



Pre-Standardization

Priority and phasing of the vertical use cases

Agenda

- 3GPP activities
- Identifying vertical use-cases requirements
- Identifying relevant standardization bodies



3GPP activities

- 3GPP SA1 SMARTER overview, Toon Norp



3GPP Time-line

- Study Phase in 3GPP TSG RAN to start in December 2015
 - The study should assume no phasing, nor aim to conclude on any phasing. Requirements should be defined for all identified use-cases.
- Study Item in 3GPP TSG SA WG1 ongoing
 - Looking for inputs on use-cases
- Study Item in 3GPP TSG SA WG2 expected to start December 2015
 - Will look for inputs on 5G architecture
- Phase 1 until H2 2018
 - Phase 1 to be completed by H2 2018 to address a more urgent subset of the commercial needs
 - There is no consensus yet what is the “urgent subset of the commercial needs”
- Phase 2 until December 2019
 - Phase 2 to be completed by December 2019 for the IMT 2020 submission and to address all identified use-cases and requirements



Vertical use cases

- Which are the most important requirements?
 - Critical vs “good to have”
 - Which are not covered by MBB/LTE evolution?
- What are the commonalities
 - What is it worth?
- To what extent are this covered by 3GPP?
- Which are the most relevant standardization bodies?
 - What are the time-lines of those?
- What research results are needed to support the vertical use-cases?
 - When are the results needed to provide timely input to the standardization process?

Verticals

- Energy
- Factories-of-the-Future
- Automotive



Key messages

- Technical requirements
 - Latency
 - Reliability
- Security
- Business impact
 - Easy entry, “plug-and-produce”
 - Business models
 - Regulatory needs

