Unleashing the potential of 5G

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Nokia vision of the 5G era - powering up the 4th Industrial Revolution Each revolution has a different enabler improving industry and processes. The 4th IR,



The quest for new economic value





New user demands – with extremely diverse requirements 5G is more than 1 generation ahead of LTE



software centric | dynamic network slicing



5G Future X - breakthrough network performance and cost reduction





5G early market use cases

Nokia study unveils high value use cases and their business models





Hamburg Port: first 5G network slicing trial in large industrial environment







5G truck platooning – automatically controlled convoys Cutting costs of transportation, increasing safety



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4th Industrial Revolution – Opportunities and Challenges

100 Million global knowledge workers could be affected by robotic process automation by 2025. (KPMG)

> 30%

increase in productivity in the United States in 2028-2033 (Bell Labs) Al could increase the annual growth rate of Finland by **2** points by 2035 (Accenture)

5-10% of labor would be displaced by intelligent automation, and new job creation will offset losses. (OECD)

60% of children entering school today will work in jobs that do not yet exist. (The World Economic Forum)

By 2020 more than **50** billion things will be connected to the internet.

Recommendations to prepare society for the Fourth Industrial Revolution

Investments in ICT infrastructure

Understanding evolution in skill demand

The importance of education

New employer-employee relationships

Socio-economic structures





5G industry experience – enabling industry 4.0 Resilient, secure low-latency communication



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