Verification & Validation of 5G Mobile Network Architecture

Evaluation scenario
Hamburg study area covering
- Inner city centre
- Sea port area

Evaluation case 1:
Resilient network slices for industrial applications

Evaluation case 2:
Elastic network slices enabling local peak performance

Evaluation case 3:
Economies of scale and scope in wider smart city environments

Techno-economic verification

Define services and demand profiles per evaluation case

Revenue assessment:
- Existing ecosystems
- Operational benefits
- Willingness to pay

Cost assessment:
- Baseline eMBB network costs
- Incl. enablers in cost model
- Cost with enablers per evaluation case

Impact on return on investment for each evaluation case

Commercial verification

Assessment of social and wider economic benefits of services per evaluation case

Socio-economic verification

Likely commercial models needed and implications for deployment options and partnerships

Implications for stakeholders and validation of findings

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