MWC Barcelona 2024

26 - 29 February

Embracing 5.5G to Unleash Industry Dividends

Liu Kang

President, ICT Marketing & Solution Sales, Huawei



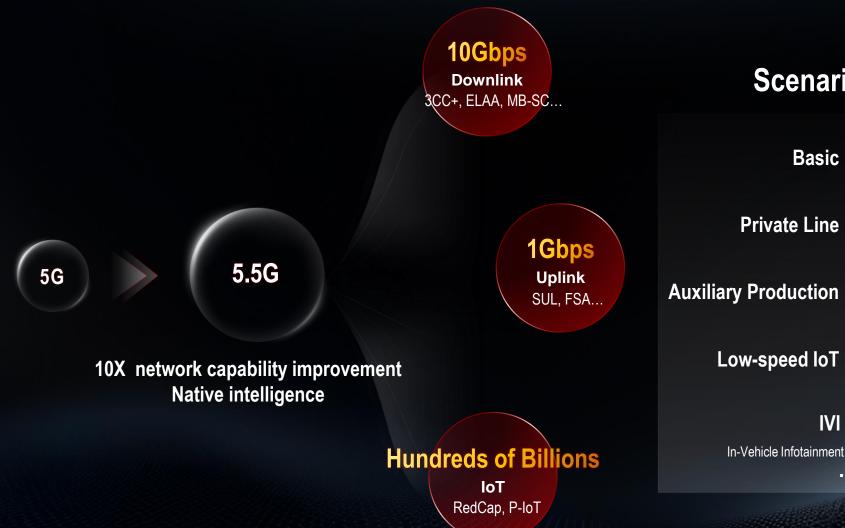
Innovation in technology driving socioeconomic progress



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5.5G enhanced network capabilities to unlock business opportunities



Scenario Expanding...

Basic > **Premium Connectivity**

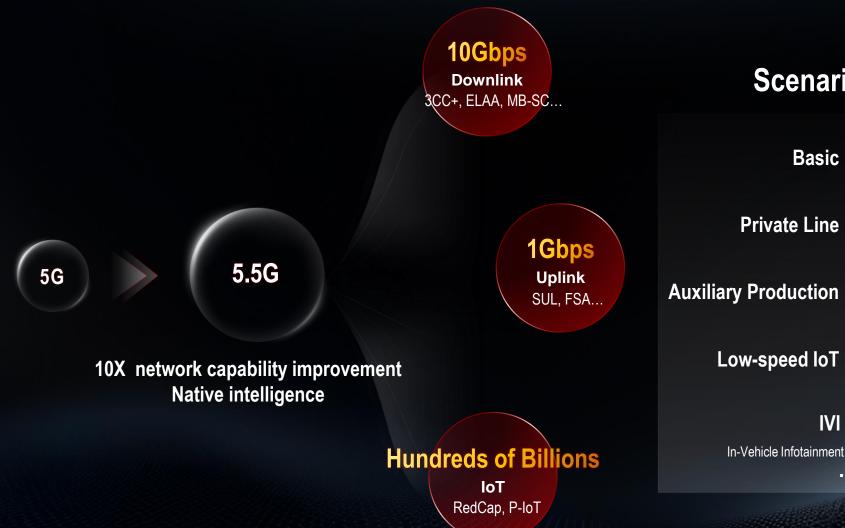
Private Line > ICT Services

Auxiliary Production > Core Production

Low-speed IoT > Full-scenario IoT

|V| > V2X

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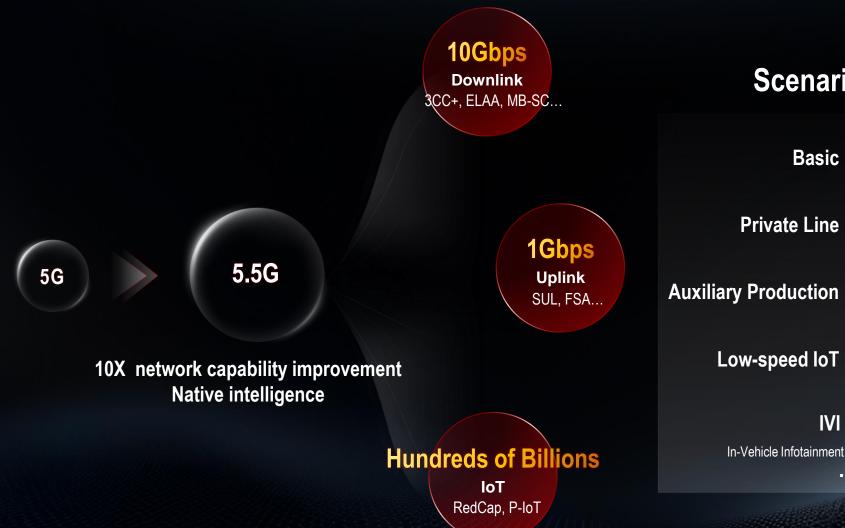
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5.5G FWA unleashing various scenarios & business value

5G FWA 1st wave

50%+ MNOs Up to 300Mbps

< 20ms, 99.99%

Deterministic Experience (SUL, QoS, FSA, HPUE,...)

New Services

5.5**G FWA Pro** (High speed)







Operator D

+15% ARPU

New Applications

5.5G **FWA Biz** (High Reliability)









Public transportation

SME TTM

Month → Day Service Launch time

New Scenarios

5.5G **FWA Lite** (Cost Effective) 4G -> 5G FWA Migration:

- CPE Price : RedCap ≈ 4G (\$60)
- Speed requirement per house* :100Mbps

Efficiency Improvement

-50%

Speed VS 4G WTTx Power Consumption

VS 5G CPE

*Assumption: 1 TVs & 3~4 smartphone & 2~3 pad/PC, per House

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5.5G 1+X bringing converged ICT services for enterprise

5G private line

Guaranteed ~50Mbps

worldwide launched(2020~2023)

30+
countries

350K+

lines

SME

CCTV

Live Streaming







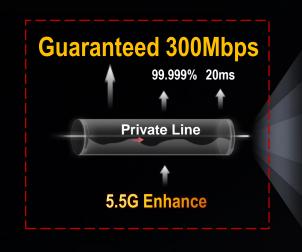
Internet access

Data backhaul

Live Streaming

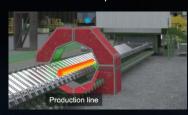
Faster TTM, Lower Cost comparing to Fixed connection

5.5G Enables "X" Capabilities for Enterprise Digitalization





Defects Inspection





PLC Remote Control

Remote Medical

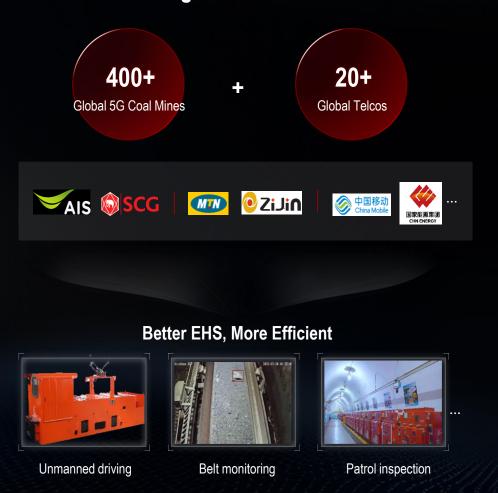
Latency < 20ms

Latency < 15ms

Bandwidth >616Mbps

5.5G private network expanding into core production processes

5G accelerates digital transformation of coal mines



New 5.5G-powered production tools

5G Remote Control: Independent Image Segmentation with Blind Spots

Limited uplink(200Mbps) and limited number of video backhaul channels







5.5G remote control: intelligent splicing for immersive operation



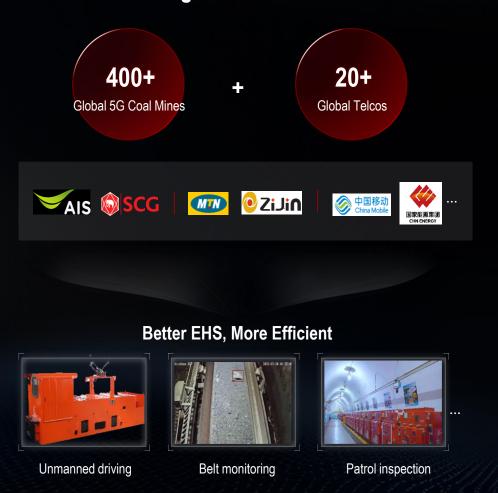
5.5G Video backhaul from 100+ cameras

1.2Gbps Super uplink

Full, clear view of operations

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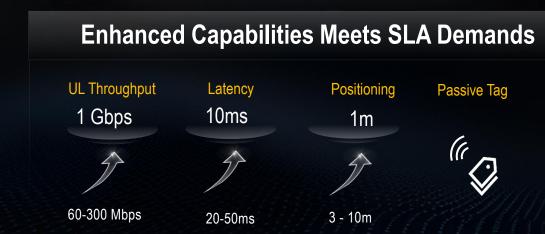
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5.5G IoT towards fully connected 100 billion connections



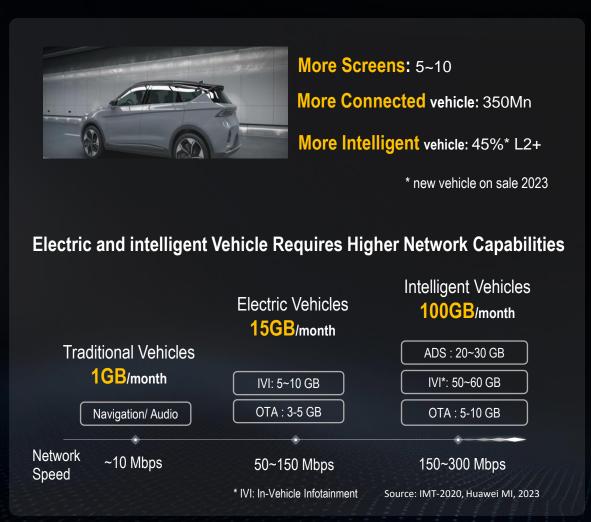




Source: Intelligent World 2030, Huawei

5.5G V2X enabling highly reliable smart transportation

5G Boosts In-Vehicle Traffic

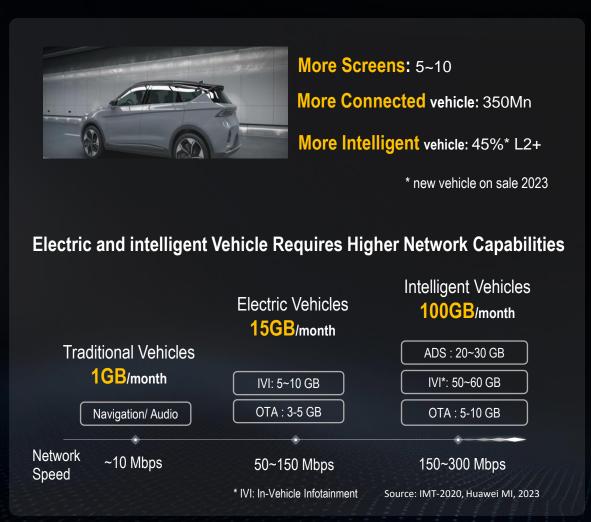


5.5G Enabling Intelligent Vehicle-road Synergy



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5.5G Enabling Intelligent Vehicle-road Synergy



Accelerating the positive 5.5G business cycle

Premium Connectivity

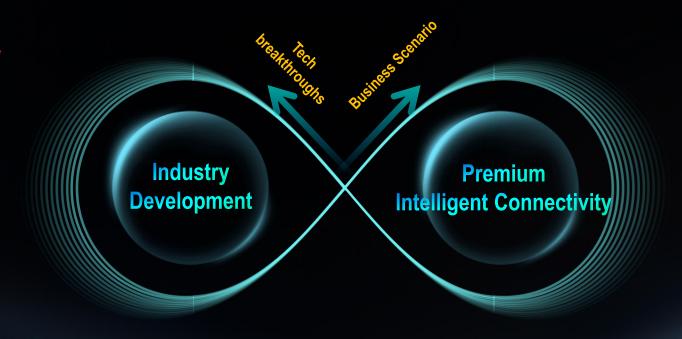
ICT Services

Core Production

Full-scenario IoT

V2X

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10Gbps downlink

Gbps uplink

100 billion IoT connections

Native Al

...

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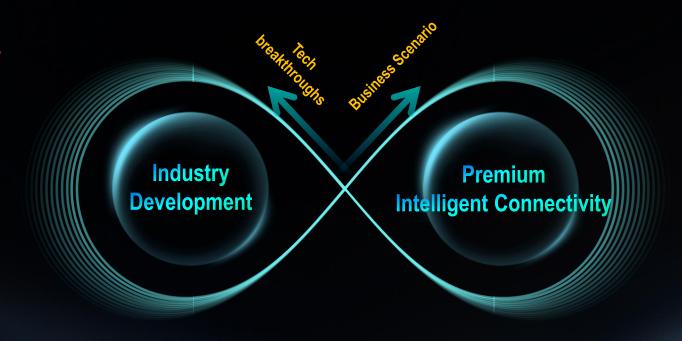
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