Smart & Green Technology Innovator

ETRI

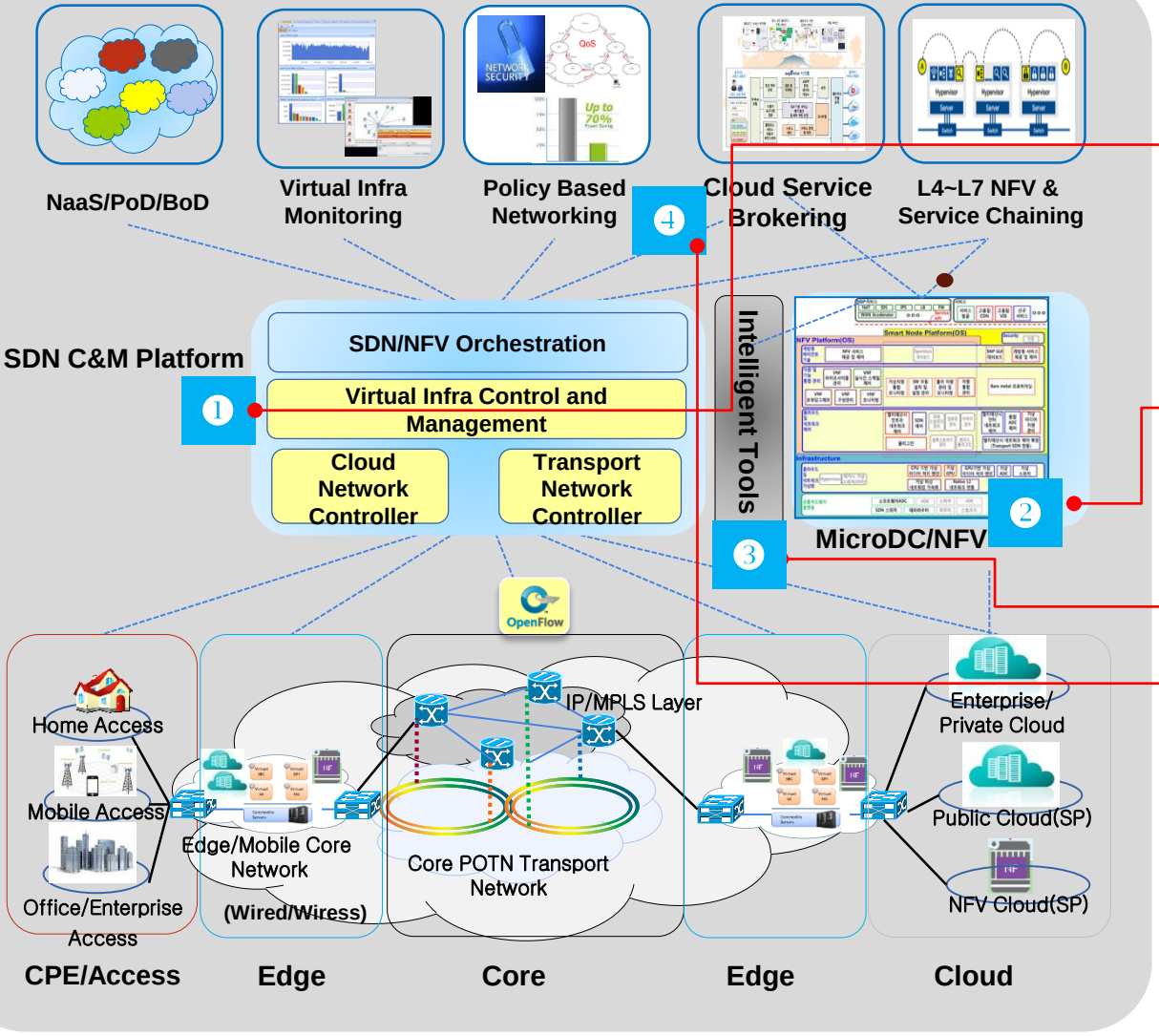
Smarter Networks for 5G Era

November 10, 2016

TaeYeon Kim (tykim@etri.re.kr)
Smart Network Research Department
Hyper-connected Communication Research Laboratory
ETRI

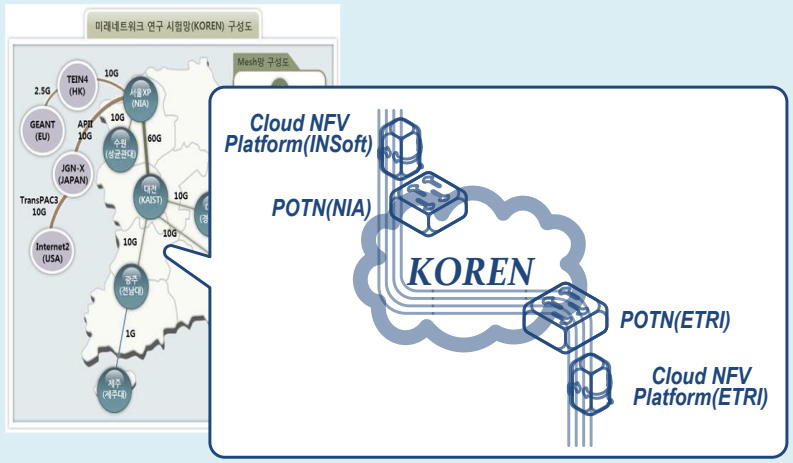
Smart Networking Project

R&D on Smart Networking Core Technologies (2014 ~ 2016)

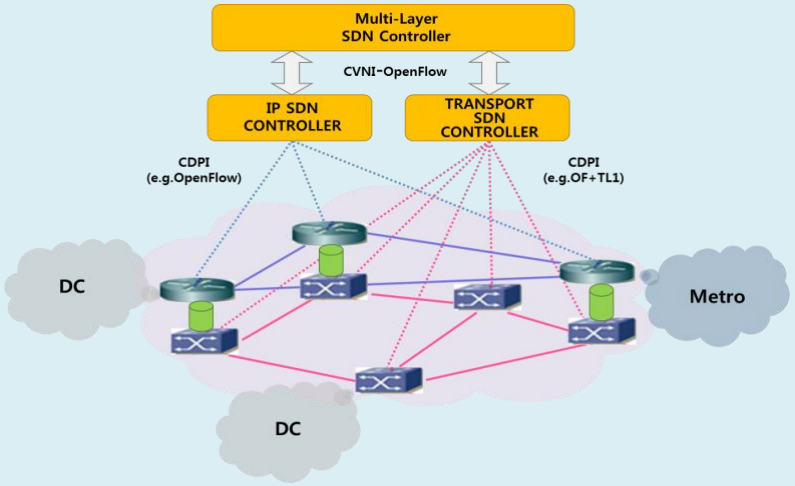


- **Carrier-grade SDN Control Platform**
  - Service oriented open-control and network virtualization
  - Intelligence of transport networks
- **Micro DC and NFV Platforms**
  - Open innovation convergence ICT platform for cloud and NFV service
- **SDN/NFV based Intelligent Tools**
  - SDN/NFV Verification Tools
  - Big-data based operational analytics
- **Smart networking applications and business models**

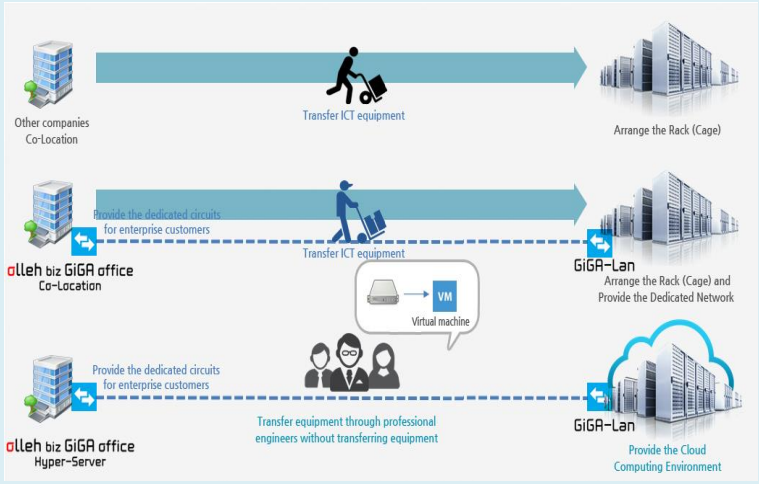
Use Cases



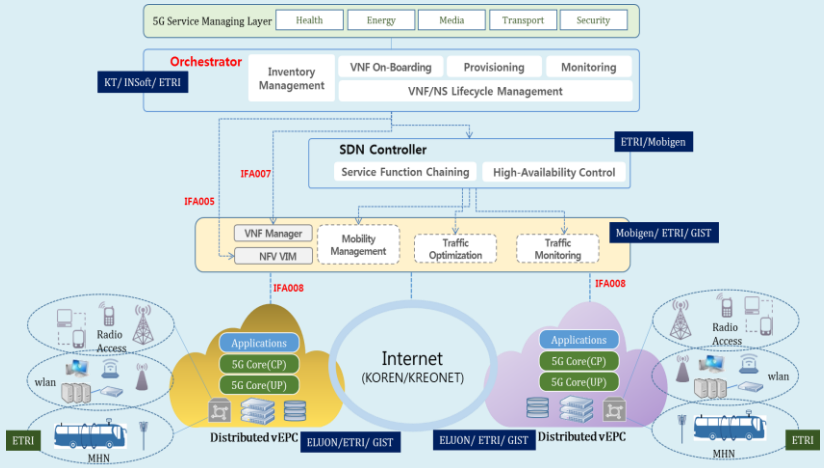
<Testbed Platform>



<Transport Networks>

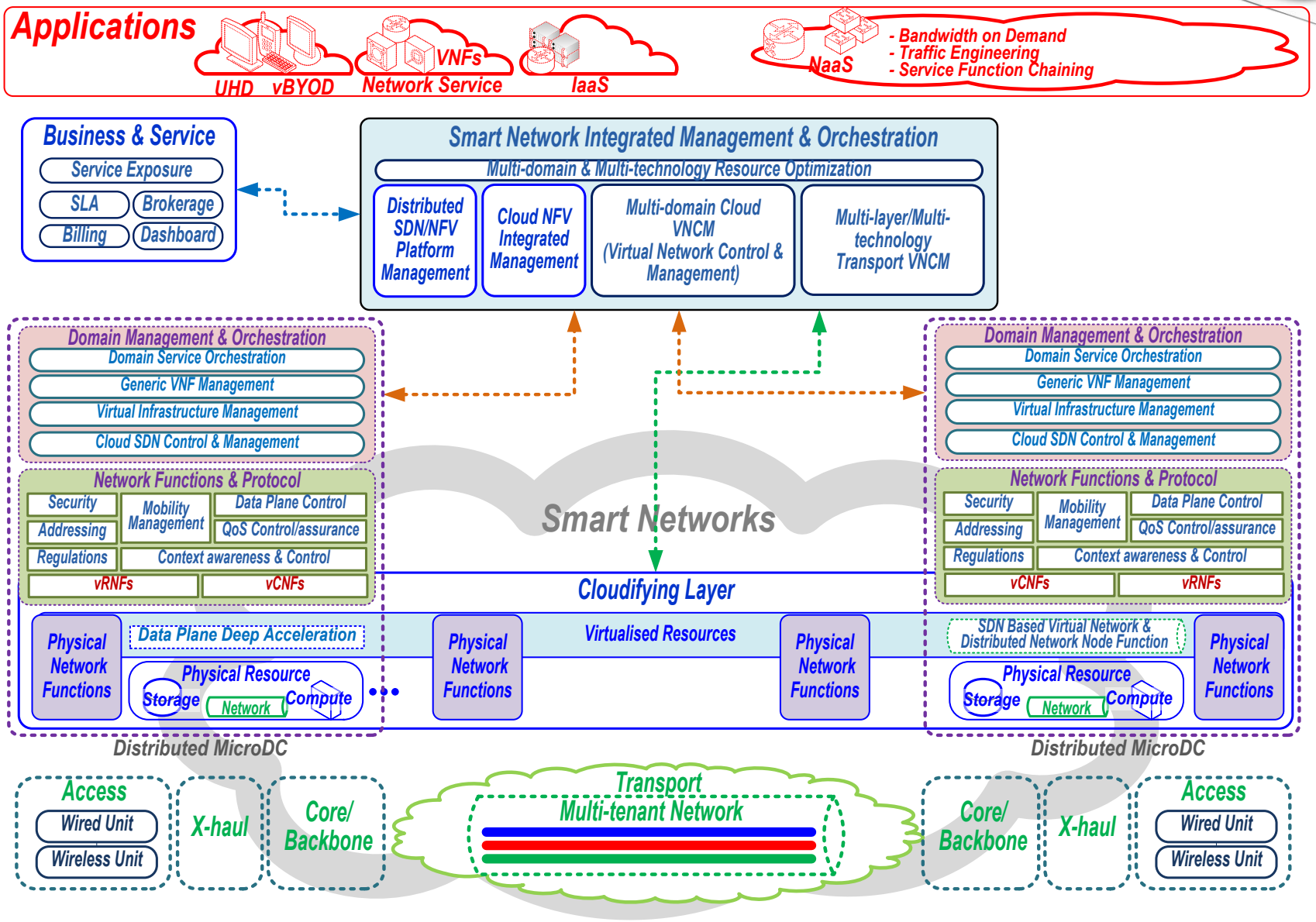


<Cloud Business Platform>

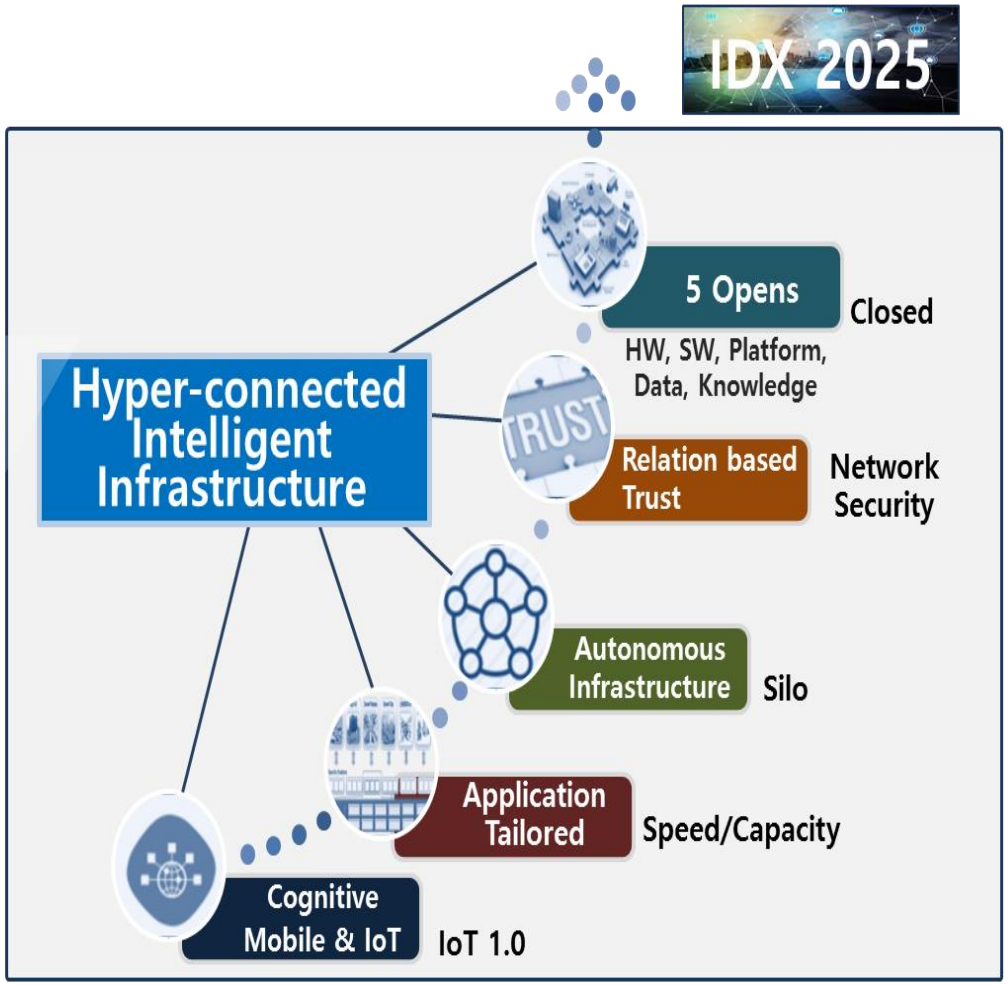


<5G CHAMPION Project>

Smart Networking towards 5G



Directions to be Smarter



TRUST

- Real-time Trust infrastructure & Protocol

Autonomy

- AI-based Autonomous & Distributed Infrastructure

Application-centric

- Application-Aware Infrastructure Rearchitecturing

Key Technologies

- Highly scalable networking
- Context-aware autonomous provisioning
- KPI ensuring infrastructure orchestration
- Cognitive Hyper-connectivity control
- Software defined application-aware data plane