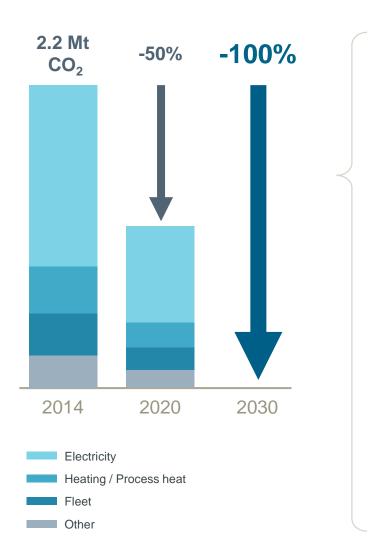




# Are your buildings 'smart'?

# Sustainability – Siemens aims to be net-carbon neutral by 2030





## We are investing over €100 million in measures to reduce our carbon footprint



#### **Drive energy efficiency program**

Increase energy efficiency in factories, employ sustainable technologies in new buildings



#### Leverage distributed energy systems

Reduce energy costs and CO<sub>2</sub> emissions



#### **Reduce fleet emissions**

Utilize potential of low-emission cars in fleet, including electro mobility



### Purchase green energy

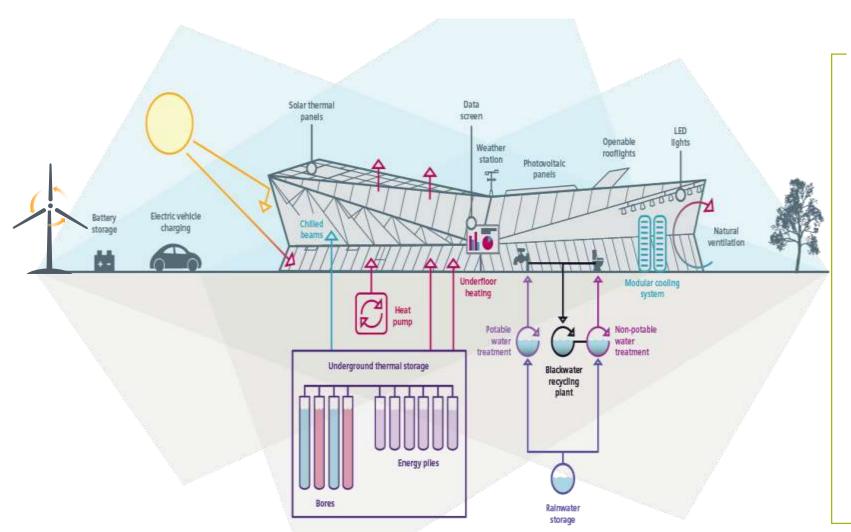
Move toward a significantly cleaner power mix with a strong focus on renewable energy and highly efficient gas

Independent auditors will monitor and report on progress of implementation.

### **The Crystal**

### An all-electric intelligent building





## Certification

The first building awarded with **LEED** Platinum **BREEAM** Outstanding





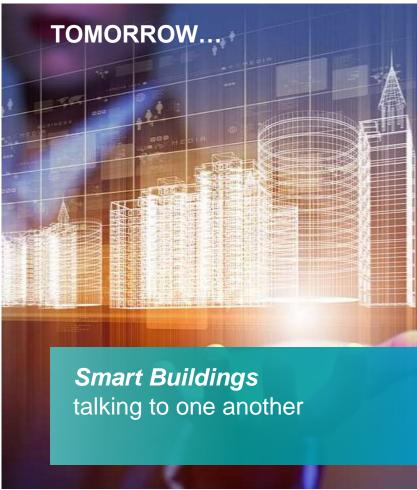
improved energy efficiency

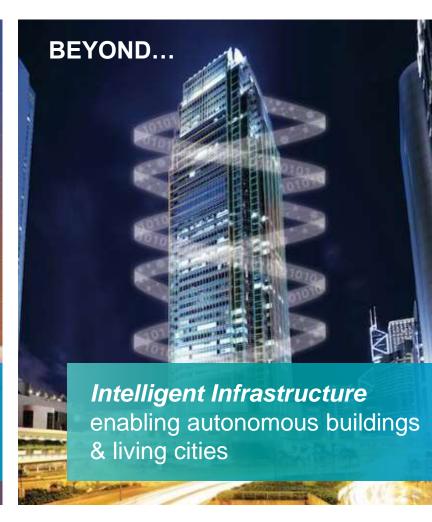
43% 71%

lower greenhouse gas emissions

## In the future, autonomous buildings will talk to each other and city infrastructure as part of a Living City of the future







# Electrification of transport: a key driver to reach sustainability targets!

# SIEMENS Ingenuity for life































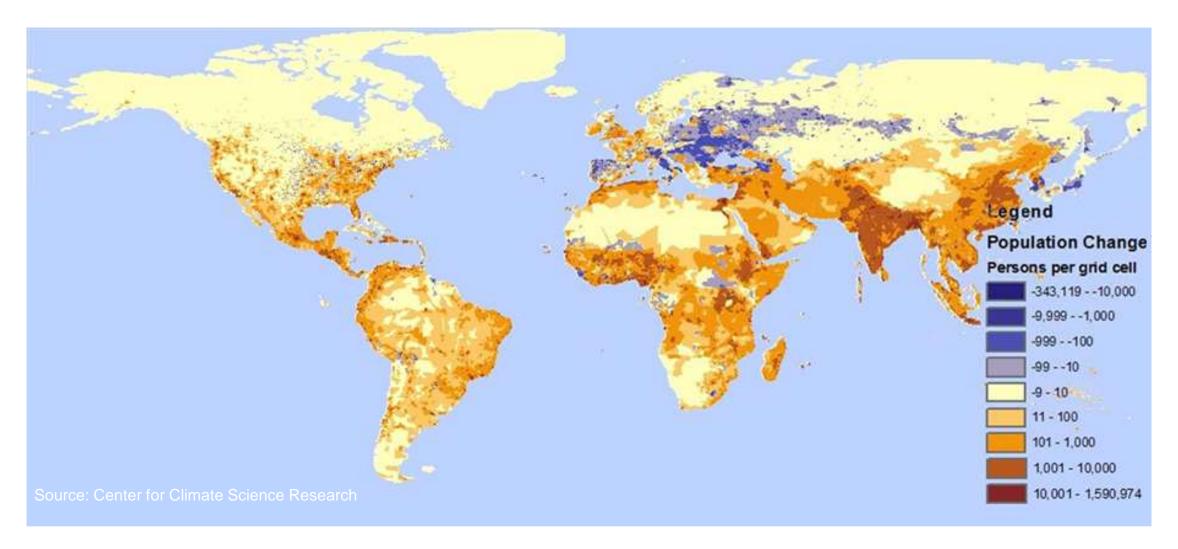
**Unrestricted © Siemens AG 2019** 



# Do we have the right vision/policy framework in place?

### 75% of world's cities located in exposed coastal zones





### **City Performance Tool**





### A number of cities supported by the City Performance Tool





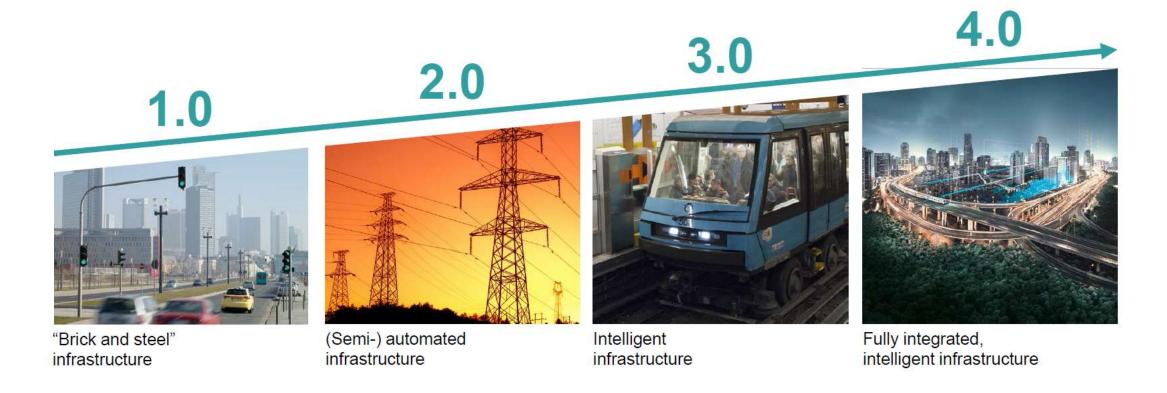
### **Outdoor Air Quality**





### The evolution of city infrastructure: City 4.0





Targeted investments drive increase in productivity, efficiency, capacity, resilience and quality of life



# What role can we all play?

### **Digitalisation in 2005**





## **Digitalisation in 2013**





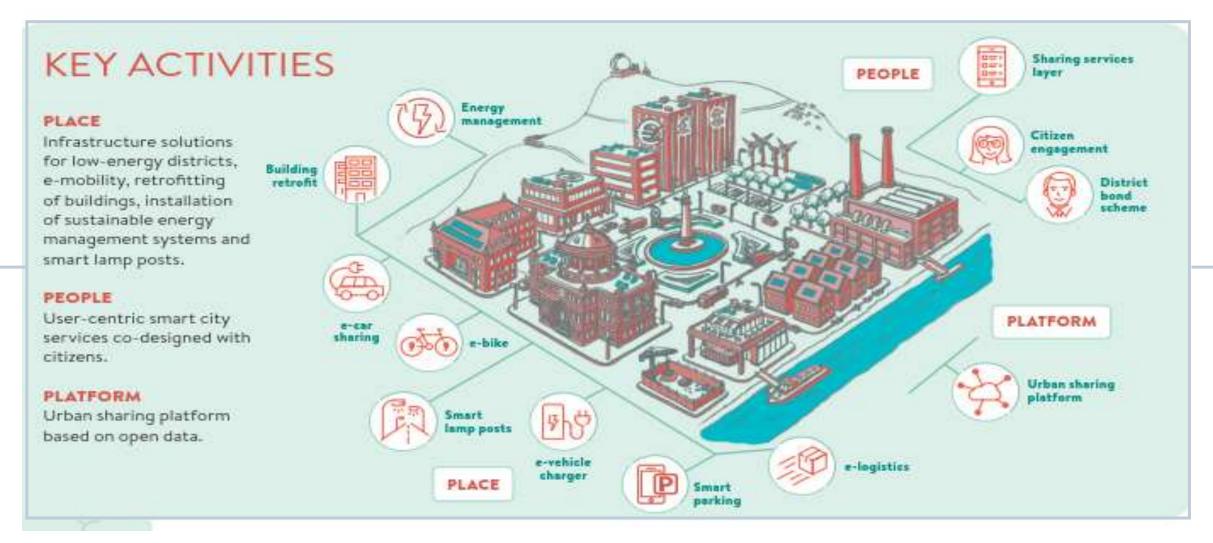
### **Brooklyn Blockchain Microgrid**





### **Sharing Cities: London / Greenwich, Lisbon and Milan**





### In summary: 3 calls to action





- 1. Construction Industry / Property owners
  - Ensure all your buildings are 'smart'
- 2. Cities / Government
  - > Set the right vision / policy framework
- 3. General Public / Others
  - You all have a part to play!