

EU H2020 5G-PPP Phase 2 Project

5G Mobile Network Architecture for diverse services, use cases, and applications in 5G and beyond

Project Overview Motivation, Approach, Impact

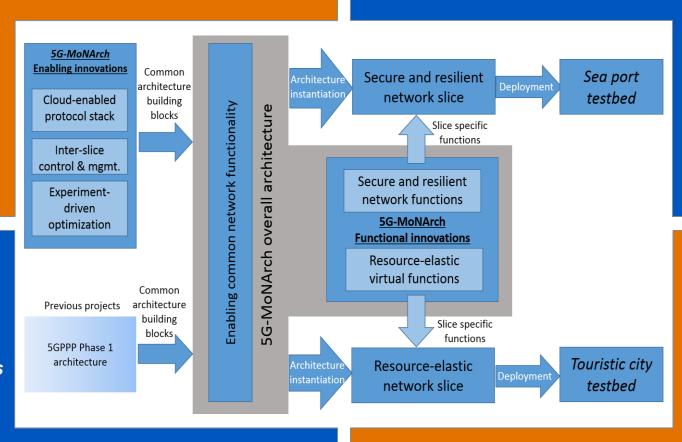
Motivation:

- 5G architecture: Flexible, adaptable, programmable
- Proof-of-Concept through real-world testbed implementations

Approach:

- 3 enabling innovations, which fill gaps not addressed in 5GPPP Phase1
- 2 functional innovations

 (one per testbed),
 complementing
 architecture with specific
 functionality



Testbeds:

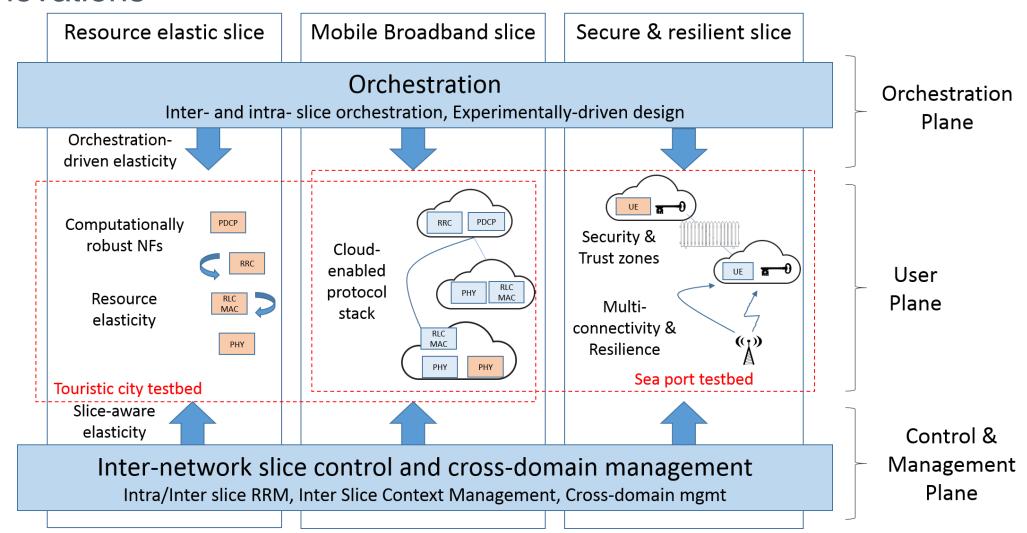
- Vertical industry use case (smart sea port)
- Mobile operator deployment (touristic city)

Impact:

- Commercial potential for enhanced products and novel services
- Paving the way for new market players



Project Overview Innovations





Project Overview Testbeds



Smart Sea Port (Hamburg)

Applications

- Traffic light control (cMTC): Traffic lights which are connected through wireless connection; reliable and resilient; data integrity
- Video surveillance (MBB): Video surveillance required to control entrance to areas, current status of areas, etc
- Sensor measurements (mMTC); Sensor measurements on barges which must be connect through wireless terminals

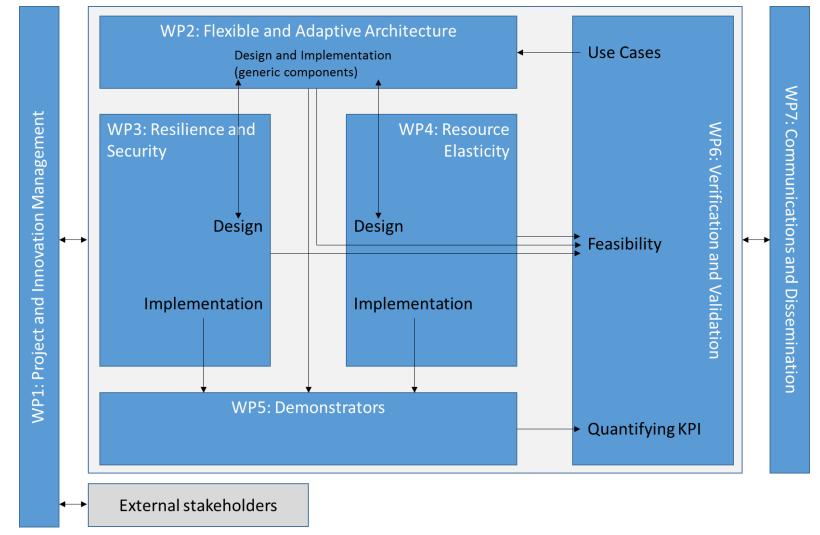
Touristic City (Venice)



- Focus areas:
 - On-site Live Event Experience by means of VR
 - Immersive and Integrated Media: People will see a part of Venice city full of real and imaginary people
 - Cooperative Media Production: People will cooperate in real time with imaginary and real people who are feeling the same VR experience.



Project Overview Project Structure





Project Overview Key Facts

- Project Details
 - Project runtime: July 2017June 2019 (24 Months)
 - Leadership team:
 - Coordinator: Nokia Munich (Germany)
 - Technical Management: Universidad Cárlos III de Madrid UC3M (Spain)
 - Innovation Management:
 Deutsche Telekom, Darmstadt
 / Bonn (Germany)





