

The 5G Transformation:
no sweet without sweat

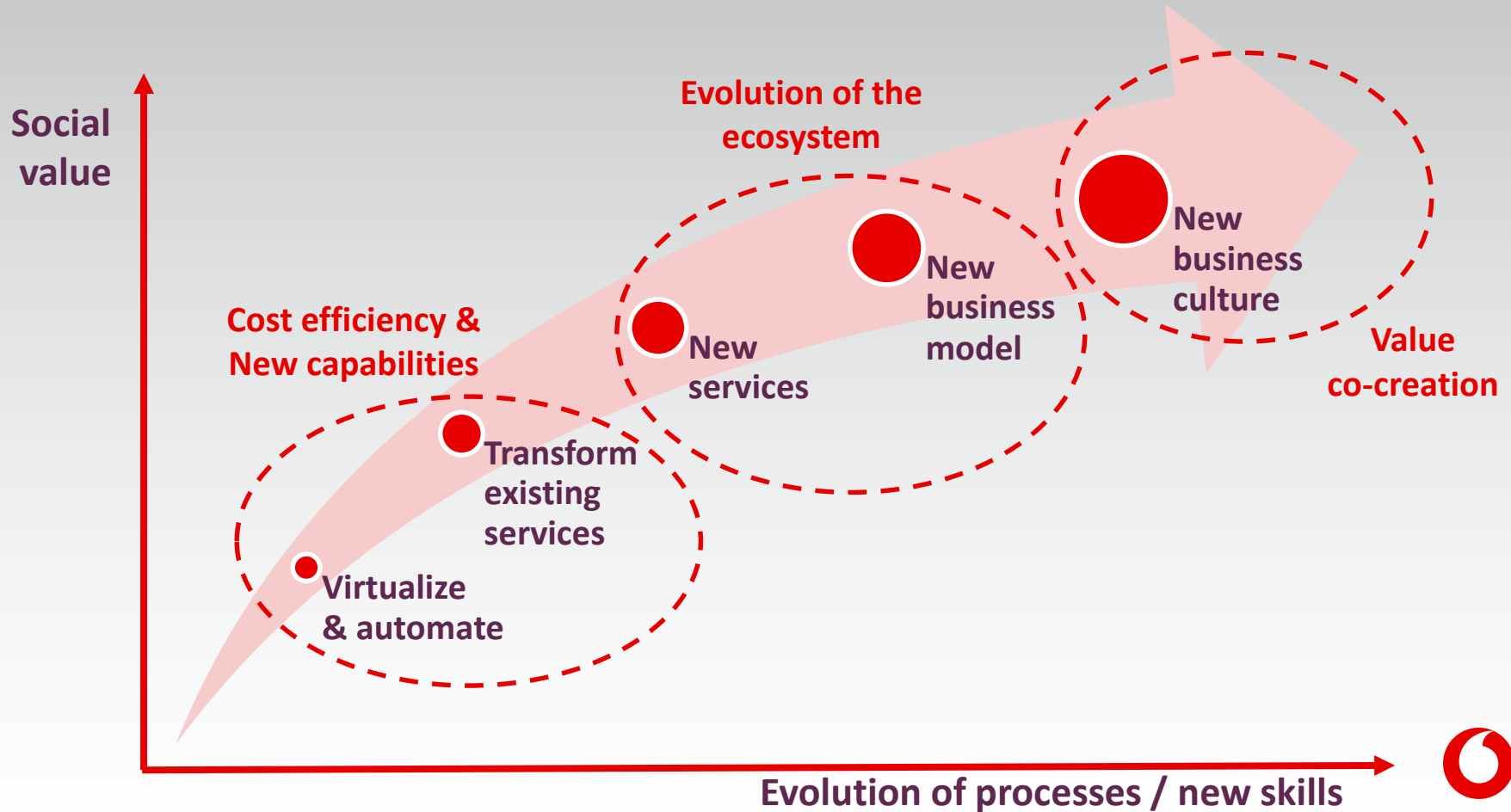
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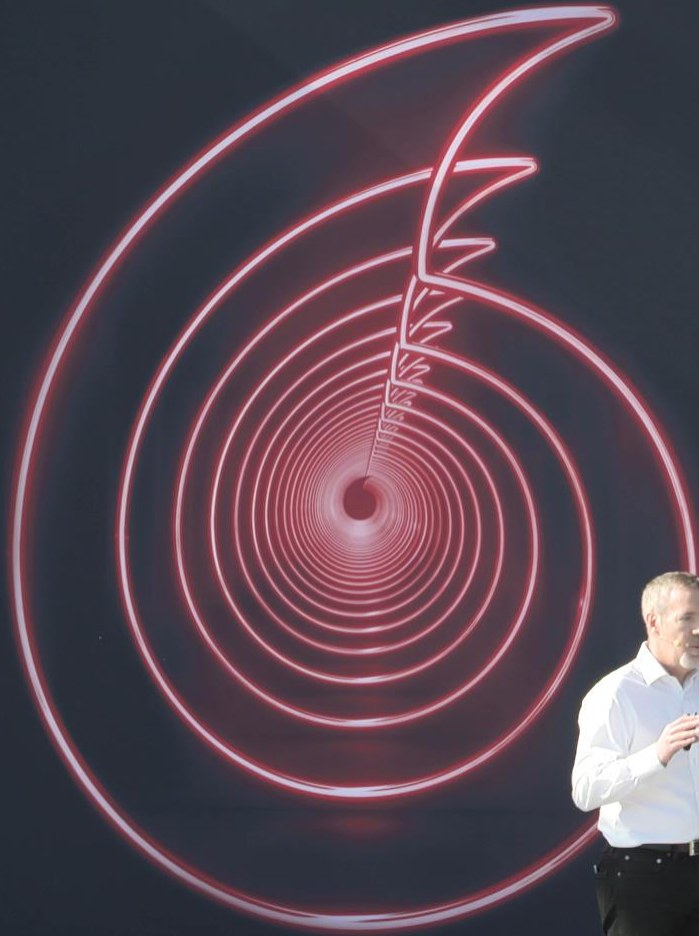
26th September 2019

The journey towards a transparent network that creates social value





Reinvent





#5Gamechanger

Launched 5G and Vodafone Unlimited Plans
July 3rd 2019 with a world first haptic suit
demo over 5G

Launched 5G Roaming in Germany, Italy &
Spain

Announced a 5G innovation centre at
Wasps Ricoh Arena

Announced world's first fan-assisted referee
(FAR) system with games live-streamed over
5G

Exclusive partnership with Hatch – the
world first's cloud-based mobile gaming
platform built for 5G

5G Blast Pod



Media City UK



Hatch Partnership



Ricoh Arena



NB IoT trials



Newbury HQ



5G Football League



5G

Making our Innovation Accessible

Overall purpose of Vodafone Innovation Hub



Enable Start-ups Cooperation

Work with the SMEs to enhance our digital experience



New Vodafone products and services

Create demos, pilots and services launches



5G Local & Global Awareness

%of overall 5G News associated to Vodafone

Partnering up with the start-up ecosystem will provide us with a time-to-market advantage and to help boost our 5G development





Making our Innovation Accessible

Health and wellbeing



9 use cases

Remote surgery

Connected ambulance

Remote patient monitoring

...

Security and surveillance



5 use cases

Disaster recovery

Services for public security and emergency

...

Energy, smart grid, smart city



3 use cases

Smart City and smart campus

Smart Energy

...

Automotive and mobility



4 use cases

Cooperative urban cross traffic

Assisted driving - platooning

...

Industry and manufacturing



12 use cases

Collaborative robotics for Industry 4.0

Assisted maintenance with AR and drones

Last mile logistics with autonomous vehicles

...

Education, learning, entertainment



7 use cases

Education 4.0 with Augmented Reality

Remote events with Virtual Reality

...

Digital divide

1 use case

Fixed Wireless Access - FWA





The Future relies on...

Network Sharing



Standardisation

Single Rural Network

Beacon |||

Digital Operations



Zero touch operations & deployment

Predictive & automated solutions

Digital Squad within Networks

Programmable Networks



Virtualized & software driven networks

Programmability & orchestration of resources

Global Service Platforms



IoT

One Number

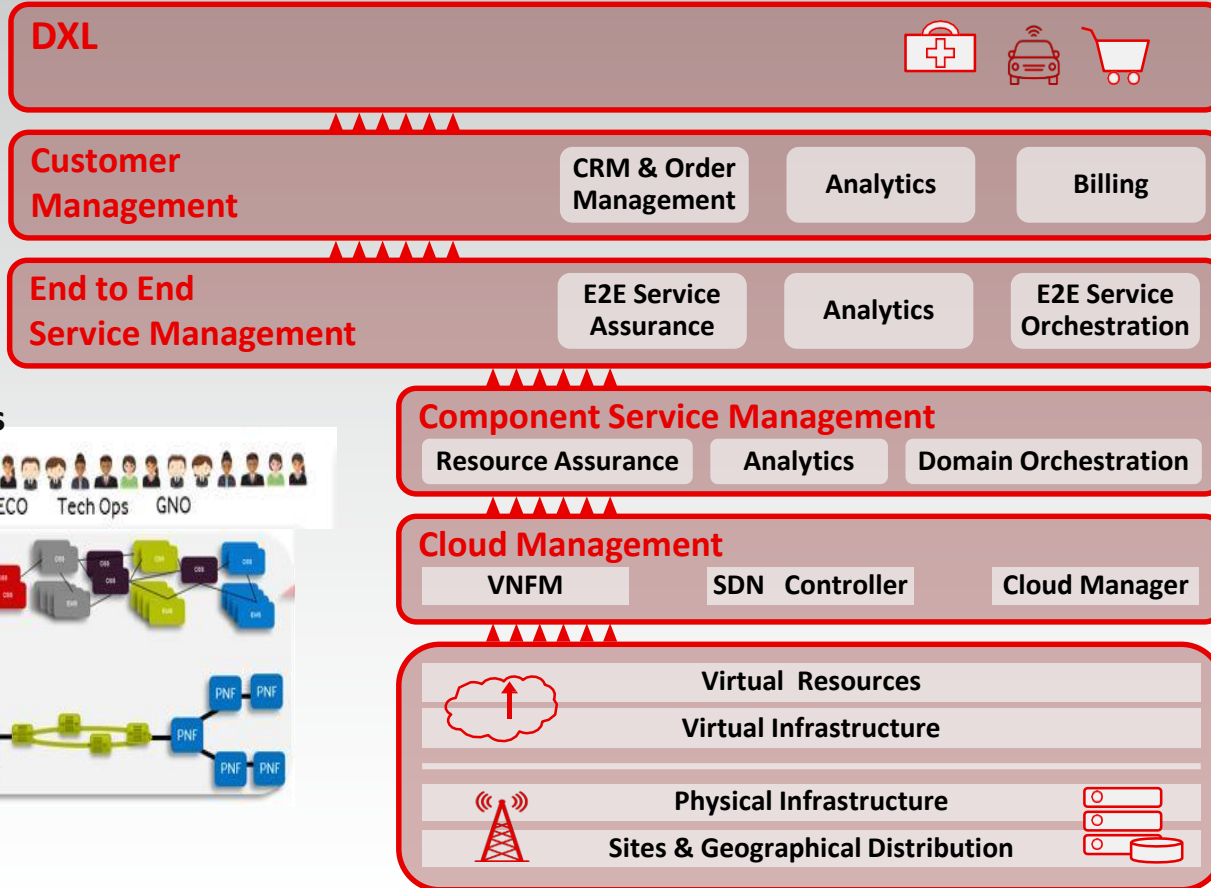
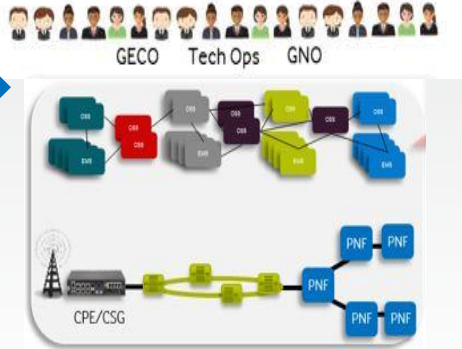
Delivering Technology for the future



Journey to a Programmable Network-as-a-Service

FROM...

- Silo monolithic architecture
- Spaghetti integration
- Manual processes

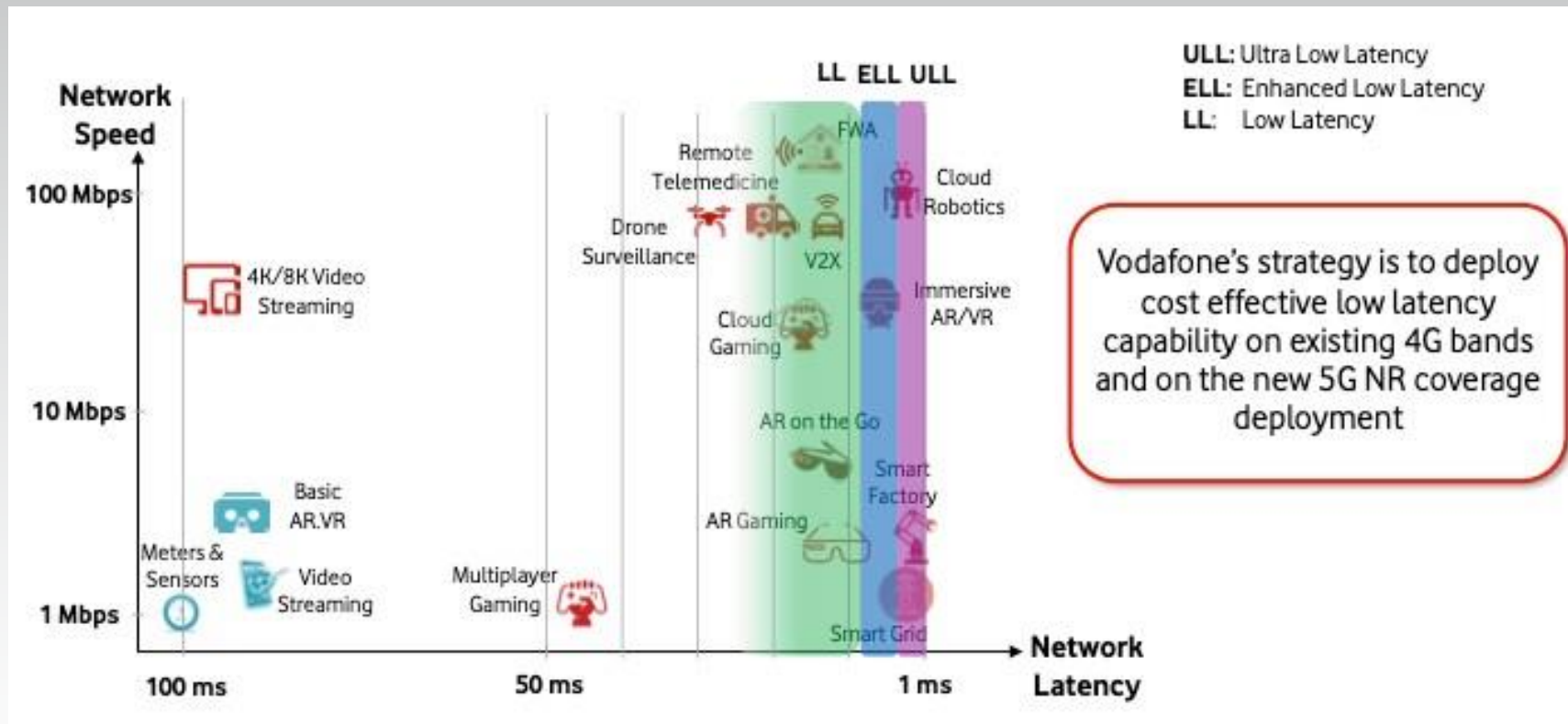


...TO

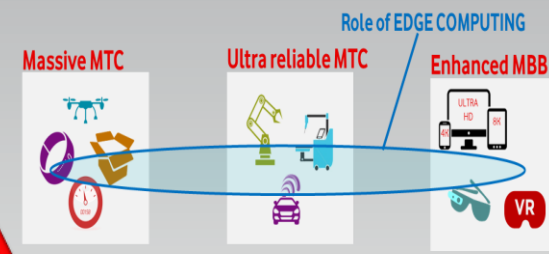
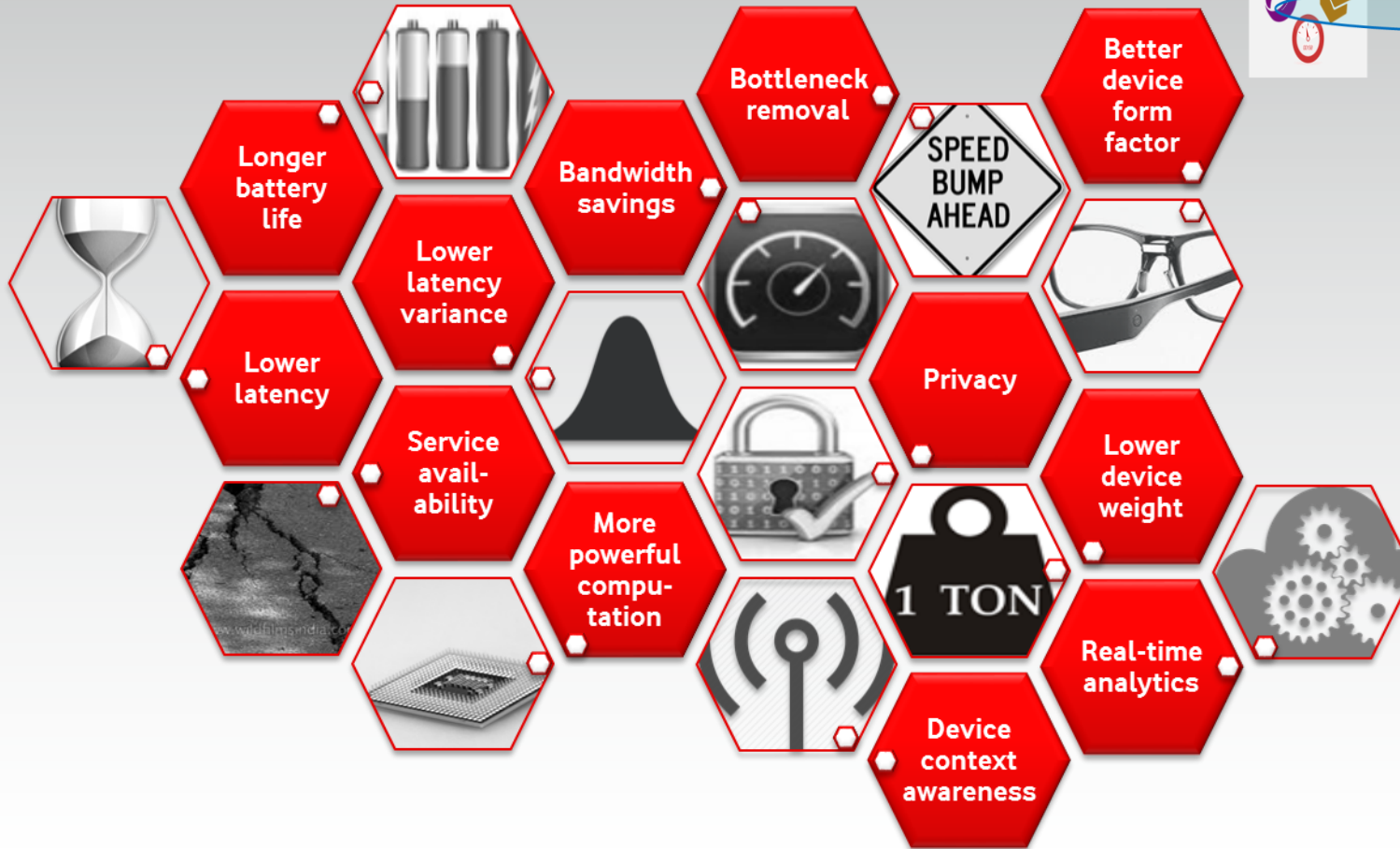
- **Build NaaS**
- **From monolith to platform & APIs**
- **Add Automation:**
 - ✓ customer service lifecycle management
 - ✓ network services lifecycle management
 - ✓ resources use optimization
 - ✓ policy-driven, real-time assurance and auto-healing
 - ✓ quicker onboarding of new services and VNFs
 - ✓ abstract complexity of networks for business system consumption



Speed and Latency Enable New Applications



Why Edge Computing



The Transformation Challenge



Evolution vs. Transformation





Thank you!