



## **Motivation for new Work Item proposal: RAN sharing enhancements for UMTS**

**Huawei, HiSilicon**

# Background

- **The study on RAN Sharing Enhancements for UMTS has been agreed in RAN#66 based on SA1's requirements.**
- **TR 25.756 is completed in RAN3#88 meeting, thus the SI is going to be closed in RAN#68.**
- **The following aspects have been identified:**
  - For load balancing, three solutions have been captured in TR, which include the legacy mechanism, Enhancements to RADIO LINK SETUP message, and the Common Measurement solution. It is concluded that the throughput maximisation principle should be respected.
  - Need to deliver the measurements of network resource usage per participating CN operator in the shared UTRAN. A potential solution is Aggregated DL and UL data volume are collected.
  - Overload for GWCN is out of scope of current SI.
  - PWS for shared RAN is supported based on the existing RAN spec.

# Objectives of Work Item

- **The objective of this work item is to complete the normative work to support RAN Sharing enhancements based on the agreements in study phase.**
- **The detailed description are as follows:**
  - Enhance the load information exchange procedure, either by considering the complement to legacy mechanism, or by introducing load info per PLMN basis for static resource allocation.
  - Introduce methods to monitor and report CS call time/PS data volume per CN participating operator.

Further co-operation needs to be taken into account if out of scope of RAN3.

Thank you !

