

Knowledge and Intelligence-based 5G Deployment and Management

Mobile Communications Research Group

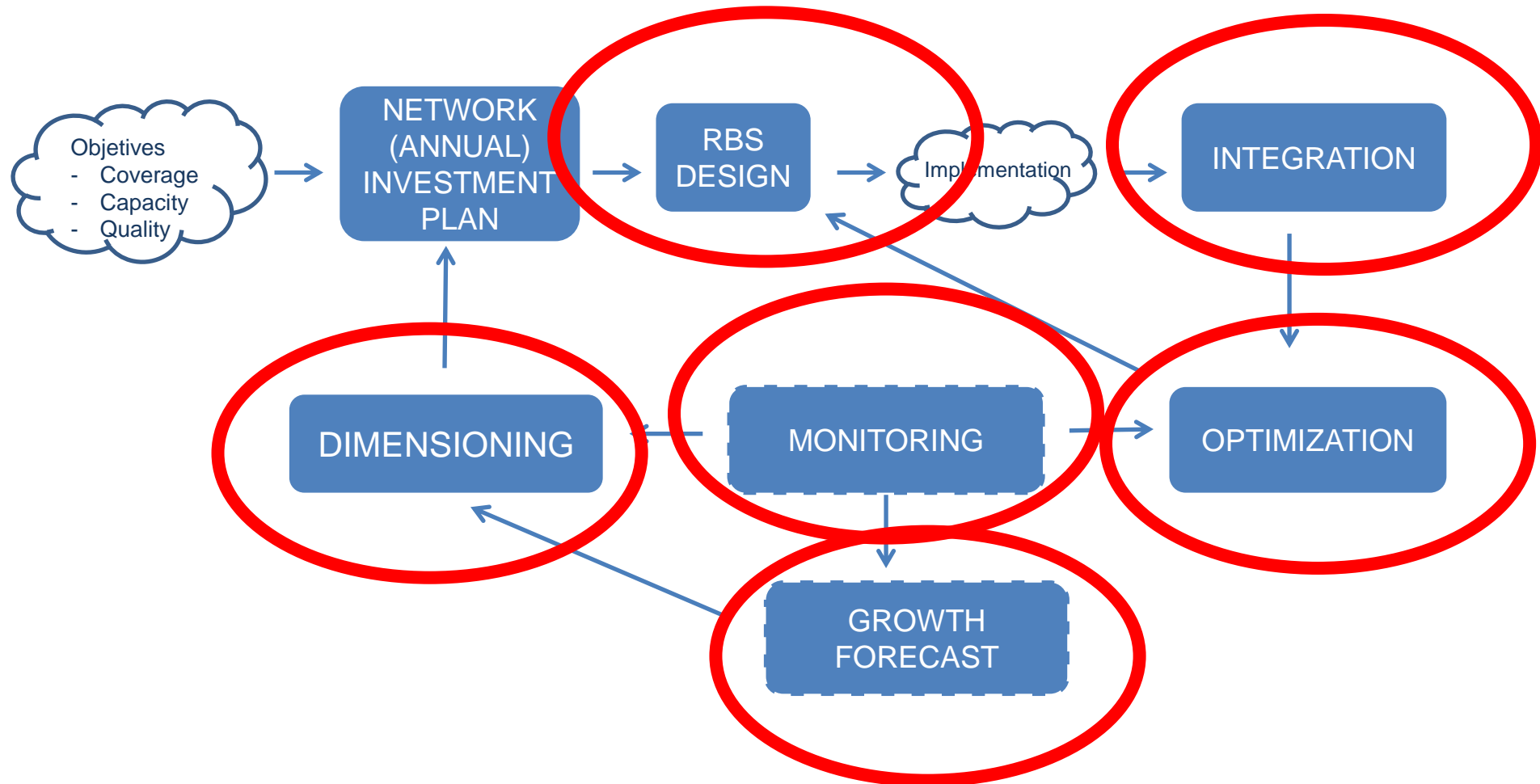
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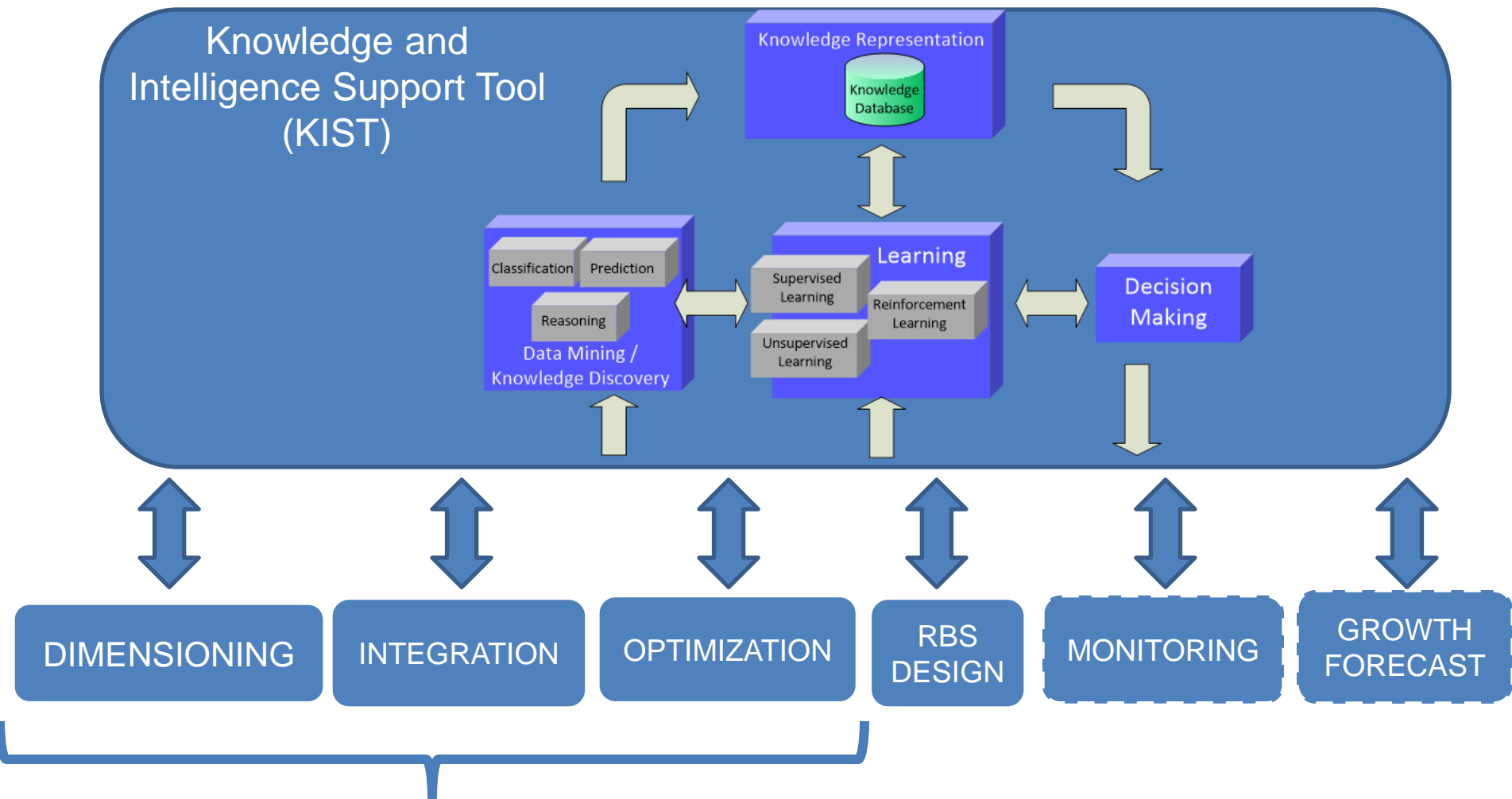
MNO's operation processes



5G scenarios will be heterogeneous in nature, combining multiple technologies and cell sizes, and will exhibit increased complexity:

- Need to revisit actual methodologies & add novel methodologies
- Need to fully consider and exploit knowledge and intelligence into the processes

5G deployment and management



Knowledge and intelligence will enable an upmost efficient, dynamic and adaptive **tight operation of Dimensioning, Integration and Optimization** processes

- Smart access network creation (SANC)
- Smart spectrum access and management (SSAM)