Next Generation Services to Support Digital Transformation

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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

<table>
<thead>
<tr>
<th>Today’s Focus</th>
<th>Future Evolution</th>
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</thead>
<tbody>
<tr>
<td>Operational Efficiency</td>
<td></td>
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<tr>
<td>Cost Reduction</td>
<td>Manufacturing Agility</td>
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<td></td>
<td>Product Innovation</td>
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<td>Positive Customer Experience</td>
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<td>Increased Revenues</td>
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## Energy Efficiency Challenges

<table>
<thead>
<tr>
<th>Global Economic Growth at</th>
<th>Electricity production growth at</th>
<th>Farming accounting for wasted water</th>
<th>Global increase in urban solid waste</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3%</strong></td>
<td><strong>2%</strong></td>
<td><strong>70%</strong></td>
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</tr>
<tr>
<td>Limited increase in energy efficiency (only 1%) not enough to limit climate change</td>
<td>50% of CO₂ emissions are attributed to electricity from residential and commercial buildings</td>
<td>50% of water can be saved by using high precision IoT irrigation systems</td>
<td>$4BN in savings expected in Barcelona with smart trash cans</td>
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- $4BN in savings expected in Barcelona with smart trash cans.
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

- Increased operational efficiency
- Analytics based insights
- Faster response through automation
- Unified asset management

- Customized Design
- Agile integration Layer
- Unified view
- Pre-integrated application modules

Flexible deployment options
Data Center
Cloud
Nokia Worldwide IoT Network Grid (WING)

WING IoT platform

- Device management
- Intelligent SIM solutions
- Security

Connectivity Management Platform

WING Alliance Enablement

Global Partner Ecosystem

Vertical Incubation Service

Managed Services

IoT Command Center

Market Entry Services

WING global IoT core infrastructure

- Control node
- User node
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