

# Towards 6G

What's needed in terms of software technology evolution?

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# Imagine a seamless reality



# A safer and more sustainable world



- Massive amounts of small zero-energy sensors and actuators of various rates
- Joint communication and sensing
- Real time and very low latency
- Secure and reliable communication

# A personal concierge cloud



- Security, privacy, processing in cloud
- Automatic personalization of surroundings
- Personal intent management

# A more authentic communication between people



- Advancements in devices (AR glasses, contact lenses, haptics...)
- High bandwidth and cell density (when used at scale)
- Edge compute and spatial mapping



# 2030 scenarios



The Internet of Senses



Connected intelligent machines



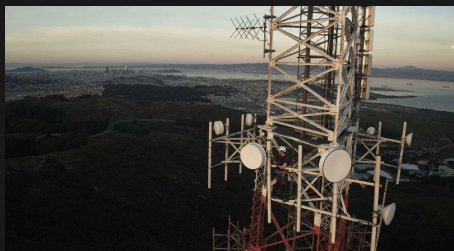
Connected sustainable world

Human and society needs

Digitalized and programmable physical world



Limitless connectivity



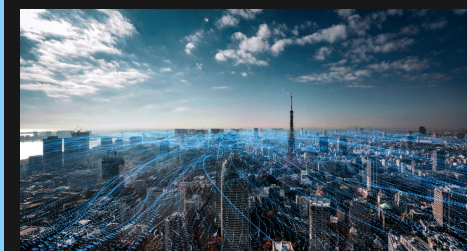
Trustworthy systems



Cognitive network



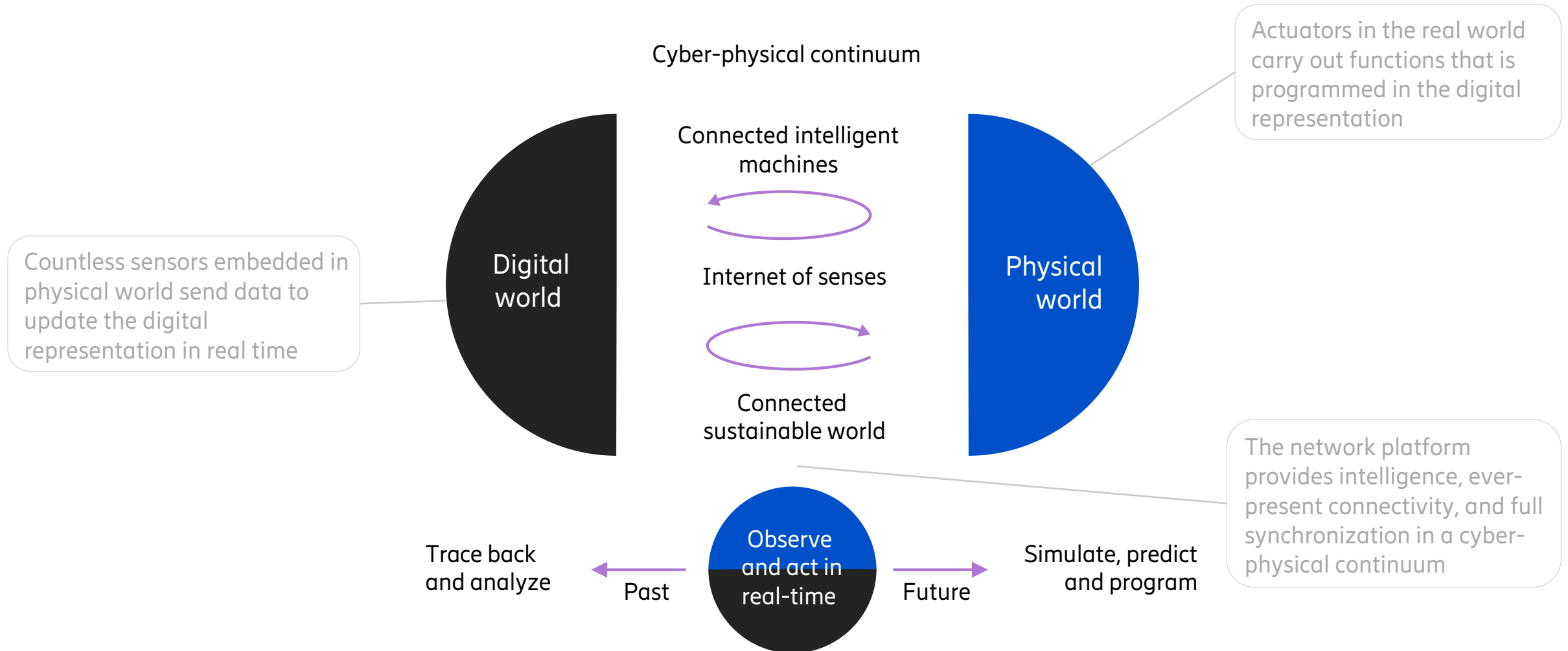
Network compute fabric



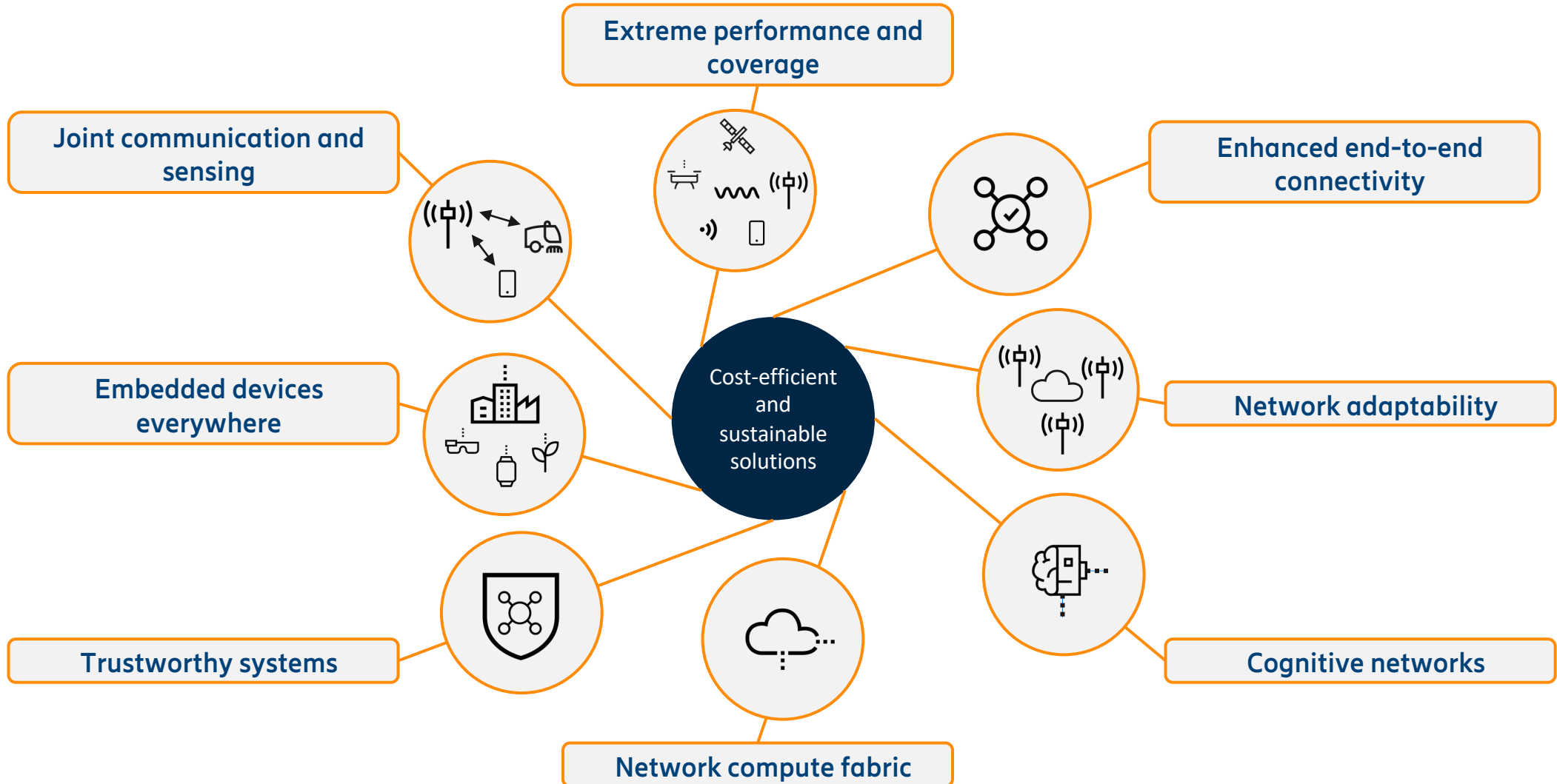
6G network platform

Fundamentals of a 6G network platform

# Connecting a cyber-physical world



# 6G technology areas





# Software enablers needed



Software to support CI/CD  
Operations and software life-  
cycle

Automated DevOps and DataOps Pipelines

Software solutions to enable AI and  
self learning

Software for resilient and secure  
end-to-end systems

Software technologies to  
support Run-Time

Software enablers for data driven  
development

Heterogeneous multi-layered  
distributed software systems

Software tools for code Design,  
test design, analysis and  
quality assessment

Core and emerging software and compute  
paradigms

Tools to aid development efficiency and simplify  
implementation of complex software systems



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