



SIEMENS



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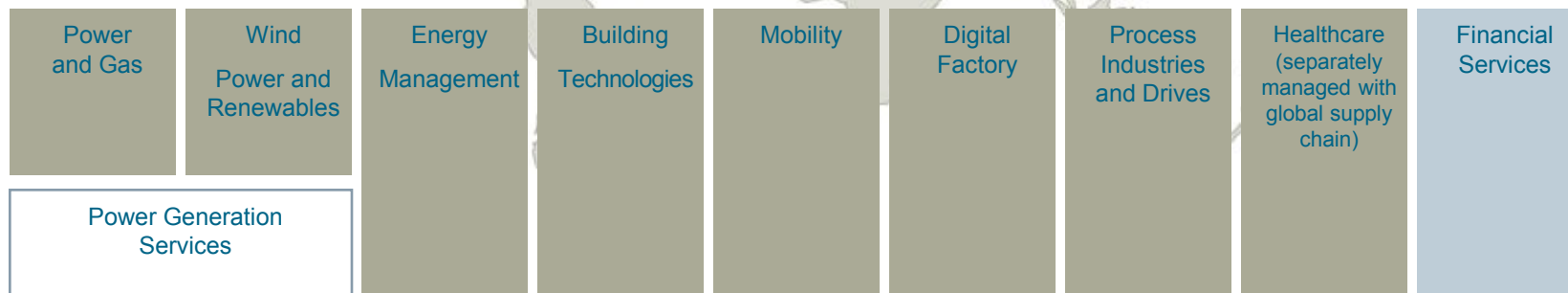
Campus Caparica | FCT – UNL | 2nd Net Zero-Energy Buildings Conference | 29 September 2015

Introducing the City Performance Tool

Customer-oriented organization

Global presence and go-to-market of our businesses

Americas Europe and Africa C.I.S. and Middle East Asia and Australia



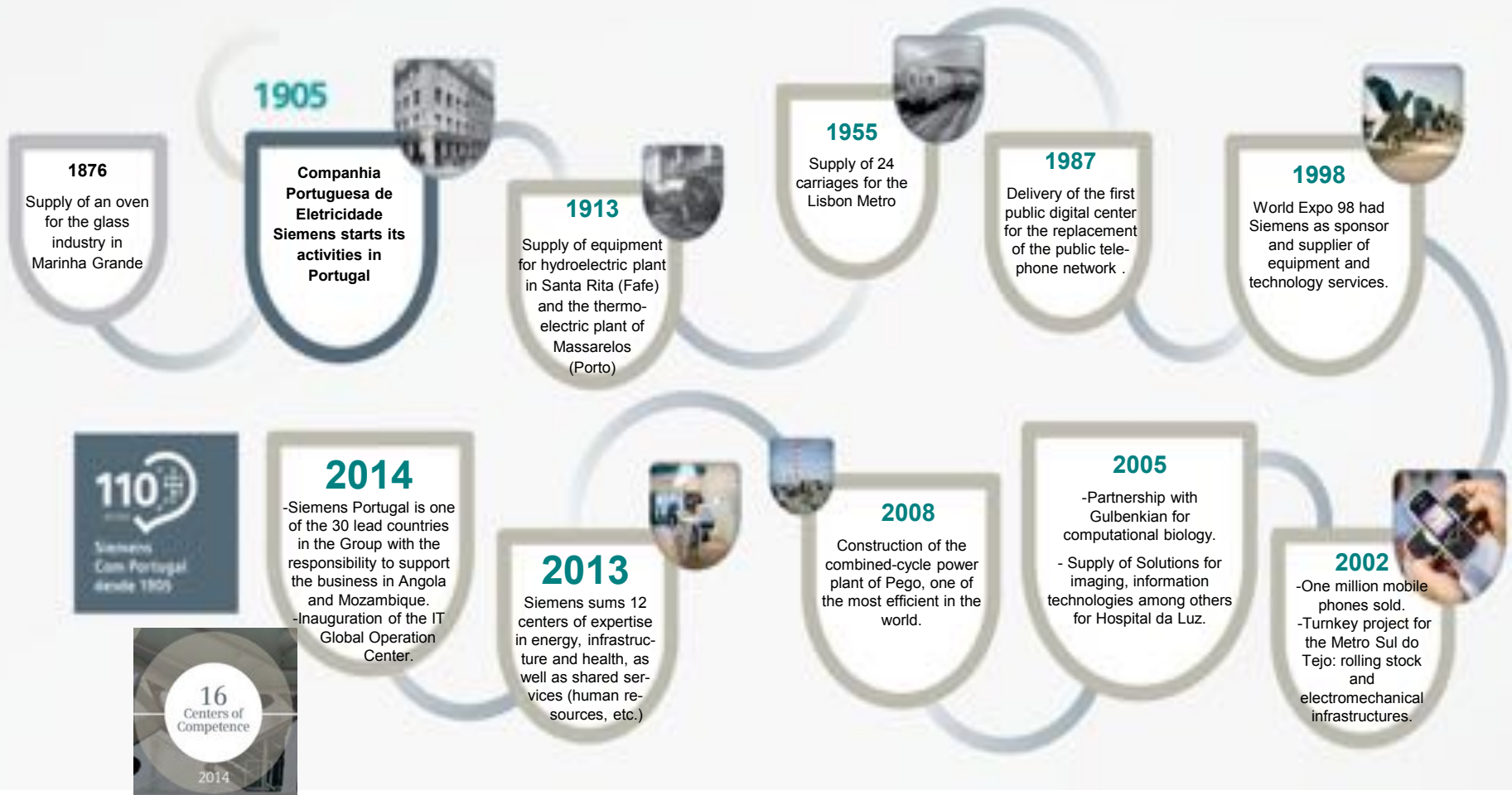
Research and development

Innovation has always been the foundation of our success

Siemens currently holds approximately **56,100** patents granted worldwide

1000 partnerships with universities, research institutes and other organizations around the world

110 years in Portugal



Cities Challenges




Cities Challenges



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Cities Challenges

A wide-angle photograph of the Golden Gate Bridge in San Francisco, California, viewed from a high vantage point. The bridge's iconic red-orange towers and suspension cables are prominent against a clear blue sky. The bridge spans across the deep blue waters of the San Francisco Bay. In the background, the city of San Francisco is visible, with its buildings and hills. The overall scene is bright and clear, suggesting a sunny day.

**Cities have different demand
Characteristics.
So why are they being supplied
with similar technologies?**

Culture shift !

Tailoring infrastructure solutions

Green City Index

Identify solutions that leading cities have implemented. But these technologies may be less relevant for other cities with different baselines

City Performance Tool

Identify solutions tailor-made for a city based on its own unique baseline



What is the CyPT?

- The City Performance Tool (CyPT) builds on **Siemens' proven experience** to help city decision makers exceed targets.
- The CyPT is a long-term strategic planning tool, which models how different combinations of energy, buildings, and transport technologies impact:
 - **Air Quality** (NOx and PM10)
 - **GHG Emissions**
 - **Job Creation**
 - **CAPEX and OPEX**
- Results are published in **an infrastructure strategy** report, which can be used for:
 - Strategic Planning
 - Marketing and Communications
 - Current and Future Projects





25 Building Levers

- for Residential and Non Residential**
- Wall Insulation
 - Building Performance Optimiation
 - Double / Triple Glazing
 - Room Automation
 - Building Automation
 -

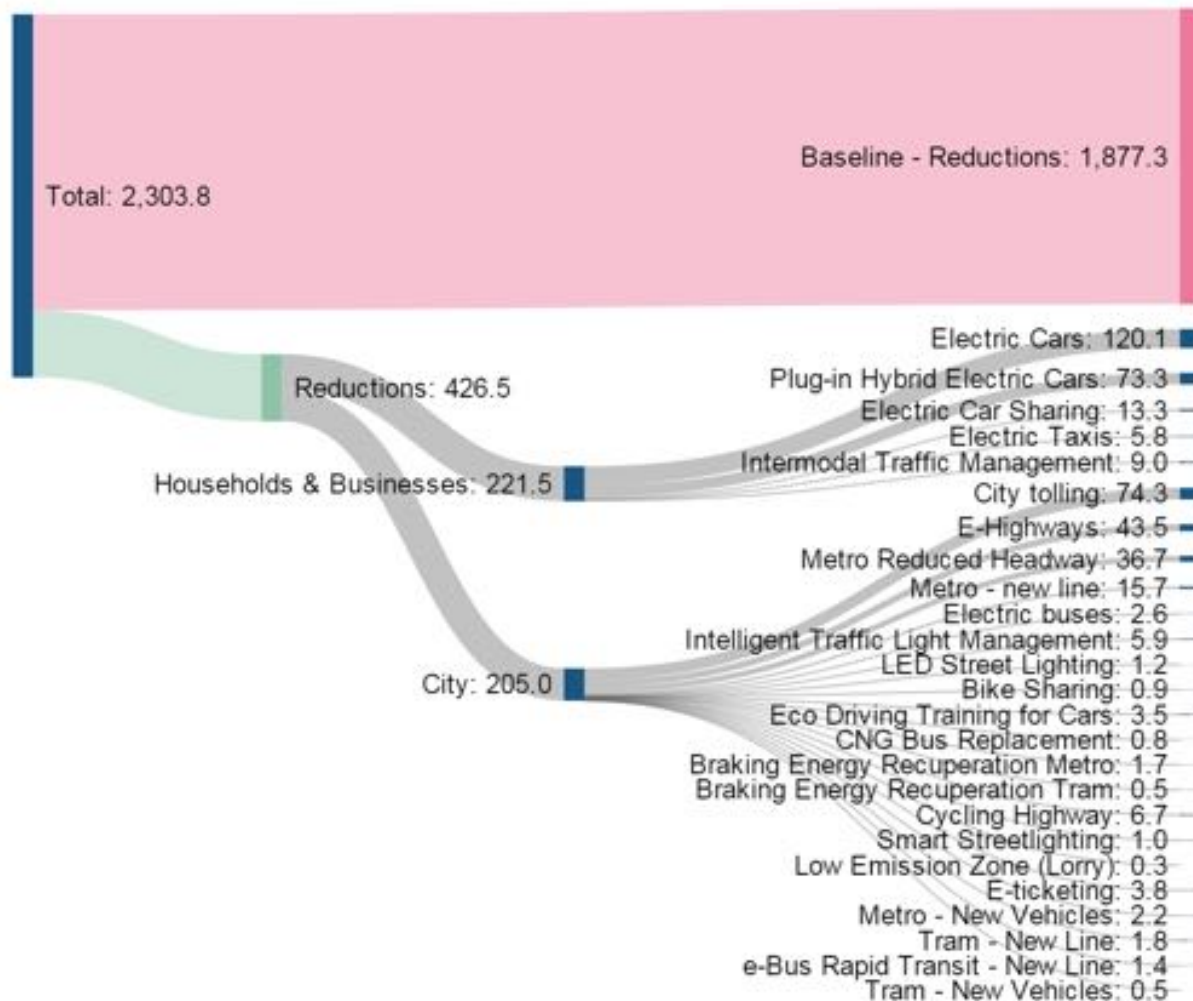
38 Transport Levers

- New Metro Line
- Hybrid Bus
- LED Street lighting
- CNG Buses
- City Tolling
- Low Emission Zones
-

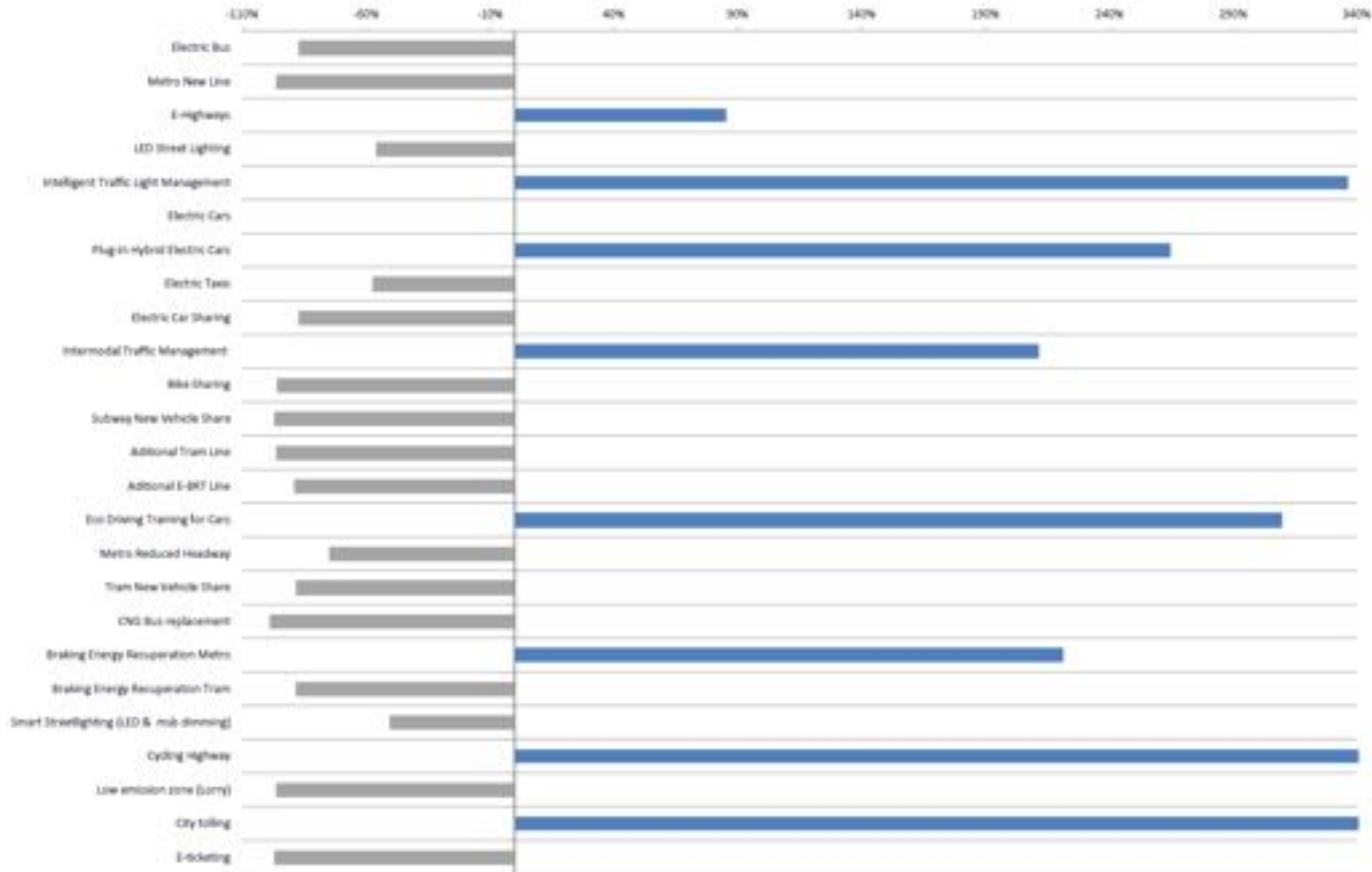
10 Energy Levers

- Pholtovoltaic
- Wind Power Generation
- Smart Grid for Monitoring and Automation
- Smart Metering
- Combined Heat and Power
-

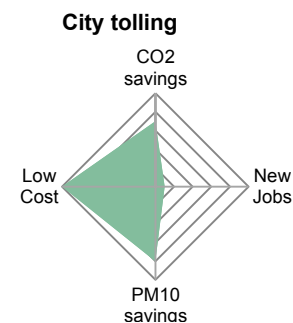
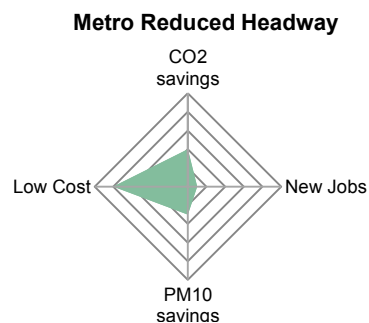
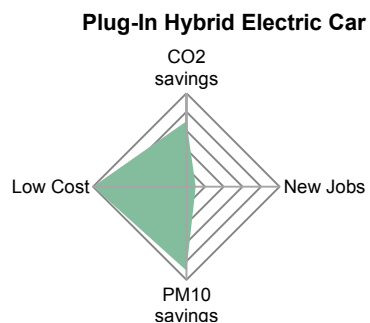
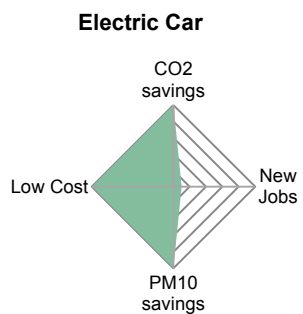
Identify the top performing technologies



Compare cost-effectiveness of technologies



Compare benefits across KPIs



Vienna

Munich

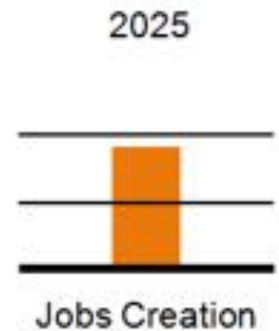
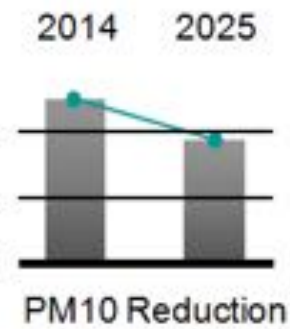
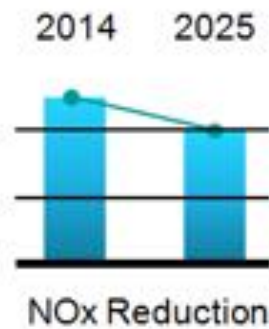
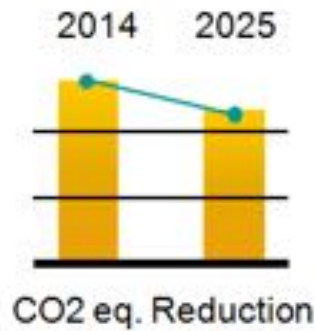
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Climate
Economy



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