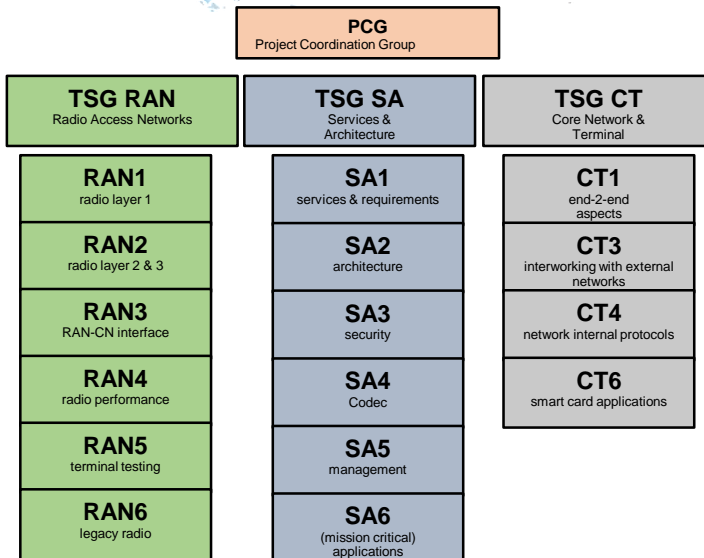# 3GPP SA Standards Work on Edge Computing – Intro

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3GPP

- Global standards organization for mobile communication

- 700+ Companies from all over the world actively participating

- A new Release every 15 to 24 months

- A new Generation every 10 years – 3G/UMTS, 4G/LTE, 5G

- Standards for all sectors of mobile communication – VoLTE, NB-IoT

- ~20 Working Groups & TSGs, each meeting 4 to 8 times a year

- Contribution driven

- Consensus based

PCG
Project Coordination Group

TSG RAN Radio Access Networks	**TSG SA** Services & Architecture	**TSG CT** Core Network & Terminal
RAN1 radio layer 1	**SA1** services & requirements	**CT1** end-2-end aspects
RAN2 radio layer 2 & 3	**SA2** architecture	**CT3** interworking with external networks
RAN3 RAN-CN interface	**SA3** security	**CT4** network internal protocols
RAN4 radio performance	**SA4** Codec	**CT6** smart card applications
RAN5 terminal testing	**SA5** management	
RAN6 legacy radio	**SA6** (mission critical) applications	

Enabling Services Everywhere

5G in

- Factories
- Trains
- Cars
- Drones
- Broadcast
- Hospitals
- Farms
- Utilities (Water, Energy, …)
- Robots
- Home Appliances

3GPP Rel-17 Work Items (selection)

- Network Slicing *
- Non-Public Networks *
- 5G via Satellites
- Proximity Services
- **Edge Computing** *
- Service Based Architecture *
- NB-IoT / 5G IoT *
- Multicast & Broadcast
- Network Automation *
- Location Services *

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Edge Computing in 3GPP SA

- Edge Computing is a basic functionality of the 5G Core Network (5GC)

- Work ongoing since Release-15, now (Rel-17) it affects all parts of the 5GC
  - SA1: Requirements for 5GC, including Edge Computing
  - SA2: Enhancements for Edge Computing in 5GC,
  - SA3: Security for Edge Computing in 5GC
  - SA4: Streaming Architecture Extensions for Edge Computing in 5GC
  - SA5: Management & Charging for Edge Computing
  - SA6: Architecture for Edge Applications

- 3GPP specifications are made to fit into a larger eco-system

- Input from companies who intend to deploy Edge Applications is key for the success

Thank You!

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