5G will unleash data for the 4th industrial revolution

Lauri Oksanen

VP Research and Technology
Nokia Bell Labs

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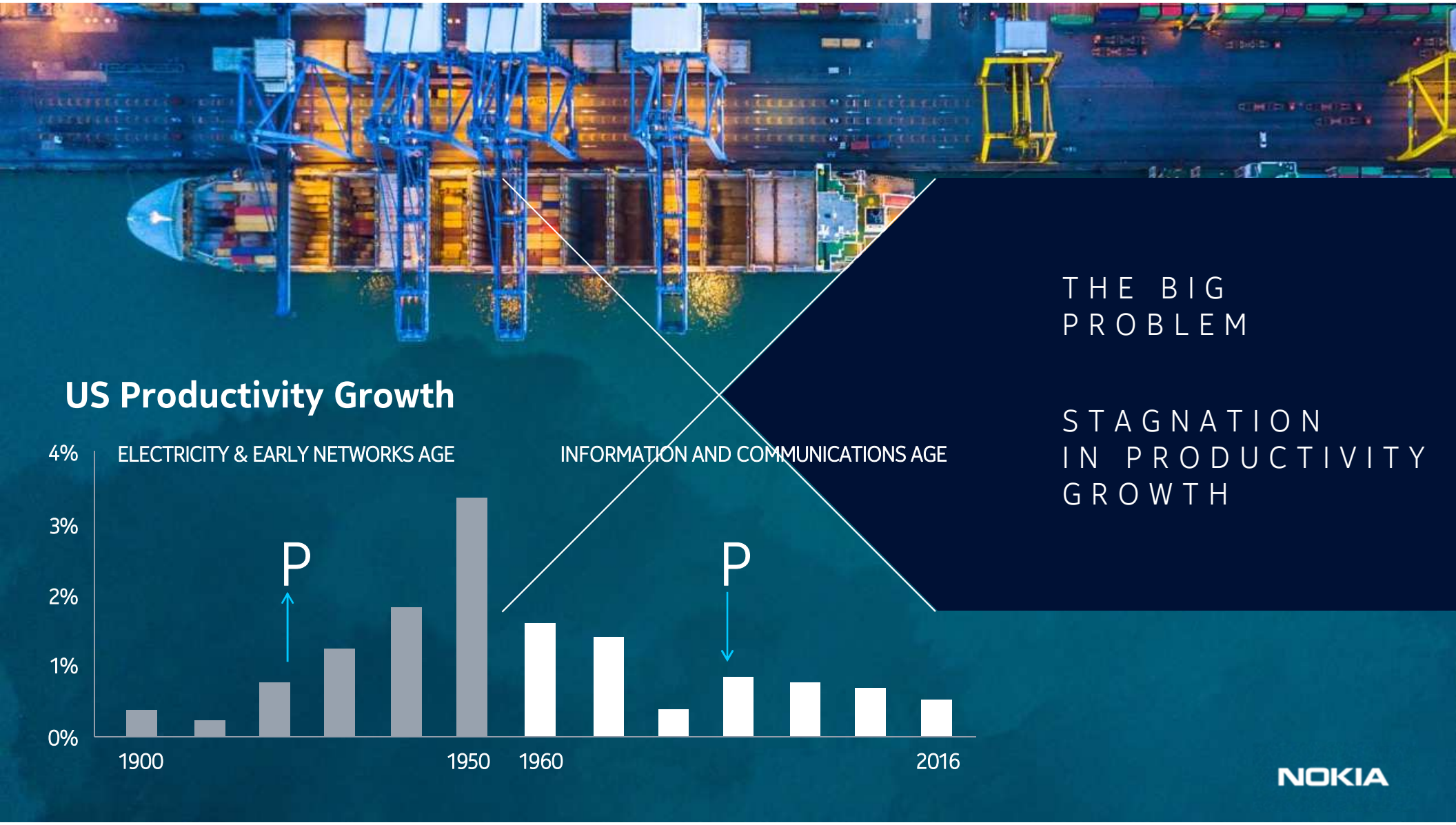

THE BIG PROBLEM

STAGNATION IN PRODUCTIVITY GROWTH

US Productivity Growth

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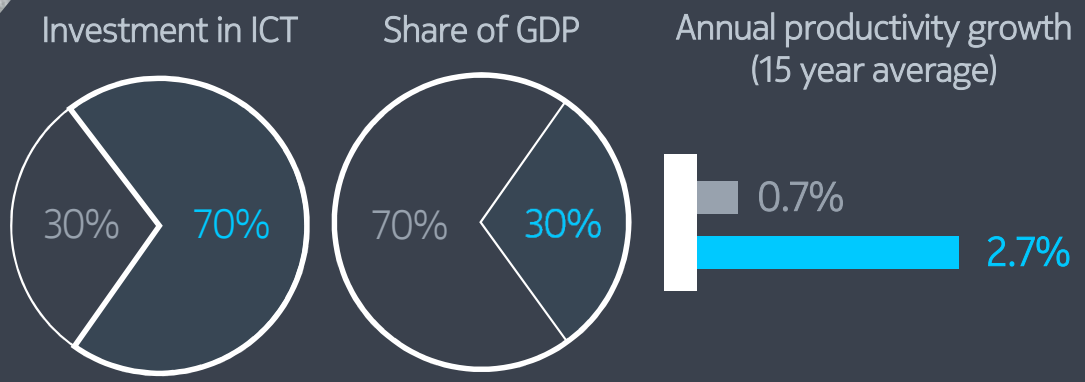
Physical industries lag in utilizing digital for productivity



Physical industries: Manufacturing, Construction, Mining, Utilities, Healthcare, Hotels, Food, Transportation, Wholesale and retail trade

Digital industries: Technology, Content, Finance & Insurance, Professional & Technical Services

Source: The Technology CEO Council

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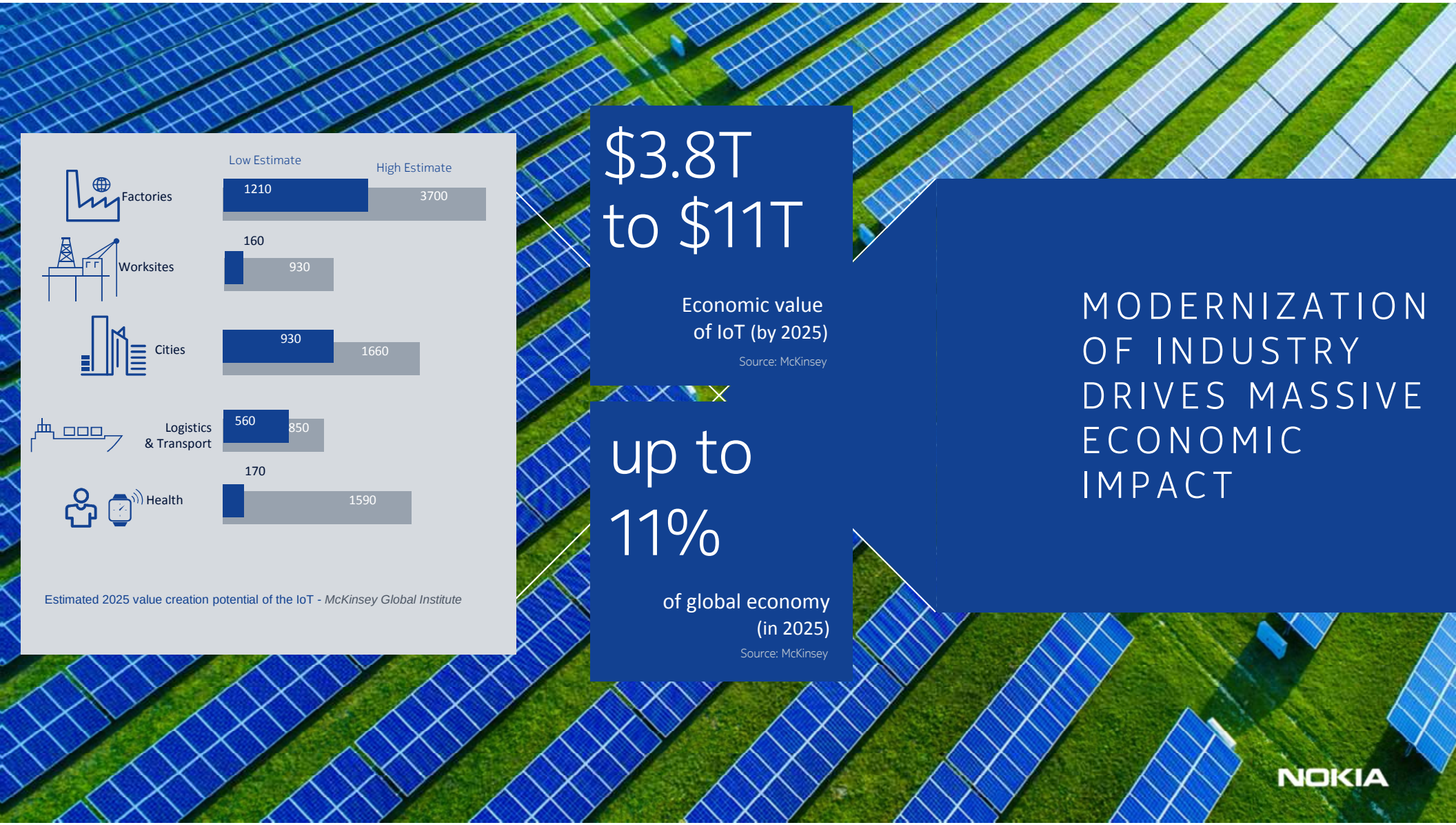
Low Estimate
High Estimate
Factories
1210
3700
Worksites
160
930
Cities
930
1660
Logistics & Transport
560
850
Health
170
1590
Estimated 2025 value creation potential of the IoT - McKinsey Global Institute
$3.8T to $11T
Economic value of IoT (by 2025)
Source: McKinsey
up to 11%
of global economy (in 2025)
Source: McKinsey
MODERNIZATION OF INDUSTRY DRIVES MASSIVE ECONOMIC IMPACT
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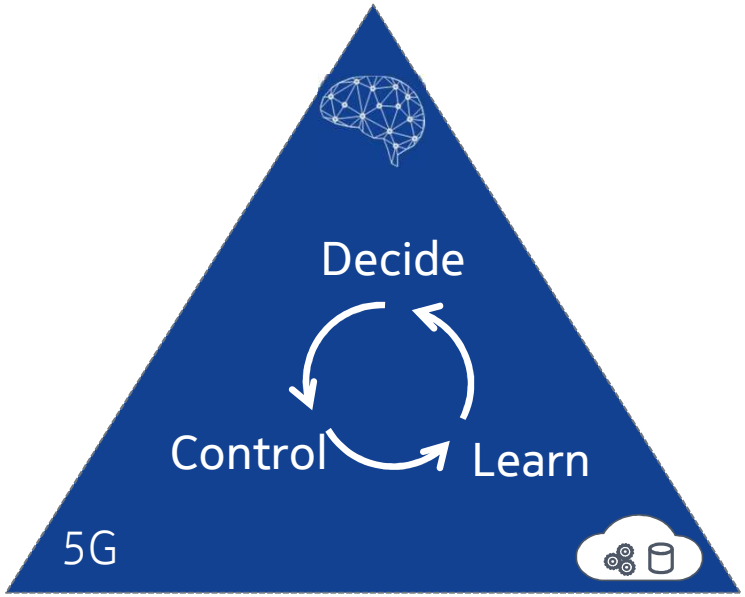
The 4th industrial revolution is driven by 3 technology disruptions



AI and machine learning

IoT, connect every thing without wires

Edge cloud computing everywhere

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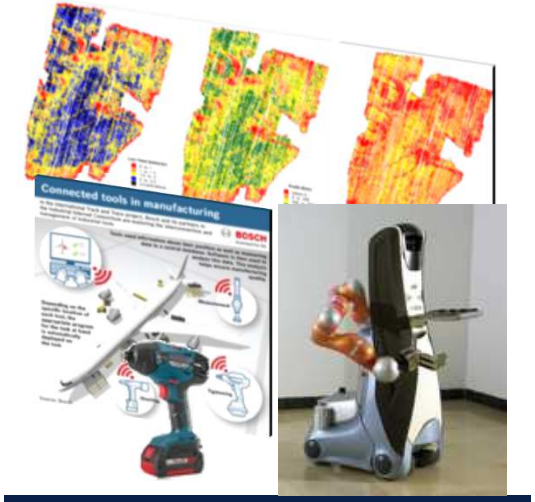
Transforming industries are creating stringent demands…

Remote Monitoring/Control in Hazardous Environment

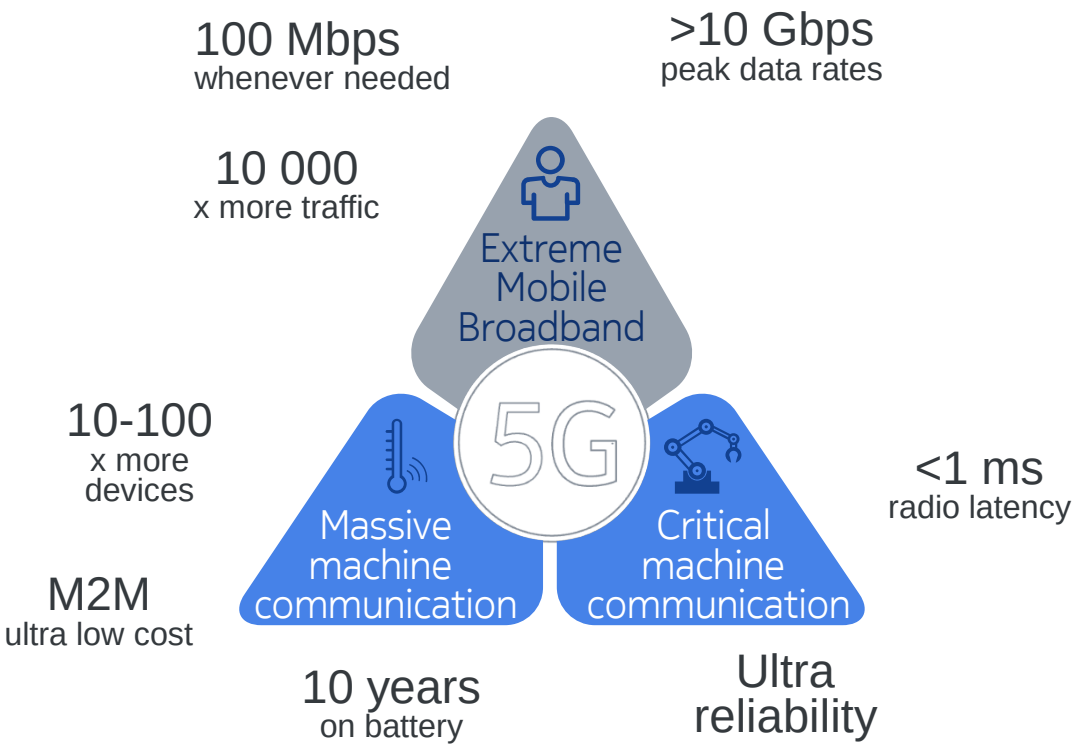
Indoor & Outdoor Mobility/Mobile Robotics

Smart City enabled Products/ Services



VR/AR and Tactile Cases

5G is the first mobile system designed to connect everything



5G Phasing – First Broadband followed by Critical Services

	Phase 1 (2019-) Consumer mobile broadband	Phase 2 (2021-) Critical services
Benefits	• 5-10x network capacity • 5-10x user data rate	• Industrial IoT • Low delay • High reliability • Virtual networks per service • New devices

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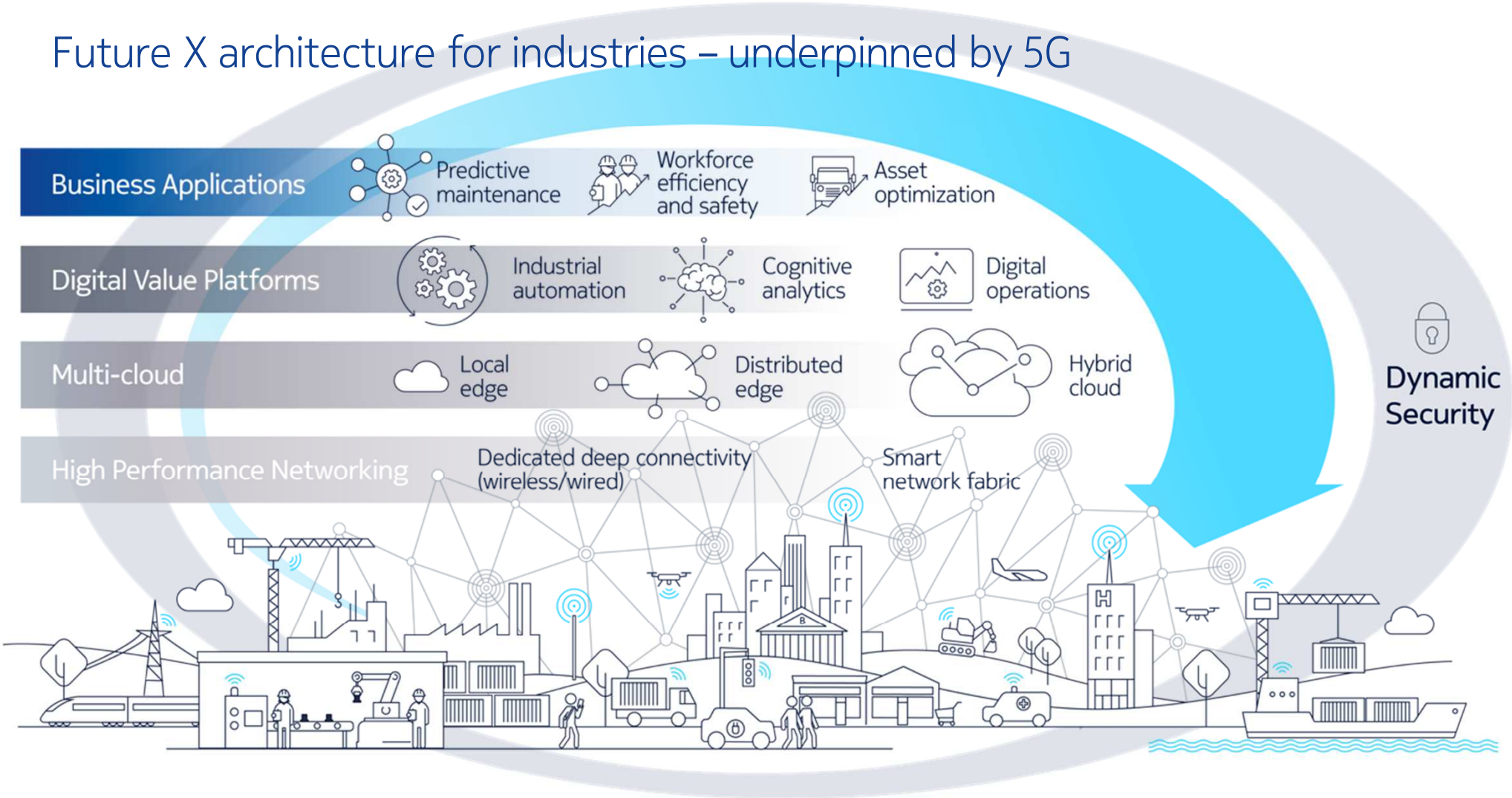
Future X architecture for industries – underpinned by 5G



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The New General Purpose Technology

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