



Verticals in 3GPP

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3GPP works based on

- Participation in face-to-face meetings. Each group has well-defined competence.
- Contributions – you need written proposals to get attention and make progress.
- Consensus – an absence of objections is needed in order to progress, though there are exceptional processes.



Work organization

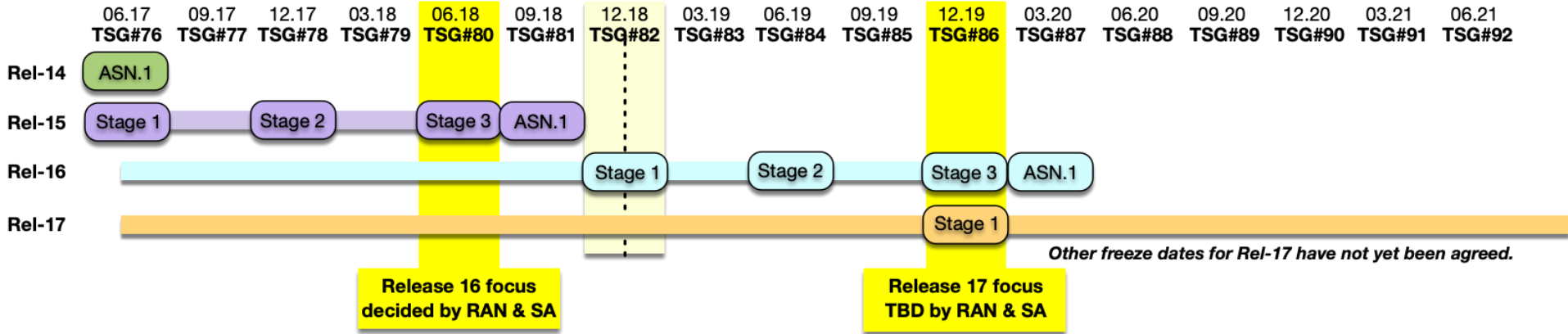
- Study Items produce conclusions => Work Items produce normative specifications
- Releases with fixed time-lines, which are partially overlapping



3 stages, often overlapping

- Stage 1: Requirements (in SA: SA1 for services, SA4 for media, SA5 for OAM, and in RAN, and in RAN WGs)
- Stage 2: Architecture (in SA: SA2 and SA6, SA3 for architecture; SA4 for media, SA5 for OAM; RAN1, RAN2 and RAN3)
- Stage 3: Protocols (in SA: SA4, SA5; in RAN – all WGs)

Key Milestone – Rel-17 Focus Decisions



- Approval & time allocation for new work in RAN WGs and SA2 are very competitive.
- Planning for Rel-17 work package approval Dec 2019: **consolidate** requirements and functions across verticals and ensure wide support. **This needs to start now!**

Work in 3GPP is contribution driven

Contributions in 3GPP TSG SA1 (service requirements) over time:

Contributions <u>in</u> <u>SA1</u>	2016	2017	2018
Vertical	114	262	280
Others	682	587	473
Total	796	849	753
Vertical Share	14,32%	30,86%	37,18%

**Drive the work
to get the
functionality
you want!**

Contributions of members associated with vertical sectors:

Contributions <u>in all</u> <u>of 3GPP</u>	2016	2017	2018 Q1-Q3	2018 Q4
Vertical Share	2,1%	1,2%	1,8%	1,6%

Adoption linked with Scale

- 📶 Verticals may require functions in the radio access network, the core network, or end to end.
- 📶 Functions are implemented and adopted most readily (especially in terminal chipsets) when they have **broad applicability**.
- 📶 Consolidation and cooperation amongst verticals is not only important for success in standards but also to make features commercially viable.

Cooperation

- 📶 Working with 3GPP vendors and operators allows verticals stakeholders to benefit from knowledge and competence and to find common interests.
- 📶 Through reuse of functionality where advantageous and common benefit across different business domains → Economies of scale are achieved.



Thank you!



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Supplementary Material

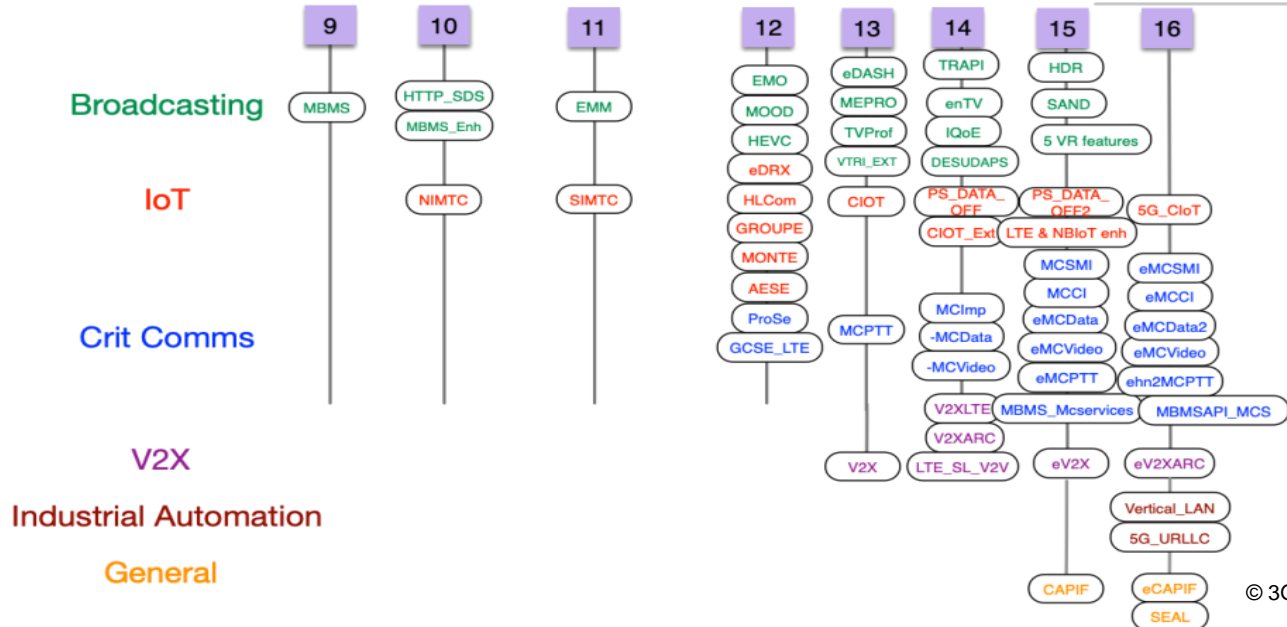


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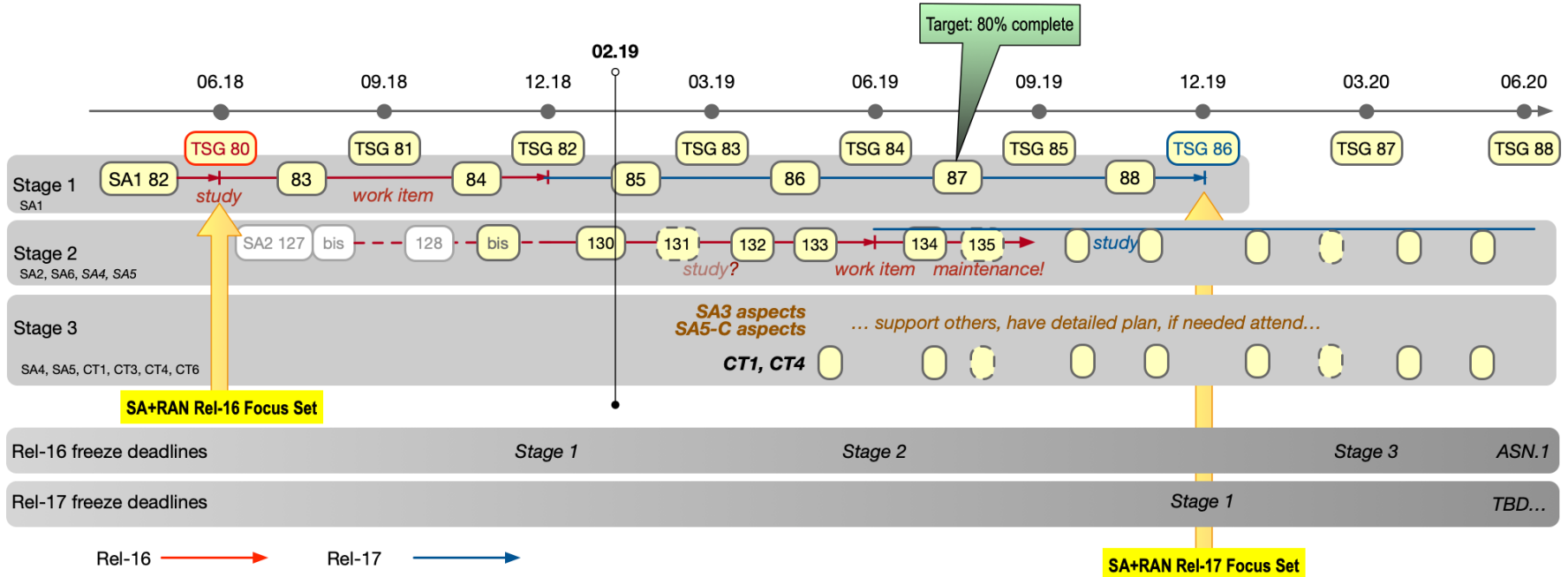


Verticals in 3GPP

Release
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3GPP SA & CT work in Rel-16



5G from a 3GPP perspective

