GN3 Architecture Workshops
Personal Summary

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NORDUnet
Nordic infrastructure for Research & Education

- No new architecture emerging
  - No fundamental change in networking
- Key components of future network identified
  - Need to make CBF real – federate!
  - Need for a peering access infrastructure
  - Need for higher capacity – 40G & 100G
  - No *large-scale* uptake of dynamic circuits
  - Need to support L2.5 "circuits"
- Recognition of central role of operations for multi-domain services and federated designs
- Emerging technologies – backbone MPLS, carrier Ethernet, OTN

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- Prolong life of existing platforms
  - upgrade path to 40G and 100G is supported
  - Extend contracts
- Make CBF work in current network
  - IP and optical
  - Pursue operations for federated designs
- Investigate key technologies for network overhaul in ~2 years, i.e.
  - OTN for circuit integration (GÉANT and NRENs), dynamic circuits
  - High-capacity MPLS for GN+, peering backbone, possible future IP backbone
  - JRA1 & JRA2 key! Ask for investigations.