WSIS TALKX
5G Technology for COVID-19 Prevention & Control

5G Use Cases in the Time of Covid-19

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Some of Medical Care Needs to be Considered by 5G & ICT for Covid-19

To Better Support Remote Expertise among Medical Staffs

To Optimize Social Distancing in Hospital Campus Daily Tasks to Handle Patients & Medical Staffs' Activities

To Speed up the Release of a Vaccine

To Keep Contact with Patients under Strict Social Distancing Rules

To Protect Citizens and Society from New Infected Cases (e.g. Fever Detection)
5G and AI based APPs Play an Important Role in Fighting Against Covid-19

Now AI-based

AI-based diagnosis: **10s**
Doctor confirmation: ~**2mins**

Vs.
Doctor alone: **12 mins**

Automatically: **30s**
Vs.
Typing: **2 mins**

~2 mins

Cloud and AI-assisted diagnosis is 6X faster than manual operations!

*) https://en.wikipedia.org/wiki/Picture_archiving_and_communication_system

**) Data transfer time is excluded
Other 5G & ICT Activities Related to e-Health for Handling Covid-19 and More

“5G robots are helping cutting the risk of infection among staffs”
Dr. Sukrom, Deputy Director of Rajavithi Hospital in Bangkok @Q2-2020

5G Robots & Social Distancing

-Chalermporn Chairat, Emergency Unit Chief Nopparat Rajathanee Hospital, Bangkok @Q2-2020

5G Smart Ambulance

Matthew Gould (UK NHSX CEO) @Q1-2020, “There are areas we are thinking about…”

*) non-emergency number

NHS111 online https://111.nhs.uk/

Coronavirus (COVID-19)
Find out what to do if you think you have symptoms

Get medical help near you
1. Answer questions about your main symptom.
2. Find out when and where to get help.
3. Be contacted by a nurse, if needed.

Get Online* or Phone

Remote Consultation “Telehealth”
University Hospitals Birmingham & BT develop 4G/5G remote diagnostic station, Q2-2020

Vodafone UK, Q2-2020 Installation of Thermal Camera
Lot of 5G Activities Targeting Medical Care Industry All around the World

China Planning Strategy to Support 5G Hospital Deployment

- **2019**
- **2020**
- **1 Year**
- **300+ Hospitals**

Market Prediction Hospital Campus

- Huaxi Hospital 2020
- **13,000+** (by 2025) in China

Source: Huawei Insights [2020]

Countries mentioned:
- Korea
- Malaysia
- Singapore
- Thailand
- Europe
- Spain
- UK
- GCC Countries
More Use Cases Emerging Now and in Post Covid-19 Pandemic Period

Comprehensive 5G+Cloud+AI Solutions for Handling Current Covid-19 Challenges and Supporting the Economy Recovery in post Pandemic Period
Thank you.