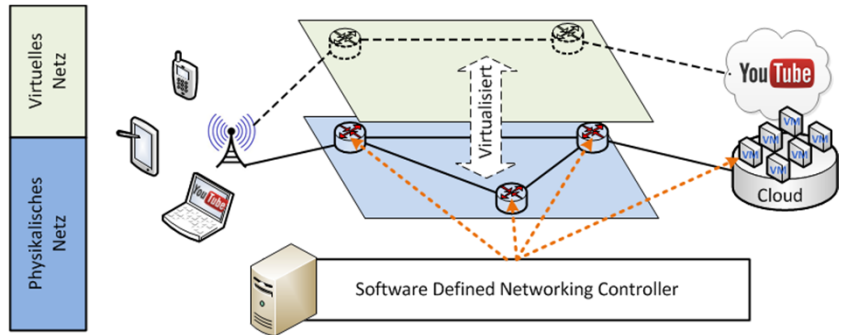


# Chair of Communication Networks (LKN)

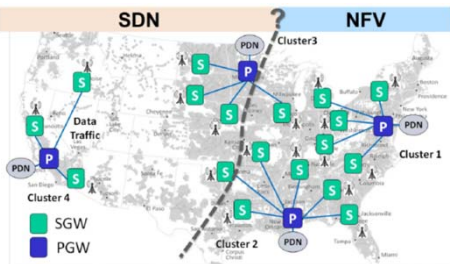
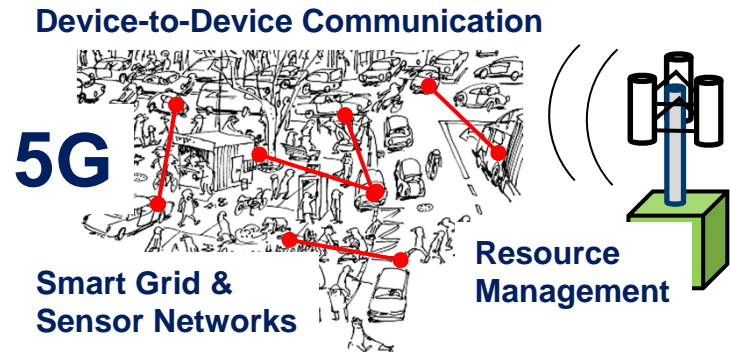


Prof. Dr. Wolfgang Kellerer

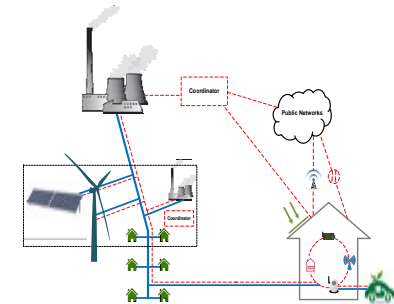
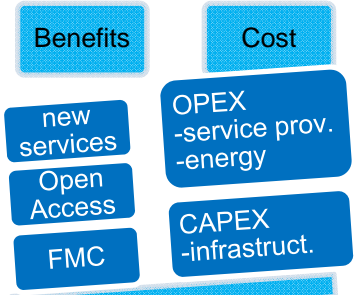
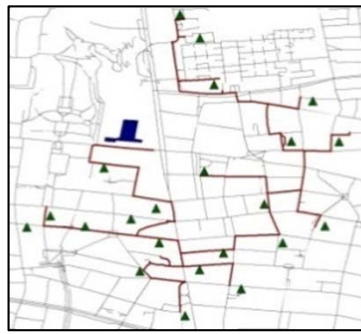
Flexible, dynamic and resource-efficient internetworking



5G mobile networks for reliable, energy efficient and low latency machine-to-machine communication



Techno economic analysis & resilient network planning

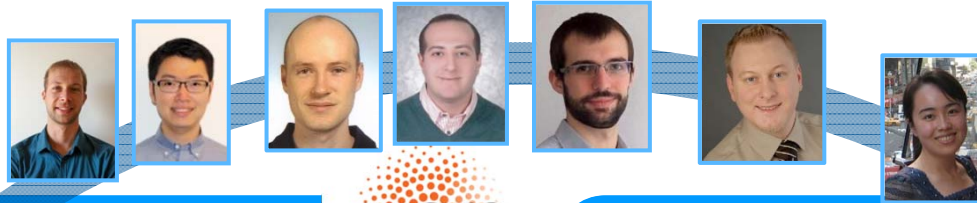


VIRTUWIND

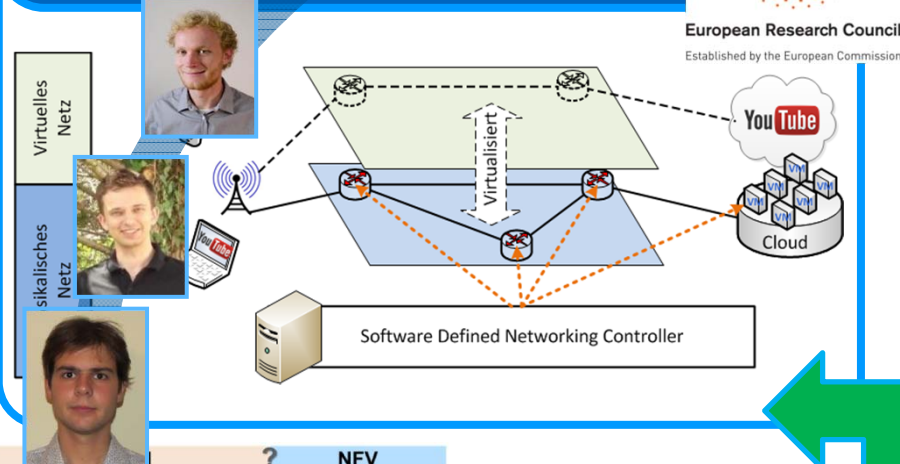


Source: BOSCH

# Research



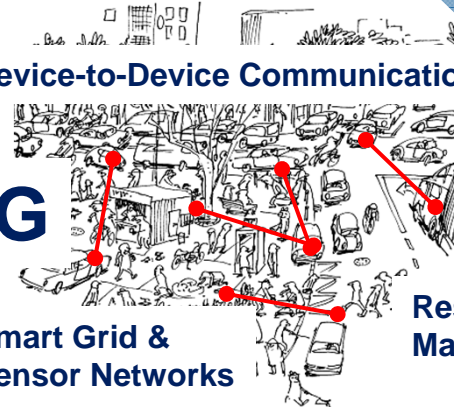
## Flexible, dynamic and resource-efficient internetworking



## 5G mobile networks for reliable, energy efficient and low latency machine-to-machine communication

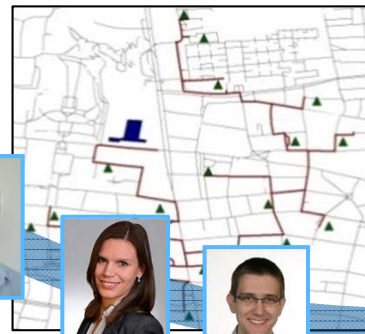
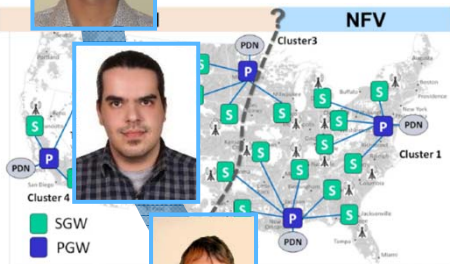
### Device-to-Device Communication

5G

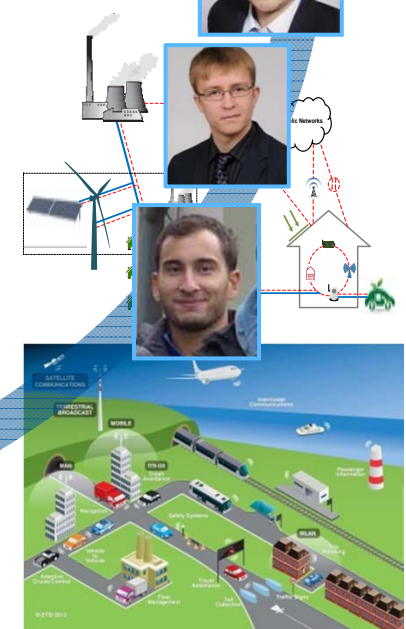


### Resource Management

## Techno economic analysis & resilient network planning



- | Benefits     | Cost                |
|--------------|---------------------|
| new services | OPEX -service prov. |
| Open Access  | -energy             |
| FMC          | CAPEX -infrastruct. |



VIRTU...



Source: BOSCH

# Flexible Application-to-Cloud Softwarized 5G Networks

*flexible and application-aware networking from mobile application to core network cloud based on SDN, NFV, Slicing, SDR, CPN*

