**Sub-thread 1 (L12XCM)**

**Proposal 2.1**: On Rel.17 beam indication enhancements for L1/L2-centric inter-cell mobility, support the following:

* Rel-17 MAC-CE-based and DCI-based beam indication (at least using DCI formats 1\_1/1\_2 with and without DL assignment including the associated MAC-CE-based TCI state activation)
  + FFS (to be decided in RAN1#106-e): Whether this also applies to PDSCH/PUSCH associated with UE-dedicated CORESETs only or additional target channels (e.g. UE-dedicated PDCCH/PUCCH)
  + FFS: Whether the above is supported only for joint TCI, or both joint TCI and separate DL/UL TCI (including that, if separate DL/UL TCI is supported, the DL TCI and UL TCI associated with a same cell)
  + FFS: Whether to support activation of TCI states for more than one cells simultaneously
* The DL QCL and UL spatial relation rules already agreed for intra-cell scenario
* The use of SSB associated with a physical cell ID different from that of the serving cell as an indirect QCL reference for UE-dedicated PDSCH
  + FFS (to be decided in RAN1#106-e): Whether this also applies to UE-dedicated PDCCH
  + Note: When RS X is an indirect QCL reference of a target channel, there exists at least one other source signal on the QCL chain between RS X and the target channel
  + FFS (to be decided in RAN1#106-e): Whether SSB associated with a physical cell ID different from that of the serving cell can also be used as a direct QCL reference (source RS) for UE-dedicated PDCCH/PDSCH

**Proposal 2.2**: On Rel.17 L1-RSRP multi-beam measurement/reporting enhancements for L1/L2-centric inter-cell mobility and inter-cell mTRP, decide by RAN1#106-e whether to support the following RS types as measurement RS or not:

* CSI-RS for mobility/RRM associated with a non-serving cell
* CSI-RS for BM associated with a non-serving cell
* CSI-RS for tracking associated with a non-serving cell

Note: If another beam metric other than L1-RSRP is supported (e.g. L3-RSRP is still FFS), the above also applies

**Sub-thread 2 (CA)**

**Proposal 1.3**: On Rel.17 unified TCI framework, for common TCI state ID update and activation to provide common QCL information at least for UE-dedicated PDCCH/PDSCH and/or common UL TX spatial filter(s) at least for UE-dedicated PUSCH/PUCCH across a set of configured CCs/BWPs

* The source RS determined from the indicated common TCI state ID to provide QCL Type-D indication and to determine UL TX spatial filter for a target CC can be configured in the target CC or other CC
* Note: For intra-band CA, the following configurations can be supported without additional impact on QCL rules:
  + One source RS across CCs can be determined from the indicated common TCI state ID to provide QCL Type-D indication and to determine UL TX spatial filter for the set of configured CCs
  + One source RS per CC~~s~~ can be determined from the indicated common TCI state ID to provide QCL Type-D indication and to determine UL TX spatial filter for the set of configured CCs, and the source RSs are further associated with a same QCL-TypeD RS or a same UL TX spatial relation RS
* “A set of configured CCs/BWPs” includes all the BWPs in the set of configured CCs in one band

**Proposal 1.4**: For common TCI state ID update and activation to provide common QCL information and/or common UL TX spatial filter(s) across a set of configured CCs /BWPs:

* An RRC-configured TCI state pool can be configured in the PDSCH configuration (*PDSCH-Config*) for each BWP /CC as in Rel-15/16
* An RRC TCI state pool can be absent in the PDSCH configuration (*PDSCH-Config*) for each BWP /CC, and replaced with a reference to an RRC-configured TCI state pool in a reference BWP /CC
  + In the reference BWP /CC, a TCI state pool shall be configured
* Introduce a UE capability to report maximum number of TCI state pools it can support across BWPs and CCs in a band, and the candidate value at least includes 1
* For an RRC-configured TCI state pool configured in a reference BWP/CC
  + When the BWP/CC ID for QCL-Type A/D source RS is absent in the TCI state, it implies that the target CC of the TCI state and the corresponding active BWP should be used to determine the source RS
  + When the BWP /CC ID for QCL-Type D source RS is present in the TCI state, it implies that the BWP/CC ID of the TCI state and the corresponding active BWP should be used to determine the source RS
  + Note: Cross-CC UL power control indication is to be addressed separately
  + FFS: inter-band CA, e.g. two or more sets of configured CCs in a UE

**Sub-thread 3 (switching)**