

5G, Brand New Innovation

Lee, Jong-sik | 10. 19. 2017



PyeongChang 2018™

World First **5G**



Contents

- 1** Future Life and 5G
 - 2 5G Service Plan in Pyeongchang
-

Big Change

Human-based Workforce System ► Machine-based Autonomous System

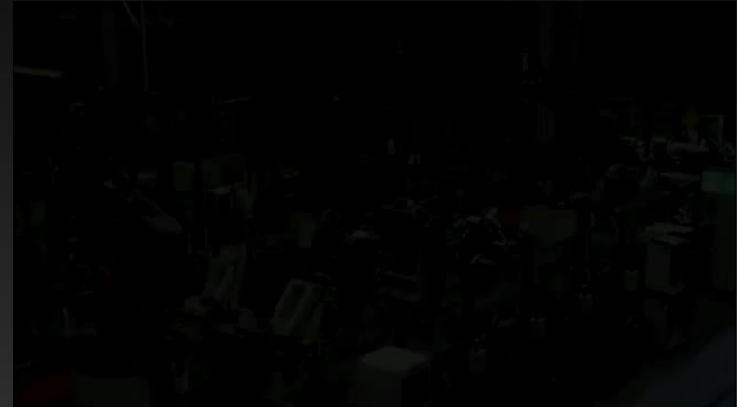
1930s



Human-centric

Error-prone

Now, or Near Future



Machine-centric

Error-free

Future ICT Innovation

Hyper Reality



- Virtual Presence
- Mixed Reality

Complete Automation



- Autonomous Vehicle
- Smart Factory

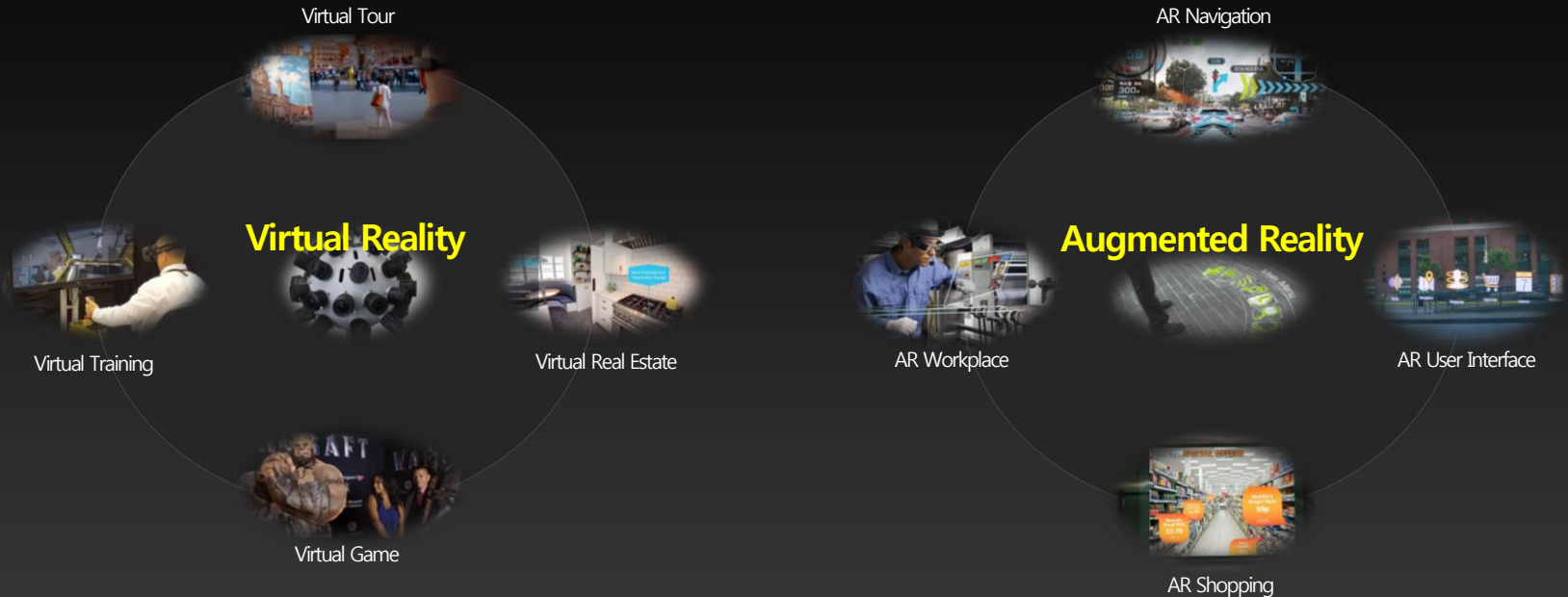
Next Intelligence



- Virtual Agent
- Intelligent Robot

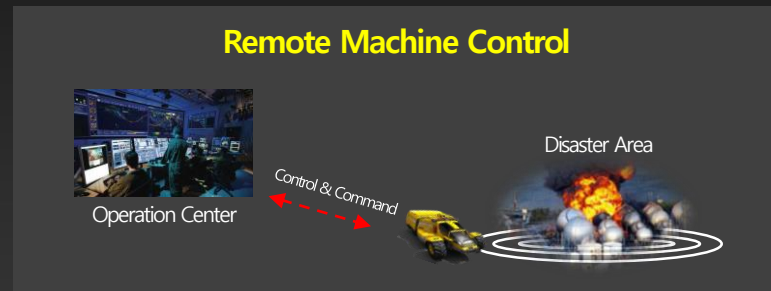
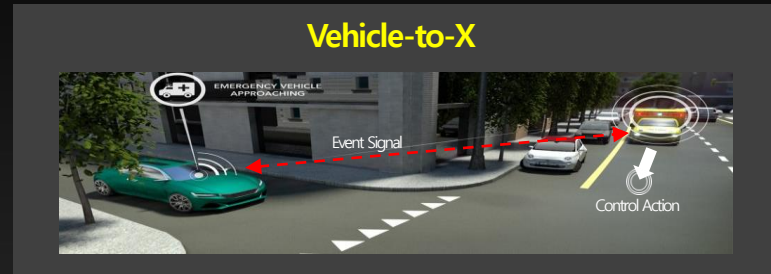
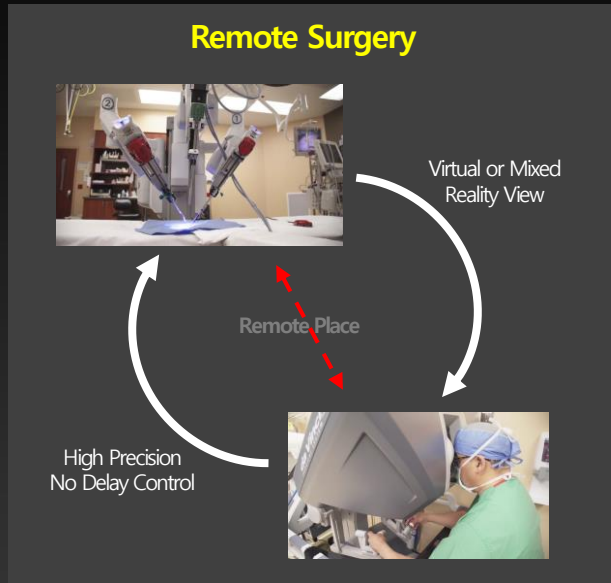
Future ICT Innovation (1) – Reality vs Virtual Reality

New Experiences through Hyper Reality Services based on VR/AR technology



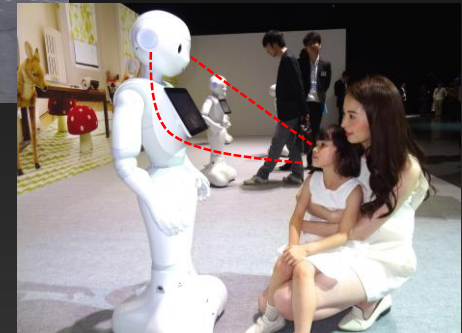
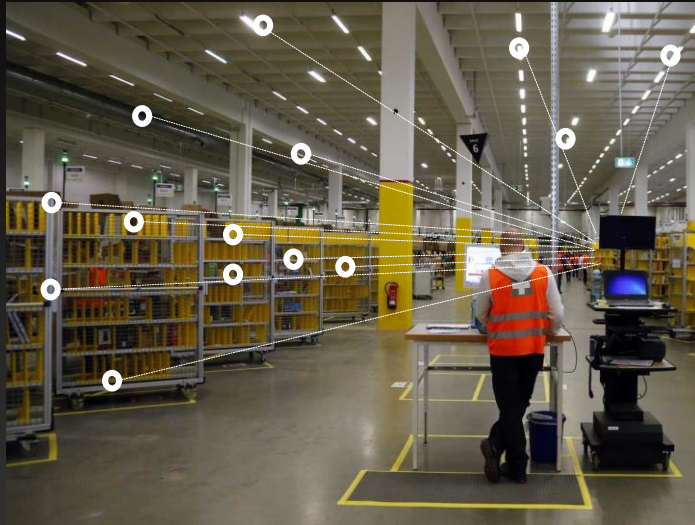
Future ICT Innovation (2) – Local = Remote

No distinction between Remote & Local operation through Zero Latency Control



Future ICT Innovation (3) – Augmented Intelligence

Higher Intelligence through **Big Data** from **Massively Connected Devices**



4th Industrial Revolution

New Industrial Revolution based upon Future ICT Innovations

4th Industrial Revolution

- AI, Autonomous Robot, VR



3rd Industrial Revolution

- Electronics
- Information Technology



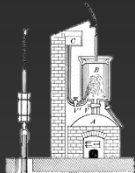
2nd Industrial Revolution

- Electric Grid
- Mass Production



1st Industrial Revolution

- Steam Engine
- Mechanization



4th Industrial Revolution & 5G

Virtual Reality



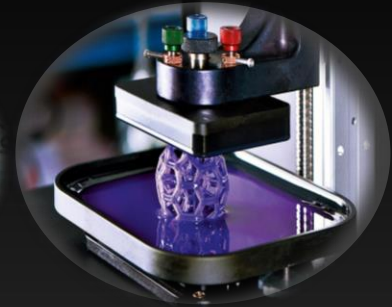
Artificial Intelligence



Autonomous System



3D Printing



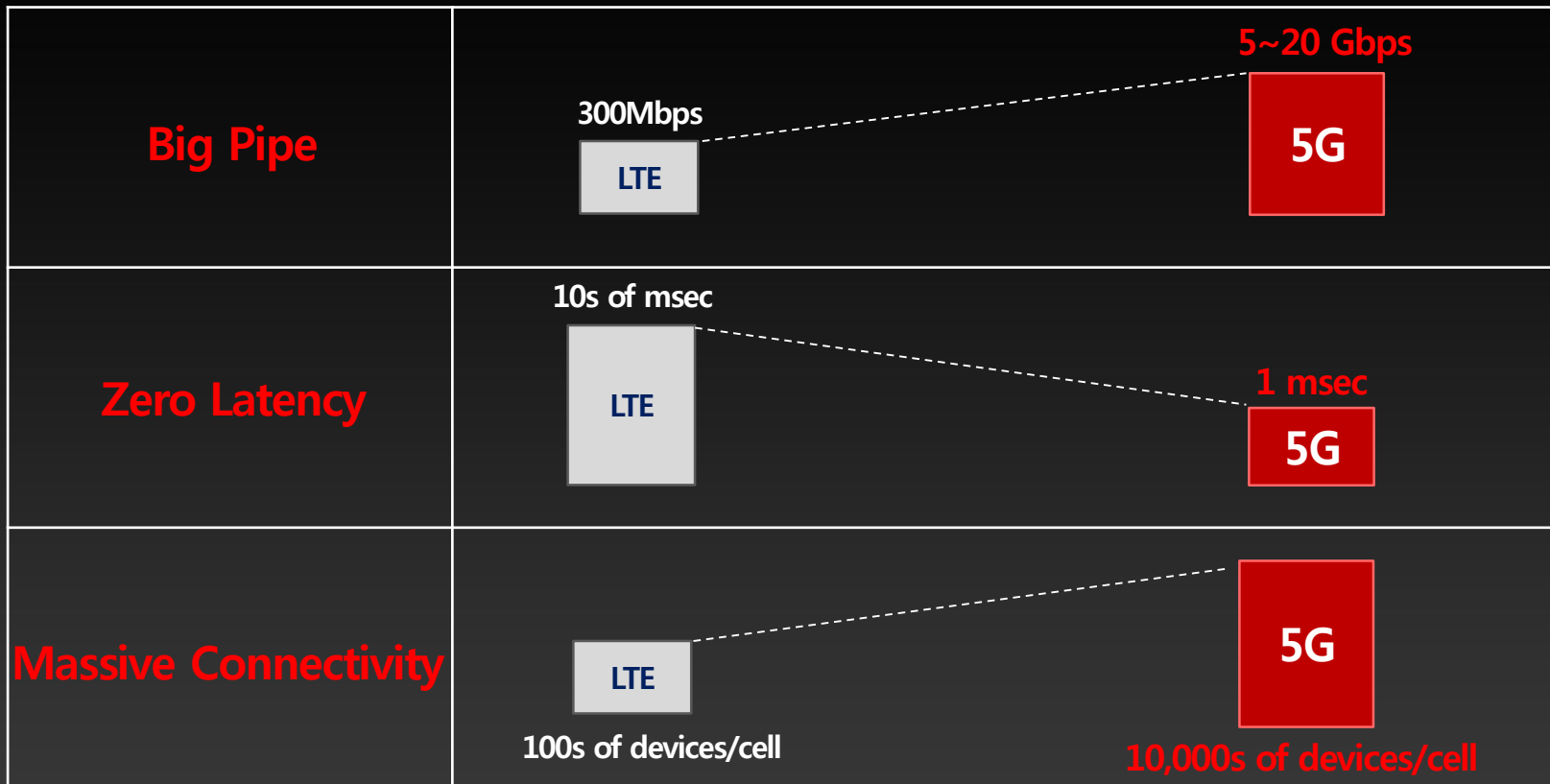
4th Industrial Revolution Enabling Technology

Big Pipe

Zero Latency

Massive
Connectivity

5G Goal



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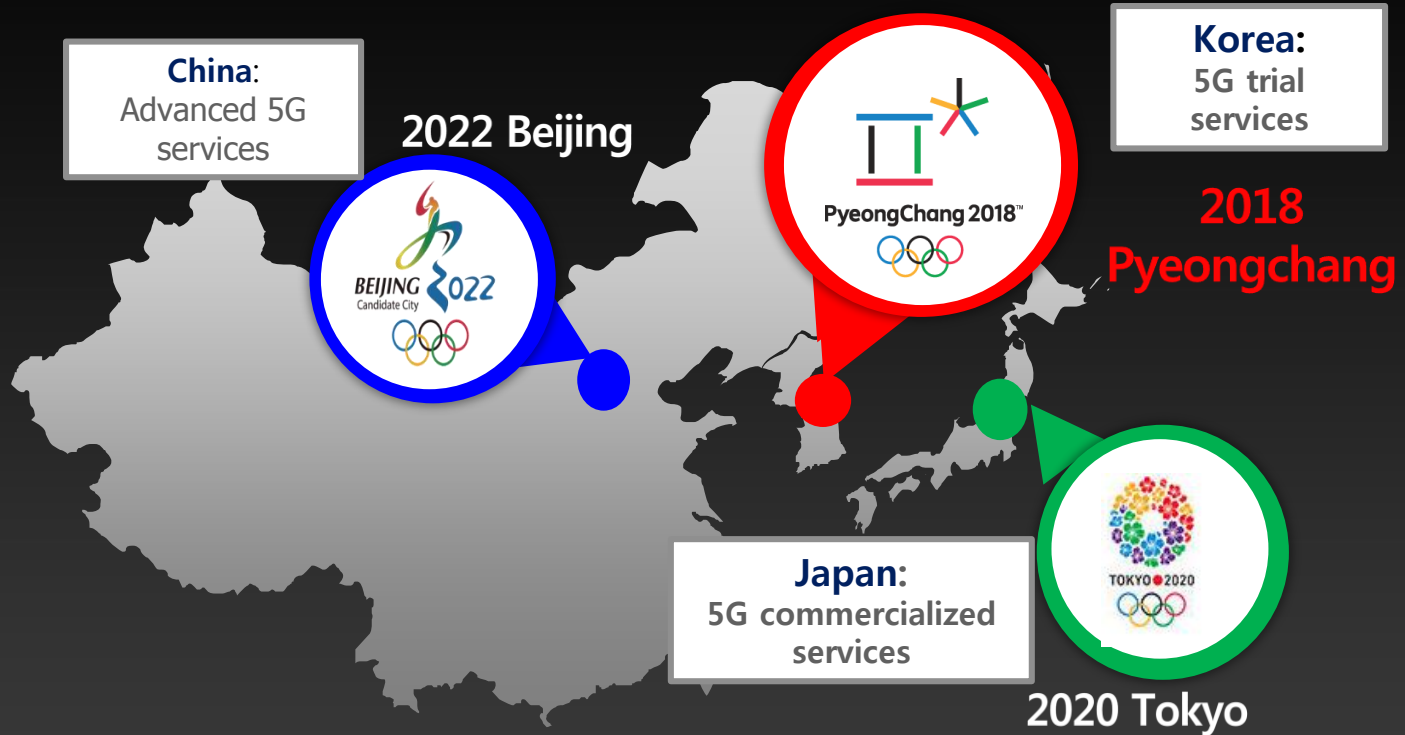
ICT technology in Olympics

Olympic Event as a chance to show state-of-the-art ICT technology



5G & Olympic Games

Plan to show **5G services** in the upcoming Olympic Games



KT's Leading Efforts towards 5G



'5G Vision' presentation



MWC 2015
(Mar.2015)



5G Global Collaboration

5G Tech.
Development
Lead

'Announce to commercialize
5G in 2019'
MWC 2017
(Mar.2017)

Pyeongchang 5G Trial Services (Feb.2018)

5G Olympic Plan
Press Conference
(Feb.2016)

2nd Test Event
(Feb.2017)

'PyeongChang 5G-SIG
Specifications' Release
: World First 5G Specs.
(June 2016)

PyeongChang
5G System/ Device/Service
Development

5G SIG First Call (Nov.2016)

5G Olympics Vision

KT, as the official telecom partner for 2018 Pyeongchang Olympic Games, plans to Present the world with **"New Experiences beyond Imagination"** through 5G trial services



" World First 5G in Pyeongchang "

5G Trial Services in 2018 Pyeongchang

Olympic Venues, major cities, railroad, expressway, etc.



New Experiences: Inside the Track

2014 Sochi Olympics



Outside the track

Sync View



Inside the track

Activities: 1st Test Event (Feb. 2016)

Omni Point View



Time Slice



Sync View



5G IoT-5G Safety



Hologram Live



Activities: 2nd Test Event (Feb. ~ Mar. 2017)

February

March

PC



Cross-country



Nordic Skiing



Ski Jump



Luge



Biathlon



Nordic Skiing



Bobsled &
Skeleton

GN



Speed Skating



Figure Skating



Junior Curling



Wheelchair Curling

BK
/JS



Freestyle



Snowboarding



Ski World-cup



Snow Boarding



Alpine Skiing

Activities: 2nd Test Event (Feb. ~ Mar. 2017)



5G-Driven Convergence Industry

Vitalizing new industry by innovating network infra and ecosystem

Immersive Media



Smart Office & Home



Virtual Enterprise



Connected Vehicle



Smart Machine/Drone



Smart Healthcare



5G, Ready for Innovation

Leading 4th Industrial Revolution Innovation with **5G based Intelligent Network**

Successful 5G Olympics

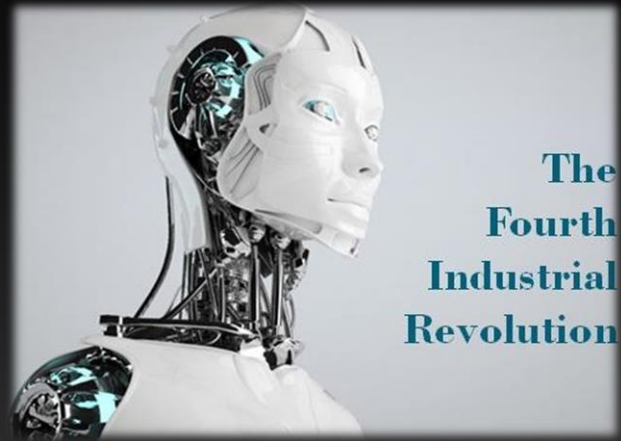


2018

World 1st 5G Commercialization

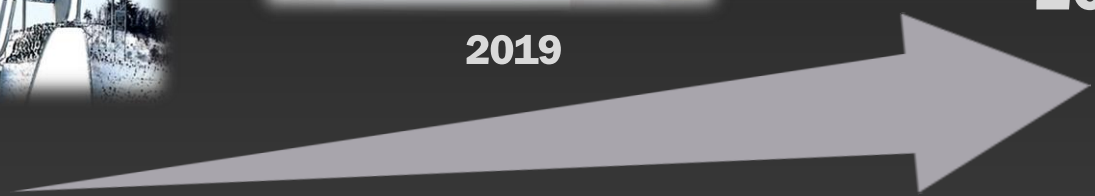


2019



The
Fourth
Industrial
Revolution

2020~





5G and Beyond

Thank you

kt
korea telecom

