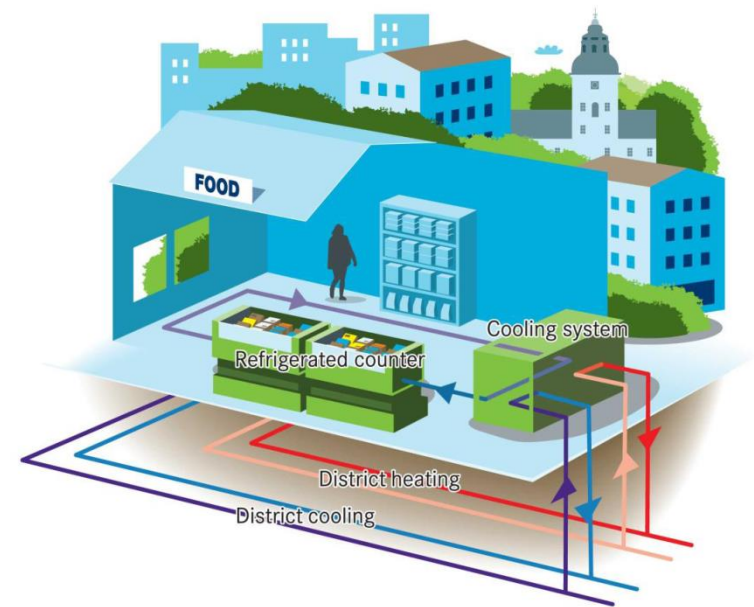
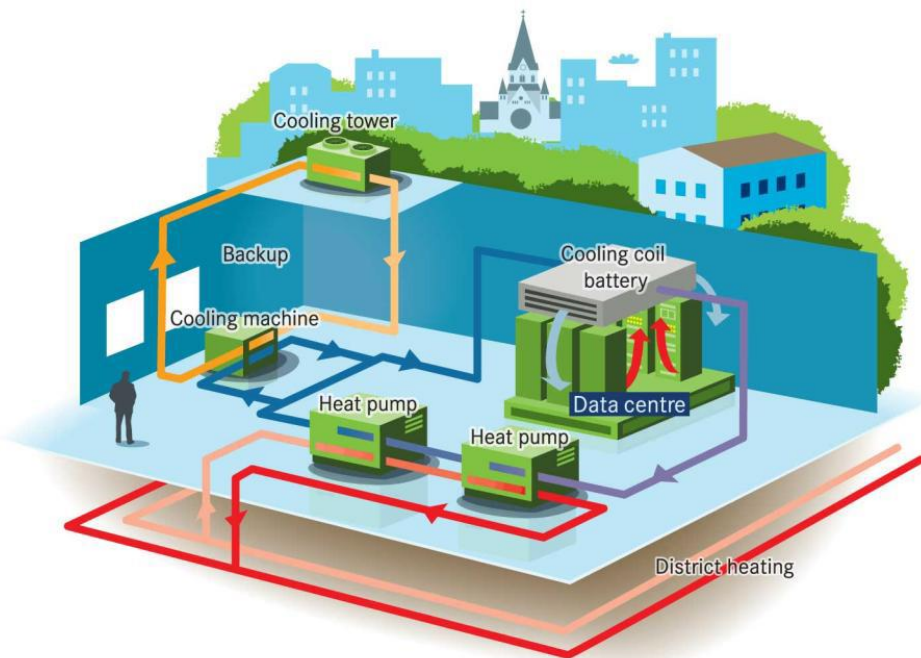
5. Smart lighting, lamp & traffic-posts as hubs for communication



INTEGRATED INFRASTRUCTURES

Smart solutions:

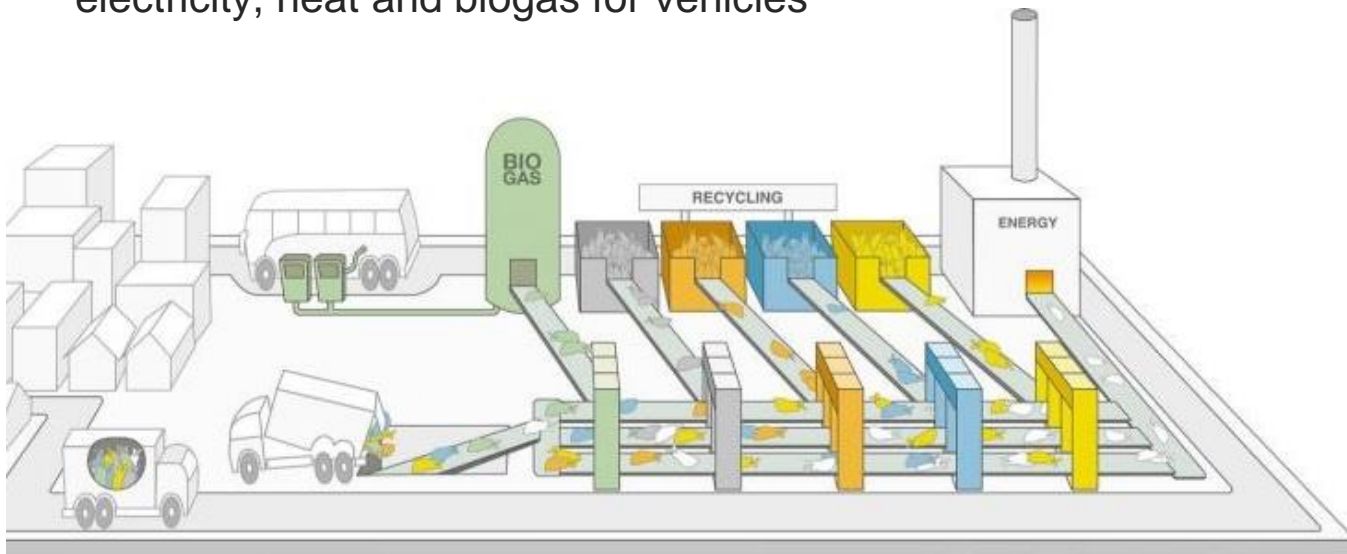
5. Smart lighting, lamp & traffic-posts as hubs for communication
6. Waste heat and local heat integration by new business models



INTEGRATED INFRASTRUCTURES

Smart solutions:

5. Smart lighting, lamp & traffic-posts as hubs for communication
6. Waste heat and local heat integration by new business models
7. Smart waste handling turning waste to electricity, heat and biogas for vehicles



INTEGRATED INFRASTRUCTURES

Smart solutions:

5. Smart lighting, lamp & traffic-posts as hubs for communication
6. Waste heat and local heat integration by new business models
7. Smart waste handling turning waste to electricity, heat and biogas for vehicles
8. Big data protocol for saving energy and improving the quality of life



SUSTAINABLE MOBILITY

Smart solutions:

9. Sustainable delivery:



SUSTAINABLE MOBILITY

Smart solutions:

- 9. Sustainable delivery
- 10. Smart traffic management



SUSTAINABLE MOBILITY

Smart solutions:

9. Sustainable delivery
10. Smart traffic management
11. Alternative fuel driven vehicles for decarbonizing and better air quality



SUSTAINABLE MOBILITY

Smart solutions:

9. Sustainable delivery
10. Smart traffic management
11. Alternative fuel driven vehicles for decarbonizing and better air quality
12. Smart mobility solutions



STOCKHOLM, COLOGNE AND BARCELONA

- **Lighthouse-cities show the way**
- Implement smart solutions together with industrial partners
- Show other interested cities
- Supply info to research partners



INDUSTRIAL PARTNERS



RESEARCH PARTNERS

Research partner energy/climate:

DO THE SMART SOLUTIONS MEET THE GOALS?

- Energy
- Climate
- Decarbonize energy system
- Local air quality

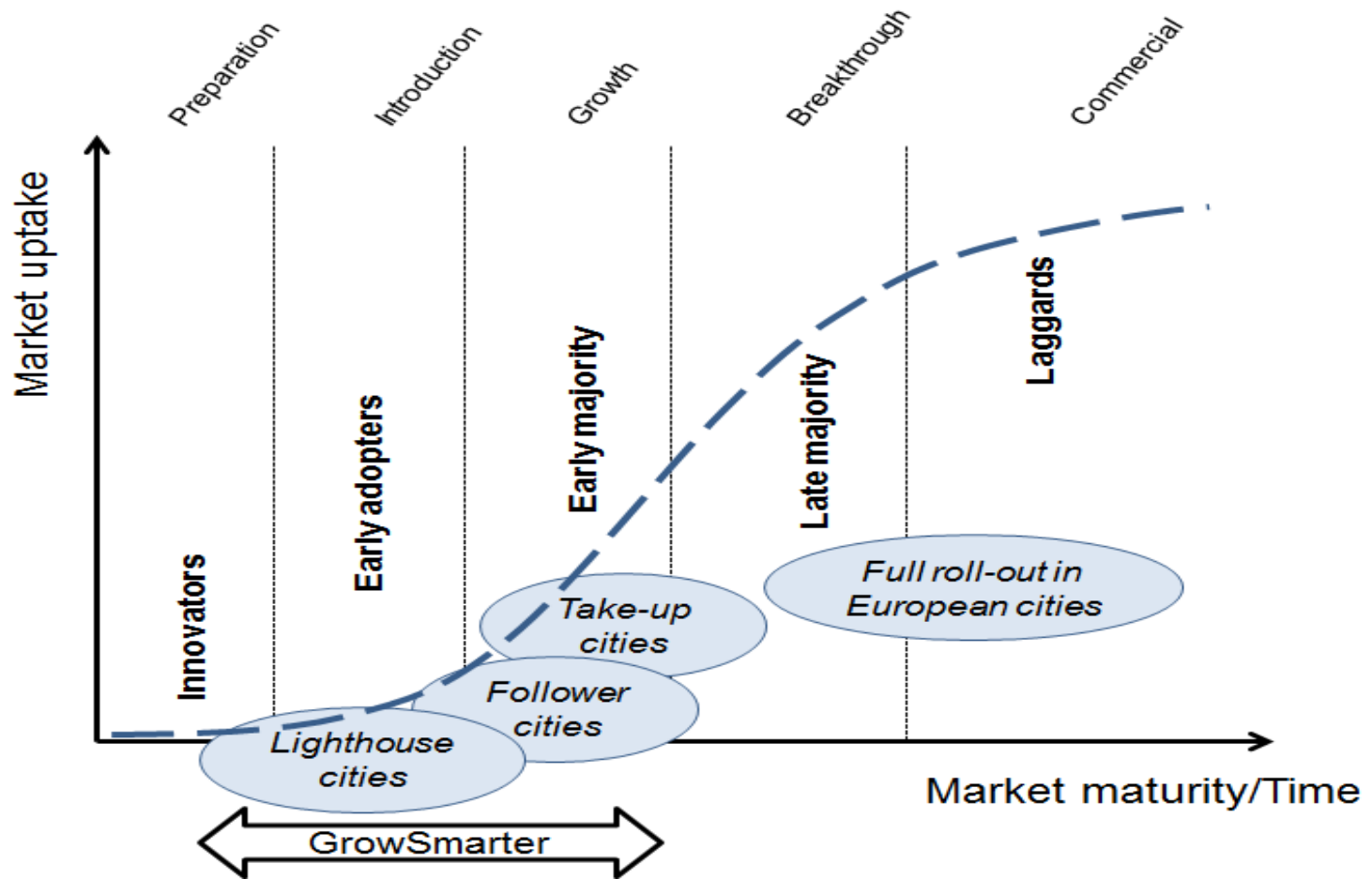
Research partner economy/growth:

DO THE SMART SOLUTIONS MEET THE GOALS?

- ⑩ Short pay-back for investments
- ⑩ Trigger large scale economic investments
- ⑩ Create growth in Europe



MARKET UPTAKE CURVE



Help Europe Grow Smarter!



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