

The background of the slide is a blurred industrial setting. It features several blue and orange IoT devices, possibly smart meters or sensors, mounted on a complex network of pipes and machinery. The blue devices have small screens and buttons, while the orange ones are more rectangular. The overall scene suggests a smart industrial environment.

NOKIA

TELE2
Makes IoT happen

Next Generation Services to Support Digital Transformation

Ankur Bhan

Global Head of Nokia Worldwide IoT Network Grid

Michael Westberg

Vertical Specialist Utilities, Tele2 IoT

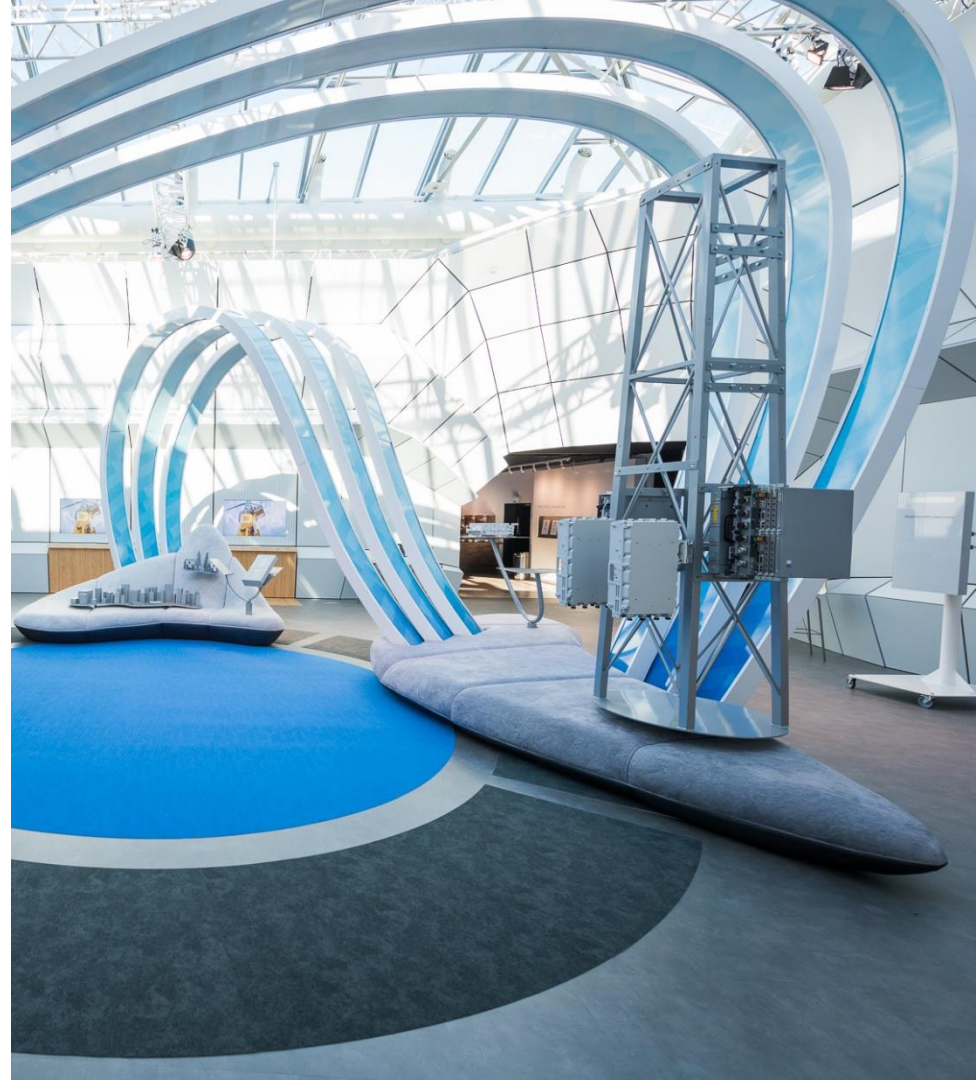
Welcome to the Nokia Executive Experience Center

Few Quick Facts about the EEC

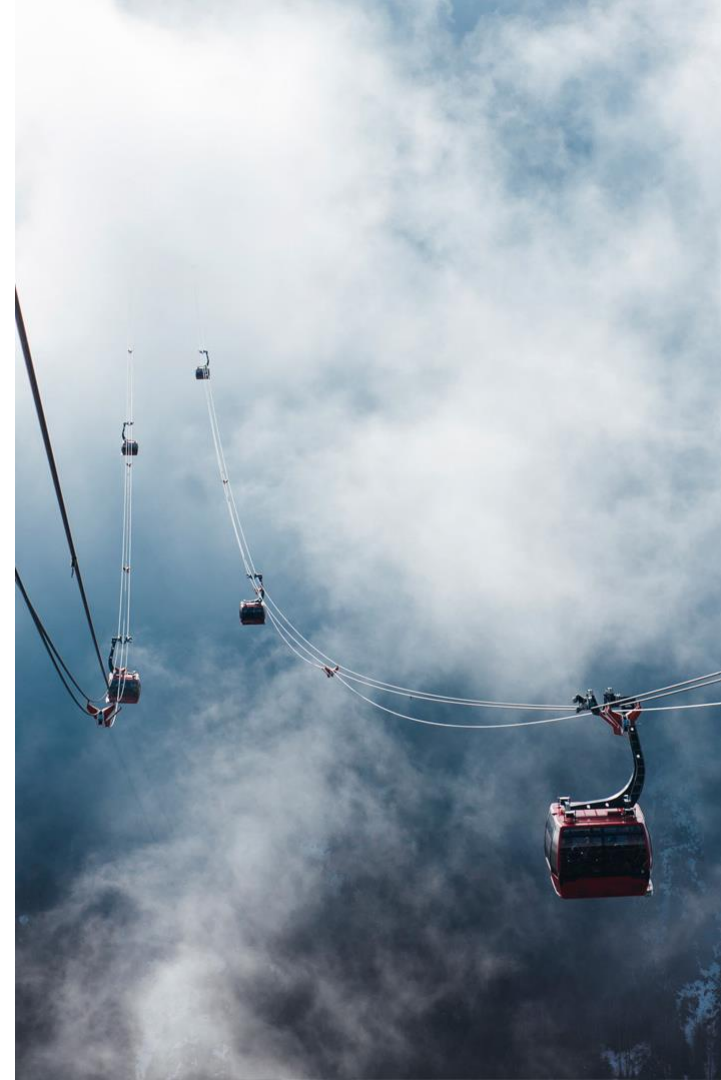
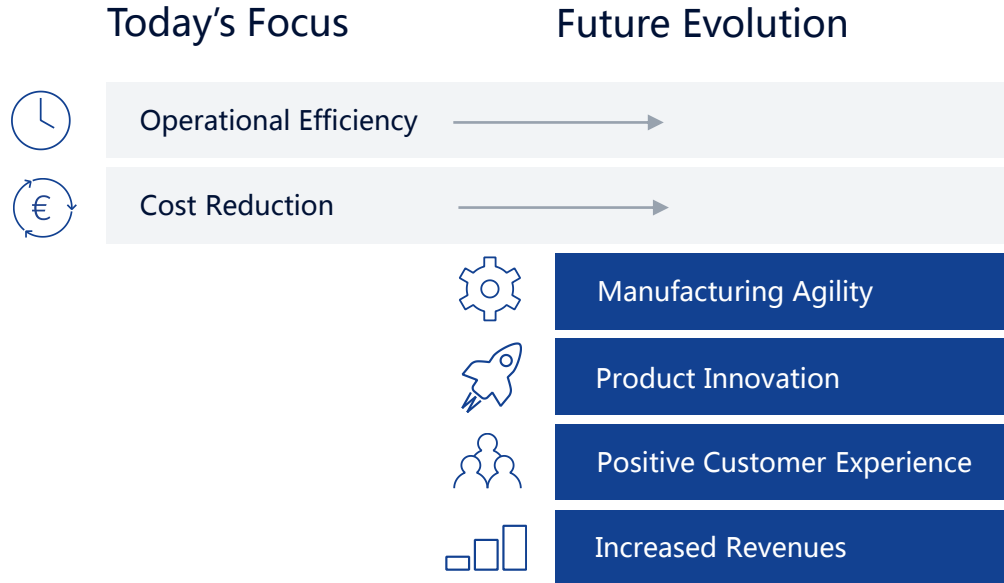
- In 2017, hosted more than 270 visiting groups across telecom, verticals and governments
- More than 43 Executive Review Meetings and 40+ events
- Lots of dignitaries, including Minister of Telecom from Ghana just this week

Featured Demos

- Worldwide IoT Network Grid
- IoT Energized for Utilities
- Integrated Operations Center for Smart Cities
- Nokia Digital Automation Cloud
- Private LTE MulteFire
- Unlock value from network data with Nokia AVA



Digital Transformation for Industries



Energy Efficiency Challenges

Global
Economic
Growth at

3%

Limited increase in energy efficiency (only 1%) not enough to limit climate change

Electricity
production
growth at

2%

50% of CO₂ emissions are attributed to electricity from residential and commercial buildings

Farming accounting
for wasted water

70%

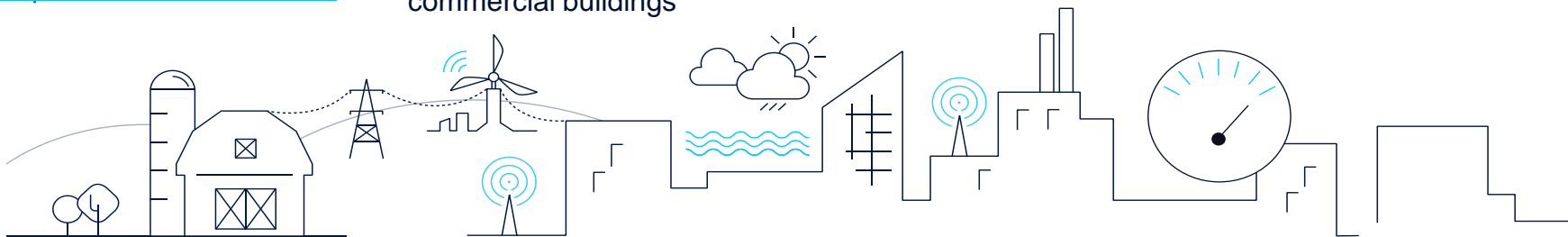
50% of water can be saved by using high precision IoT irrigation systems

Global increase in
urban solid waste

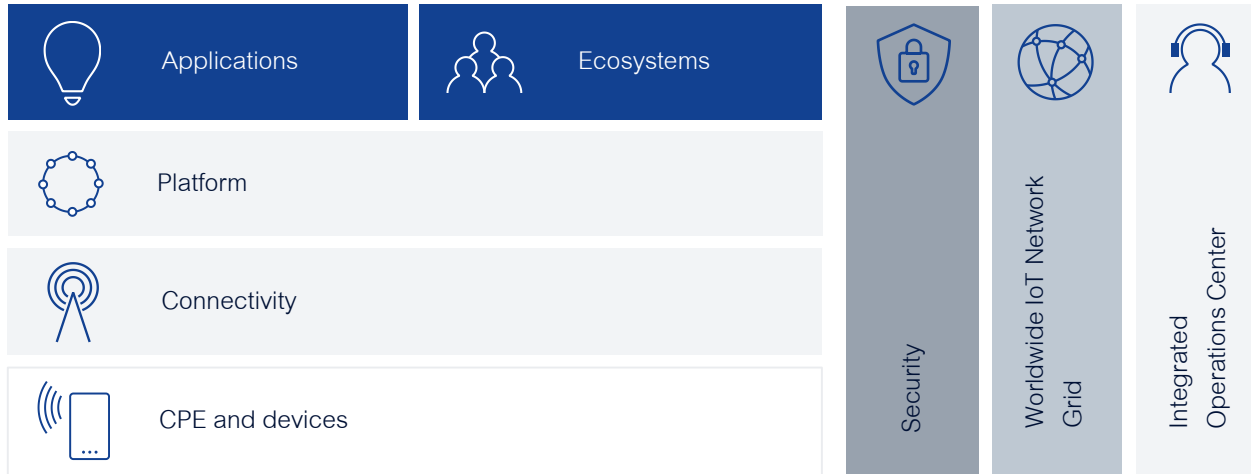
70%

\$4BN in savings expected in Barcelona with smart trash cans

pressures



Comprehensive technology and services portfolio to enable 4th industrial revolution



Nokia acquired SpaceTime to Boost our Applications



SpaceTime has a global, Fortune 500 customer base

- Customers across markets, including 8 of the 20 largest utilities
- Advanced analytics for asset-intensive industries
- Machine to Machine to Human Continuous optimization
- Holistic Machine Learning to Predict and optimize
- Rapid time-to-value and quickly add new capabilities

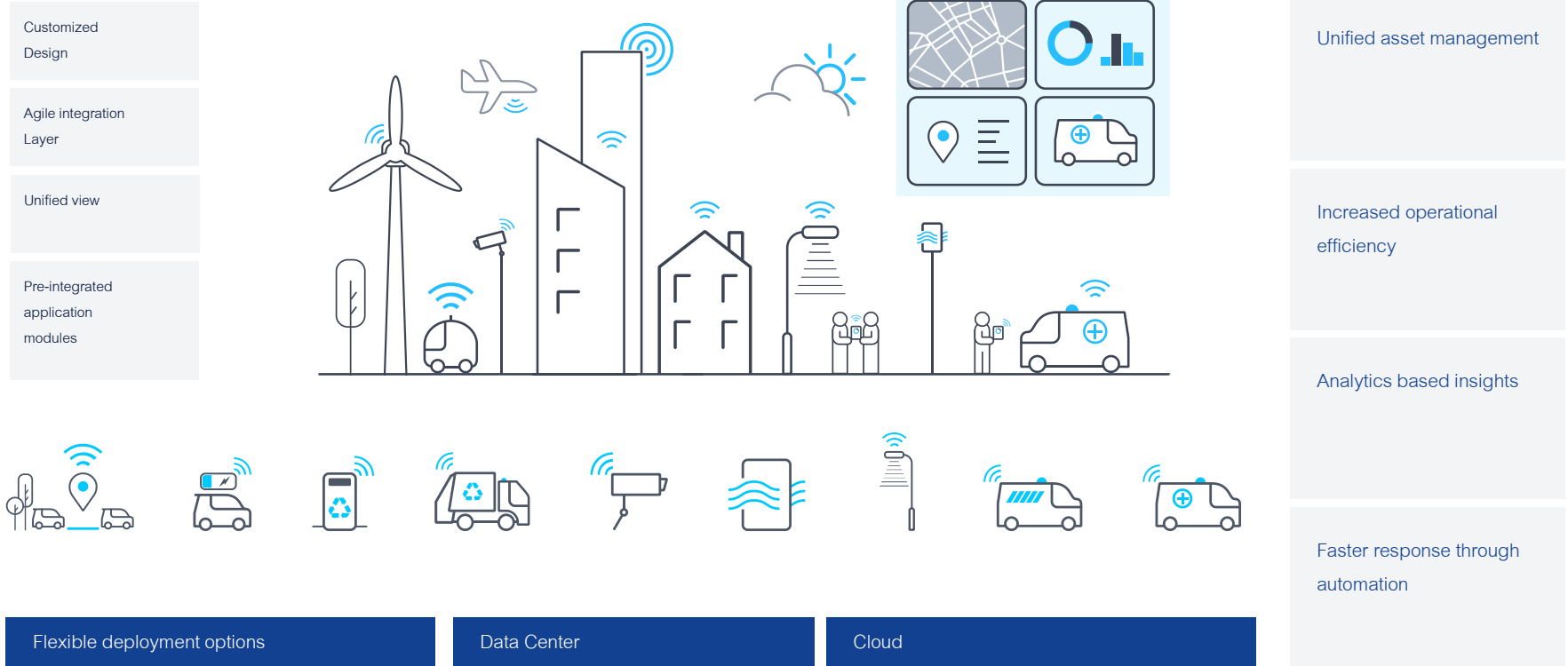
Transmission & distribution intelligence solutions



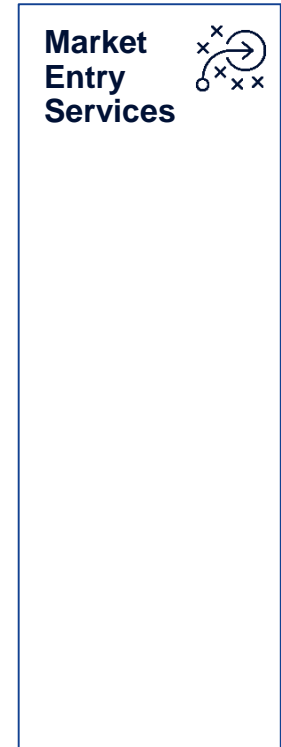
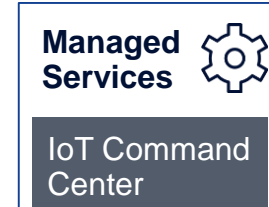
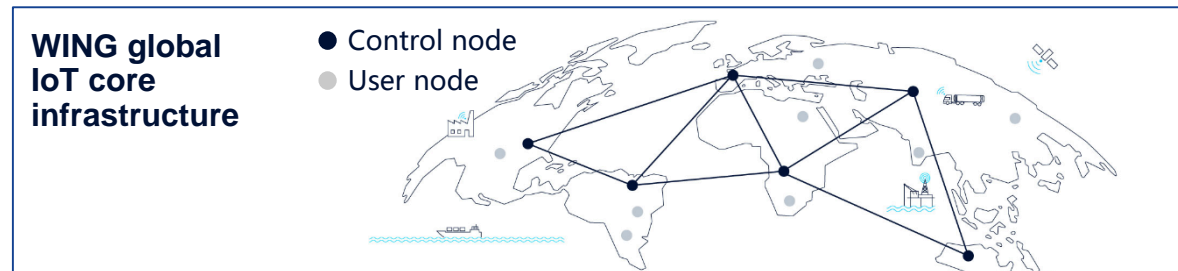
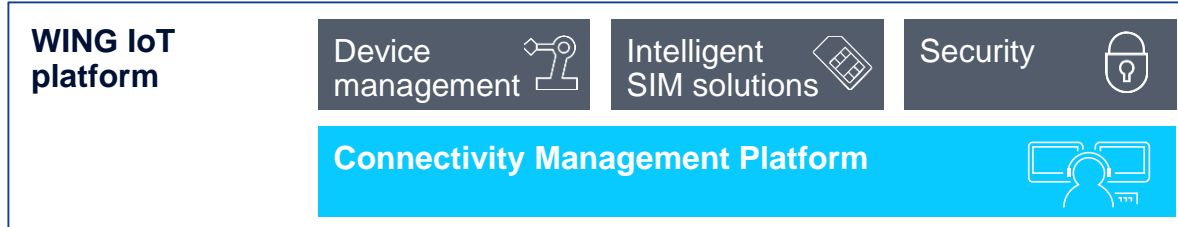
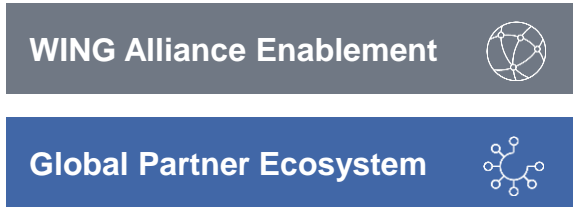
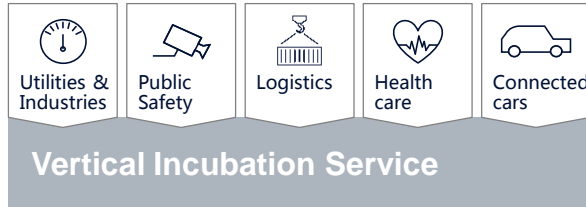
Predictive maintenance & optimization



Nokia Integrated Operations Center



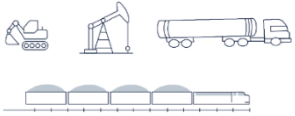
Nokia Worldwide IoT Network Grid (WING)



Global industrial enablement

Fully integrated data collection across entire value chain

Supply chain



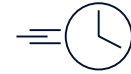
Production



Distribution



Benefits for Industry



Fast IoT time-to-market



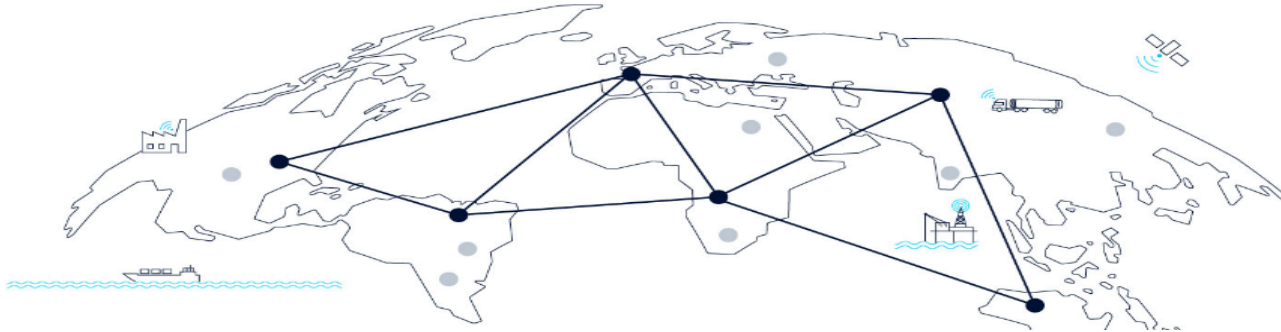
New revenue streams



Global connectivity



One point of contact



Conclusion

1

Infinite possibilities with Fourth Industrial Revolution

2

Digital skills and new business models needed to lead the transformation

3

Global seamless connectivity is the oxygen of IoT