

5G as an Innovation Catalyst



Ericsson for the ITU Forum
"Towards a 5G enabled Gigabit Society"
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Relations & Innovation

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5G is use case driven



Massive IoT

Smart meter Tracking Fleet management

Critical IoT

Industrial application & control Traffic safety & control Remote manufacturing

Enhanced MBB

VR/AR 4K/8K UHD Smartphones

Fixed Wireless Access

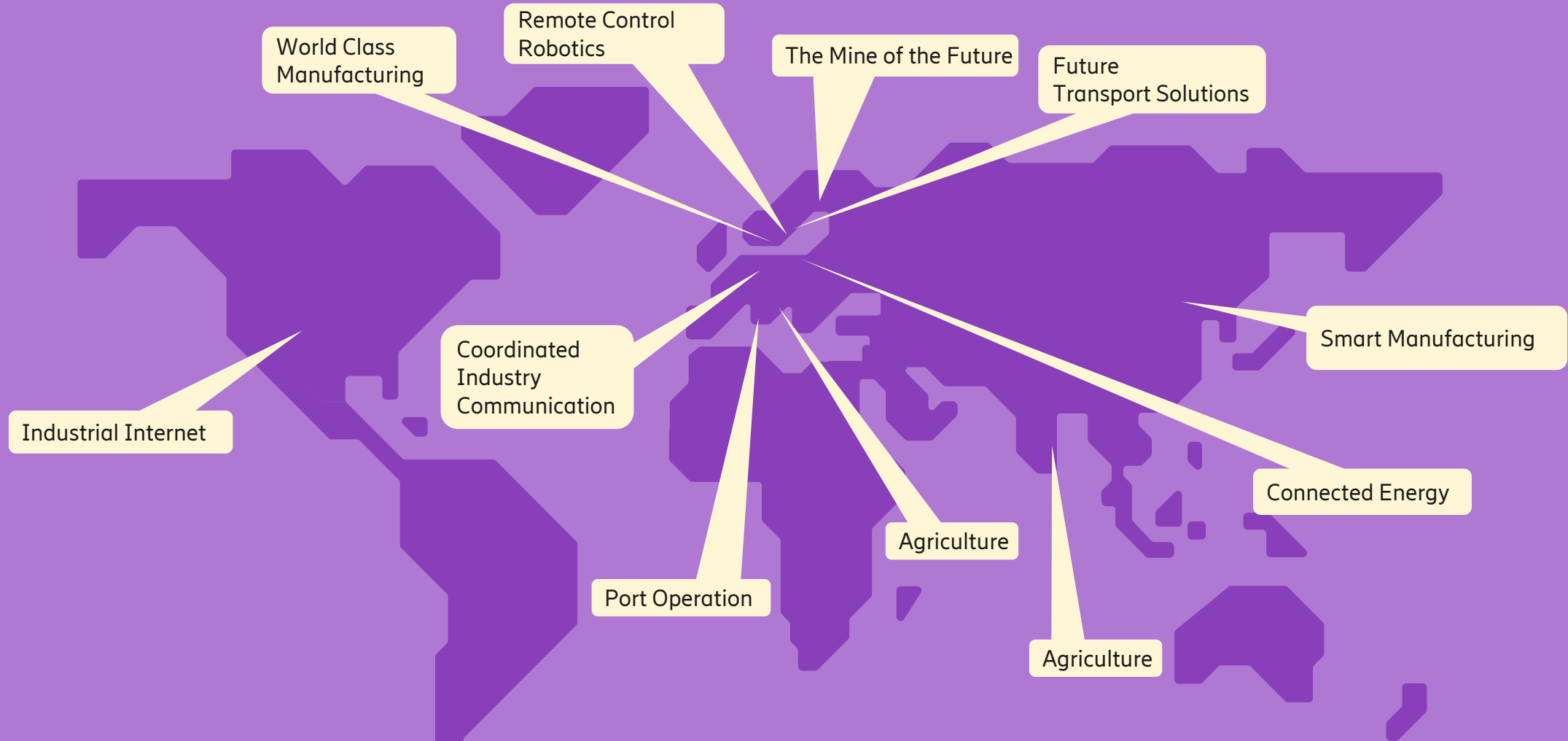
Mobile / Wireless / Fixed Enterprise Home

Ericsson driving the 5G Innovation Ecosystem



- 5 announced 5G deals
- 40 operator MoUs
- 22 industry partners
- 45 university and institute collaborations

5G innovative Industry Use Case examples



45 academia & research collaborations for 5G

22 industry pilots to explore new business

The mine of the future



Partners:



5G enabled mining – remotely controlled vehicles



5G enabled mining - IoT in the mine



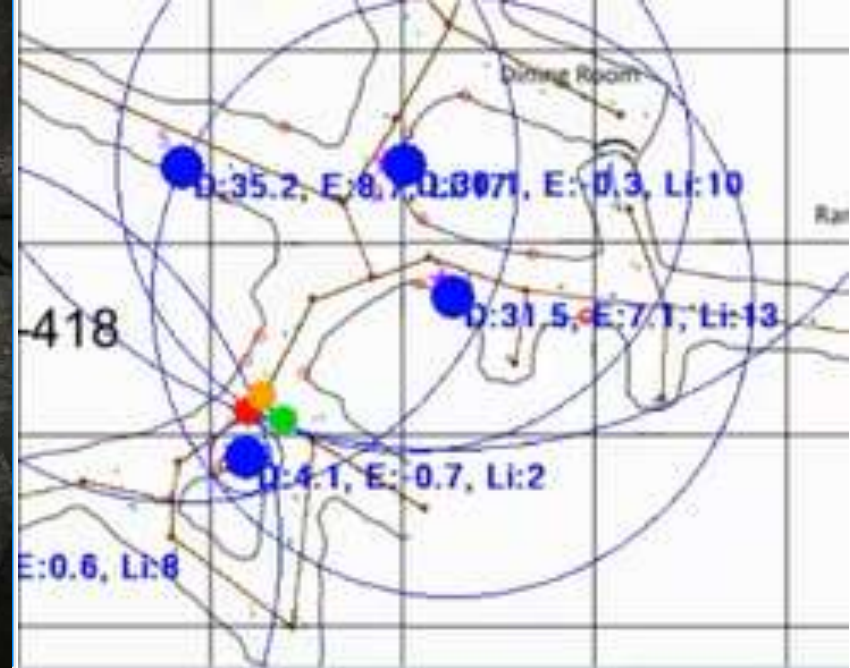
"As a mine operator I want to secure good air quality for improved safety by more advanced control of ventilation"

"As responsible for mine safety I want to secure improved safety by understanding rock movements"

"As responsible for mine safety I want accurate positioning because it will improve safety"



Photo: Boliden



5G enabled manufacturing – real-time control case study



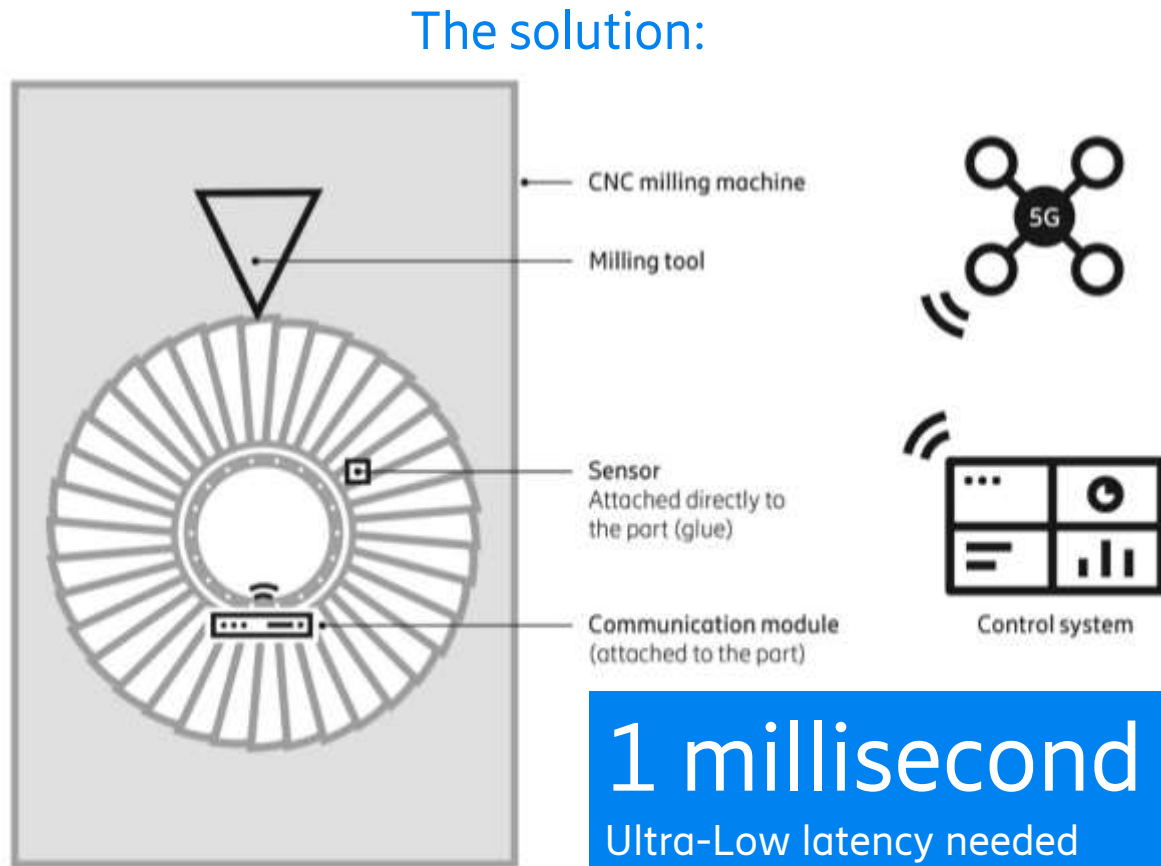
Ericsson and Fraunhofer IPT
Research Centre



5G enabled BLISks (BLade Integrated diSKs) manufacturing



The challenge:
25%
rework needed



EUR 360m
annual savings through
5G-enabled real-time
monitoring & control

16 million
metric tons potential
reduction
of global CO₂ emissions*

1 millisecond
Ultra-Low latency needed
for real-time control of the
BLISK manufacturing process

*: assuming 2% more efficient jet engines resulting from higher quality BLISks



Fraunhofer
IPT

Creating a 5G Innovation Ecosystem



We collaborate with academic institutions and a wide variety of industry partners to:

...innovate the digital transformation of different industries

...identify tomorrow's use cases

...explore innovative business models and new value networks

