

5G for people and things

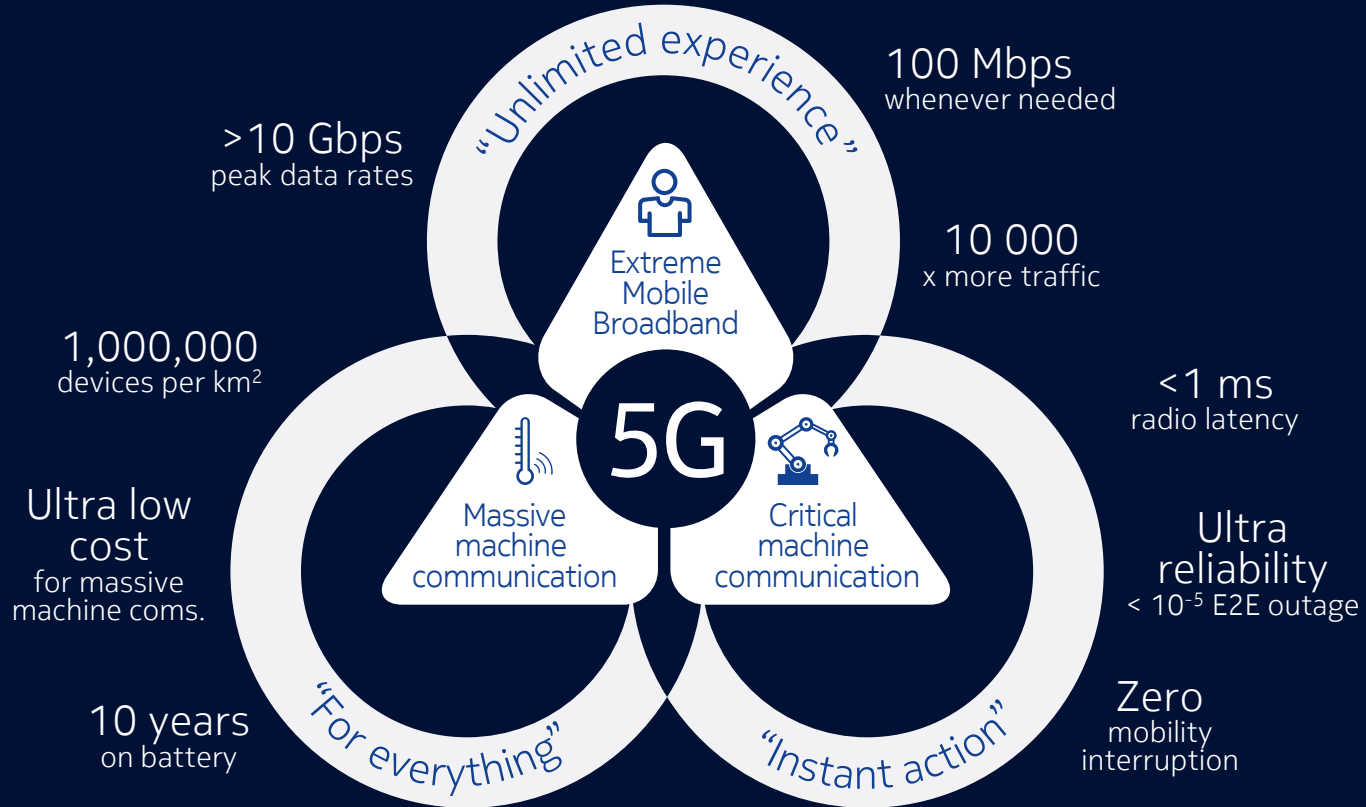
Key to the programmable world

Péter Szilágyi, Nokia Bell Labs

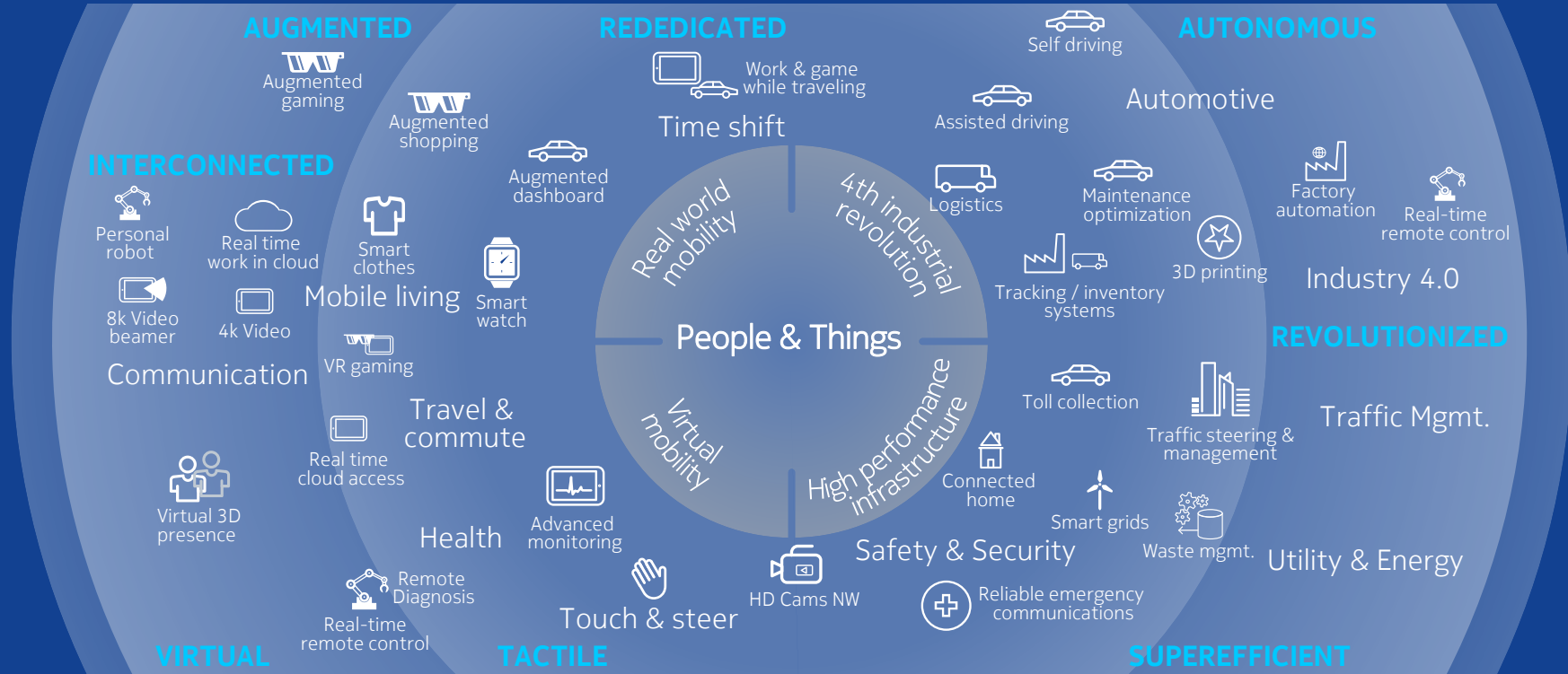
ETSI User Conference on Advanced Automated Testing

Budapest, 26th October, 2016

5G will change the world

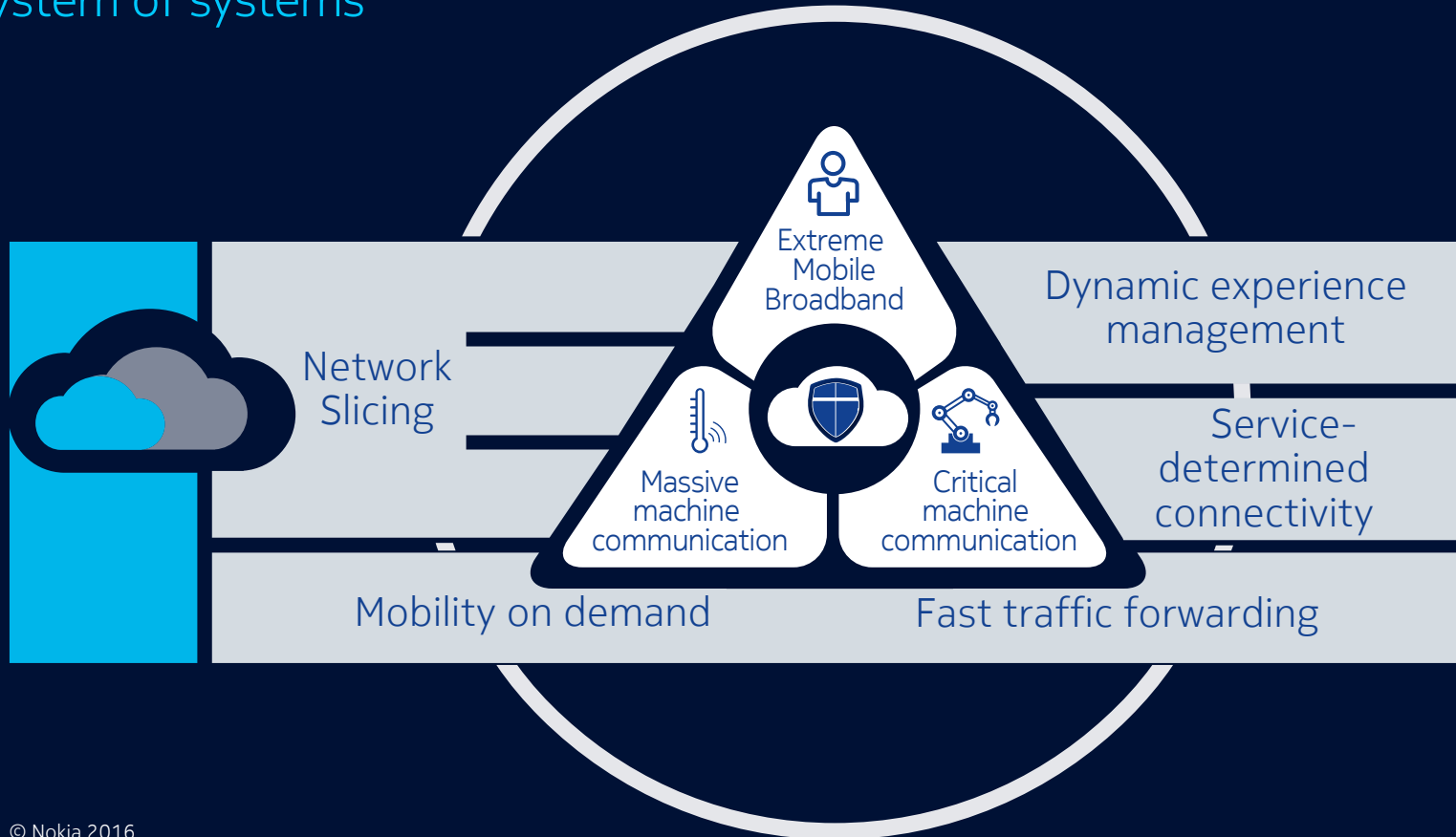


Explosion of possibilities: new performance levels of people and things



5G for people and things | Key to the programmable world

System of systems

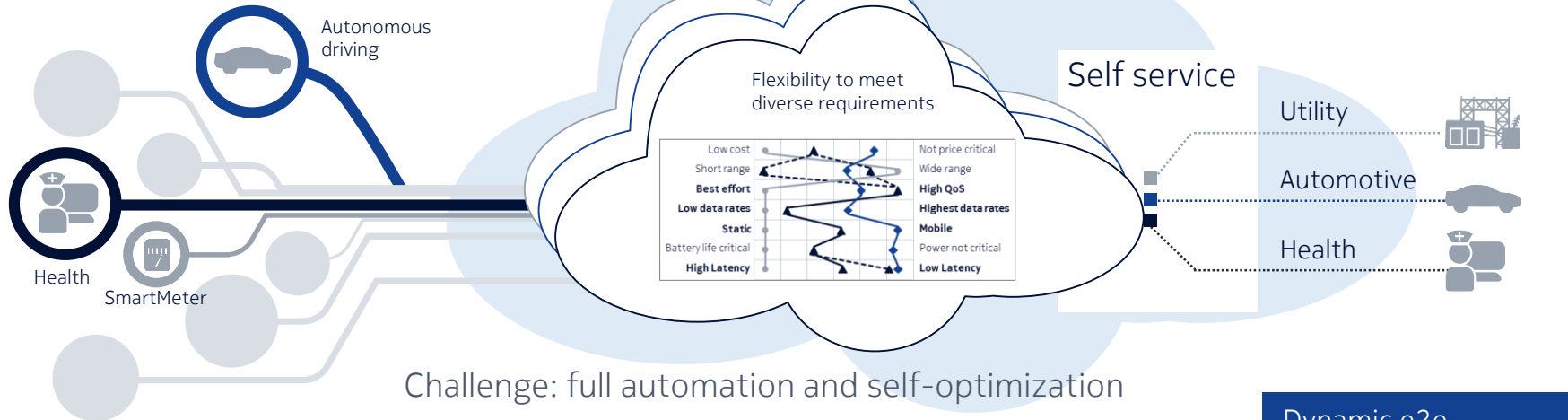


Network Slicing | Optimized service delivery for heterogeneous use cases

Multiple independent instances on one physical network



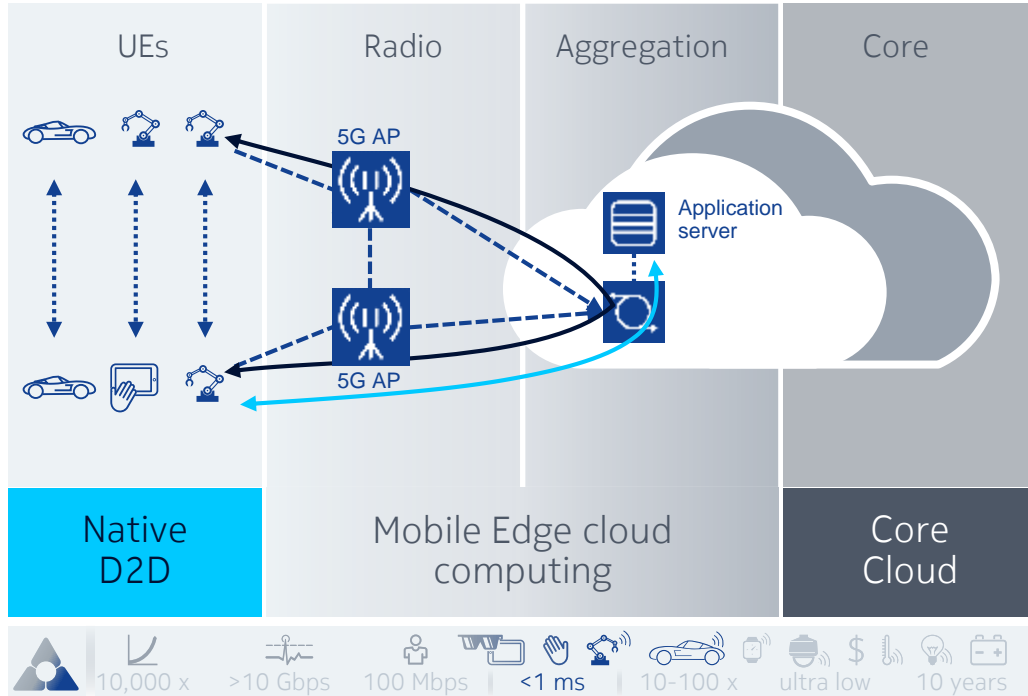
Slicing across radio, transport, core edge and central clouds



*5G Novel Radio Multiservice adaptive network Architecture

Fast traffic forwarding | Enabling a new generation of latency critical services

Lowest latency packet forwarding to UEs



Moving virtual networks

Mission-critical services, e.g. in V2X or industrial applications

Central cloud based	> 50 ms latency
Mobile Edge LTE	≈ 10 ms
5G Edge	≈ 2,5 ms
5G D2D	≈ 1 ms

Vehicle2Infra trial on German motorway

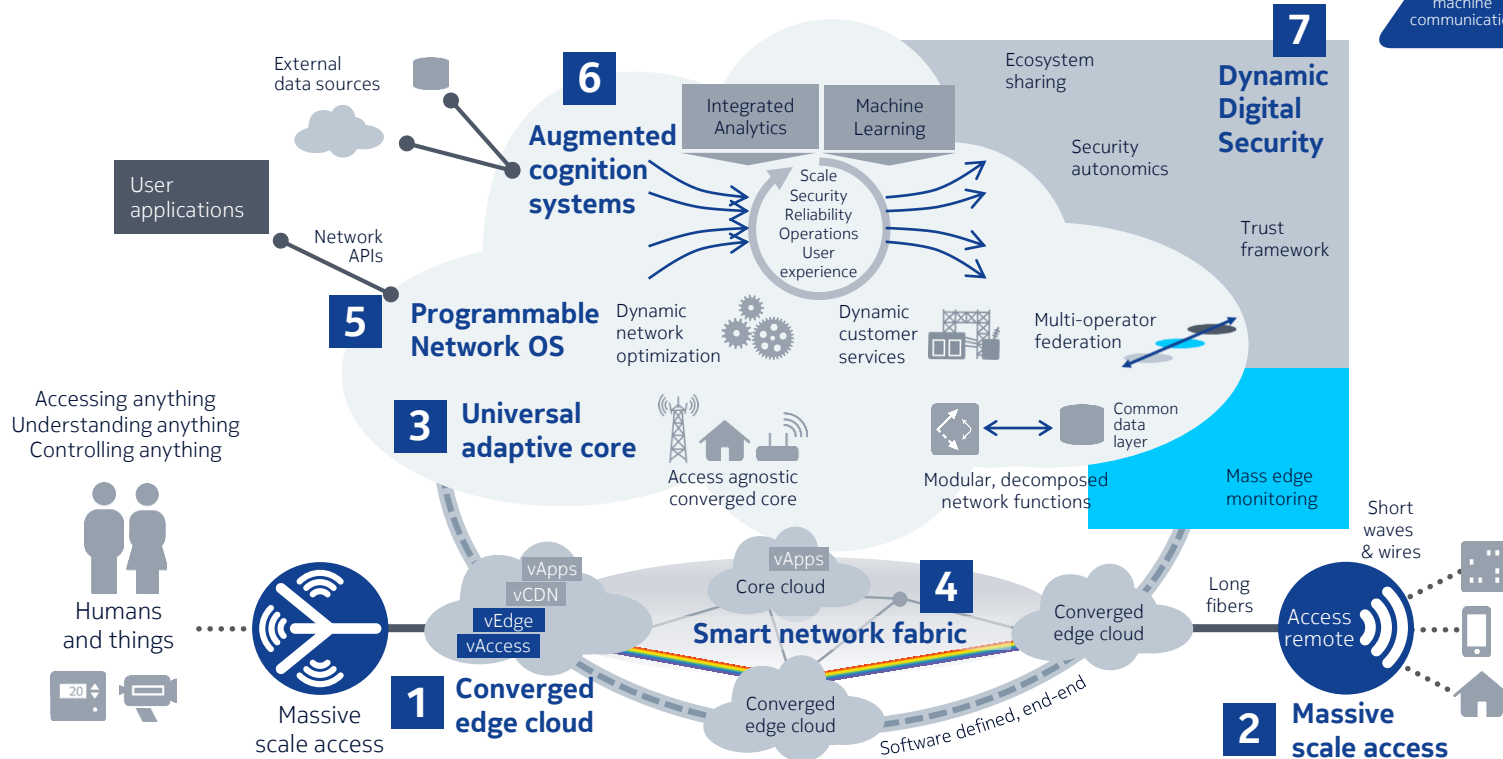
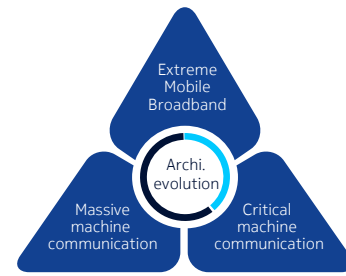
Pioneer in Mobile Edge Computing

Autonomous driving live demo

ETSI ISG Chair

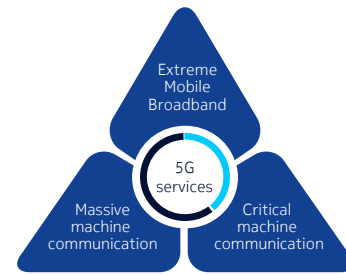
Fundamental Architecture evolution is required

Cognitive + converged + cloud-optimized network evolution



Services transformation is a pre-requisite

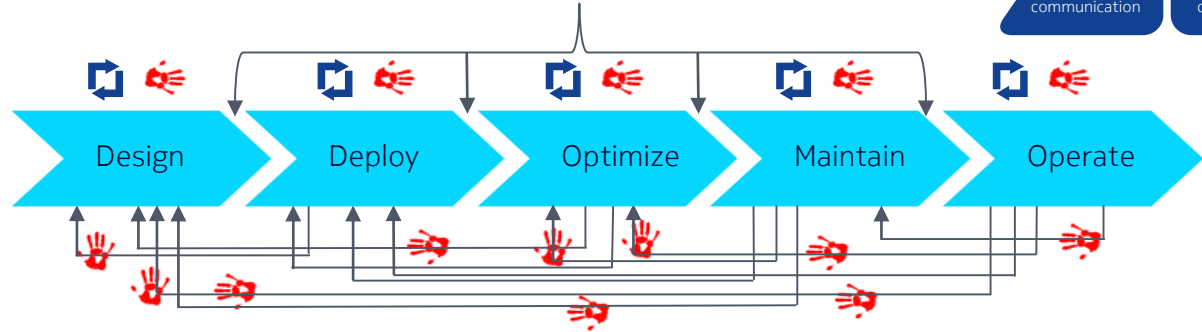
E2E workflow automation, Cloud infra, Continuous delivery



"Touch" Points/Handovers

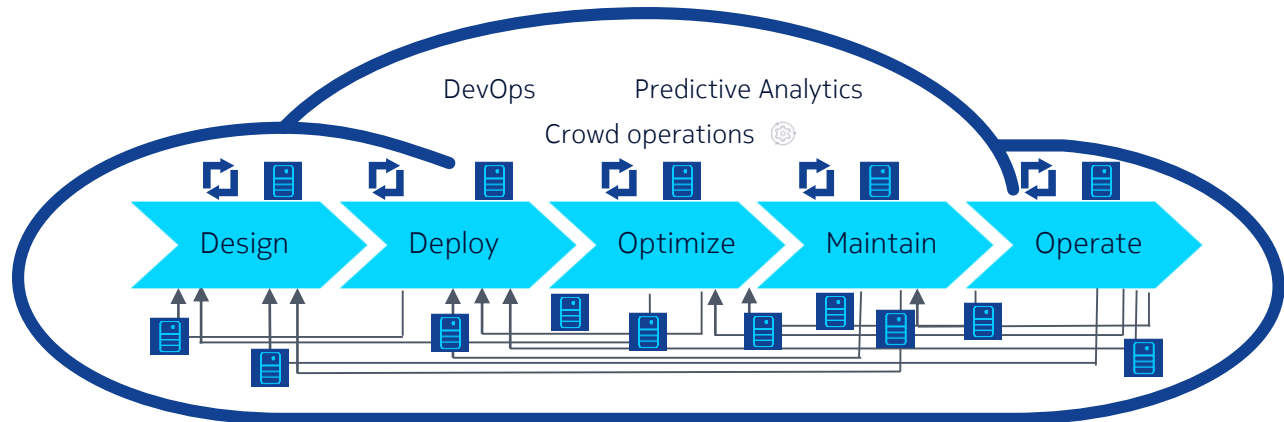
Present Mode of Operation

- Relaxed* lead times
- Handovers and touch points
- Slow ROI
- Technology driven



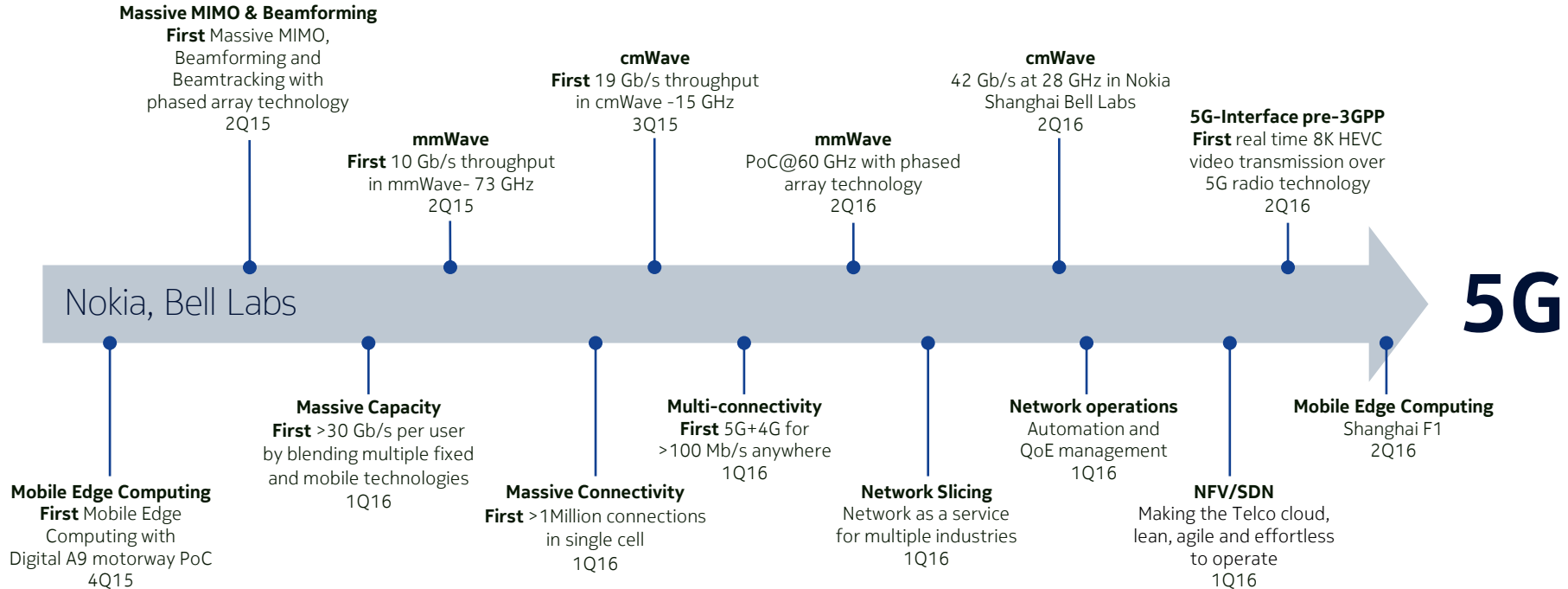
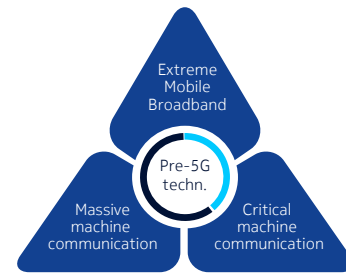
Future Mode of Operation

- Ultrashort lead times
- Seamless delivery
- Fast ROI
- Business driven



Maximize use of Pre-5G-technologies

Nokia's innovations enable Path to 5G now



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