

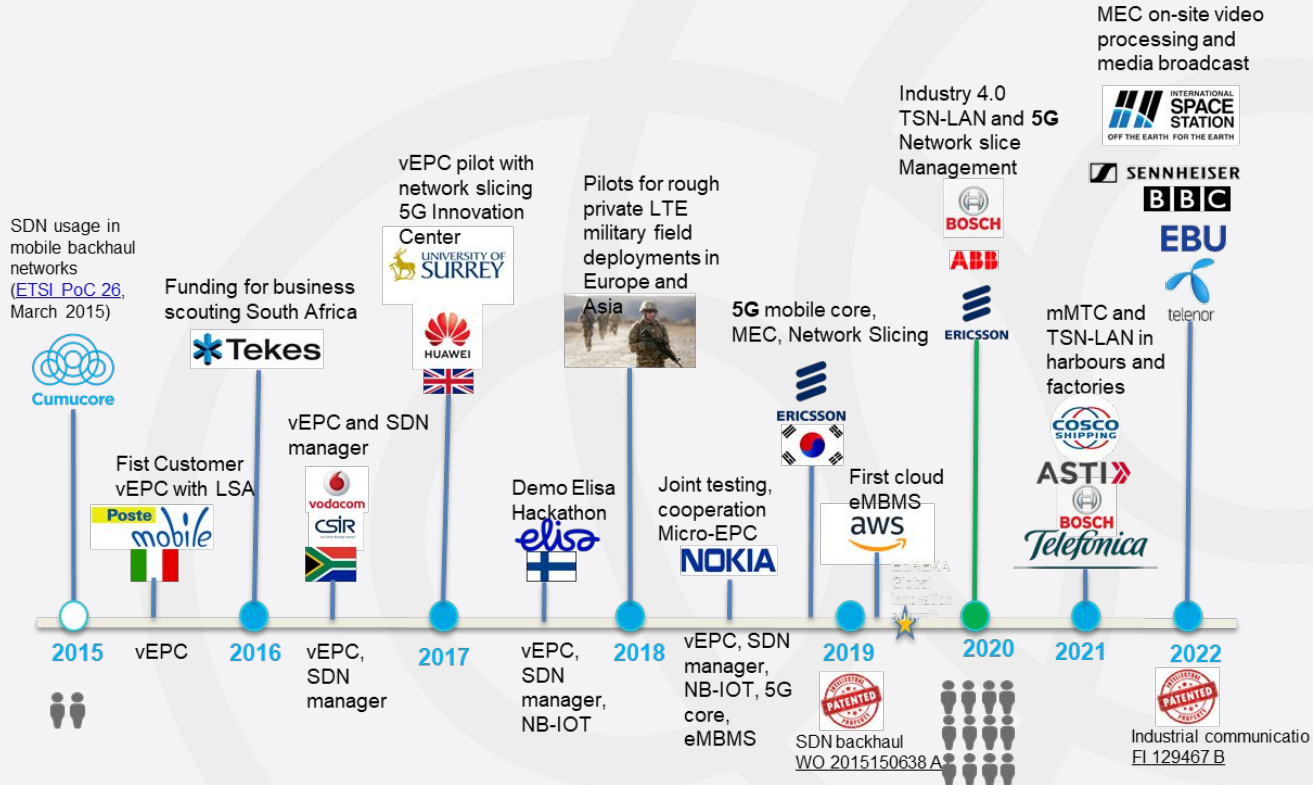


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The background features a series of overlapping, light gray circles of varying sizes, creating a pattern reminiscent of a chain-link fence or a complex network. The circles are semi-transparent and overlap in a way that creates a sense of depth and interconnectedness.

“Replacing Ethernet cable”

How Did We Get Here



Mika Skarp

- Automation engineer
- Global business development
- 25 years in telecoms
 - Nokia 15 years
 - Start-ups 10 years



What is going on in the world?

Population is getting older in western countries

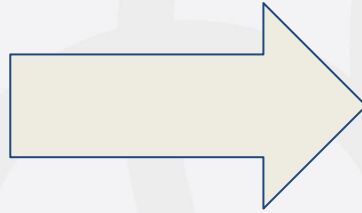


Reducing China dependency



Automation level needs to increase in all those places where it can!

What does automation mean?



Software Defined Factory

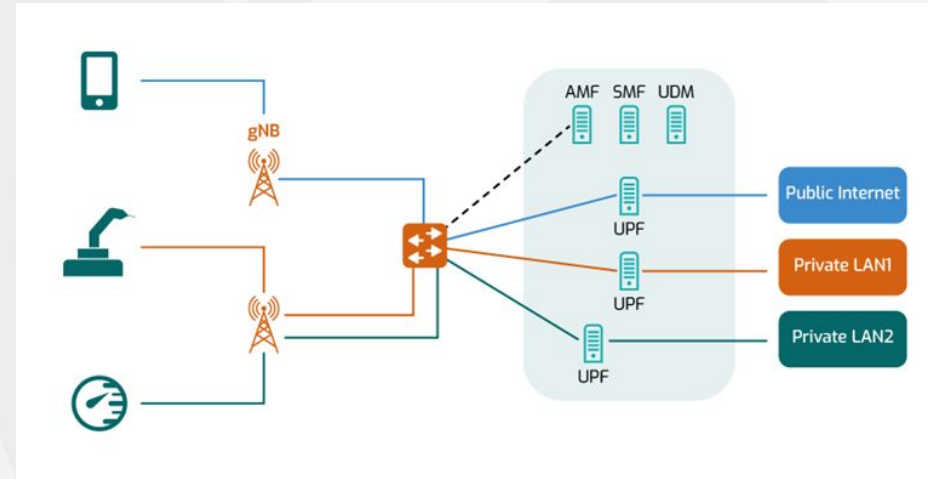
- Faster product changes
- Faster lay-out changes
- Less energy consumption
- Integration between factory and logistics
- We don't know!

Non-Public Network implementation

Radio Access network is sliced between networks and we can use different QoS parameters

Transport is dedicated per slice using VLAN or using Ethernet PDU

Core has at least UPF virtual function per Network Slice other functions can be dedicated per Network Slice as needed



What is reality today?

- Non-public networks are hyped
- There are ~5000 NPNs in the world, most of them in China and most of them PoCs
- In Europe Germany is the leading market
- First use cases are mines and other dangerous places

The background features a series of overlapping, light gray circles of varying sizes, creating a pattern reminiscent of a Venn diagram or a network of nodes. The circles are semi-transparent and overlap in the center of the slide.

“Every device can be wireless”

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