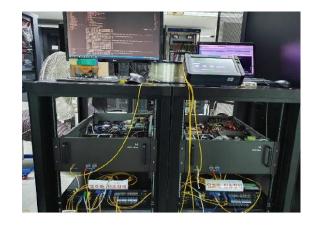




## O1 QKDN-related systems of KT corp.

Developed 'prototype QKD systems' by KT; QKD module, Encryptor, Key Management System, QKD NMS (Manager), etc.

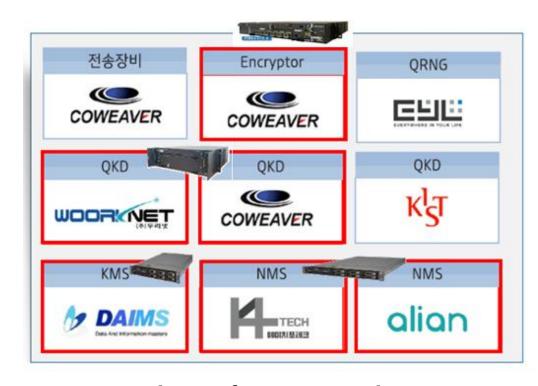




<KT prototype>



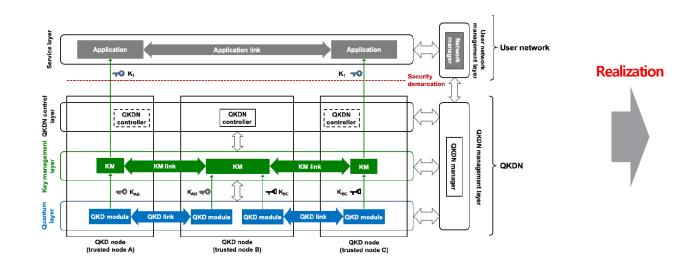




<Products of Korean Vendors>

### <sup>02</sup> QKD network structure of KT corp.

Based on ITU-T Recommendation Y.3800; layered model - Quantum, KM, Service and Network Management layers



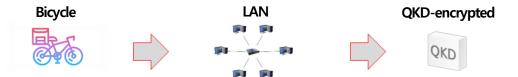
<Conceptual structure of QKDN in Rec. Y.3800>



<Conceptual structure of KT QKDN>

#### <sup>03</sup> Industrial Plant - Local Area Network

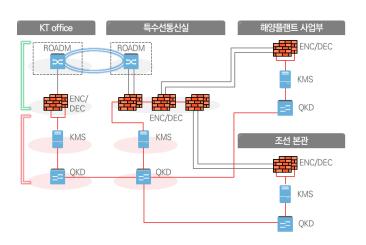
Hyundai Heavy Industry; Global no.1 shipbuilding plant







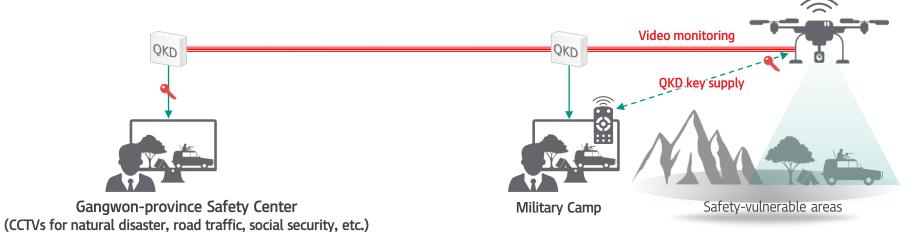




Naval Shipyard

# <sup>04</sup> Local society - Drone-based safety system

Gangwon-province; adjacent to DMZ (De-Militarized Zone)

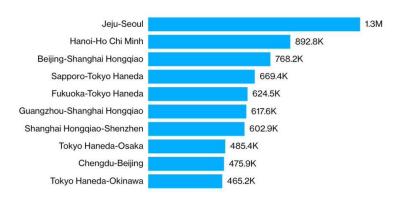






### <sup>05</sup> C-ITS - Quantum-safe Autonomous Car

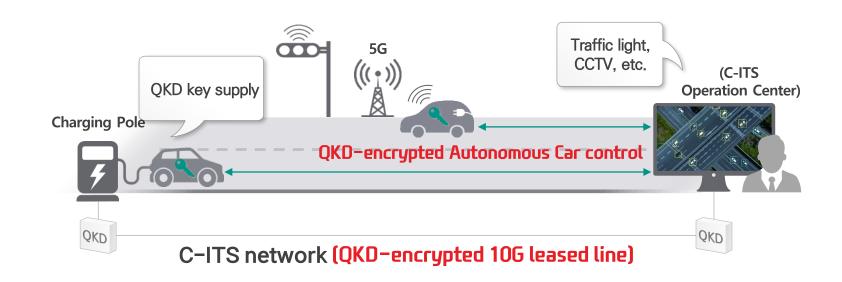
Jeju; C-ITS implemented romantic island



Jeju C-ITS

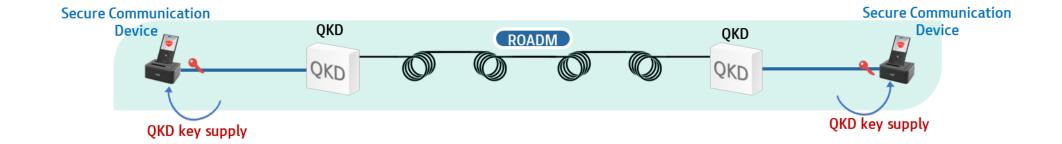


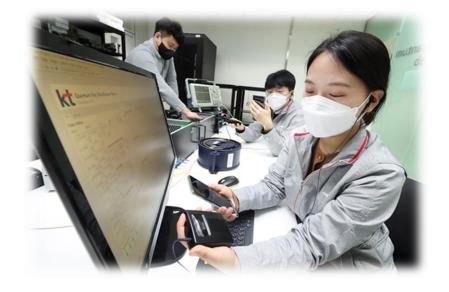
<world's busiest airline route – Bloomberg>

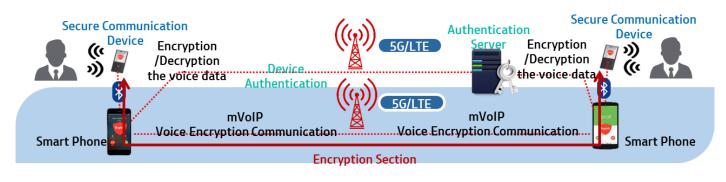


### <sup>06</sup> QKD application; Quantum-safe Mobile Communication

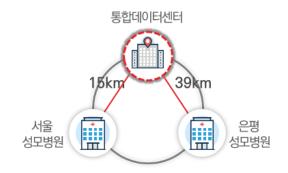
Secure Communication Device; charging cradle-based QKD key supply







### <sup>07</sup> Others



<Medical Centers and Data Center>



<Video Conference>



<CCTVs operation center>

