NTN Side Meeting

Use cases and food for thoughts…

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Trends & Facts

- NTN become more interesting as integral part of cellular mobile communication systems
- Altitude of NTN nodes determines earth coverage and communication delay
- NTN nodes can be stationary or non-stationary

- Opportunity for advanced use cases: Move from transparent NTN to regenerative deployments

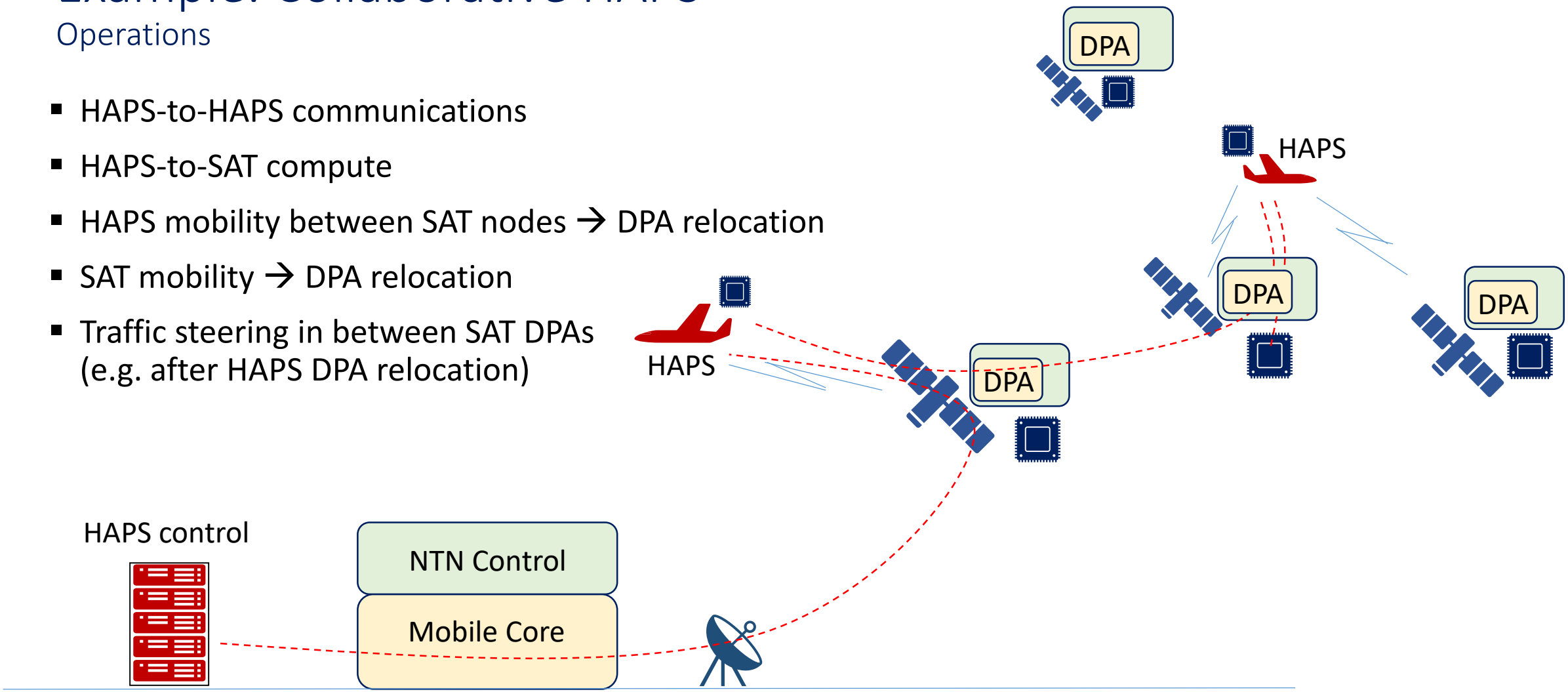
- Use case and value to justify costs and complexity

- Example (to foster discussion…): Deployment of Data Plane Anchor (DPA, i.e. 5G UPF) on SAT

Example: Collaborative HAPS

Operations

- HAPS-to-HAPS communications
- HAPS-to-SAT compute
- HAPS mobility between SAT nodes → DPA relocation
- SAT mobility → DPA relocation
- Traffic steering in between SAT DPAs (e.g. after HAPS DPA relocation)



NTN Control – some requirements

- Inter-working with Mobile Core
- Traffic steering
  - Between two HAPSs‘ DPNs
  - Between HAPS DPN and local SAT compute
  - Between HAPS DPN and ground station (HAPS Control)
  - Service continuity after HAPS handover between SAT DPN and/or SAT DPN relocation
- …