TUM Chair of Communication Networks (LKN)
Wolfgang Kellerer
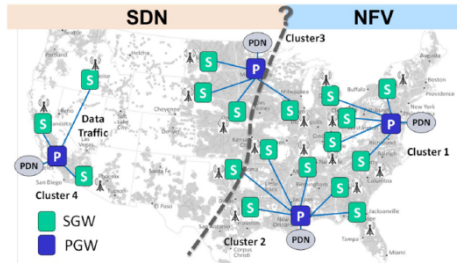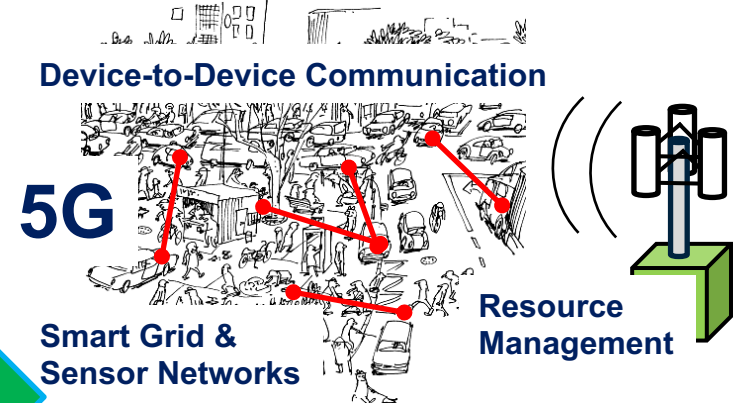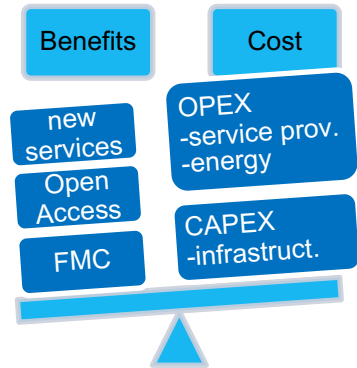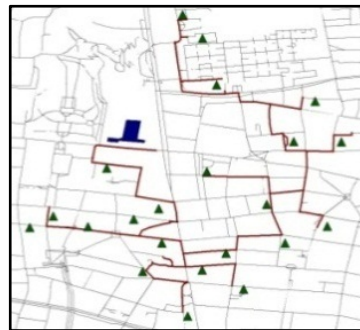

Flexible, dynamic and resource-efficient internetworking
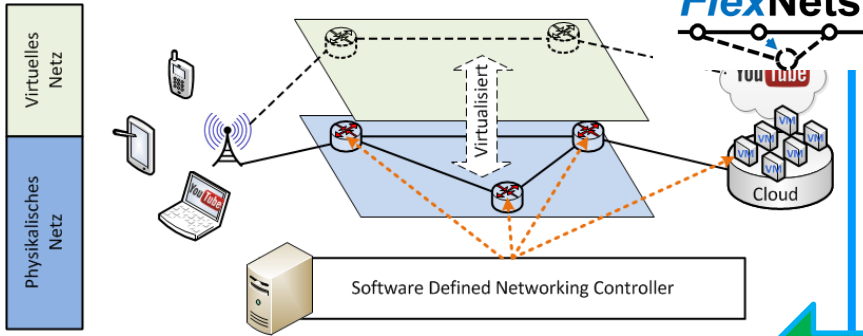
5G mobile networks for reliable, energy efficient and low latency machine-to-machine comunication

Device-to-Device Communication

5G

Smart Grid & Sensor Networks

Resource Management

Techno economic analysis & resilient network planning

Benefits

Cost

new services

OPEX
-service prov.
-energy

Open Access

FMC

CAPEX
-infrastruct.

Source: BOSCH

TUM LKN: Wolfgang Kellerer

Internet Research – what are the next big questions?

- Network softwarization: networks (fixed and wireless) become more flexible

- Programmable hardware platform become sustainable

- Promises to support diverse requirements in networking – all our wishes?

Research challenges

- Prototyping and measurements → towards reproducibility

- Join forces on platforms

- Do we need new protocols? Or is it fine to go with programming APIs