

NOKIA

5G Industrie Summit 2021

Nokia Introduction | Demag Cranes Introduction | Report from the Factory Floor

Version 1 | September 2021

Our approach to the market leverages technology leadership and a solid solution portfolio to create vertical value across industries and ecosystems

Our Ambition

Lead the industrial digital transformation

With mission critical networks, digital automation and hybrid cloud solutions

Across multiple verticals, use cases, ecosystems and go2markets

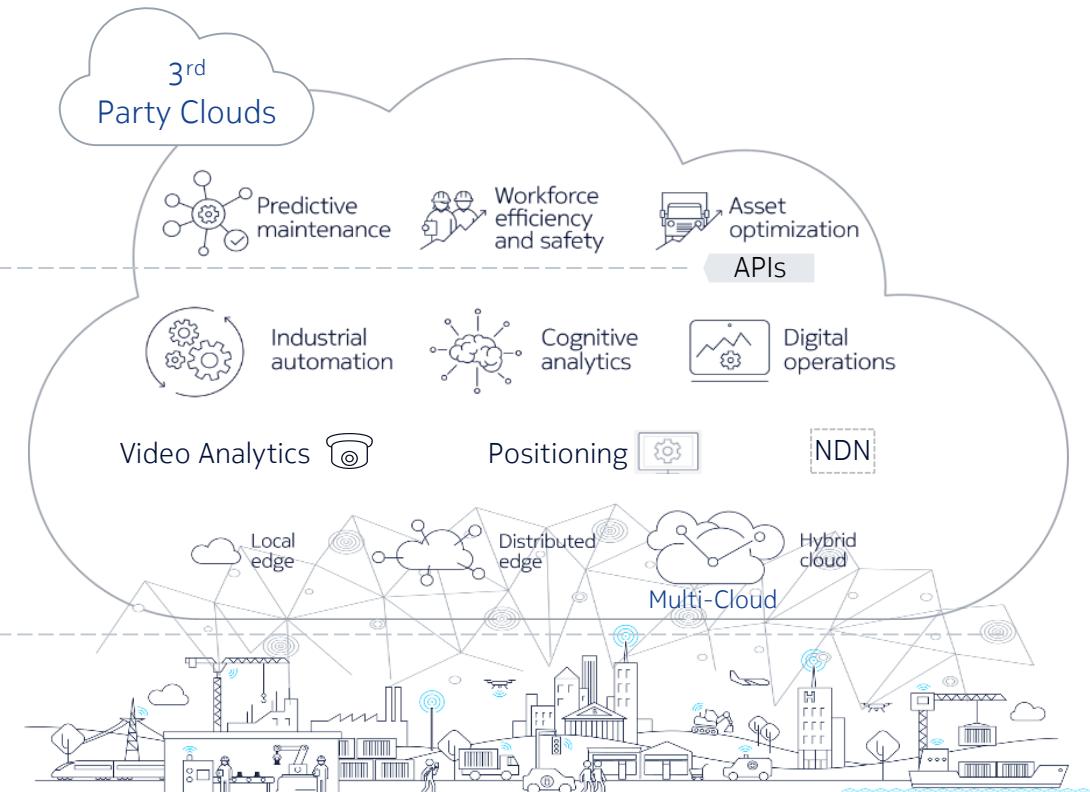
Value-creation architecture

Business automation integration

Incubate and expand in industrial automation

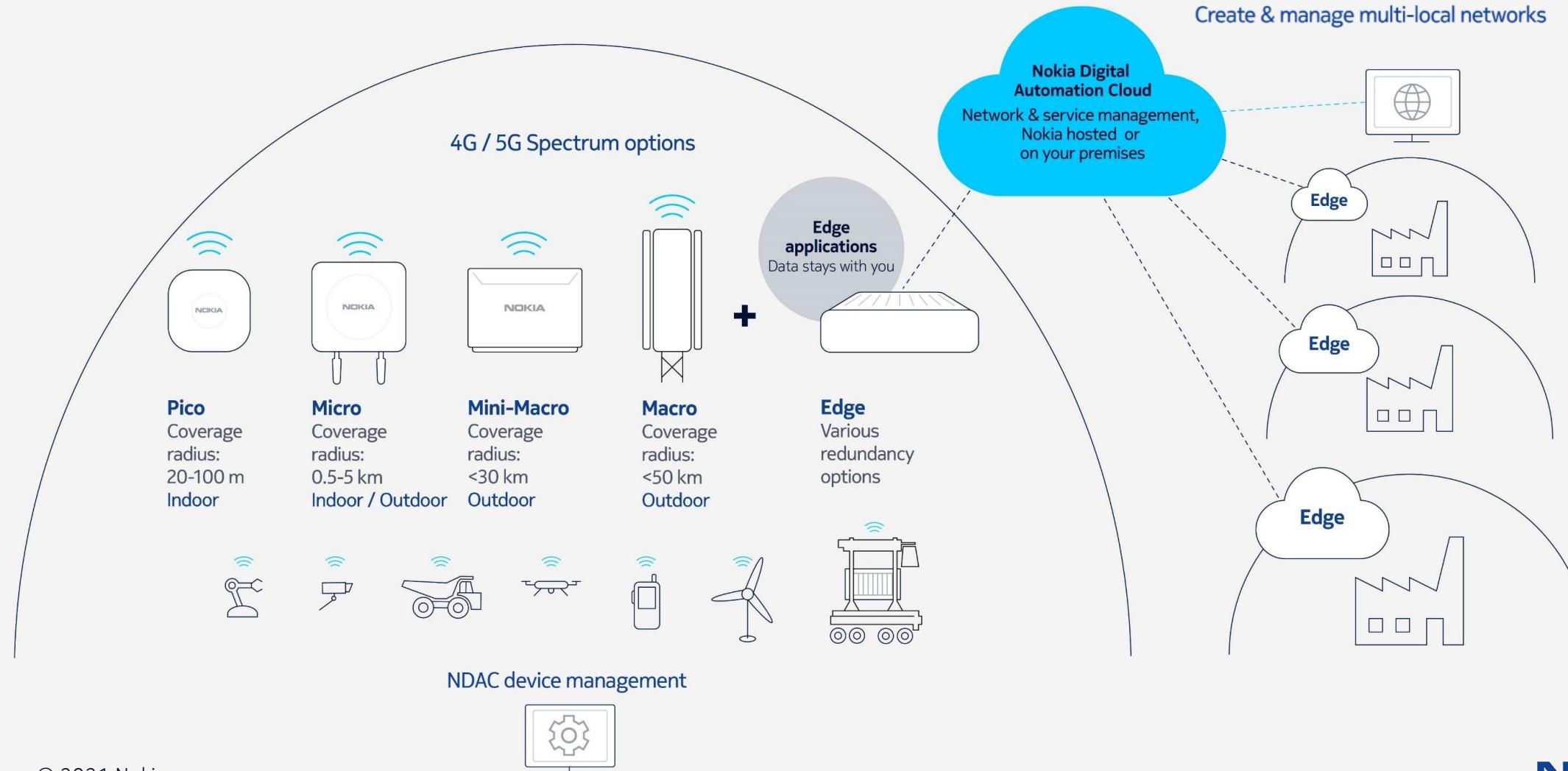
Expand in industrial connectivity (25% CAGR)

Scale enterprise physical networks (6% CAGR)



Nokia Digital Automation Cloud (NDAC)

E2E platform for private wireless connectivity and automation

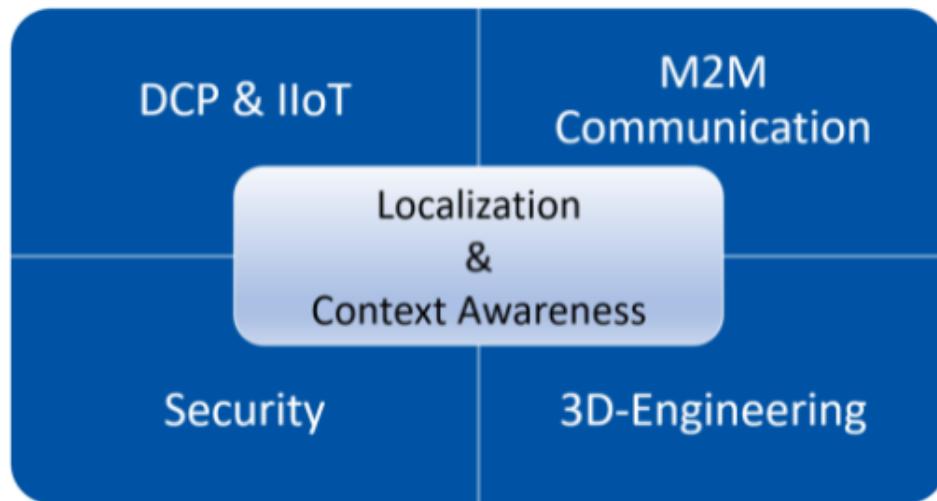


OPTIMUM

OPTimised Industrial IoT and Distributed Control Platform
for Manufacturing and Material Handling

<https://www.optimum-itea3.eu/>

OPTIMUM is a public founded research project that support innovative concepts for engineering, control and supervision of Smart Manufacturing and Material Handling.



OPTIMUM Innovative concepts for engineering

OPTIMUM's major goals are: improvement of the aspects of distributed control, adaptation of (I)IoT technologies to real industrial needs, enhancement of control and applications by context and location awareness as well as application design and common-model based 3D engineering and supervision.

The following video presents the project results.

DEMAG

- Placeholder Video

Ausblick der 5G-Aktivitäten bei DEMAG

Schwerpunkte DEMAG Research Factory

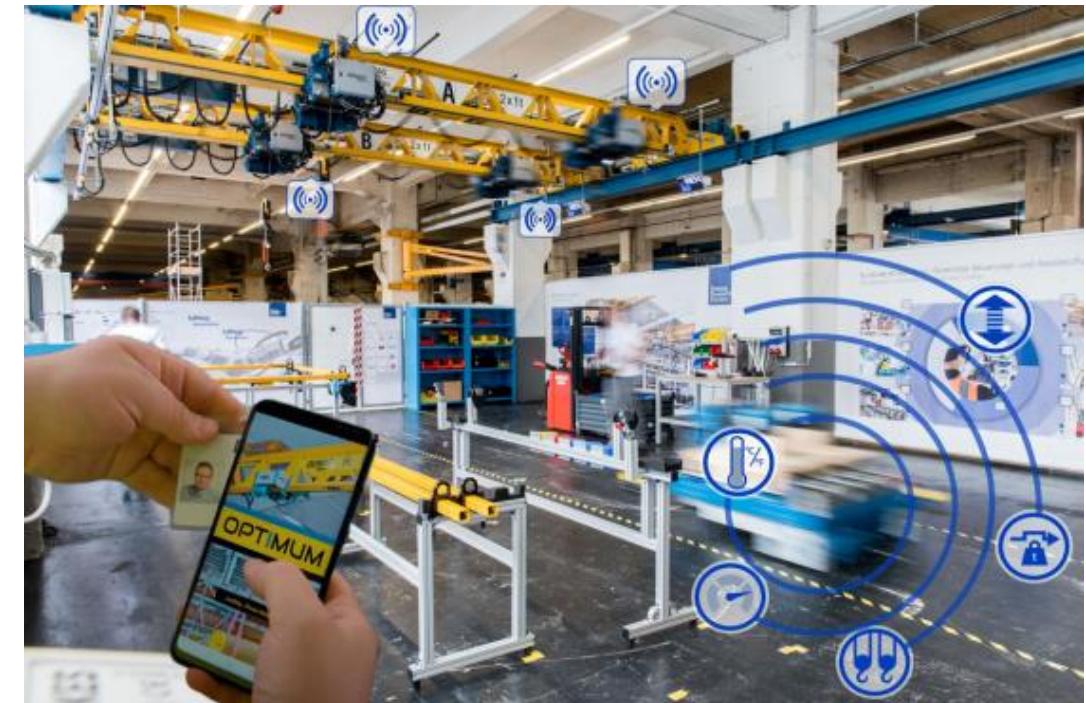
Innovative Anwendungsfälle demonstrieren z.B. Tandemfahrt, koordinierte und kooperative Betriebe zwischen Kranen und Flurtransportsystemen oder innovative Assistenzfunktionen.

Aktueller Stand

- 5G-Funkkommunikationsnetzwerk Release 15
- Umrüstung auf Release 16 & damit volle 5G-Stand-alone-Architektur erfolgt sobald verfügbar

Ausblick weitere Aktivitäten

- systematische Untersuchungen von Einflüssen auf 5G-Kommunikation
- Ziel: quantitative Aussagen des Kommunikationssystems, benötigt für industriellen Applikationen
- wichtige Kenngrößen: Verfügbarkeit, Störfestigkeit, Koexistenz mit anderen Funksystemen, geringe Latenzenzeiten
- Bewerbung von DEMAG als 5G-ACIA Testbed Teilnehmer



Vielen Dank!



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