

# CITIES & DIGITAL TRANSFORMATION

Creating smart cities for the 21<sup>st</sup>  
century and beyond

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# Goal of smart cities

- ▣ Optimise sustainability through technology and innovation
- ▣ Requires digital transformation taking into account sustainability targets
- ▣ Sustainability refers to long-term environmental, infrastructure and economic outcomes

# Digital tools for transformation

- ▣ On-site or remote hardware and software (data storage, microprocessors, sensors)
- ▣ Cloud-based products, services and storage (information, geospatial applications, data storage)
- ▣ Crowd-sourced information and updates
- ▣ Artificial intelligence and machine learning (unsupervised models and algorithms)

# Outcomes

- ▣ Efficient and unified city ecosystem
- ▣ Operational efficiency (products, processes, infrastructure)
- ▣ Environmental sustainability
- ▣ Engaged residents and visitors
- ▣ Quality of life for citizens
- ▣ New services and products, as well as experiences for residents – business and private
- ▣ New sources of revenue for city

# Case study: Road congestion in Stockholm

