Hannu Flinck
@ Architecture & Systems Group, SR Lab of Nokia Bell Labs

- Senior Research Project Manager

- Home base in Espoo but now on job rotation for 6 months (last month has started!)

- Main focus on 5G core Architecture and particularly Sevice Based Architecture.

- **Expertise areas and background**

- 5G architecture.

- SDN in packet core and at the edge.

- User plane protocols.

- Multi-access edge computing.

- IP protocols and routing , IETF participation.

- Technoeconomic value chain modeling.

- Content distribution: ICN and caching some years ago…

- Example of publications:

- End-to-end network slicing enabled through network function virtualization.

- Towards Edge Slicing: VNF Placement Algorithms for a Dynamic & Realistic Edge Cloud Environment.

- Lightweight service replication for ultra-short latency applications in mobile edge networks.

- A refactoring approach for optimizing mobile networks.

- Future scenarios and value network configurations for industrial 5G.

NOKIA Bell Labs

Open questions for further discussions

- Service Based Architecture (SBA) of the 5G:
  - Cloud based architecture that is composed of micorservice services
  - Defined by REST APIs and interactions between services and their consumers follow CRUD.

- Granularity of network functions/services and suitability of microservice design patterns
  - What about "Side cars" ?

- HTTP2 vs. QUIC and their impact to SBA
- Transition: HTTP2 -> HTTP/QUIC: HTTP2/QUIC? Is there such?

NOKIA Bell Labs