



The 5G Infrastructure Public-Private Partnership


Making 5G a real booster for vertical markets
EuCNC, 01/07/2015

Healthcare

- moving care close to the point of need
 - mobile health monitoring services
 - data security and privacy
 - remote surgery
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- coverage
 - deep indoor
 - rural areas
 - mobility
 - reliability (99.999%)
 - traceability, trust
 - low latency

- Many requirements can already be covered by enhanced LTE (4G) but some are very challenging especially when considering costs
- Liability and regulation will play a big role

Automotive

- in car entertainment and working
 - smart navigation
 - cooperative driving
 - autonomous vehicles
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- coverage
 - hybrid network
 - location accuracy
 - device to device
 - ultra low latency

- Challenge remains to manage human and robot driving concurrently
- Significant involvement of the automotive industry in 5G design and testing has to be planned

Factory of the Future, Energy, Media & entertainment



Outdoor and indoor; Short-range and wide-area
Closer data processing; short latency (30 ms) for robot control
Embedding of 5G technology into shipped machines and products



From 5ms to 1s latency, from 1 kbps to 1 Gbps; QoS provisioning
Resiliency is key to ensure the safety of the energy supply
Regulation is very strong in the sector



Video services do not require low latency but Ubiquitous coverage.
Use cases vary widely: virtual reality, gaming, event related video on-site
Business models and revenue sources and network costs are still rather unclear .



<http://5g-ppp.eu>

Thank you for your attention!

