Orchestrating a brighter world NEC

2018 IoT International Symposium

Dependable wireless technologies

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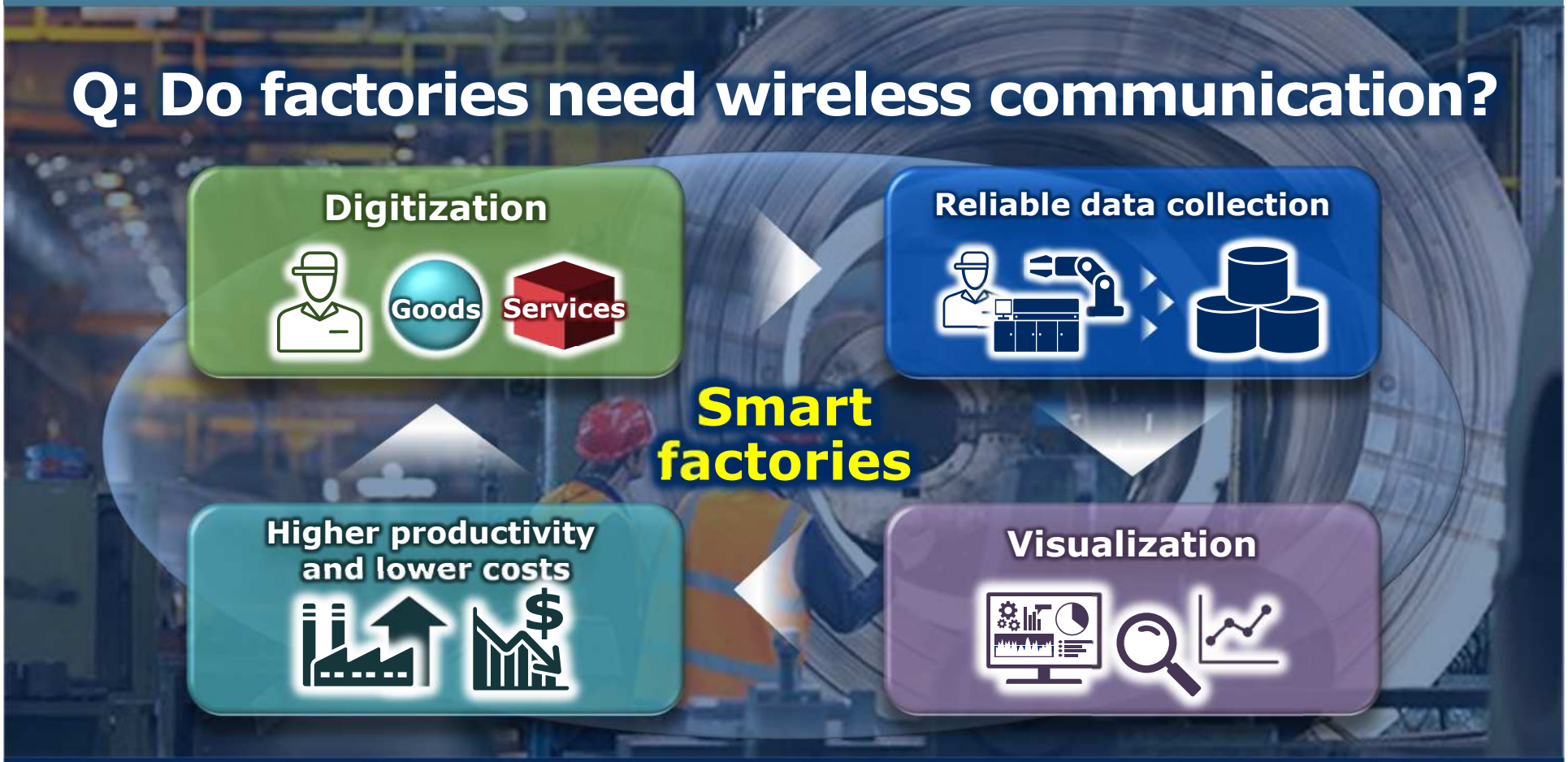
Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create the ICT-enabled society of tomorrow.
We collaborate closely with partners and customers around the world, orchestrating each project to ensure all its parts are fine-tuned to local needs.

Every day, our innovative solutions for society contribute to greater safety, security, efficiency and equality, and enable people to live brighter lives.

The challenges of going wireless in the manufacturing industry

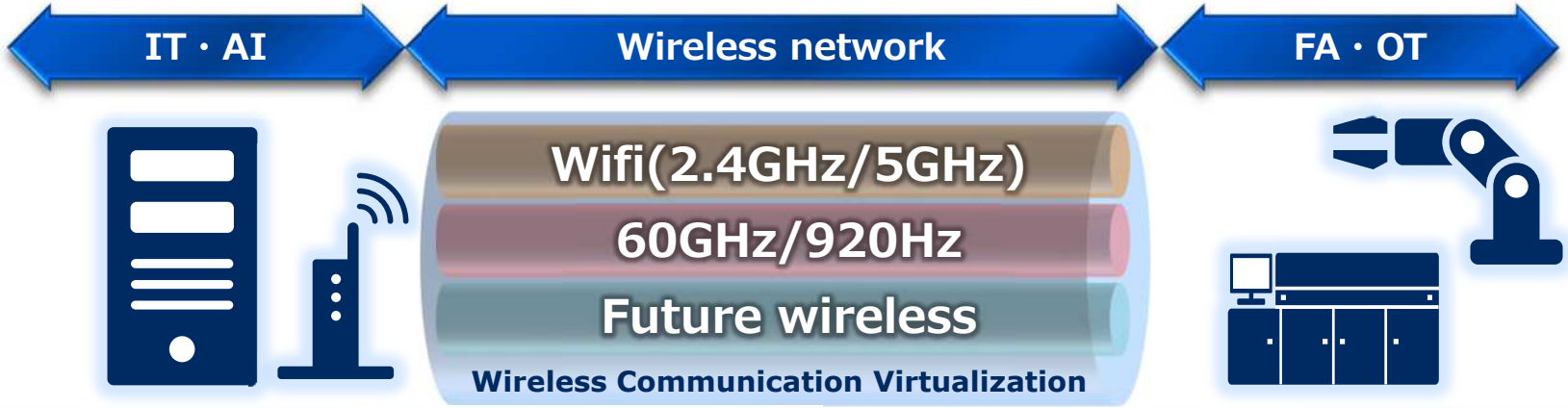


The challenges of going wireless in the manufacturing industry

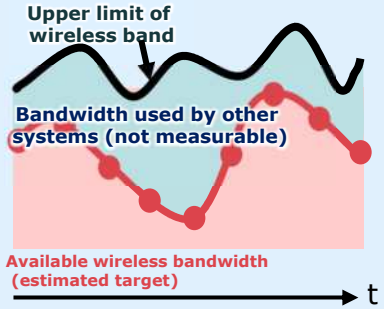
A: Wireless communication is essential for factories

**Contribute "Dependable wireless"
through realization of Smart Resource Flow (SRF)
wireless platform**

Reliable, low-latency communication supported by IT and AI

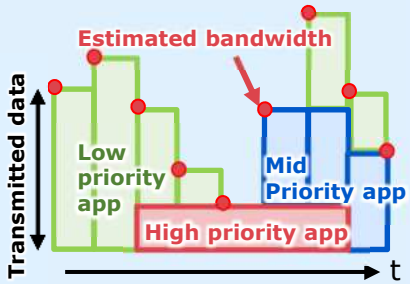


Bandwidth Estimation



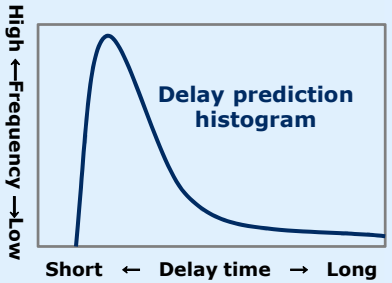
Estimate via AI

Data Flow Control



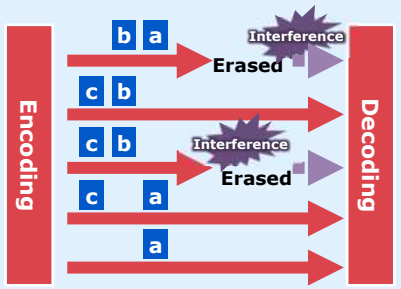
Control to match estimated bandwidth

Delay Prediction



Predict communication conditions

Low Latency Transport



Redundant encoding eliminates data loss

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Participation in FFPJ and FFPA

Flexible Factory Project (FFPJ)

Evaluate wireless environment and performance during factory operation

Clearly define wireless communication requirements at manufacturing site

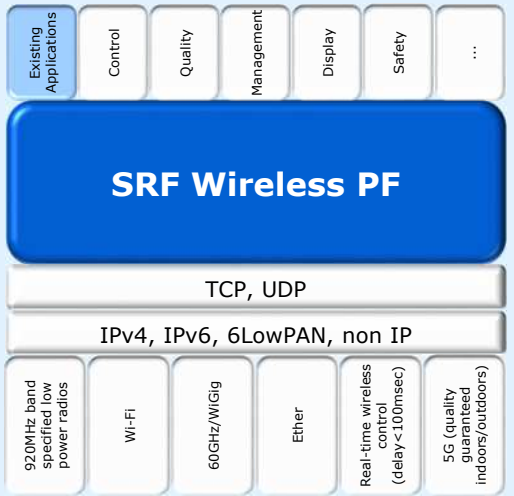
Flexible Factory Partner Alliance (FFPA)

Contribute to business launch and operation

Members:
NEC Corporation
OMRON Corporation
Advanced Telecommunications Research Institute International (ATR)
Sanritz Automation Co., Ltd.
National Institute of Information and Communications Technology
Fujitsu Ltd.
Murata Machinery, Ltd.

SRF Wireless Platform

Our proposal for a standard architecture



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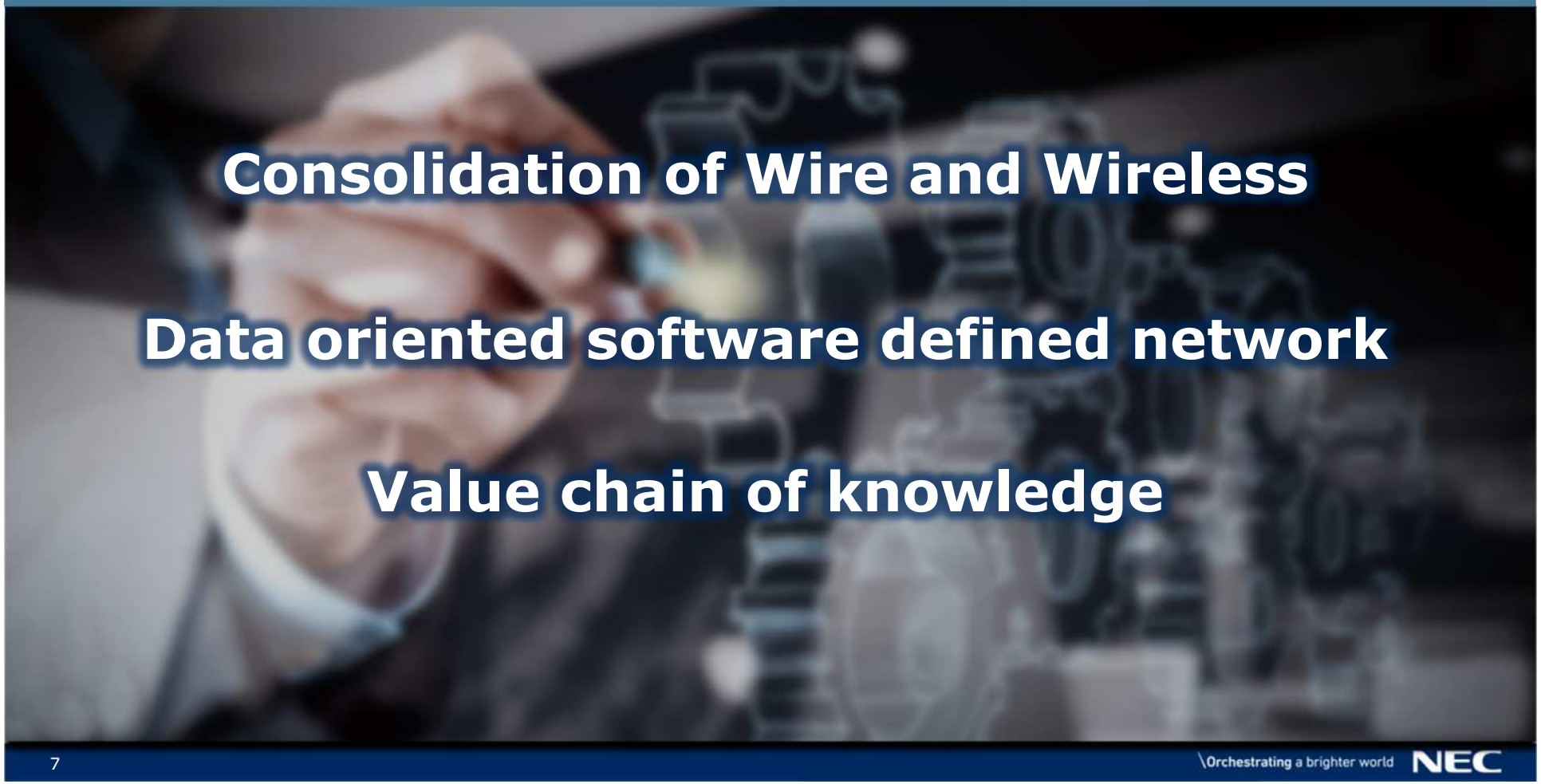
Next generation of factories network



We appreciate your coming today.

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