panel session

research directions beyond 5G and vertical applications for 5G

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slicing will keep us busy for a longer time

- we have seen similar problem and approaches before (ATM in the 90s)
  - difference is
    - dynamic wireless is in the loop
    - significantly heterogeneous objectives (rate, latency, reliability)
    - relation to the network neutrality discourse
the other interfaces will sit and wait

- LTE, LPWA, WiFi cannot be ignored
- integration of multiple interfaces in order to support specific use case
- virtualized connection that defines common control information for multiple interfaces
- integration with satellite communications
new unanticipated services

- eMBB, mMTC and URLLC and our best guesses for *eigenvalues* of the communication modes

- analogy with finance

- many new communication modes will be built by combining the three modes and different interfaces
other remarks

most of the data generated by the billions of the connected devices (e.g. mMTC) will be irrelevant

- integration of communication and data analytics

verifiably high reliability only based on historical data and machine learning

the nature of the traffic to be significantly affected by blockchain and smart contracts