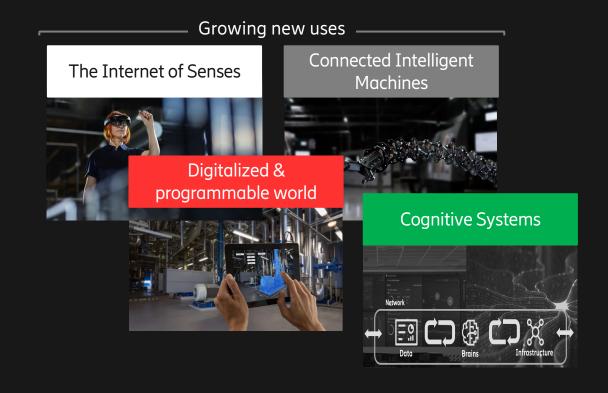




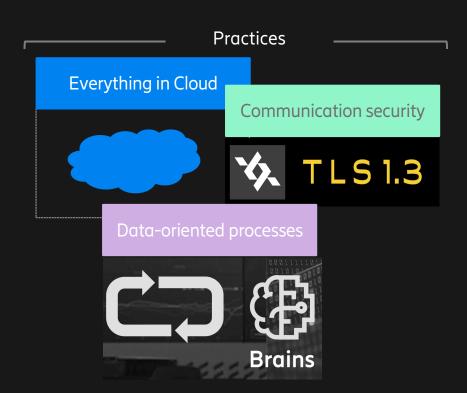
Where are we today?

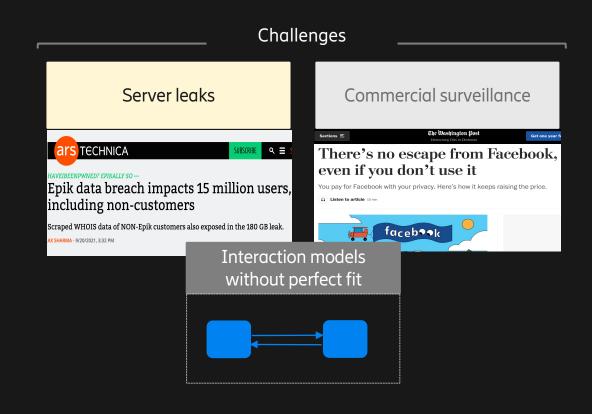






Where are we today?





Opportunities: Using the web model in new ways



Data-oriented designs

CoAP observe interfaces

Data-object security

OSCORE

Publish-subscribe data transmission mechanisms

•••





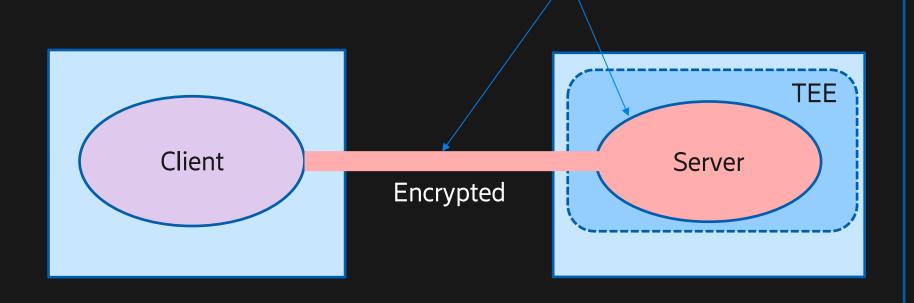
Beyond communications security

Protecting data at rest & in use

Oblivious protocols

Confidential computing

•••



Data stays inside encrypted

environment

Opportunity: Sensing in networks



6G Joint communication and sensing

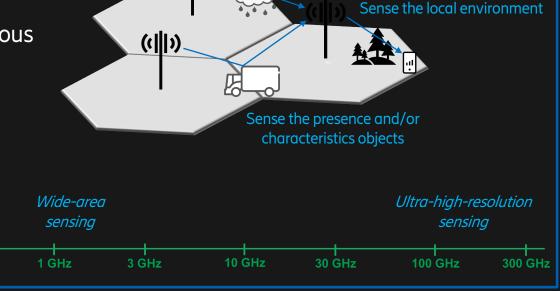
Sensing functionality as an integrated part of the communication network

- Higher frequency communications allow sensing the environment
- "Each blockage of a communication link is a sensing opportunity"*

Needs massive data flows & intelligence to recognize what various sensing observations mean (e.g., car, pedestrian, animal, ...)

Needs a new way to convey results to applications

• Different from today's PDP contexts, tunnels, bit pipes



Sense the local whether conditions

