

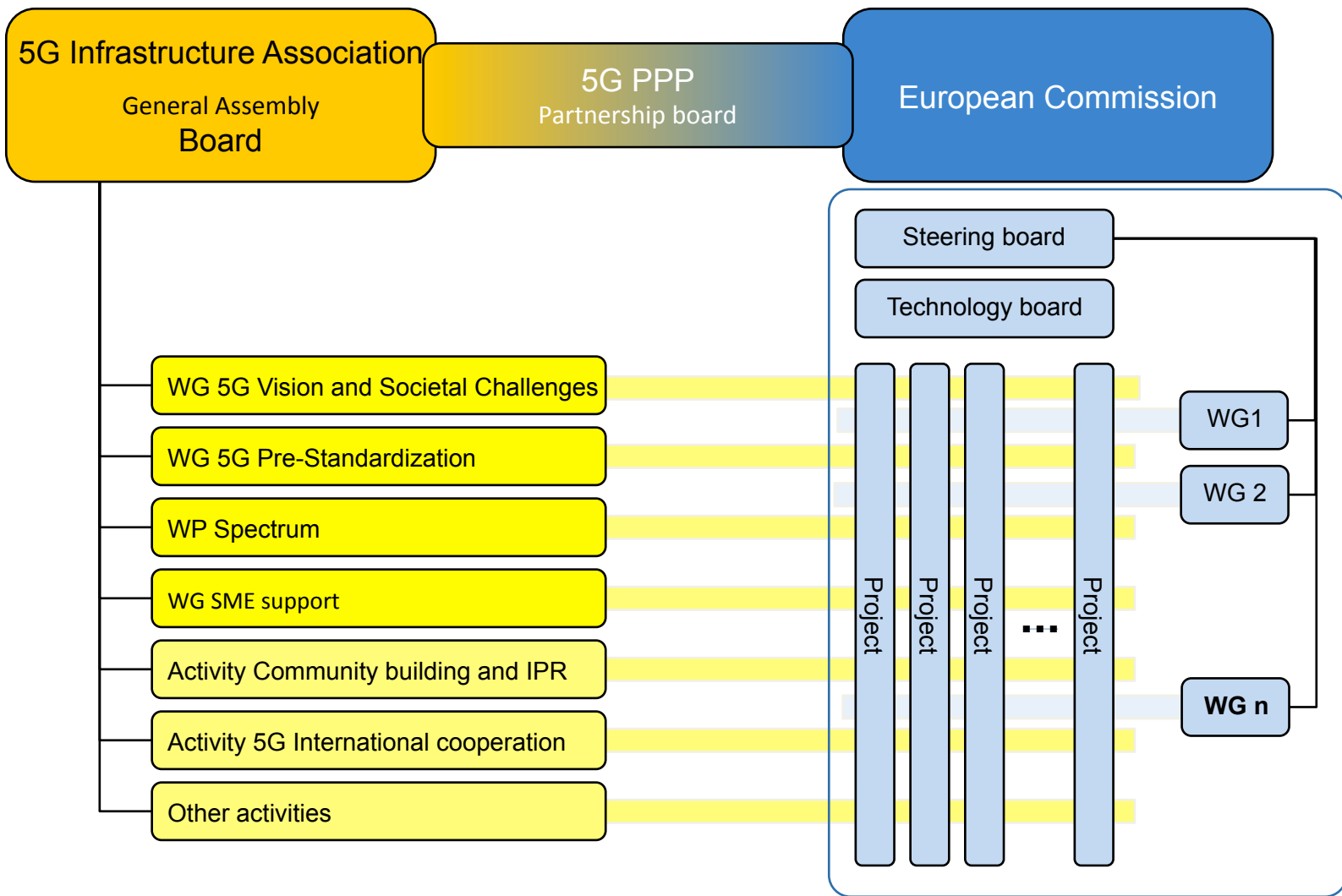


5G Security and Standardization

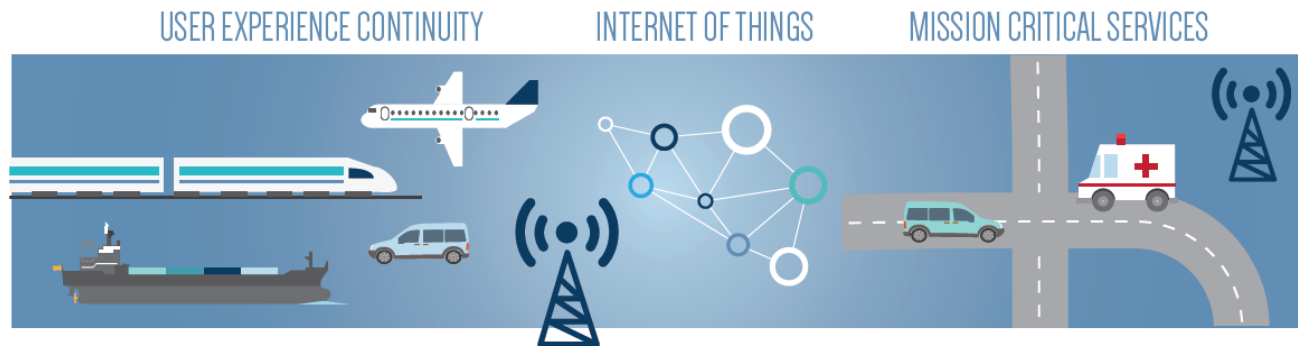
5G-PPP WG Pre-Standardization

2016-06-16

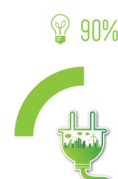
5G-PPP Overview



5G-PPP Vision and Requirements



- 5G supports efficiently three different types of traffic profiles
 - eMBB – high throughput for e.g. video services
 - mMTC – low energy for e.g. long-living sensors
 - URLLC – low latency for e.g. mission critical services
- 5G covers network needs and contributes to digitalization of verticals
- 5G scales to growing demand and different, heterogeneous network layouts



These Key Requirements are not expected

to be met all at the same time

Security in 5G



Security for
PEOPLE



Security for
BUSINESS



Security for
SOCIETY

eMBB

Evolution of 4G security
Ensure availability

mMTC

Illicit information fusion
Energy-efficient security

URLLC

Controlled access
Integrity of messages
Ultra-efficient security

5G Security

- New business and trust models
- New service delivery models
- Evolved threat landscape
- Increased privacy concerns

- 5G security is not only a technical issue – also business and societal risk management

- Security is not a quick fix – it emerges as a result of consistent technology and procedure work

Standardization of 5G security

- Flexible security baseline
 - Slice/Vertical-specific additions
- Multi-stakeholder approach involving operators, vendors, regulators, policy-makers, verticals and IoT necessary
- Relevant standardization bodies
 - 3GPP SA3
 - 3GPP RAN
 - IETF
 - ISO
 - IEC
 - CSA





Thank you for your attention!

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