



5G Berlin – an Open 5G Test-Field for early 5G Prototyping

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5G –Access, -Core & Xhaul Technology
to be tested in one Place

5G Berlin contributes in the global research arena being a place to have 5G related researchers join their effort, interact across disciplinary borders and test latest technologies, system components and applications in a real world setup.

Join 5G Research
www.5GBerlin.org
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OUR TESTBEDS



open5Gaccess

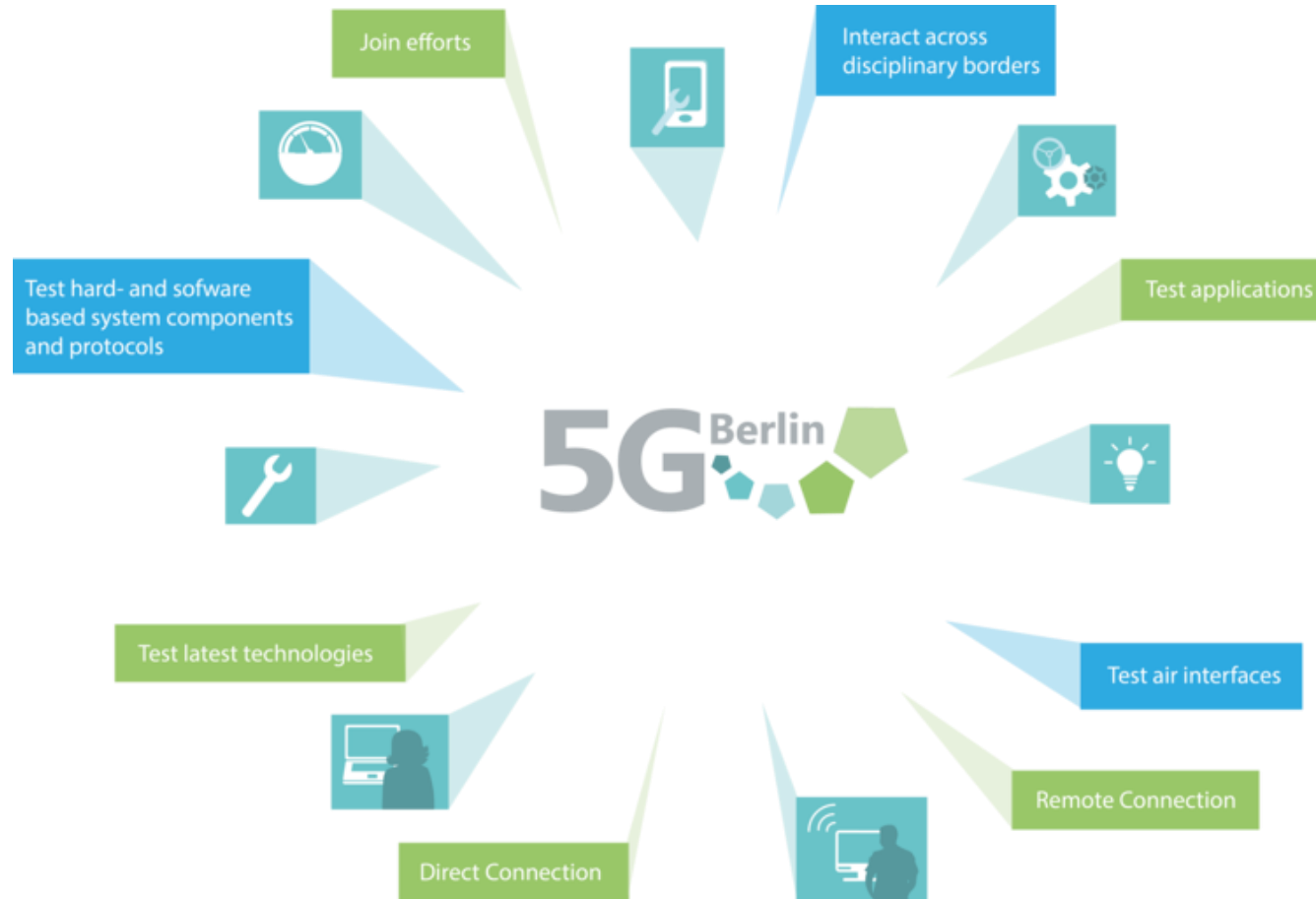


open5Gphototonics



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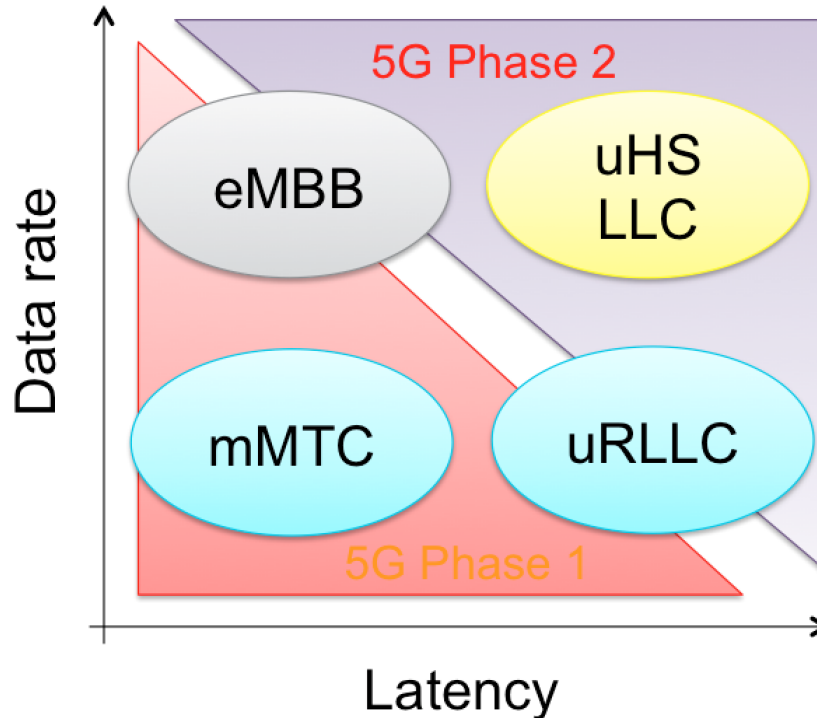
Selection of associated 5G projects



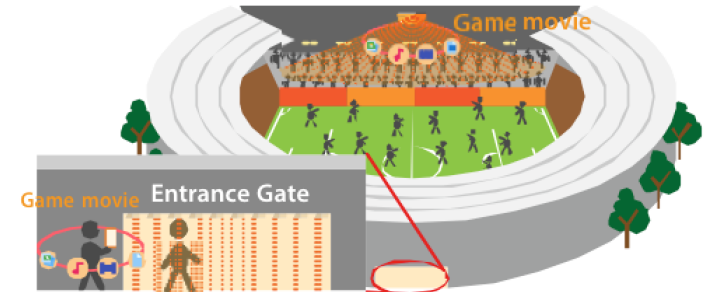
*Xhaul: the 5G Integrated
fronthaul/backhaul*



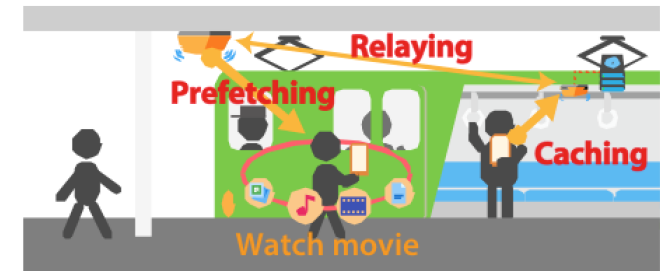
- Ultra High Speed & Low Latency Applications emerge in 5G Phase 2
- Location specific & aggregated data to be transferred instantaneously

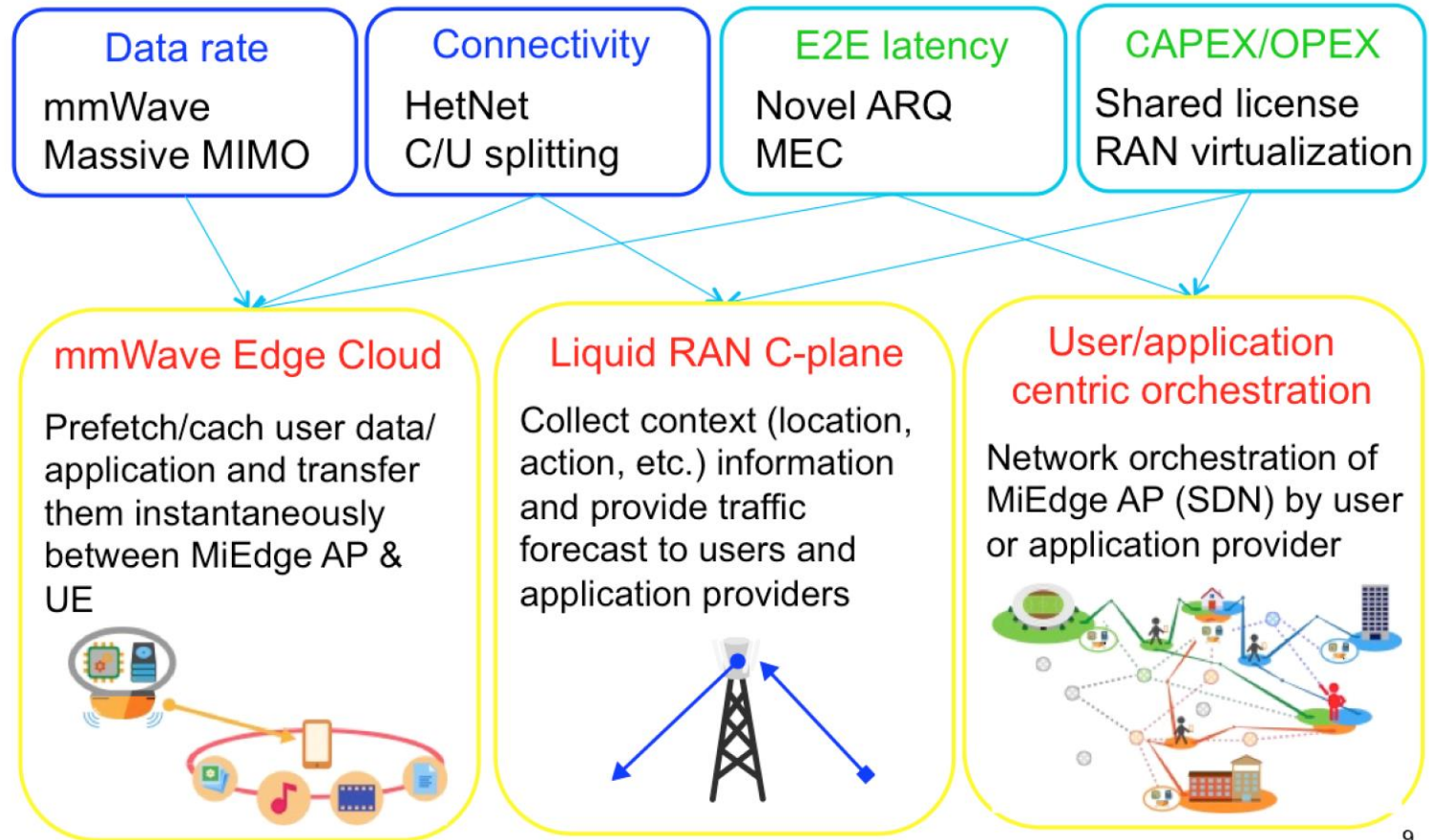


New applications in Olympic games

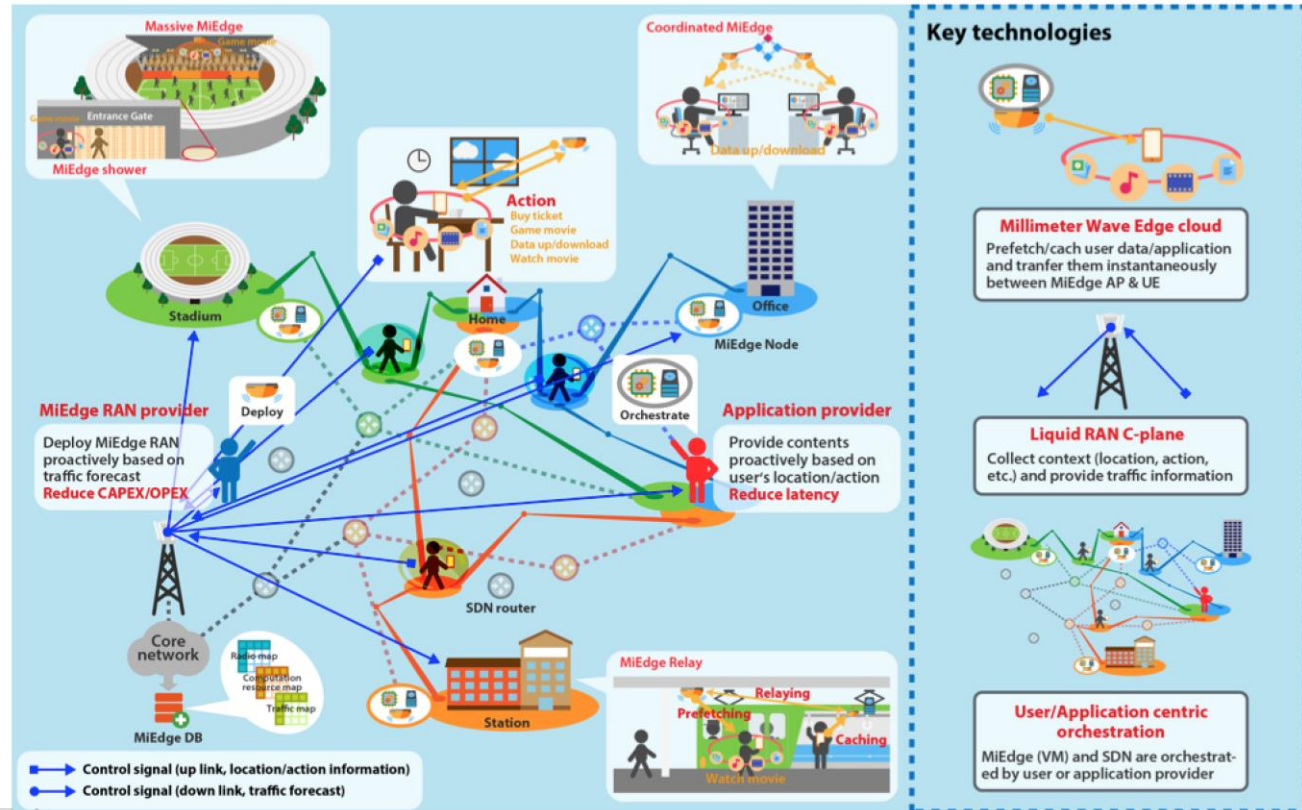


Entertainment in transportation

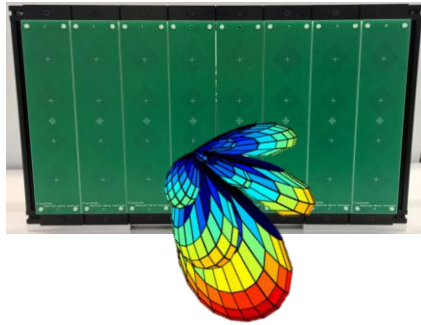




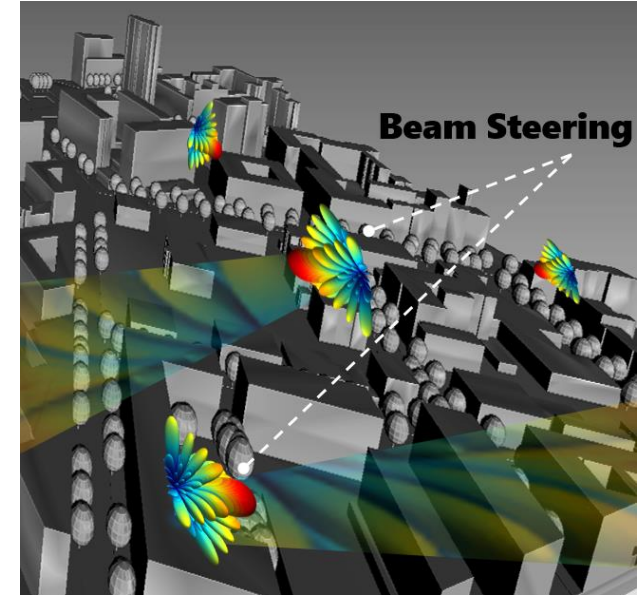
- Develop **5G (eco) system** to realize **uHSLLC** with low CAPEX/OPEX
- Deploy 5G-MiEdge in **5G Berlin Testbed & 2020 Tokyo Olympic game area**



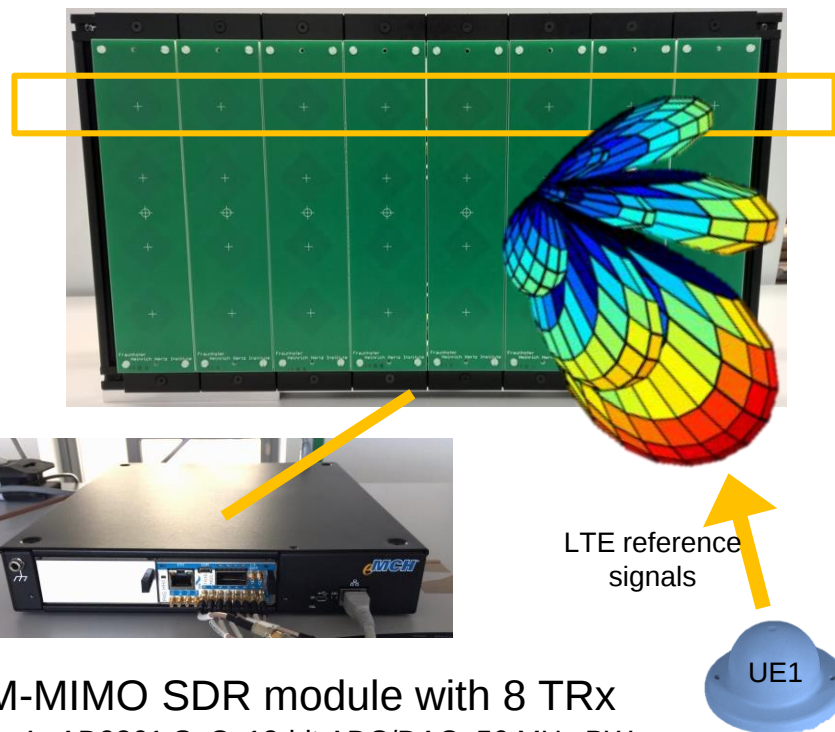
A new Level of Merging Simulations & Prototyping



- Signal processing on standard desktop or server platforms with 40 GbE SDR connectivity
- Different deployment scenarios
- Processing of Key Performance Indicators on Intel CPUs
- Comparison to 3GPP simulation results and use cases

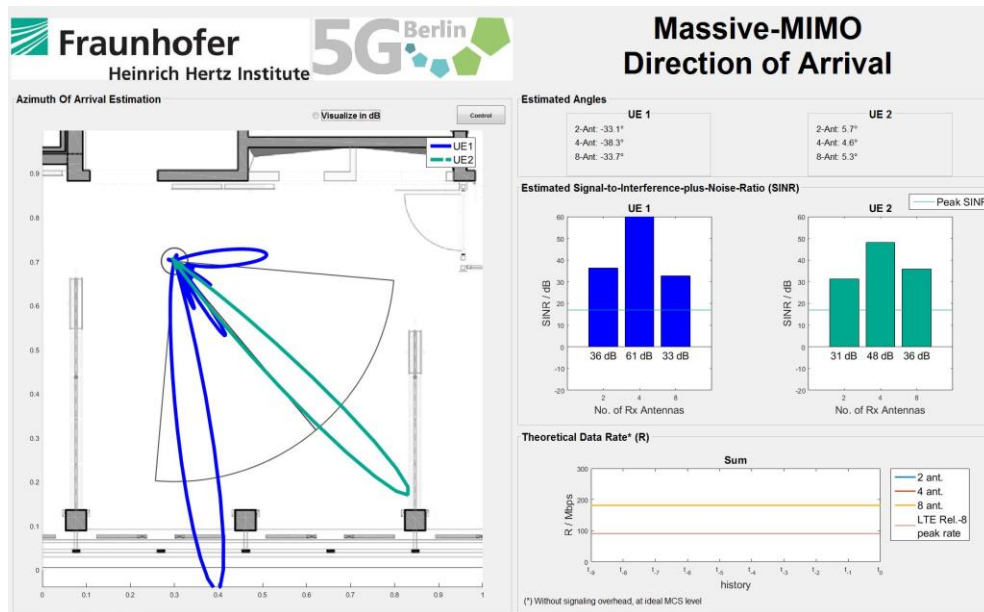


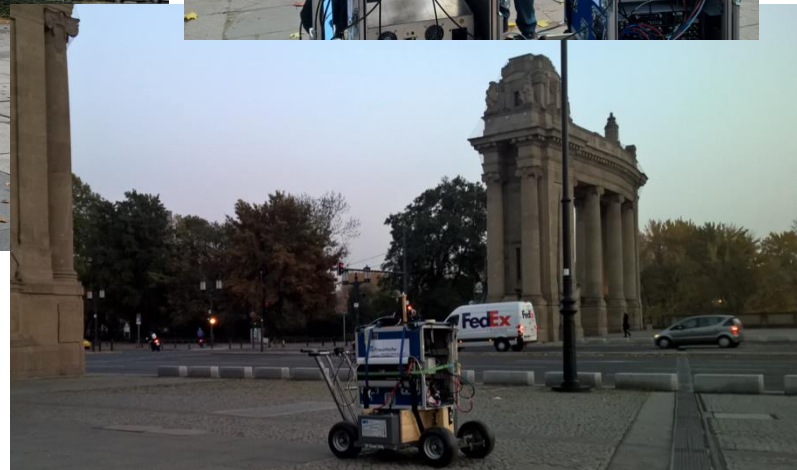
Vendor-independent prototype for
Massive-MIMO-in-the-loop
evaluations.



eNB with up to 64-Antenna Elements

- @ 3.5 GHz center frequency, 20 MHz FDD-LTE carrier
- Live user tracking of UE1 and UE2
- Calculation of downlink sum throughput







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