



Kuala Lumpur 24-26 Sept 2019

Session 6: loT in the 5G Era



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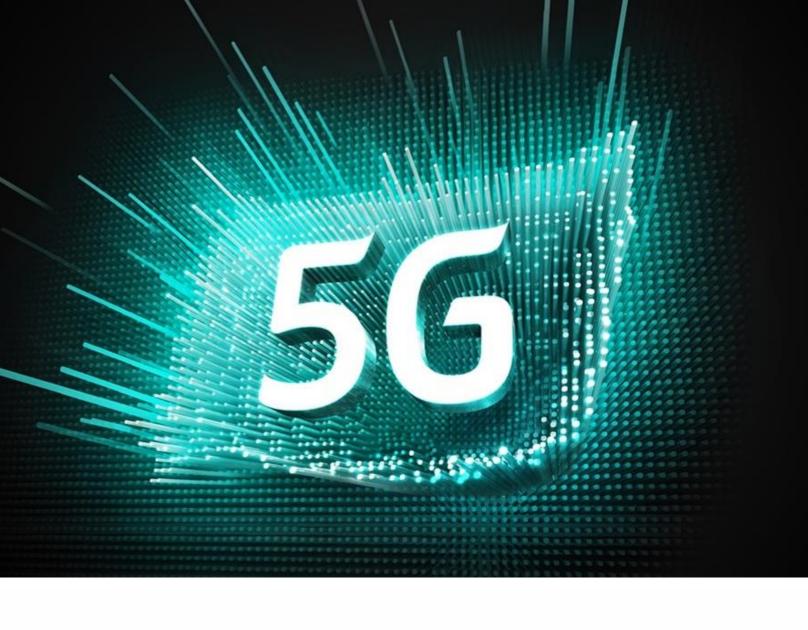
Session 6: Industrial IoT with 5G

Sohee ShinSenior Vice President,
Global Business Group
KT

KT, Bringing 5G Into a Reality

IoT Use case in 5G

26th September, 2019 | Sohee Shin, KT









01 | 5G as Driver of Industry 4.0

5G will play pivotal role across all industries and serve its role as General Purpose Technology





"The impacts of the ICT revolution are now palpable in all countries, and are projected to be economically and socially revolutionary in the coming years as technology penetrates and fosters fundamental change in all sectors and dimensions of life."

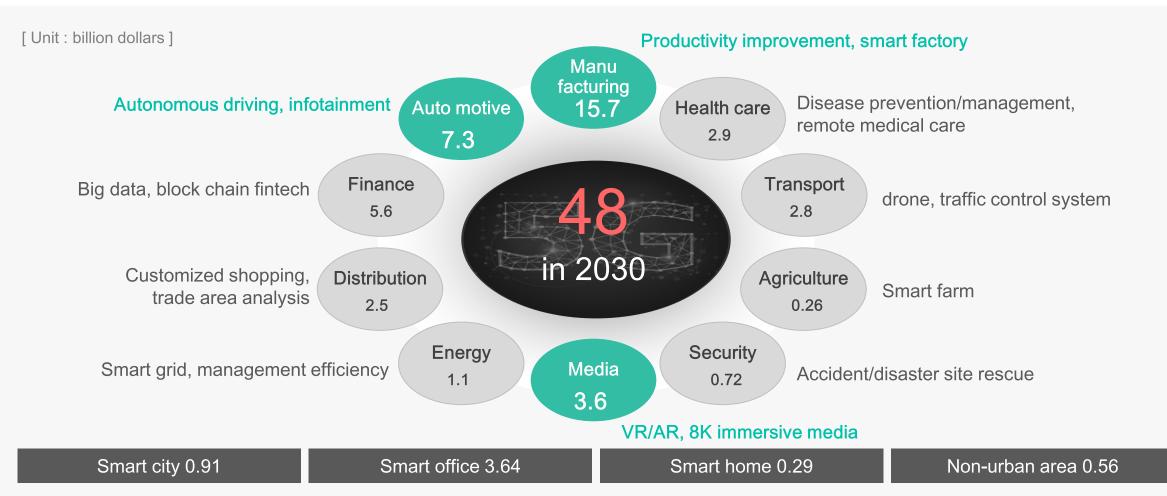


'The ICT revolution, world economic growth, and policy issues' (2016)



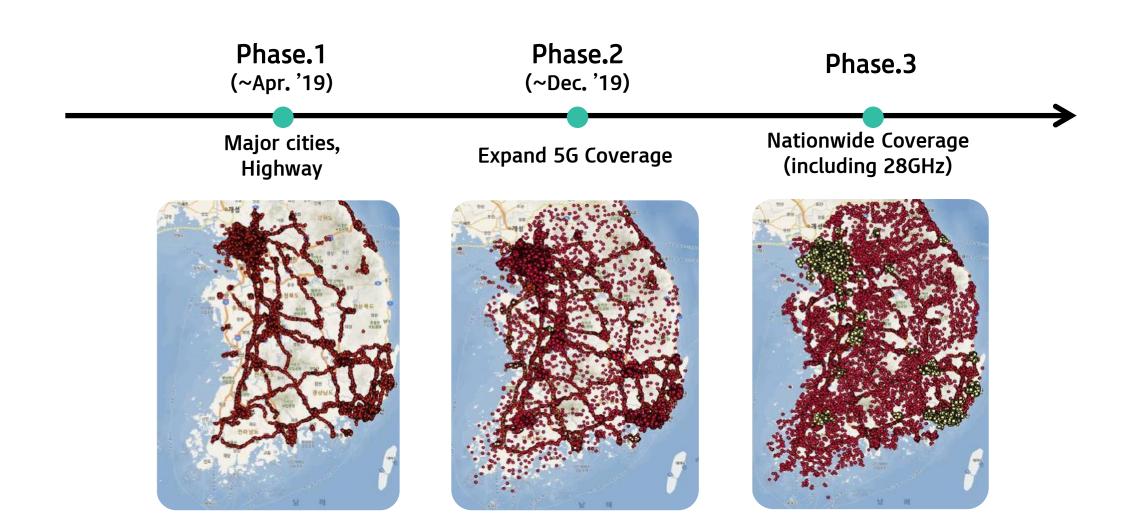
01 | 5G Economic Effect in Korea

5G will create economic value of 48 billion dollars across all industrial areas in 2030 in Korea

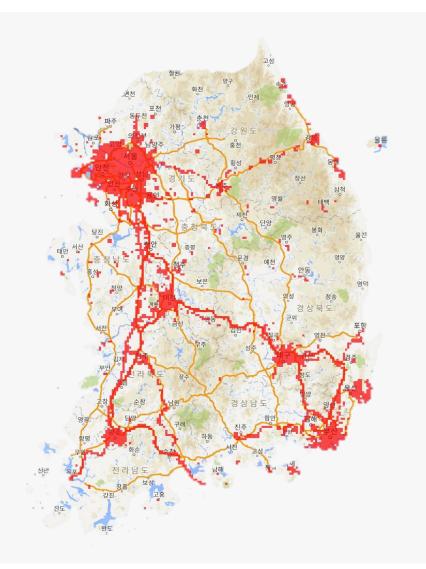




02 | 5G Network Deployment



02 | 5G Nationwide Footprint





62,521 BaseStations installed and in operation



6 Major cities & large parts of 85 cities



Gyeongbu · Honam Line highways & 47 Service areas



KTX · SRT Express railways



6 Major airports



70 Key Shopping malls &
Department stores



464 Eco partner sites

02 | 5G Peak Data Rate in commercial network



0.9_{Gbps}

■ CA Band: B3+B3+B8+B1

CA Bandwidth: 50 MHz

FDD







1.6Gbps

■ Frequency band : 3.5GHz (n78)

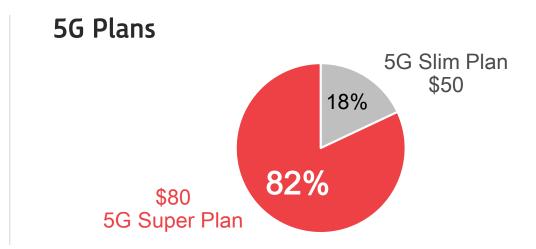
■ Bandwidth: 100 MHz

■ TDD ratio : 4(DL) : 1(UL)

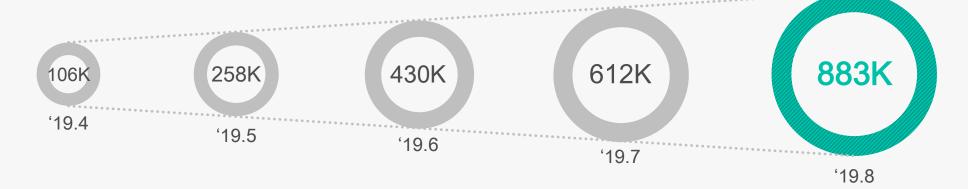
03 KT Current Status of 5G

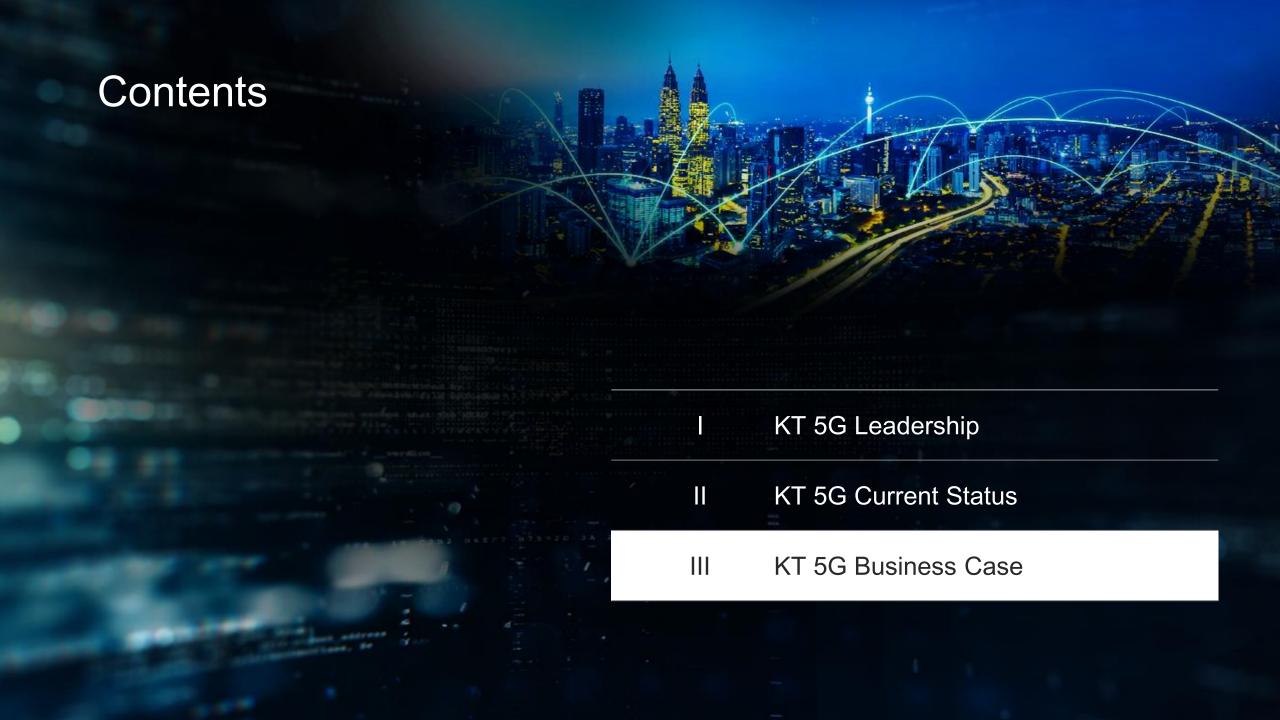






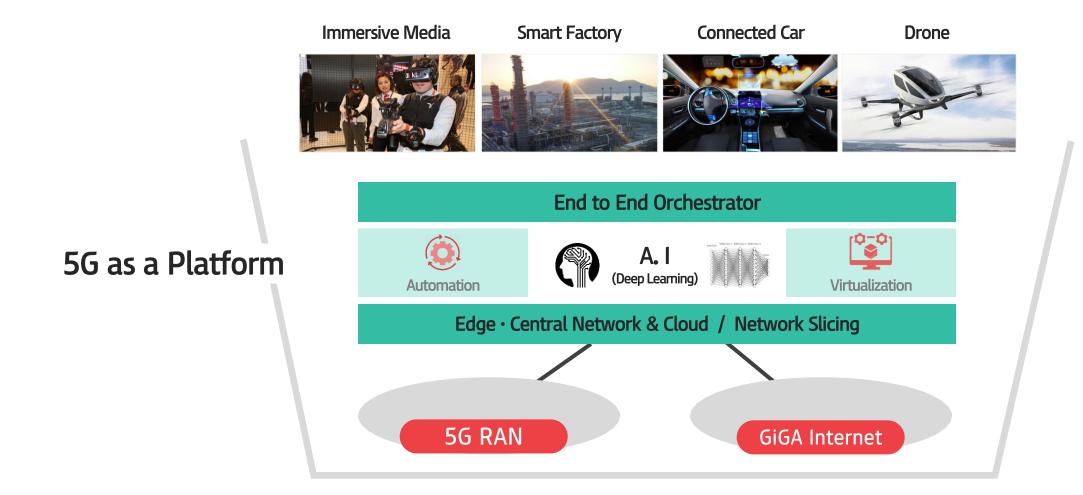
No. of 5G Subscribers





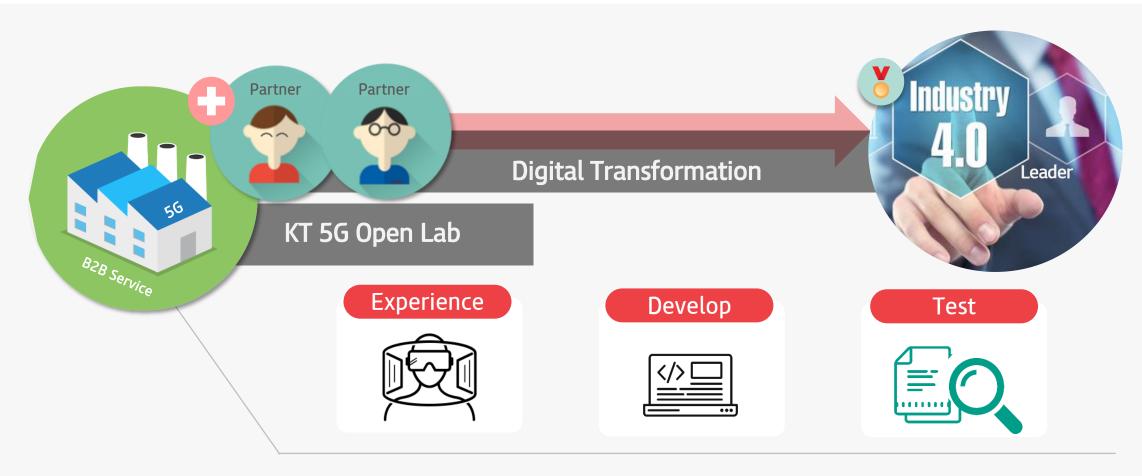
03 | 5G as a Platform

KT 5G Network will evolve as an "Integrated Platform", which is basis of 5G Open Eco System

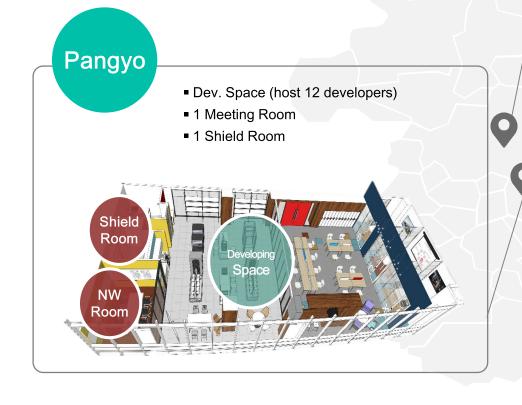


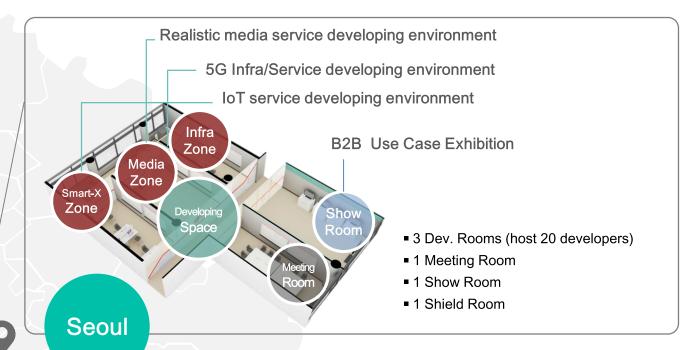
03 | 5G Open Lab

5G Open Lab functions as core hub where cross-industry partners work together to accelerate commercial availability

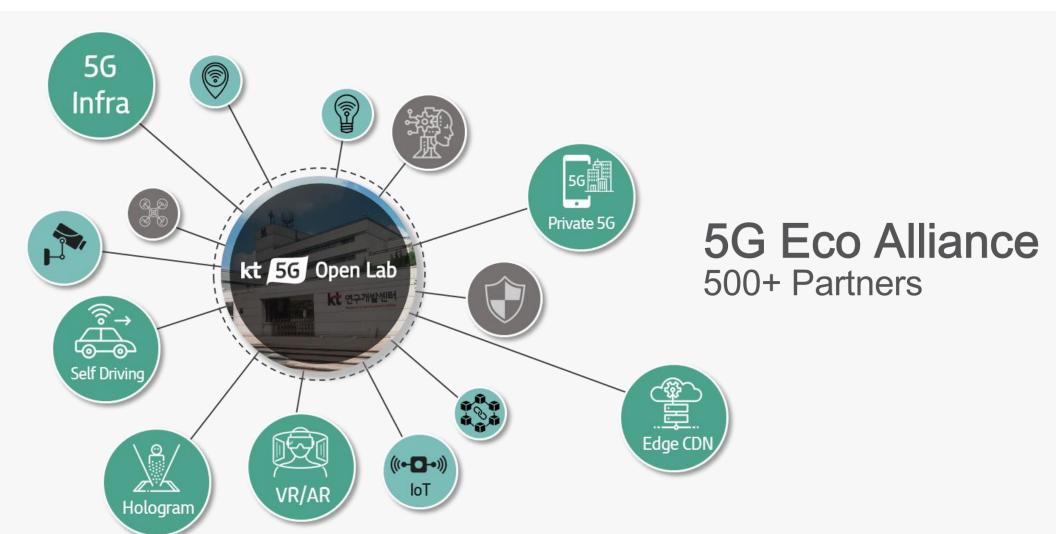


03 | Facilities of 5G Open Lab





03 | 5G Open Collaboration

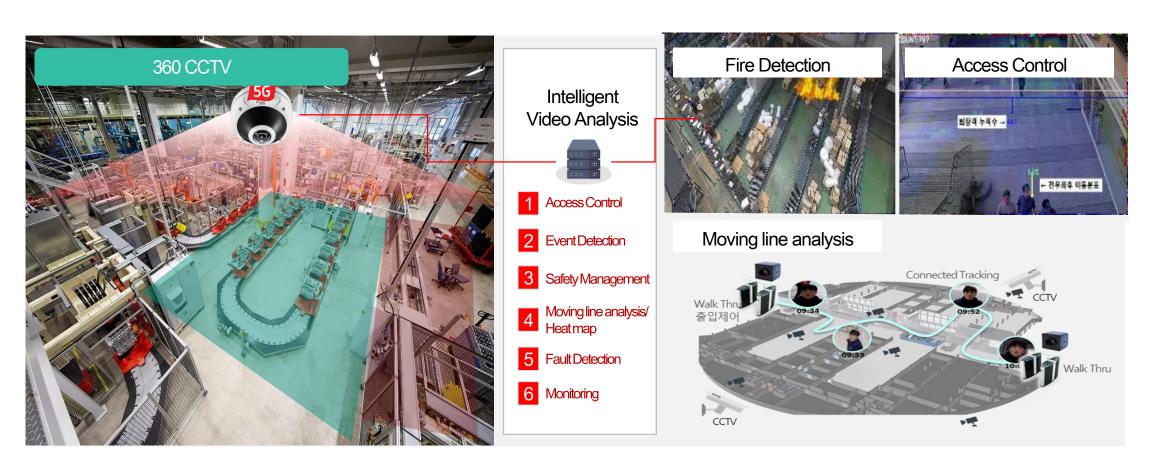






03 | 5G Key Services - ① 360° Smart Surveillance

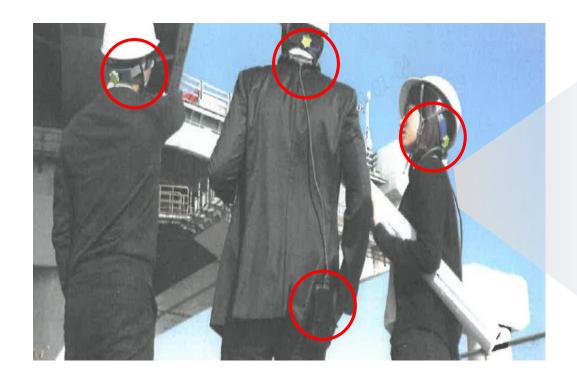
360° CCTV increases efficiency by minimizing the need of CCTV from 4 to 1 and provides analyzed information to the customer through various Video Analytics technology.

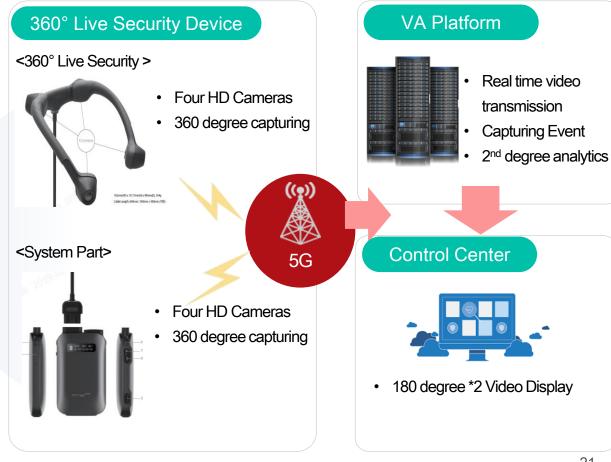


03 | 5G Key Services - 2 360° Live Security

By simply putting a band around workers neck, 360° video information can be captured in real time.

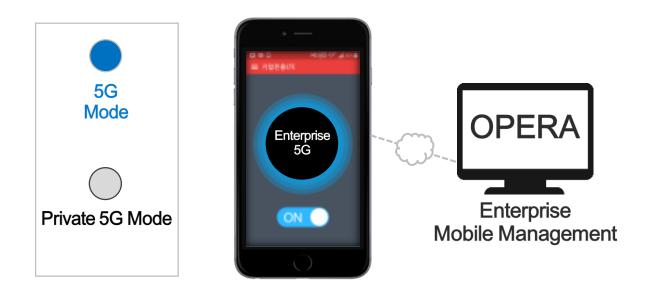
On Field Application





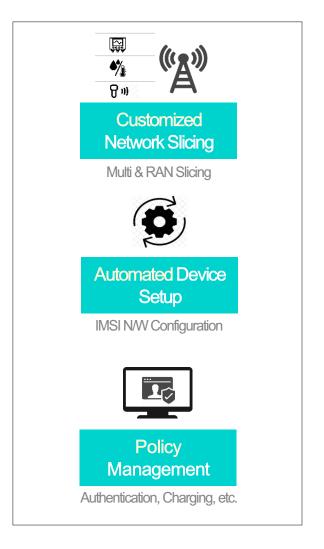
03 | 5G Key Services - 3 Enterprise Private 5G

"Enterprise 5G" is a B2B service that provides enterprises with 5G dedicated Network



provides the **Security of the Enterprise**,

and set **Mobile Management & Configuration** by policy.



03 | 5G Key Services - @ Autonomous Driving Vehicle

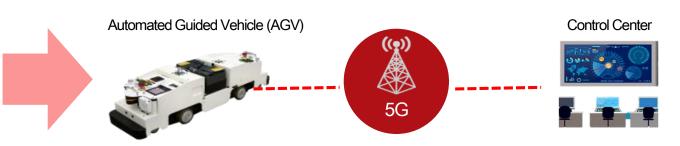
5G AGV provides more mobility and less space constraint.

As-Is (Wired)



- Wired base magnetic AGV.
- Less Mobility and limitation only for indoors

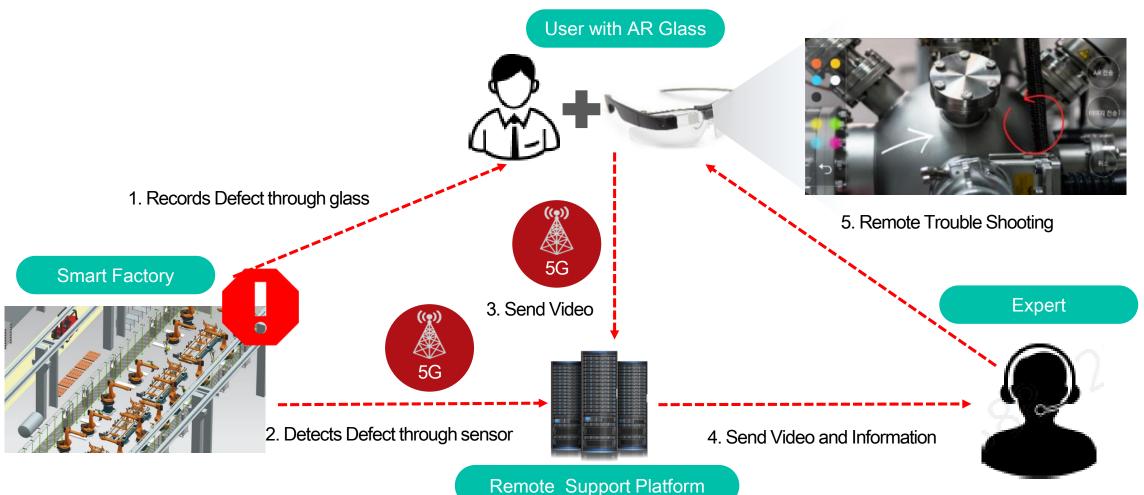
5G based AGV (Automated Guided Vehicle)



- Automated Vehicle with more Mobility since based on Wireless Connection.
- Can be applied to indoors and outdoor environment

03 | 5G Key Services - ⑤ AR Glass (Remote Trouble Shooting)

By using AR technology applied to a special glasses, trouble on equipment/system on the working field can be managed remotely by specialists.

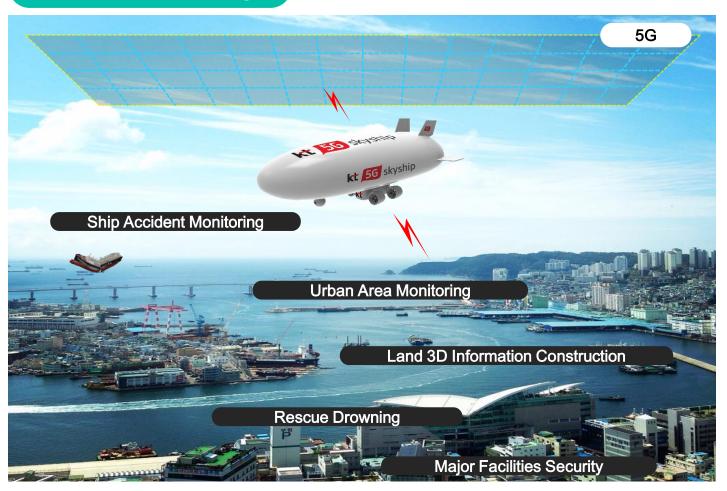




03 KT 5G Skyship

5G enabled high-quality, real-time communication & surveillance platform

Disaster Monitoring



Forest fire management



Skyscan

