



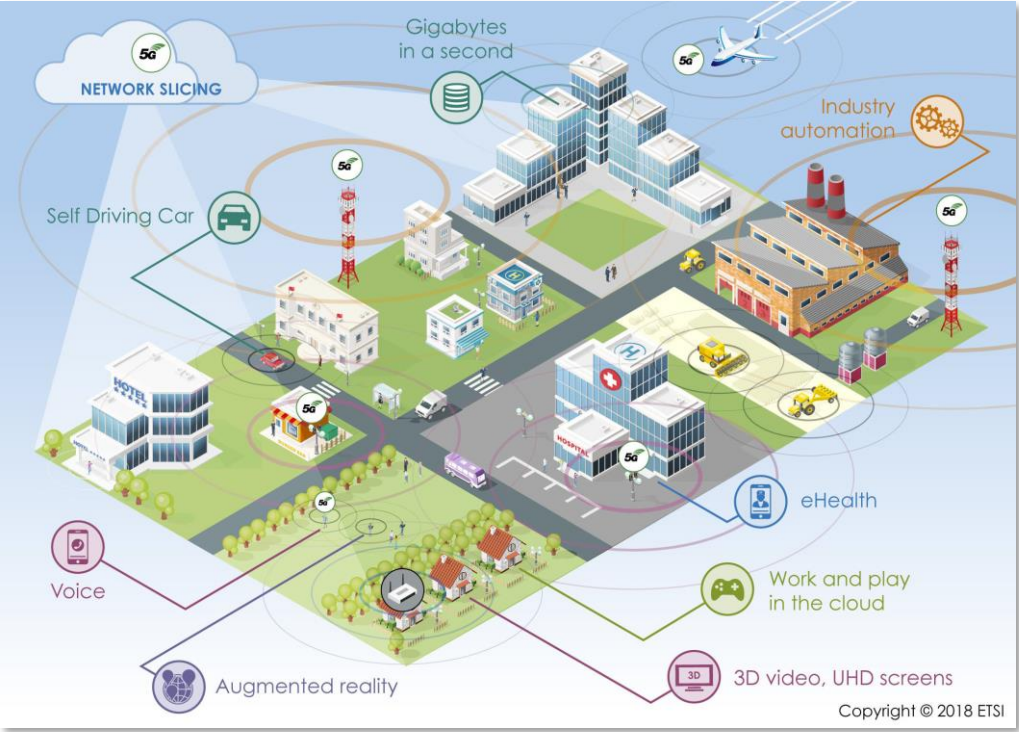
6G Key Technologies for Vertical Industries

Dr. Andreas Mueller | Robert Bosch GmbH

5G – A Reality Check

6G Key Technologies for Vertical Industries

5G Reality Check



The Vision

(Source: ETSI, 2018)



The Reality

Why?

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Why is 5G for verticals not a general reality yet?



Late Start

Vertical industries started to get engaged (much) later than the ICT industry & have to catch up from scratch.



Features Pending

Many 5G features that make a difference to verticals come only with 3GPP Rel-16 and beyond (e.g., URLLC¹).



Business Cases

Strong business cases are not a no-brainer. It takes time to find a sweet spot for adequate pricing, etc.



Device Ecosystem

An ecosystem of vertical-specific devices is required and we are often facing a chicken-egg challenge.



More than New KPIs²

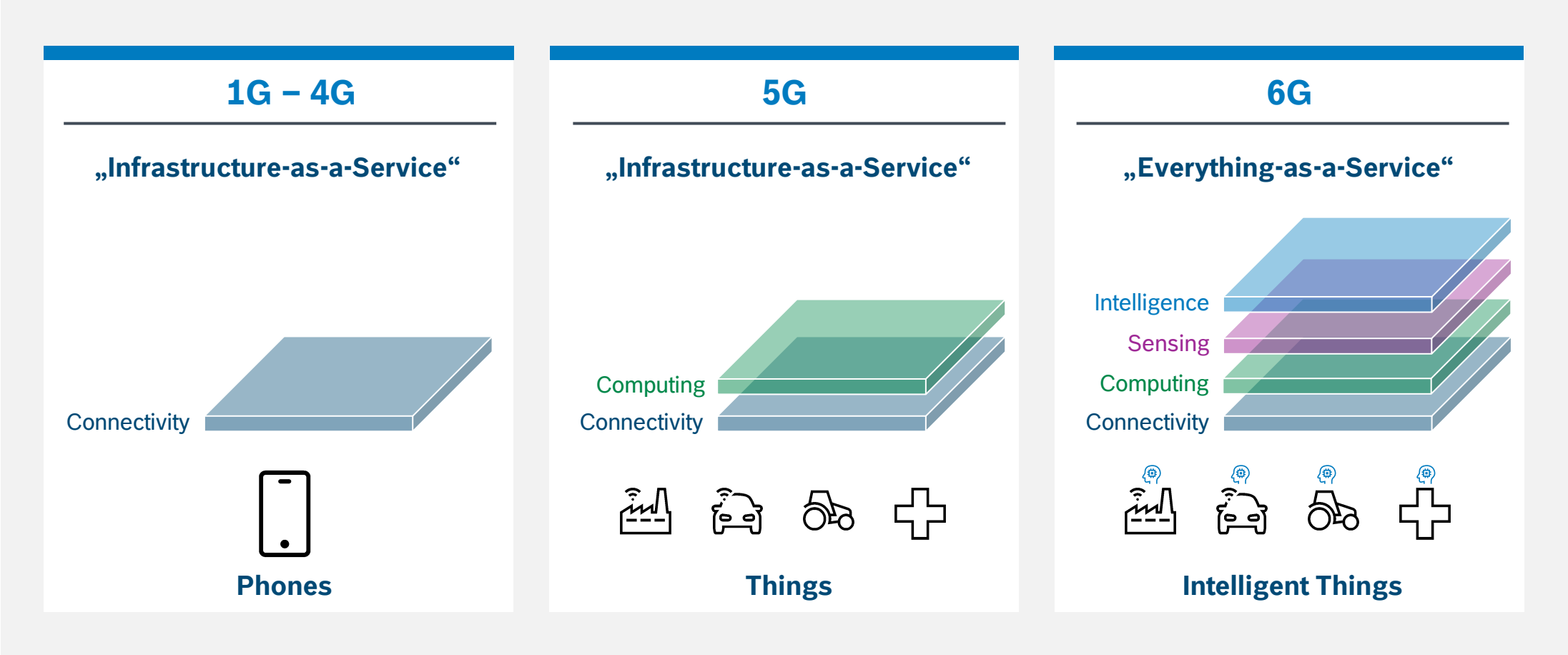
It takes more than a better air interface to succeed (e.g. private networks, new business models, etc.)



There is still work to be done to make the full 5G vision become a reality 😊!

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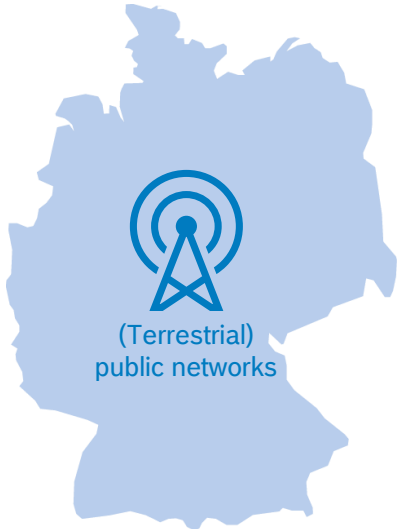
What's in 6G for Verticals?



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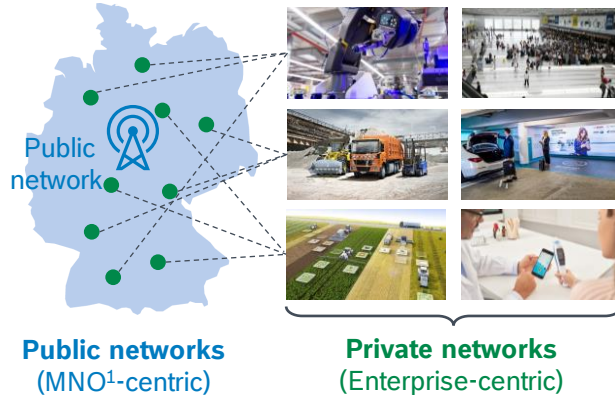
What's in 6G for Verticals?

1G – 4G



Sub 6 GHz

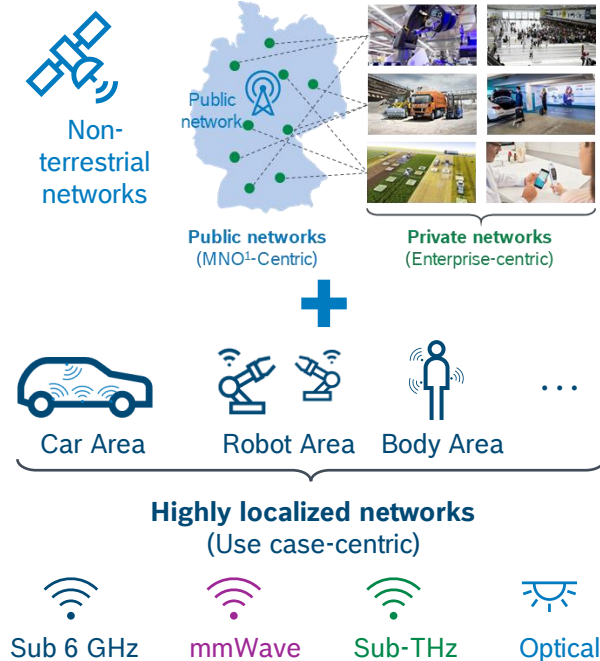
5G



Sub 6 GHz

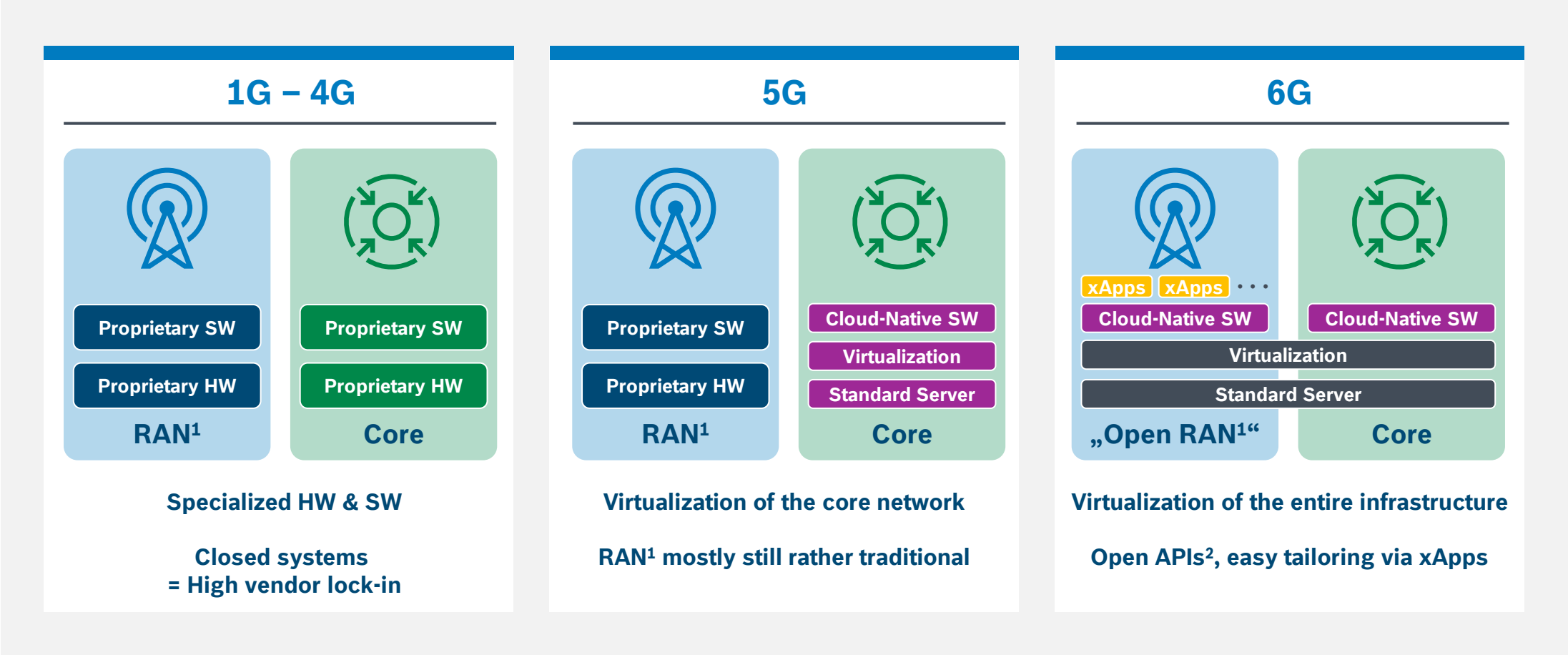
mmWave

6G



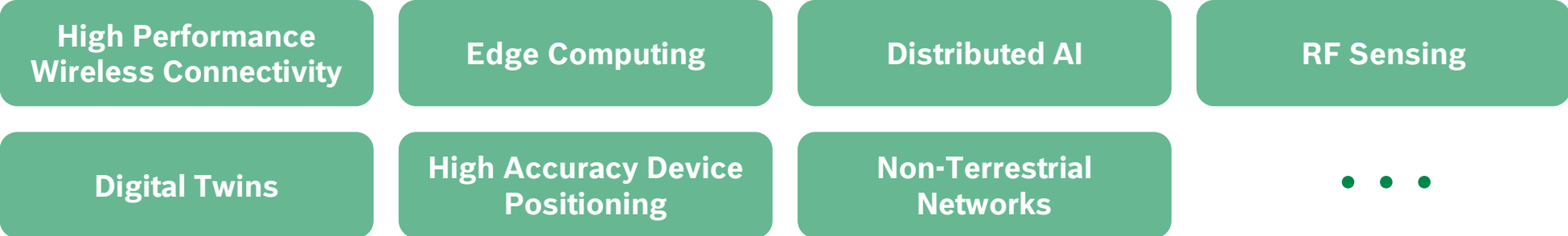
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What's in 6G for Verticals?



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Key Drivers / Requirements

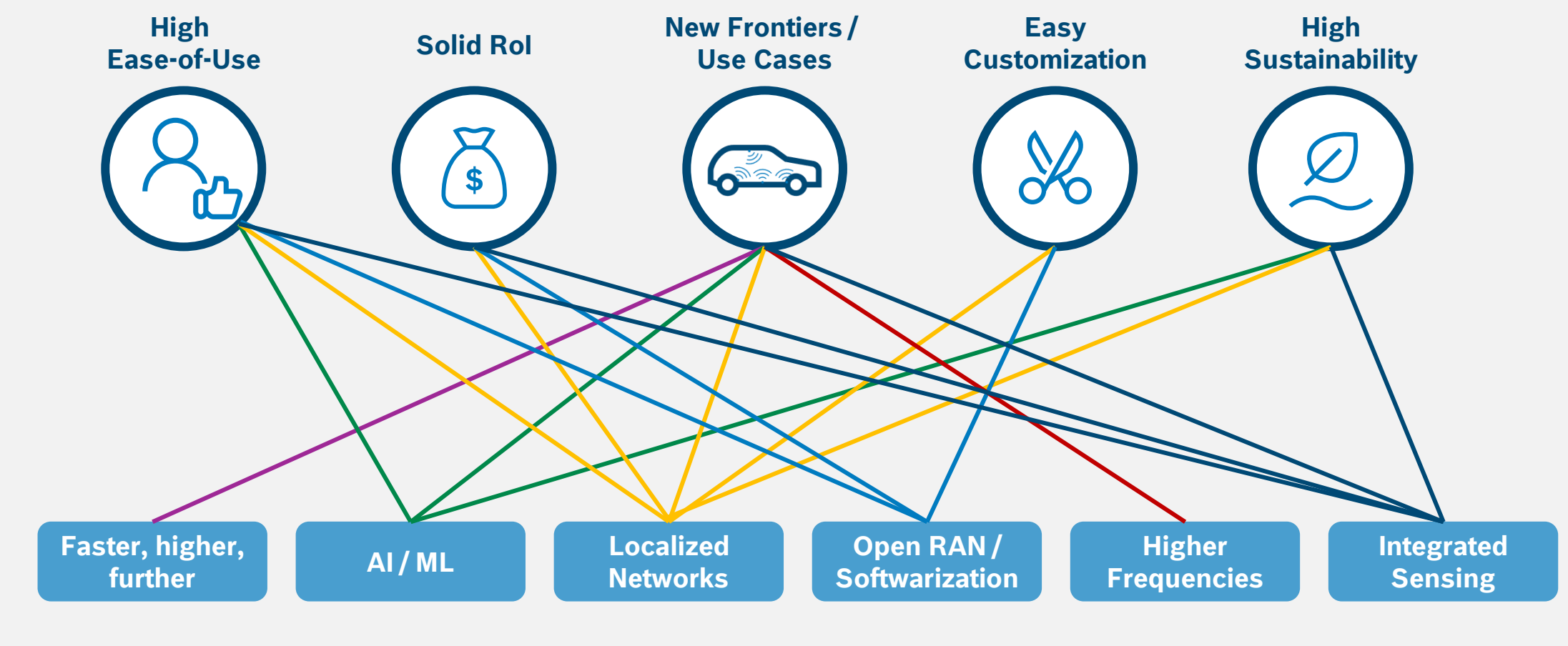


6G

6G will become the ultimate platform for the digital transformation of our society & economy!

6G Key Technologies for Vertical Industries

Key Requirements & Drivers



„6G will be!“



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