拥抱5G时代，共建智慧连接世界

Embrace 5G Era for a Better Intelligent World

Kevin Xu | Head of Wireless MKT Operation, Huawei

全行业共同努力，加速全球5G商用进程

Industry Cooperation, Accelerating Global 5G Commercialization

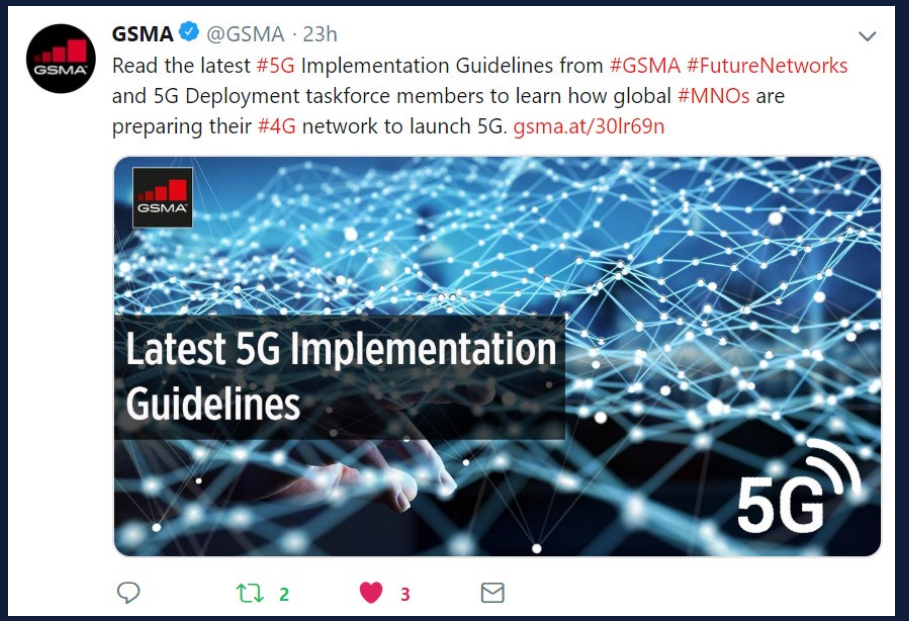
华为助力全球运营商实现大规模商用

Huawei 5G Pave the Way to Large Scale Commercialization

50 5G商用合同Commercial Contracts

GSMA发布5G实施指南，指导5G网络部署

GSMA released 5G Implementation Guidelines for 5G deployment



主流运营商和设备商参与，聚焦5G商用部署

Mainstream Operators and Equipment Vendors Participated

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以终为始，构建长期领先的5G网络

Begin with the End in Mind, Building a Long-term Leading 5G Network

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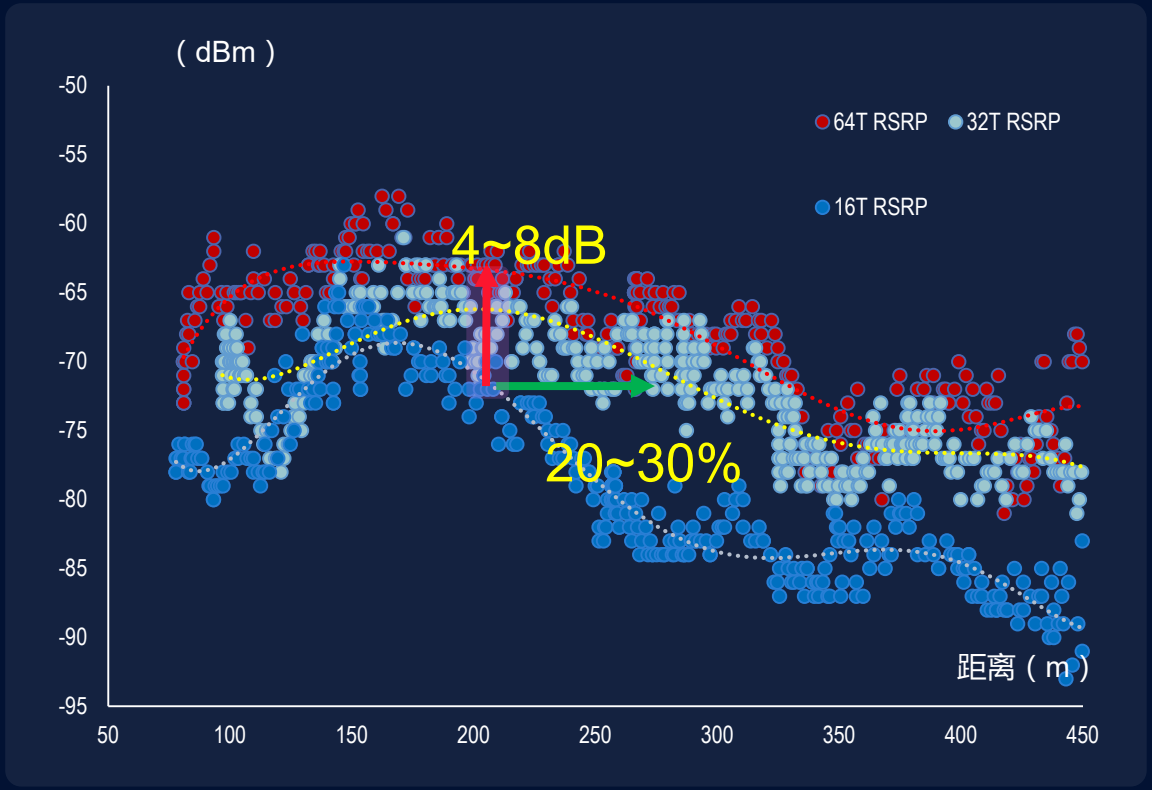
64T/32T M-MIMO是实现5G容量和覆盖的必选

64T/32T M-MIMO is Mandatory for 5G Capacity and Coverage

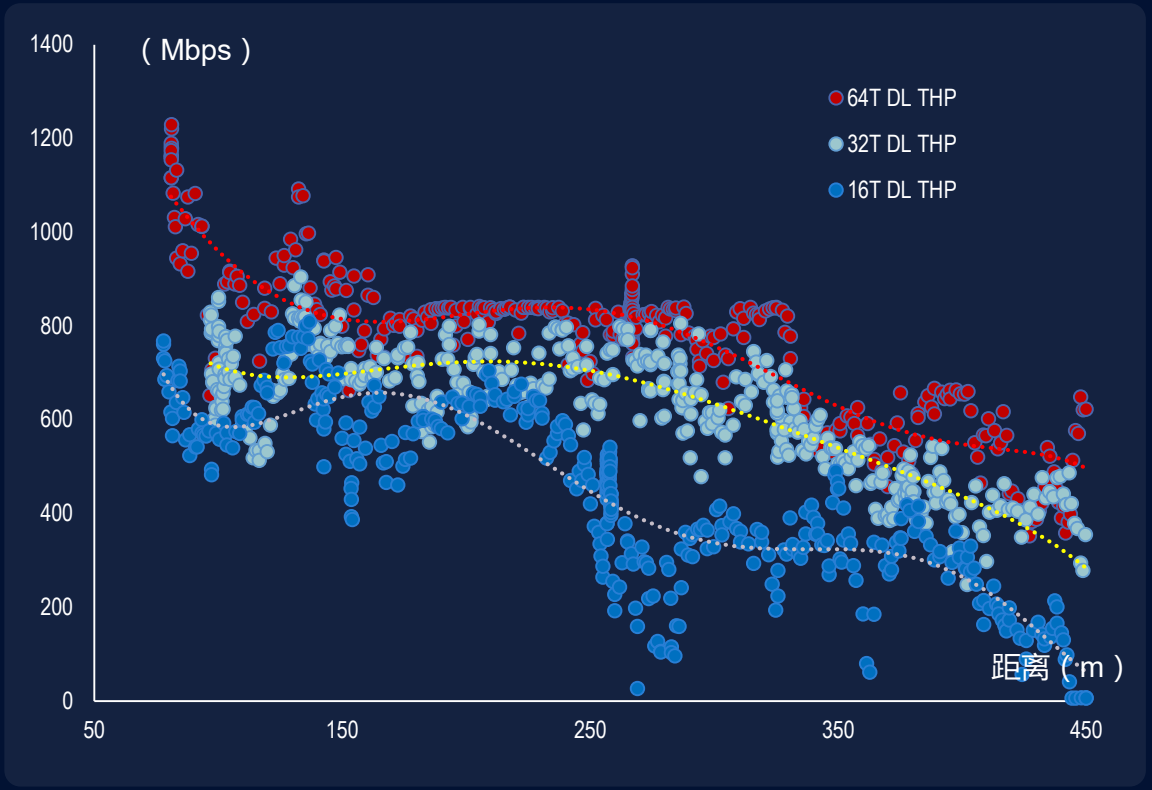
M-MIMO 64/32T提升5G小区覆盖半径20%~30%

M-MIMO 64/32T Increased 5G Cell Radius 20%~30%



M-MIMO 64/32T提升5G小区容量14%~36%

M-MIMO 64/32T Increased 5G Cell Capacity 14%~36%



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降低5G全流程综合运营成本

Reducing end-to-end costs for 5G networks

5G设备和工程规格优化
Optimized equipment & specifications

- Blade and module-based design reduces on-site O&M costs
- Key technologies reduce the number of new sites

网络和终端节能
Energy efficiency

- System design educes 5G site power consumption to 10%–20% below industry average
- PowerStar dynamically adjusts resources across different modes and bands to use 10%–15% less energy
- Device-network synergy saves energy through flexible bandwidth allocation for different services

网络全流程自动化运营
Automated E2E operations

- Full lifecycle automation: planning, construction, operation, and optimization
- Improves efficiency and service experience
- Shortens time to market from months to days

AI使能自动驾驶的5G网络：运维极简

AI Empowered Autonomous 5G: O&M Simplicity

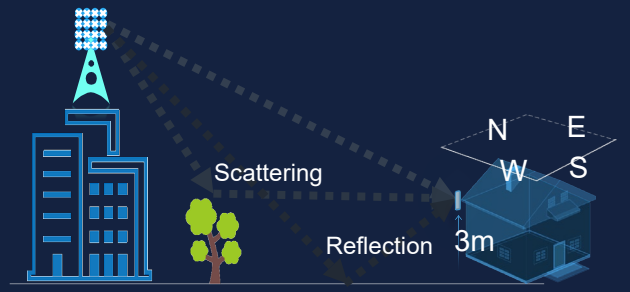
从第一天开始网络自动驾驶

Start Autonomous 5G from Day1

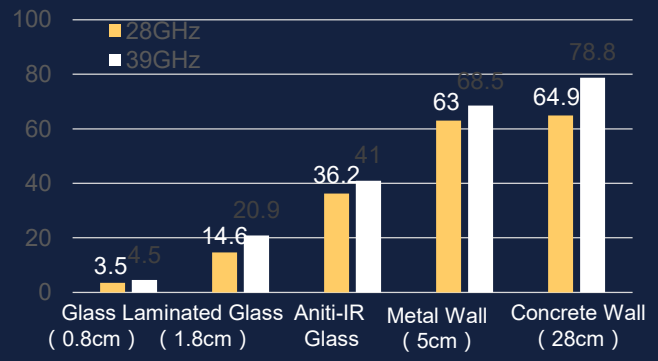
案例：AI使能高精度的5G站点规划

Case: AI empowering high-accuracy 5G site planning

5G Site规划 ：3D射线传播模型



材质对站点仿真的精准度影响大



基于人工智能技术的建筑物植被识别

基于深度神经网络的植被识别

Trial result：
树木识别查全率80.4%，查准率81.5%；
高度90%以上误差<5米；

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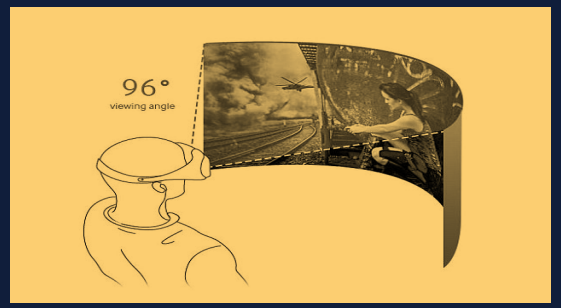
开放合作，联合探索未来

Openness and Cooperation, Jointly Exploring the Future

与高校和视频产业联盟，联合研究Cloud X业务体验

Joint research on Cloud X Service experience
with universities & industry alliances



联合发布Cloud VR PI (Presence Index)

VR PI

Cloud Vision
行业视频白皮书

华为&网易5G 云游戏联合实验室

Huawei & NetEase 5G Cloud Game Joint Lab

Cloud gMOS体验建模评估模型

gMOS

体验建模
白皮书下载

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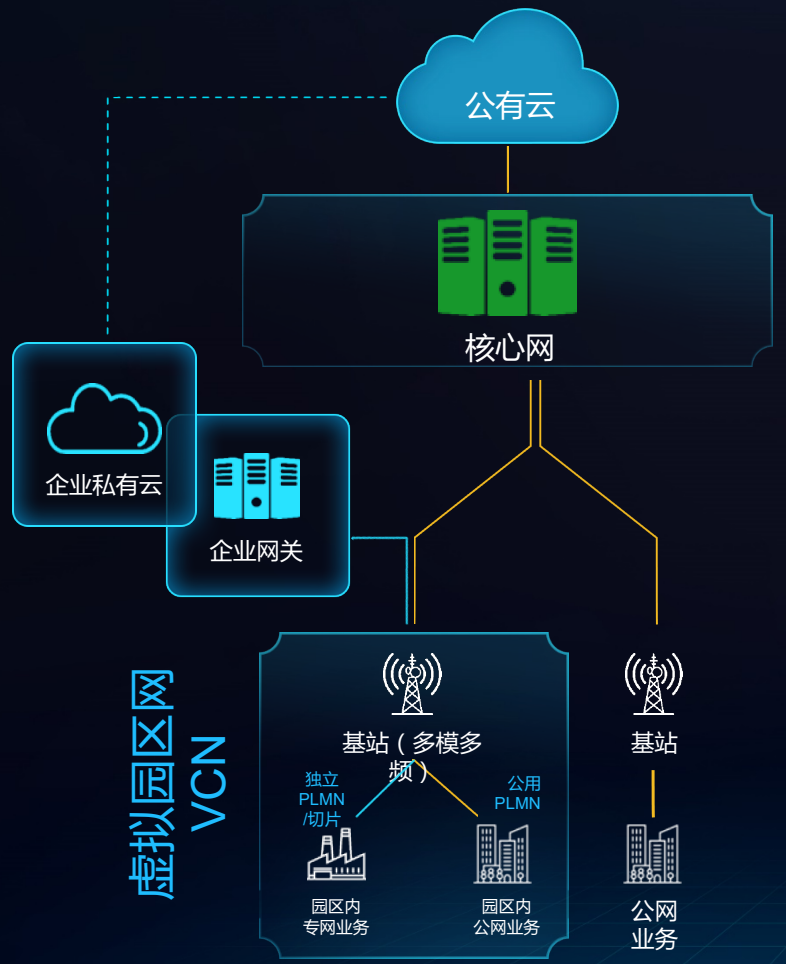
蜂窝虚拟园区网降低连接成本，提升企业数据安全

C-VCN Reduces Connection Costs and Improves Enterprise Data Security



云视觉应用大幅提升智能制造效率

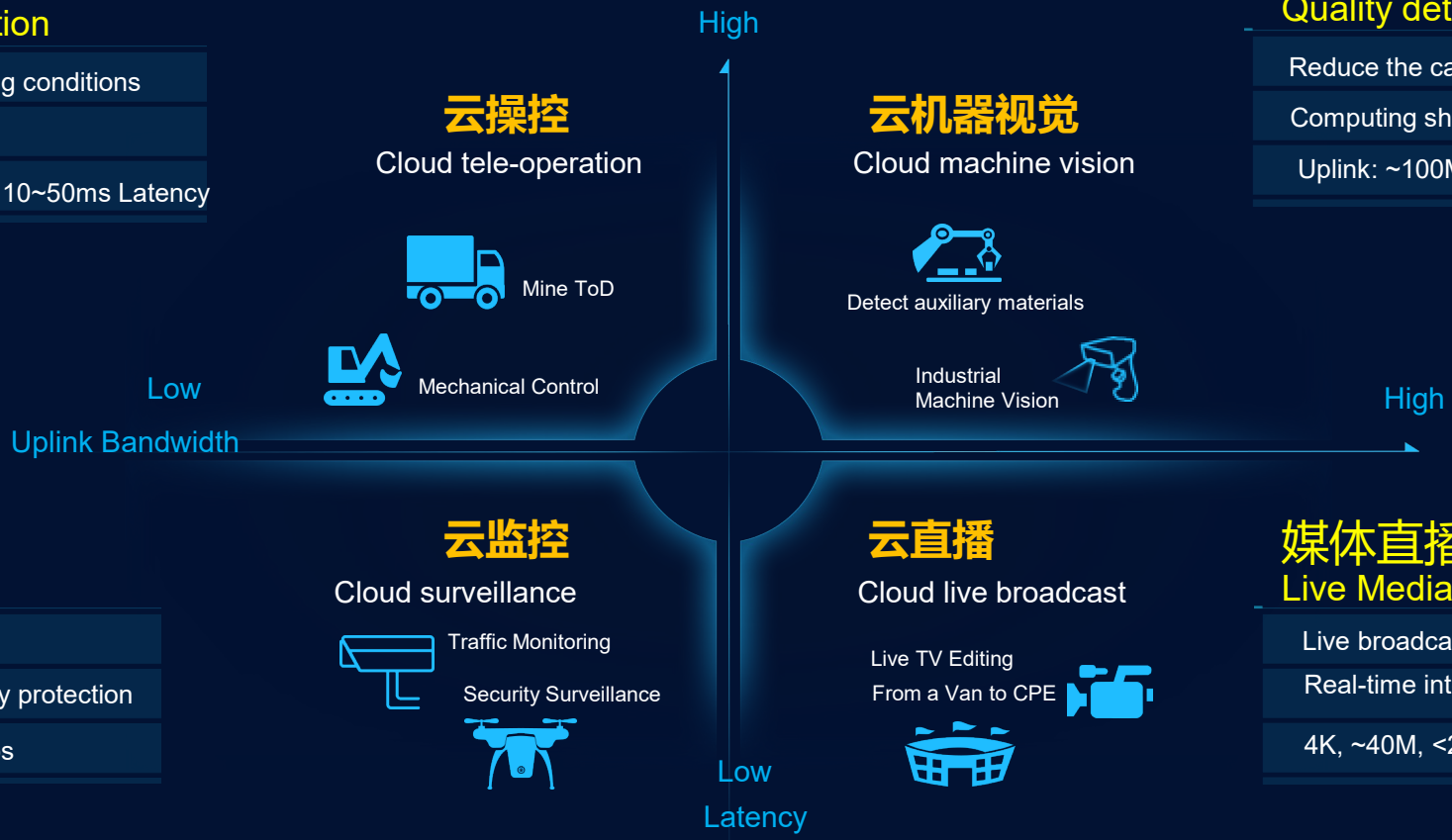
Cloud Vision Improves Intelligence Manufacturing Efficiency

设备操控
Equipment Operation

- Avoid dangerous working conditions
- Human skills extension
- 1080p, H.265,2~4Mbps, 10~50ms Latency

工业质检
Quality detection

- Reduce the cable damage
- Computing sharing in cloud
- Uplink: ~100M-1Gbps, <200ms Latency



安全巡检
Patrol surveillance

- On-demand inspection
- Comprehensive security protection
- 1080p, H.265, ~2-4Mbps

媒体直播
Live Media Editing

- Live broadcast anytime anywhere
- Real-time interaction with the tele studio
- 4K, ~40M, <2s Latency

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合作开放共赢

Openness and Cooperation

更好地满足人类文明的需求

Better satisfy the needs of human civilization

更高的效率让更多人享受到新技术带来的福祉

Let more people enjoy the benefits of new technologies with higher efficiency

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THANK YOU

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