

5G loT for Manufacturing at MWC Barcelona 2022

Manufacturing Summit Session 1

Advanced Analytics & Robotics for 5G IoT in Manufacturing

Industry City Stage, Hall 4, Fira Gran Via

28 February 2022





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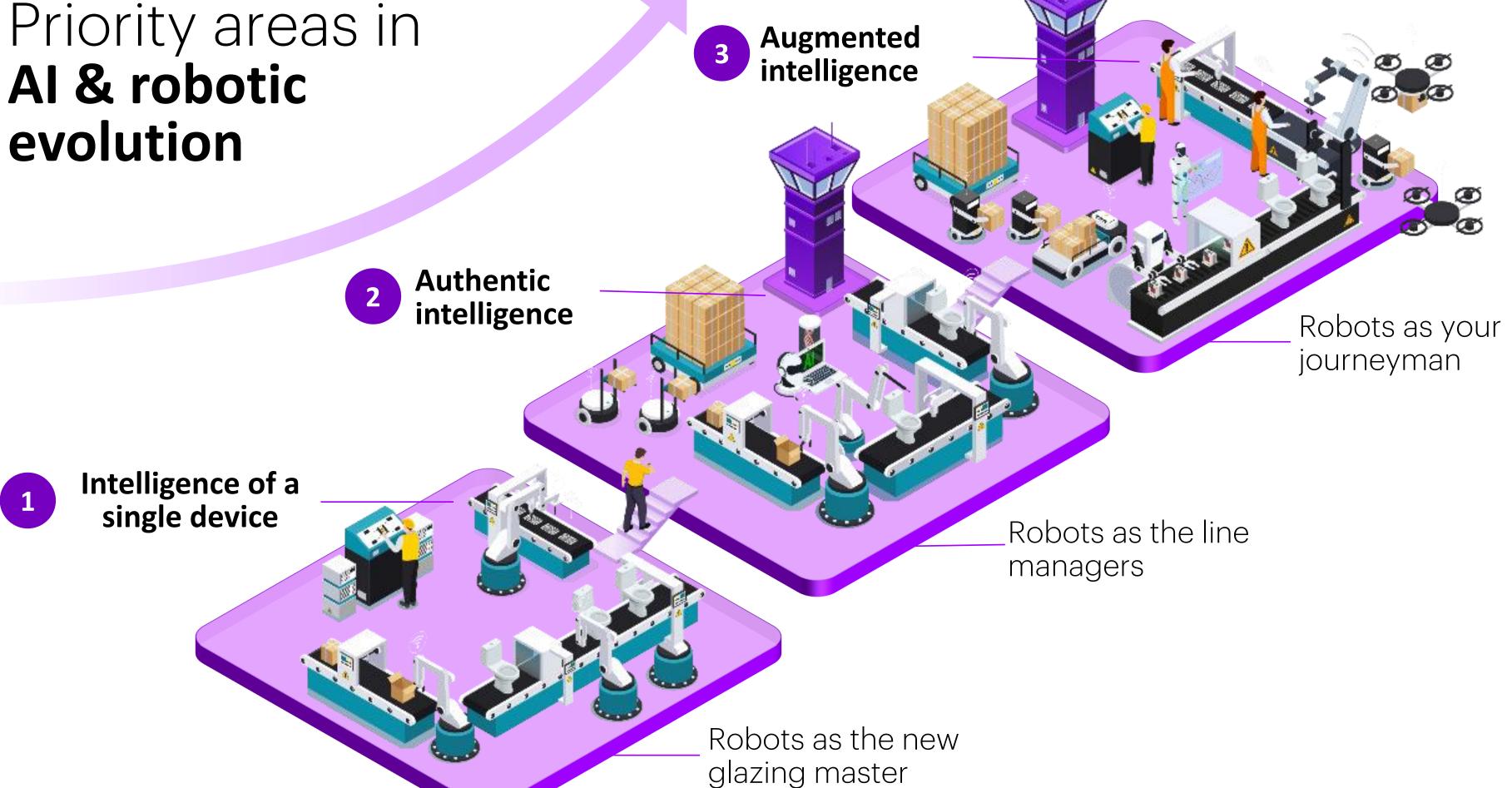




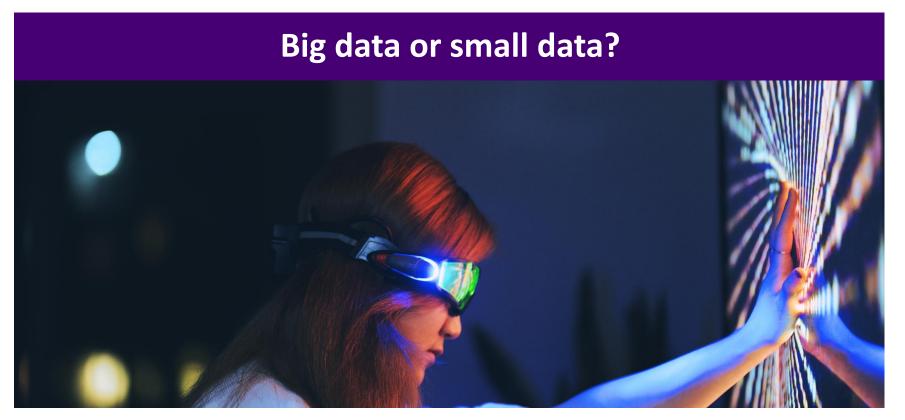
Al & robotics are transforming a century-old craft

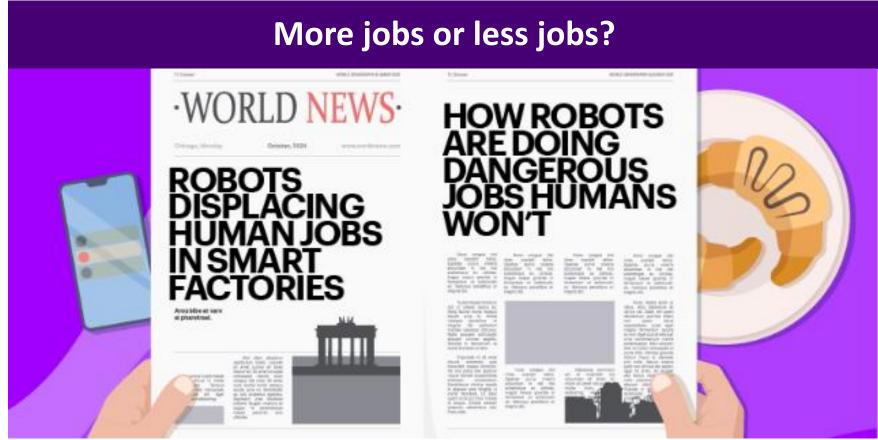






Common "Gotchas"











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Thank you

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Jacob Groote

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Industry 4.0 & 5G

Human Machine Interaction

How 5G leverages I 4.0 investments

Jacob Groote

EVP Innovation & Partnerships

Mobile World Congress 2022, Barcelona



Business first, technology second

Many sectors benefit from the first 5G services



Health:

National: 'green for blue'

Application Priority

- Network priority for smart traffic lights that prioritize an ambulance
- Nationwide availability
- Essential for mission critical and emergency applications



Public:

Johan Cruyff ArenA

Guaranteed Bandwidth (slicing)

- Offers a stable experience when using (streaming) applications
- Essential when using AR/VR applications and mobile workplace solutions



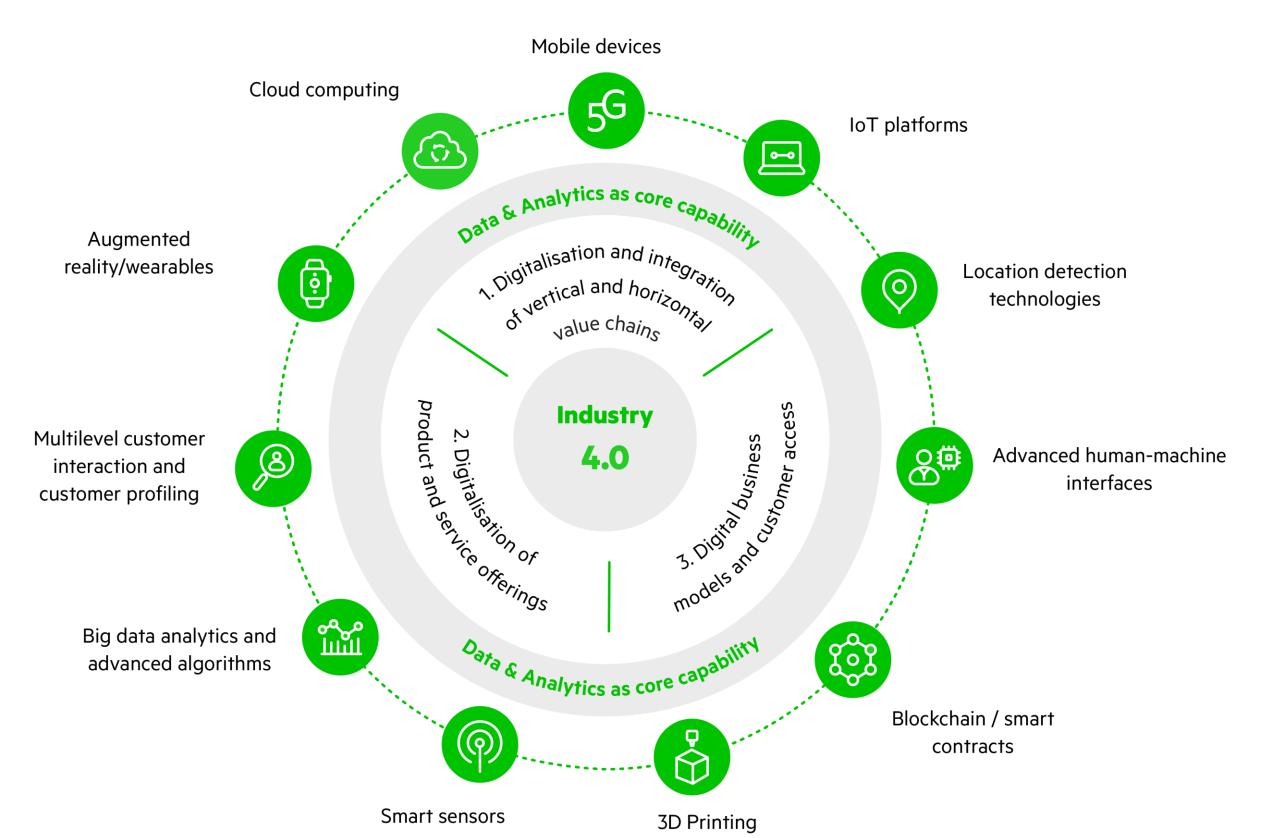
Manufacturing:

Shell

Coverage on Demand

- Allows continuous coverage indoor and outdoor
- Essential for digital workflow use cases and autonomous robots

Investments in Industry 4.0 technology are growing rapidly and are enabled by 5G networks



Technology	CAGR
Robotics ¹	13,5 %
AR/VR ²	50,4 %
Realtime Localization 3	24,8 %
Digital Twin ⁴	50,0 %

- Allied market research: robotics technology market Globa Opportunity Analysis and Industry Forecast, 2020–2027
- 2 Markets and Markets: Industrial Wearables Market - Global Forecast to 2024
- Markets and Markets: Real-time Location Systems
 Market (RTLS) Global Forecast to 2026
- 4 Research and Markets Digital Twin Market Research Report: Global Industry Analysis and Growth Forecast to 2030

Human machine interaction is key for manufacturing

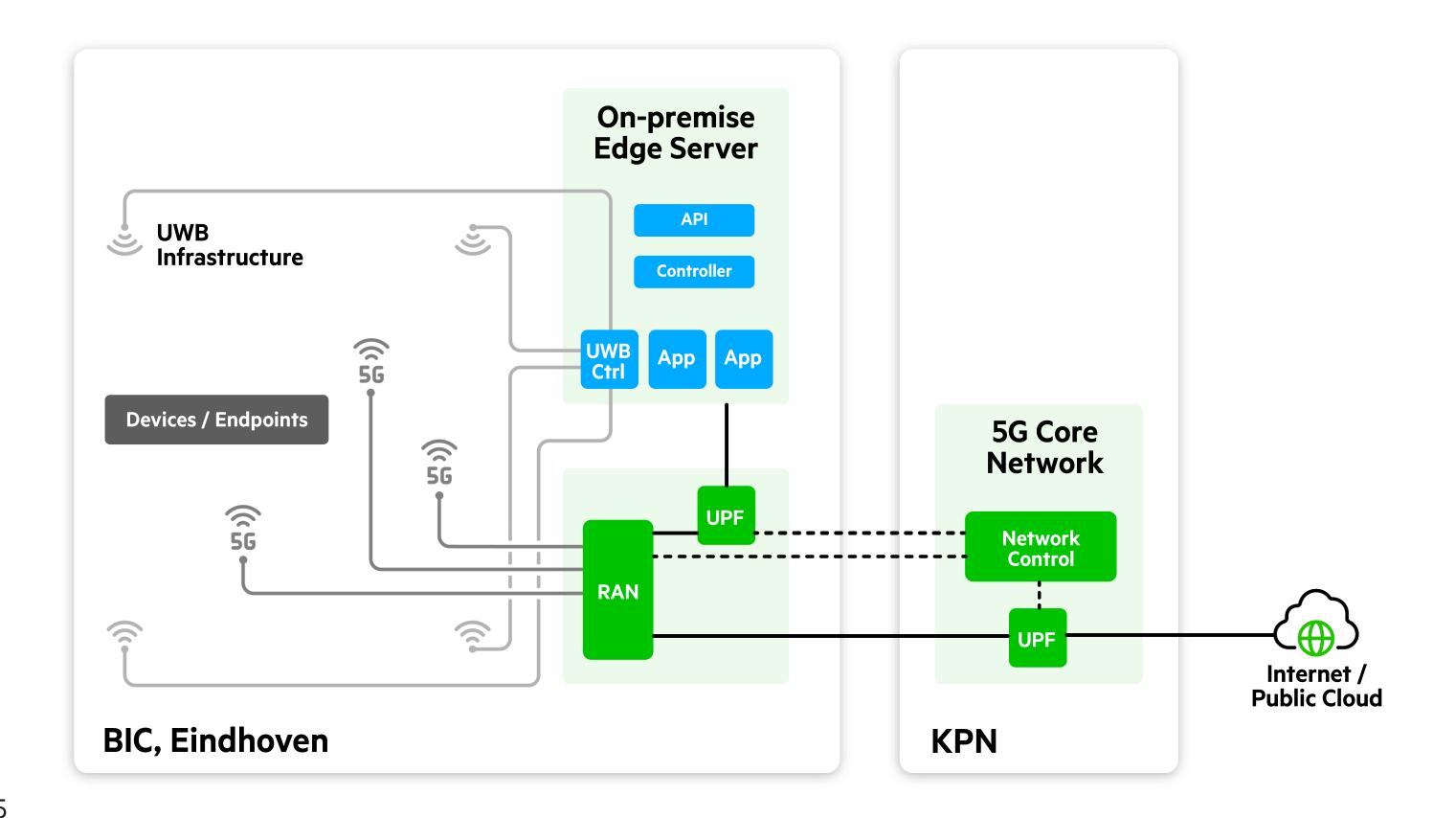
Manufacturing investments enable human machine interaction:

- Human machine interaction is key in mitigating scarce (technical) workforce and optimizing operational efficiency
- Low-code machine platforms, AR, precise localization and digitals twins are boosting new ways for people and machines to collaborate more intensively
- These technologies all benefit from 5G indoor networks and on prem edge computing





Wireless factory setup in the KPN field lab



Our 5G ecosystem is ready to leverage industry 4.0





kpn. The network of the Netherlands



Moderator: Lan Guan

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