

A person with glasses is holding a smartphone, displaying a photo of a person. In the background, another person is smiling. The scene is outdoors with trees and a clear sky.

5G & NETWORK SLICING.

ENABLING NEW BUSINESS OPPORTUNITIES FOR NETWORK OPERATORS.

Dr. Nico Bayer, September 2017



LIFE IS FOR SHARING.

THE DIGITAL GIGABIT-SOCIETY.



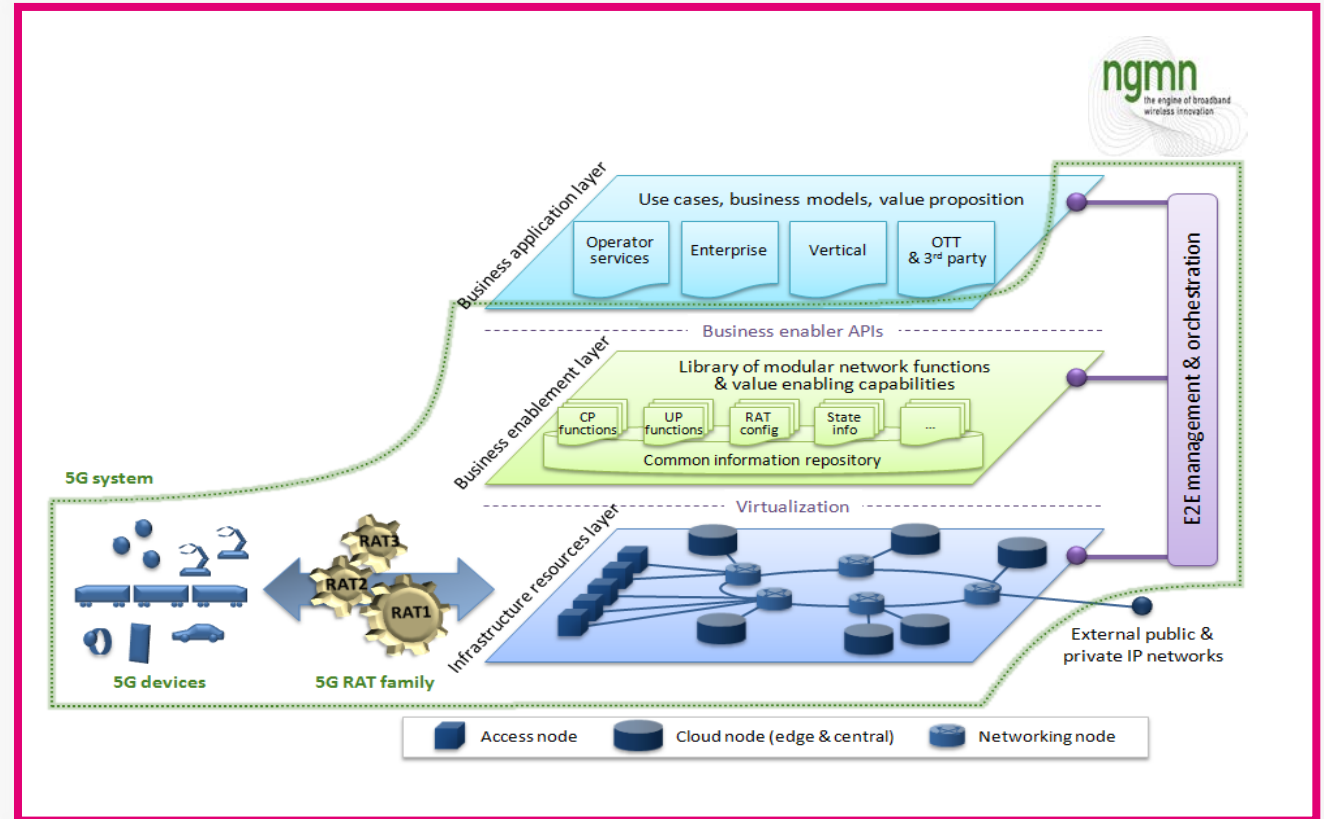
FUTURE NETWORKS.

MAJOR PARDIGMN SHIFTS TO SATISFY FUTURE CUSTOMER DEMAND.



5G NETWORKS WILL BE BUILD IN SW.

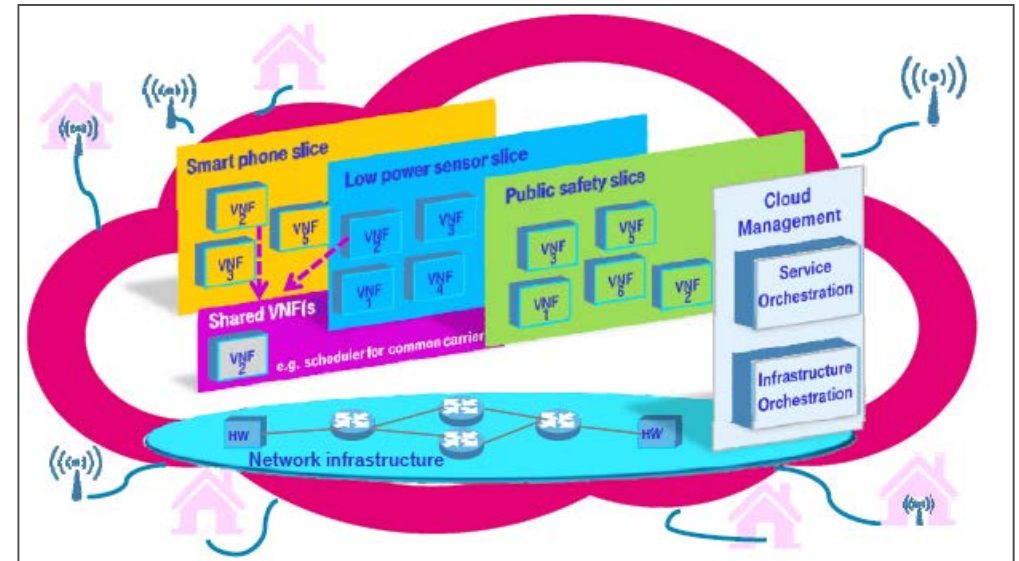
- Functionality as SW on standard Data Center HW
- Data Center can be central or close to the edge (Mobile Edge Computing)
- Topology is dynamic, based on use case and load



5G WILL PROVIDE A MULTITUDE OF NETWORKS.

- Networks are realized as SW layer on top of a common infrastructure
- Functionality will adapt to specific use cases (e.g. ID, authentication,..)
- Resources can be dedicated or shared (radio, servers, ..)
- Per slice network management
- New business models required, e.g. integration into customer environment, or customer provided functionality

NETWORK SLICING



ADDRESSING VERTICALS' BUSINESS NEEDS.

CAN WE EFFICIENTLY PROVIDE DEDICATED 5G SLICES FOR VERTICALS?

INDUSTRIAL SLICE



AUTOMOTIVE SLICE

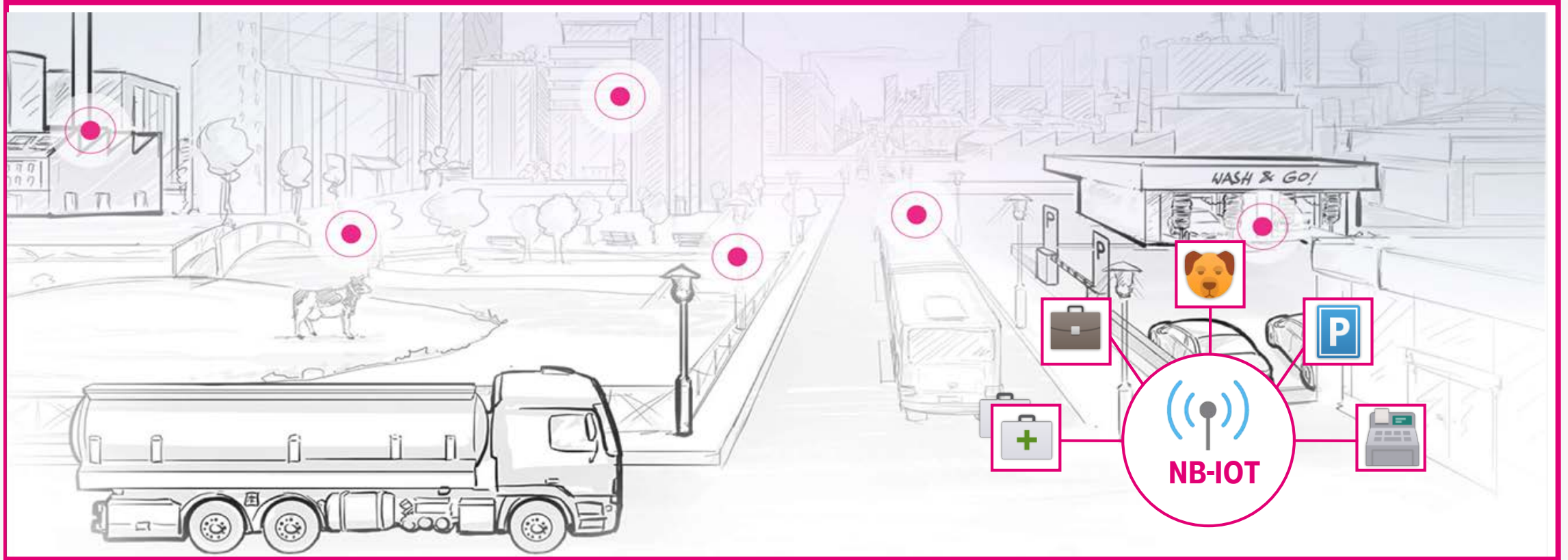


CONSUMER EMBB SLICE



BEYOND TECHNOLOGY INTO BUSINESS IMPACT.

NB-IOT – A DEDICATED NETWORK FOR M2M BUSINESS.



CONCLUSIONS.

- Major paradigm shifts to satisfy future customer demand
- 5G networks will be built in SW and will provide a multitude of networks addressing verticals' business needs
- Network slicing will have a big influence on business aspects

THANK YOU!

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LIFE IS FOR SHARING.