Labs
Wireless
为无线应用探索而生
华为无线应用场景实验室

XLabs Wireless
是这样一个地方
探索
共同研究
新技术
创新
共同开发
新应用
生态
共同开拓
新市场

创新的移动通信技术使能行业数字化

超越1Gbps

20Gbps
速度

实时世界

<5ms
延迟

随时随地在线

1百万
连接/km²

移动云存储

3D 扫描

应急通信

低时延机械控制

工业传感器

市政设施

健康穿戴设备

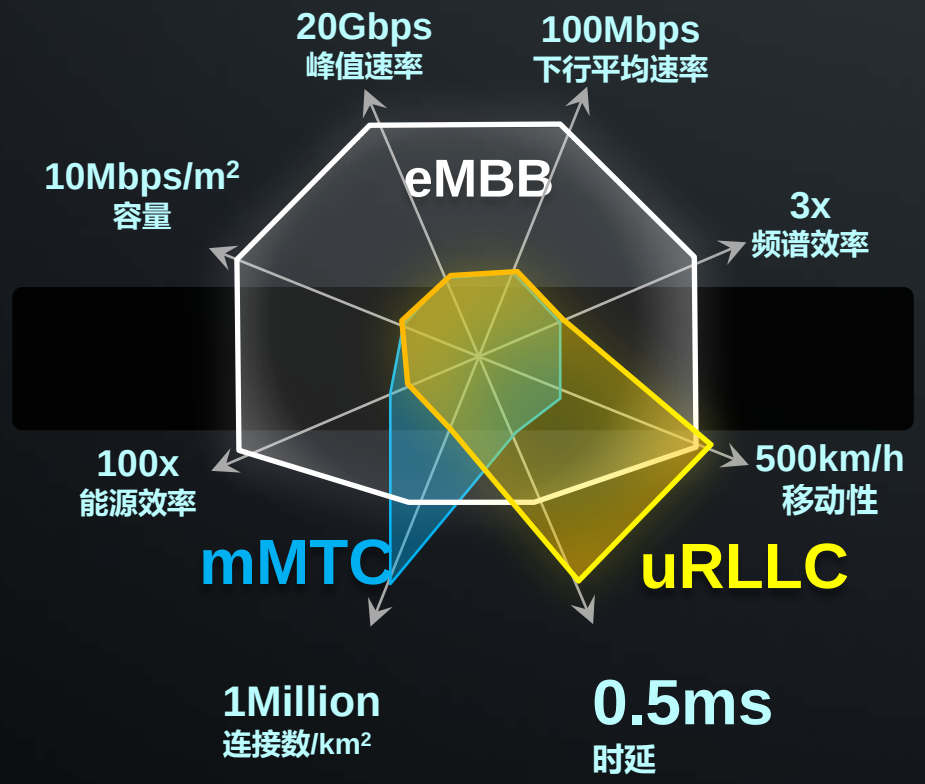
VR

语音识别

无人机

如何让各行业利用好
未来的网络能力

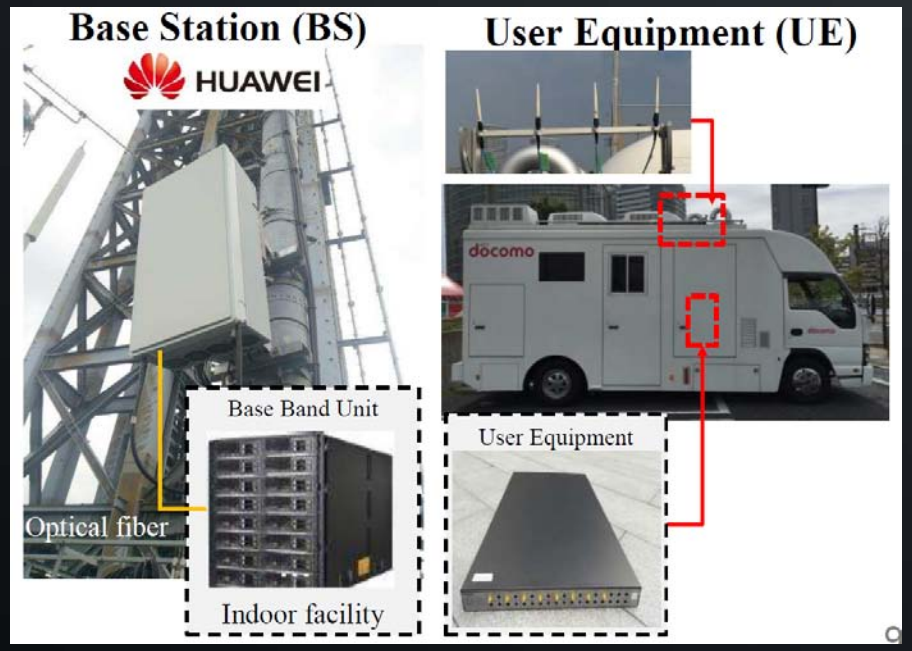
5G将重塑各行业竞争力

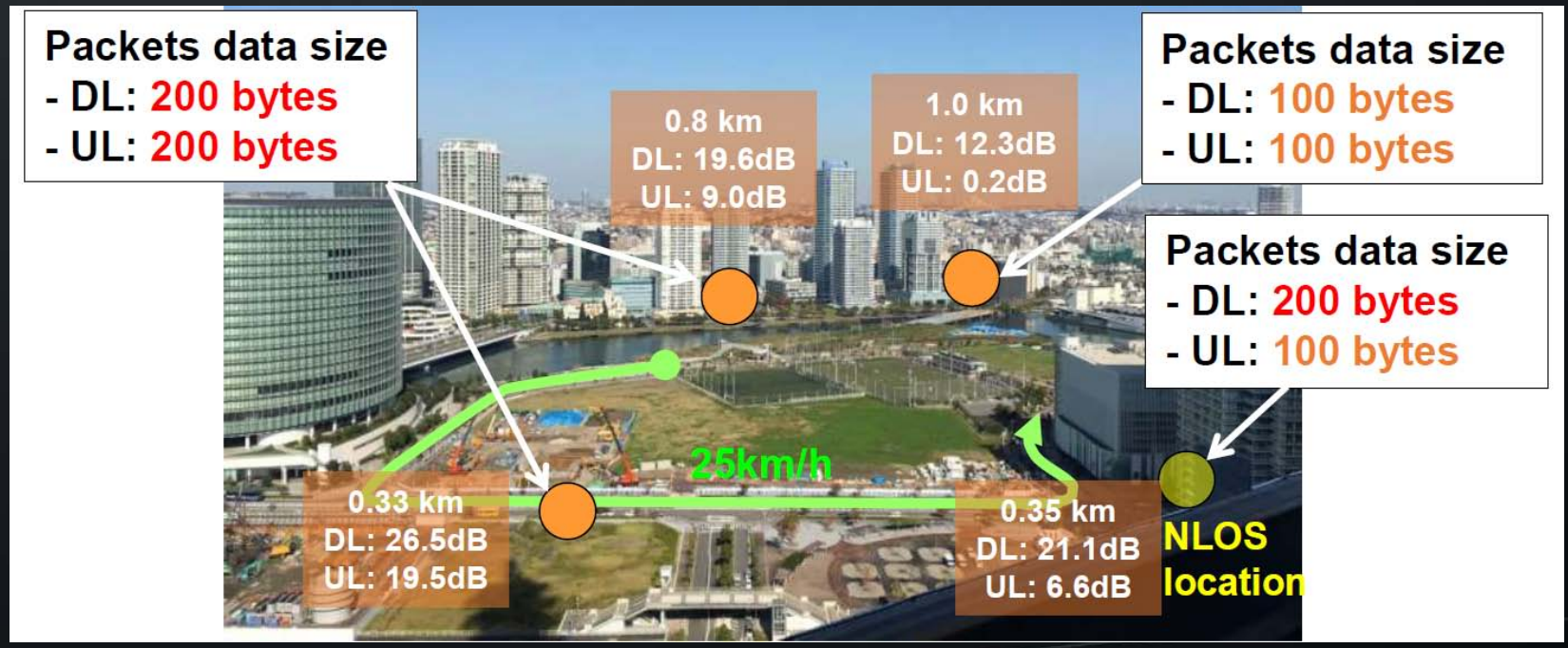


3GPP Standardization Targets for 5G NR

低速移动交通URLLC特性验证

- Achieved 99.999% of packet transmission success rate at more than 1 KM of distance and less than 1ms of transmission delay
- Achieved 99.999% of packet transmission success rate at less than 1ms of transmission delay and 25km/h driving



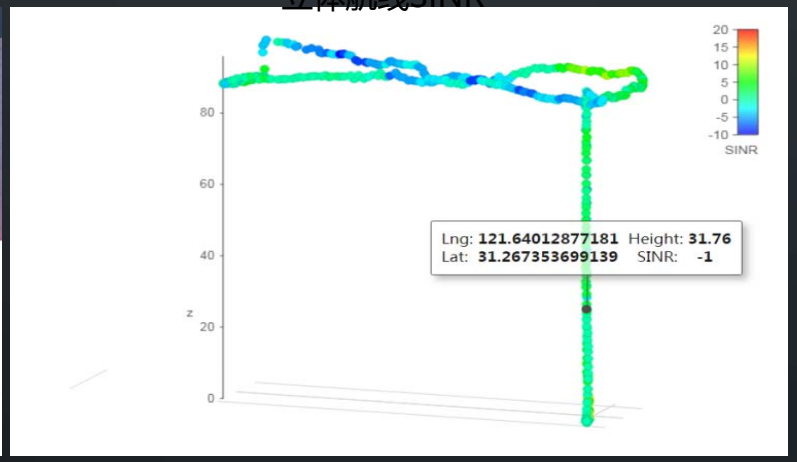


低空覆盖评估工具&平台

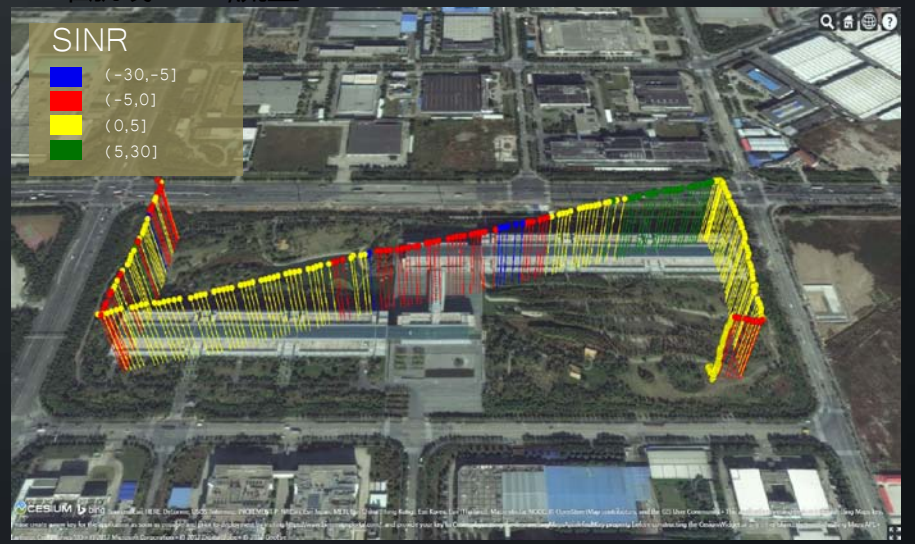
XLabs Wireless SpeedSky Home Realtime History Replay Data Import Help Login App Download

首页界面

立体航线SINR



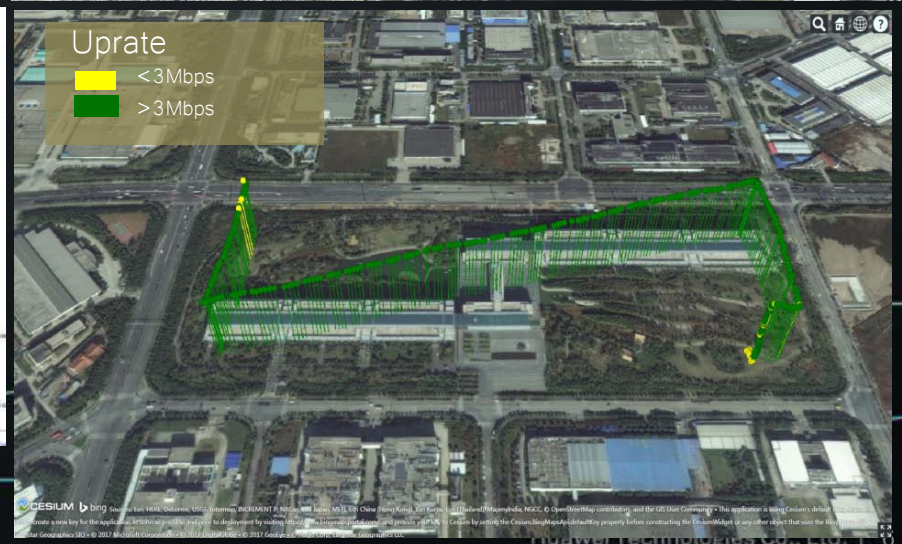
三维航线SINR,流量



高度-SINR/上行流量

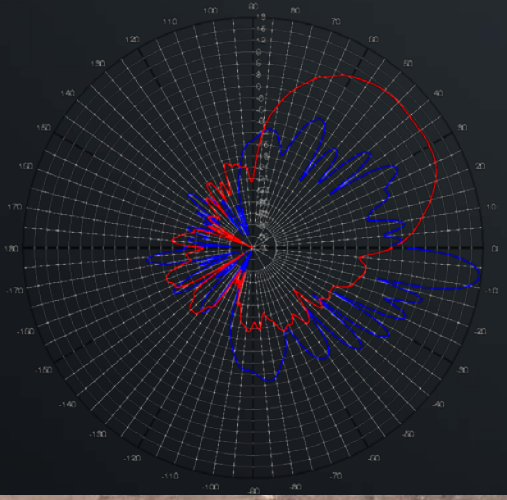
手机测试APP

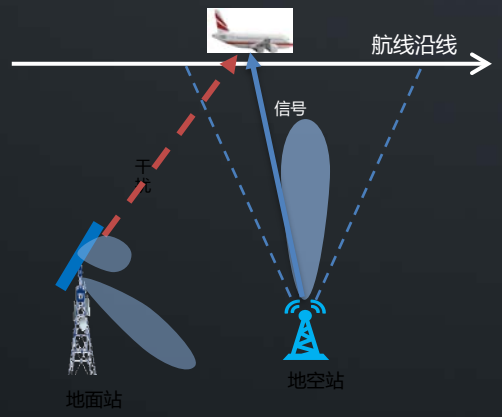
介绍文档



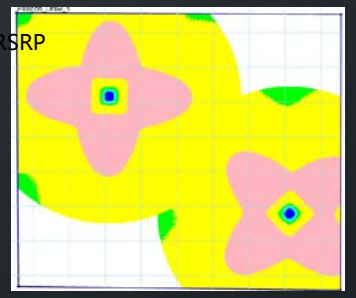
对空覆盖同频组网性能测试

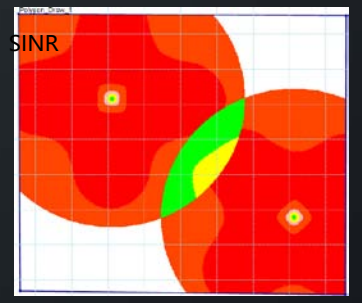
天线方向图



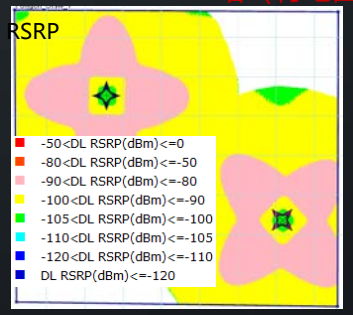


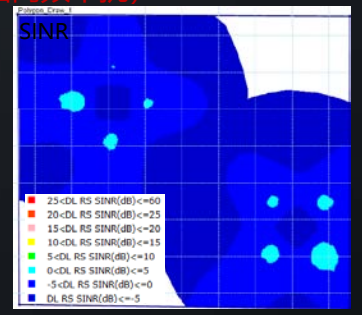
ATG站（无地面同频干扰）





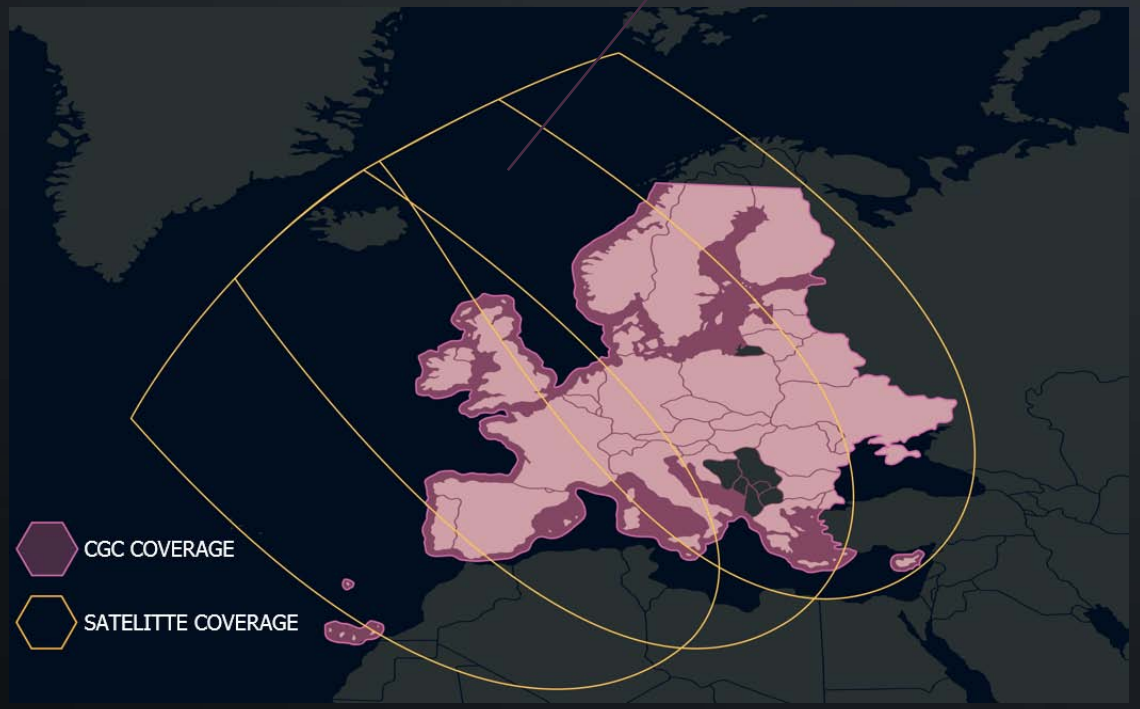
ATG站（有地面同频干扰）





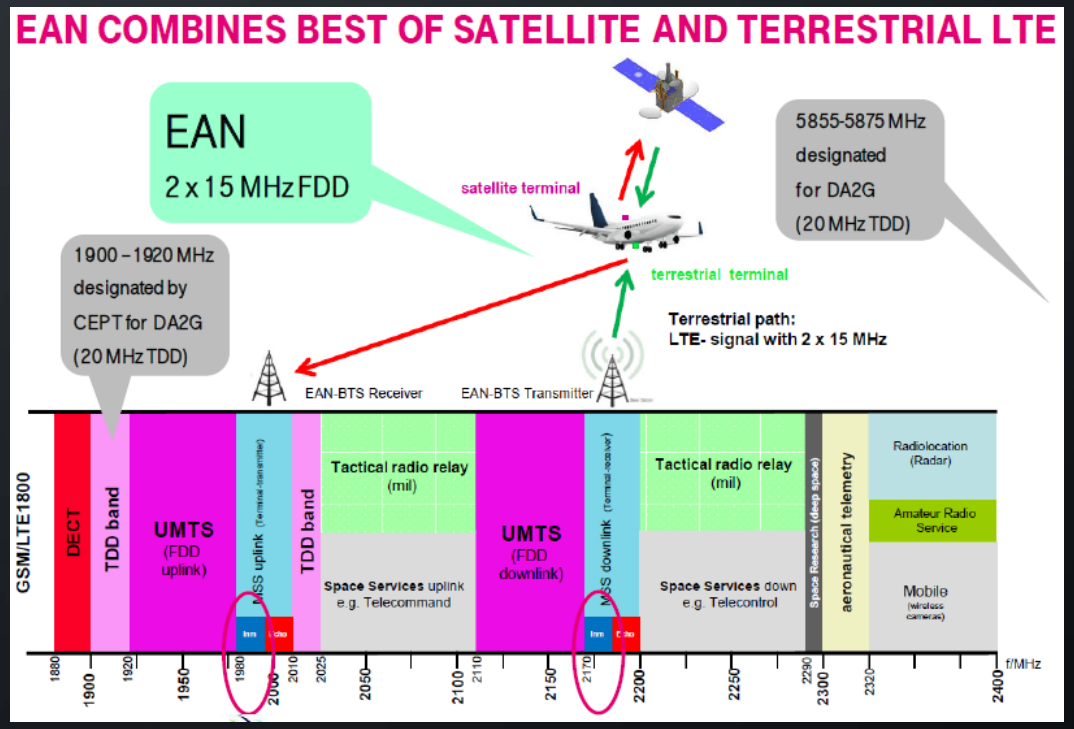
欧洲基于对空专用频谱构建EAN网络

首期部分区域覆盖，卫星补充



- 首期300个LTE基站, 最大小区覆盖半径为150km
- 业务能力:
  - 75Mbps/飞机，25Mbps/飞机@100km远
  - 时延<100ms;
  - 机内转WIFI,或转GSMOBA系统

欧洲EAN（EU Aerpspace Network）频谱



Uplink	Downlink
2,170 - 2,185 MHz	1,980 - 1,995 MHz

Thank you!

2017.11 MBBF 华为发布“数字天空”计划

- 提供空域立体覆盖网络解决方案
- 联合运营商完成30%区域空域覆盖
- 联合产业伙伴完成载人、物流等行业应用