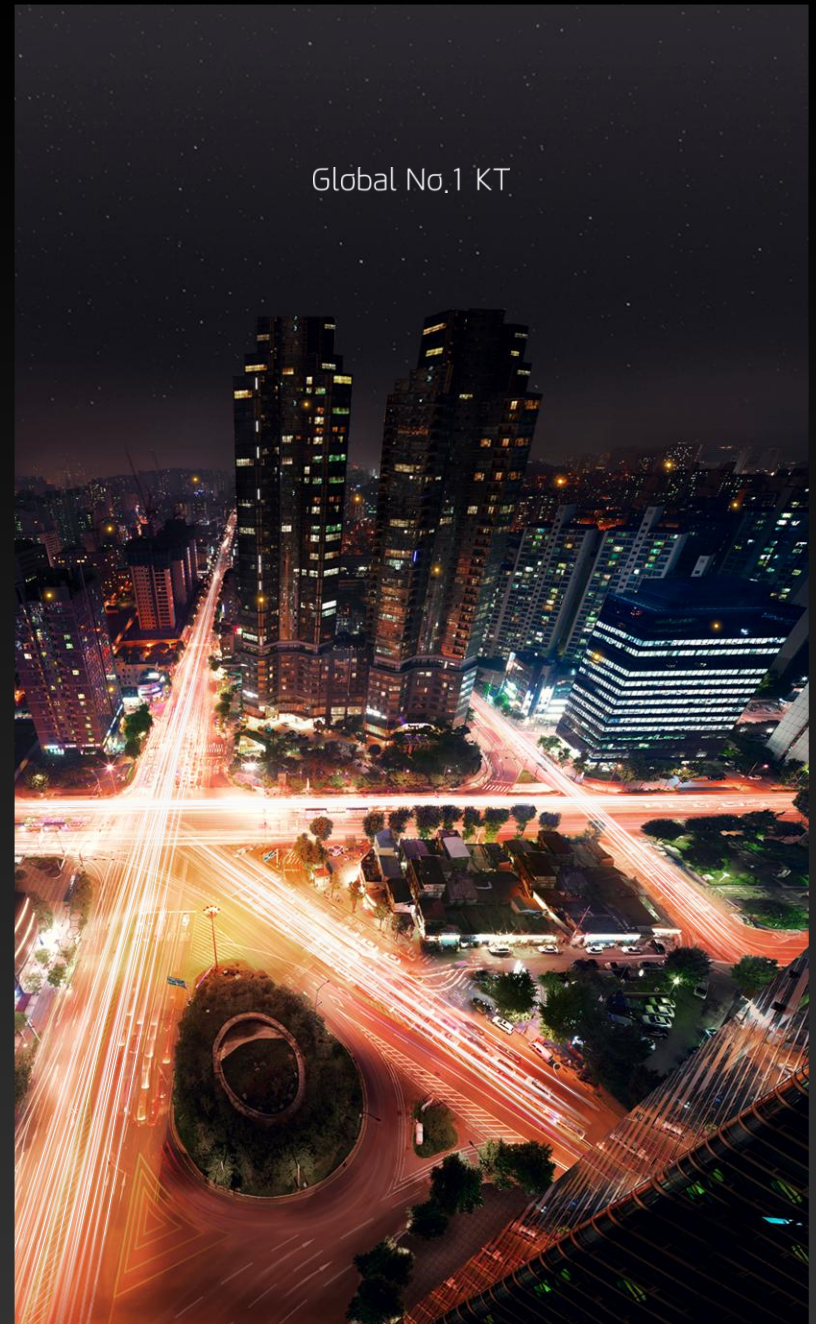


Vision and Issues for Network Softwarization

Dongmyun Lee | June 7, 2016





I The Changes

II The Issues

III Going Forward

Opportunities: Flexible and Adaptive Network

Future Internet
NGN



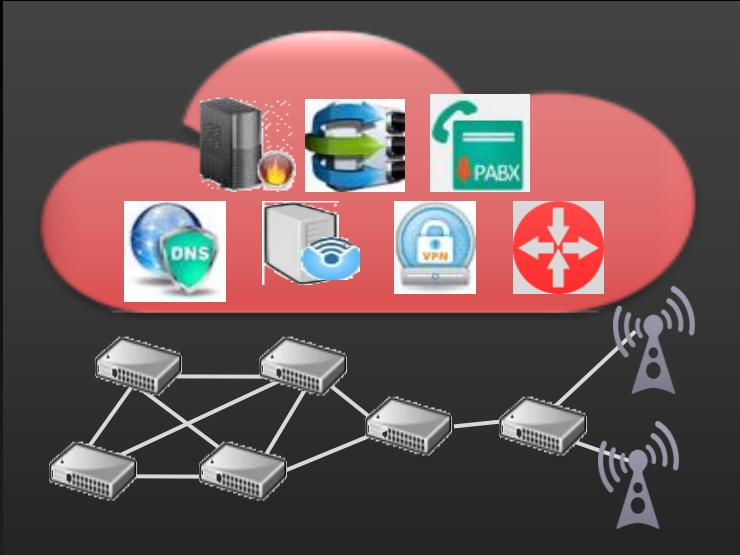
SDN/NFV/Cloud



5G Network Slicing



Opportunities: IT+CT New Business



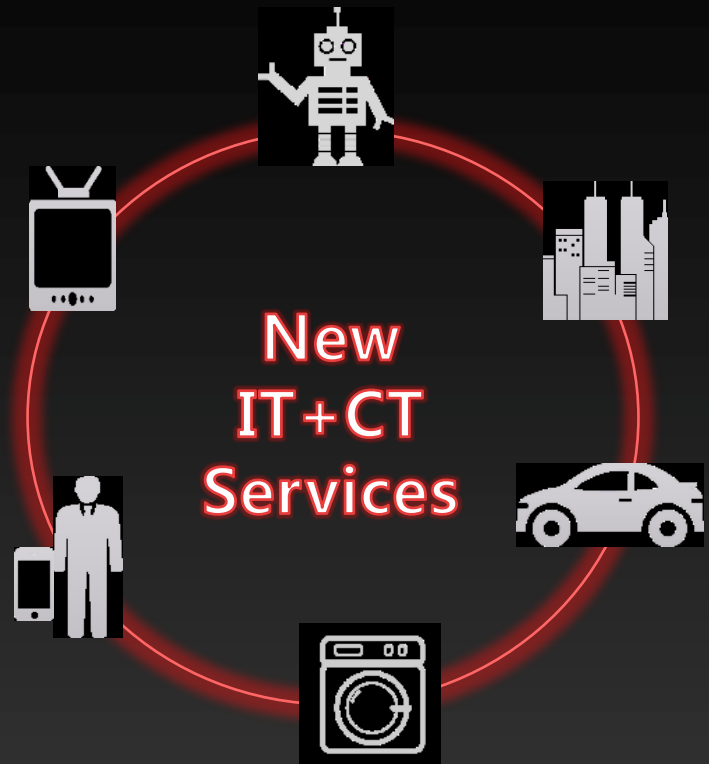
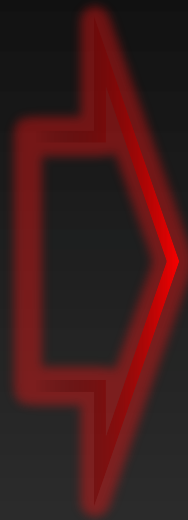
Low CAPEX
Simple Boxes



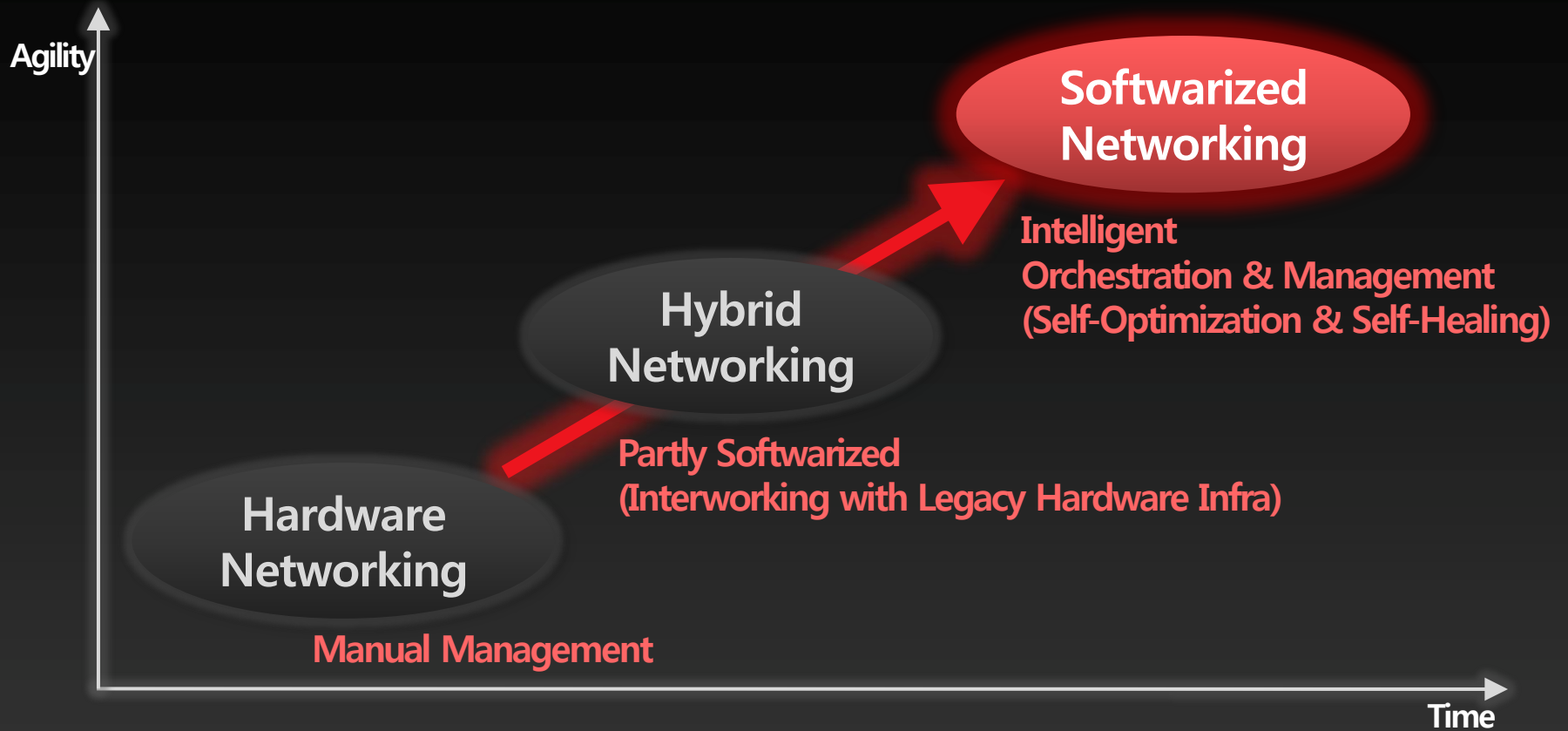
Low OPEX
Automatic, Intelligent Operation



Agile Biz
Flexible Software



The Way To Go



I The Changes

II The Issues

III Going Forward

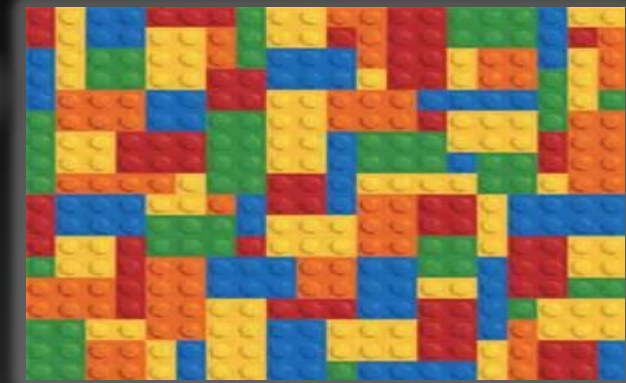
The Issues in Telco Infra

- Challenges for Commercialization

- Operation Migration
- Open Development & Benchmark
- Interoperability

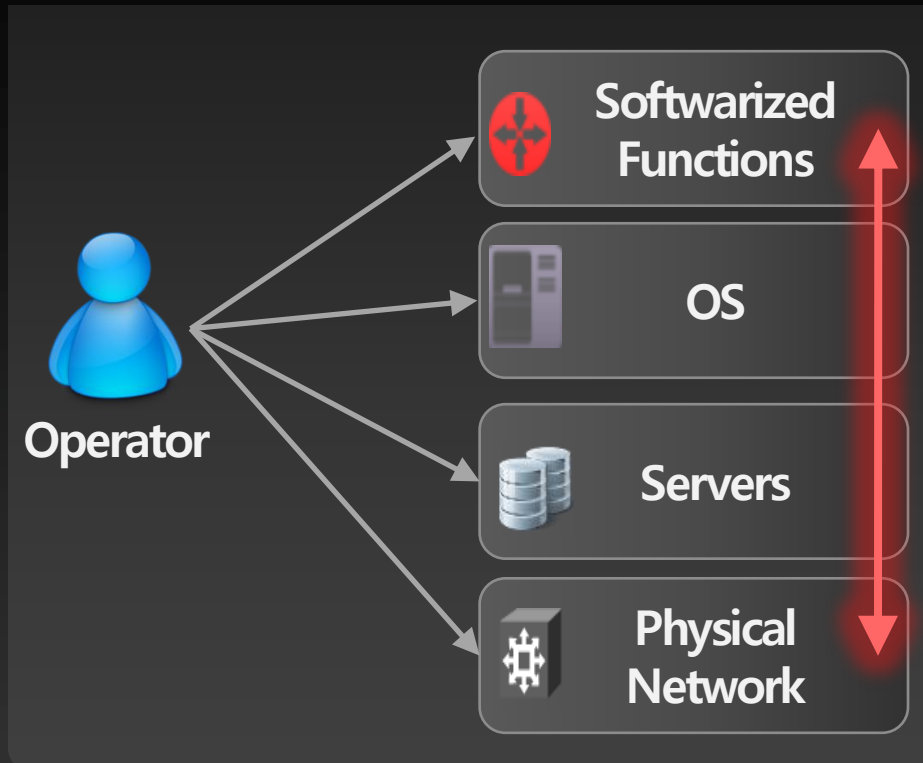


Open Solutions



Telco Infra for Commercial Service

The Issues – Operation Migration



✓ IT+CT DevOps

✓ End-to-End Service
Orchestration

✓ Intelligent Operation

The Issues – Open Development and Benchmark

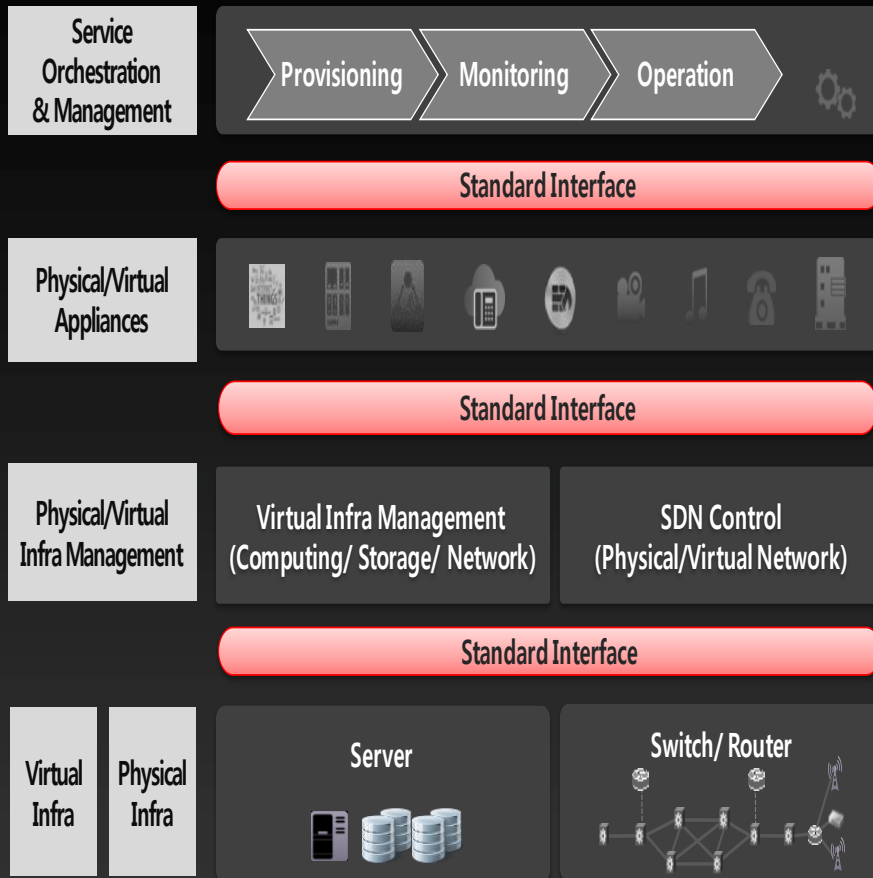


✓ IT+CT Integration

✓ Open Source Optimization

✓ Standardized Benchmark

The Issues – Interoperability



✓ Legacy System Interoperability

✓ Third-Party Solution Integration

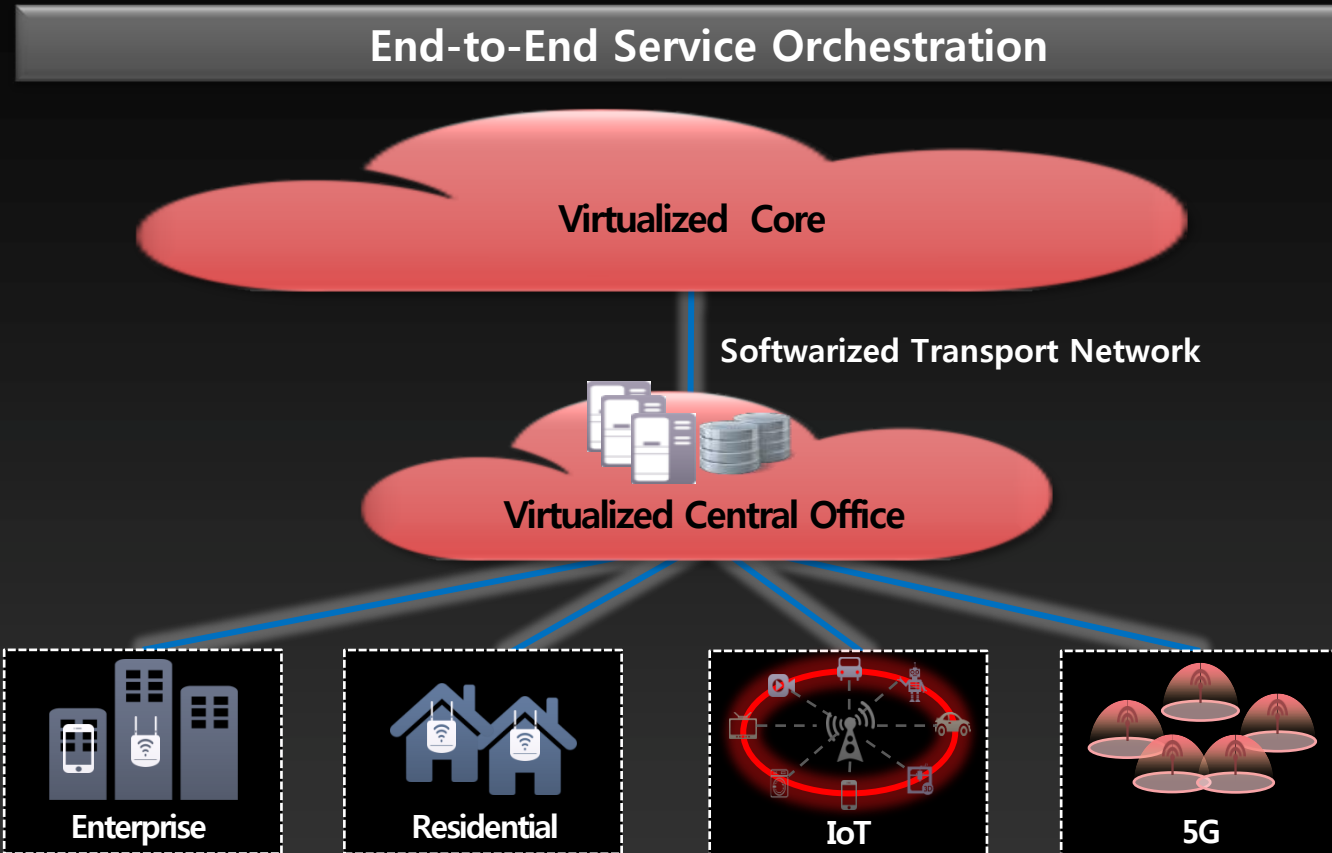
✓ Open Interfaces between Layers

I Vision

II Network Softwarization in KT

III Going Forward

Network Softwarization and Services

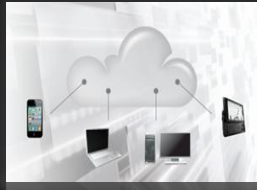


Net Softwarization and Service Adaptation

ICT-Based
Manufacturing



Net-Based
Big Data



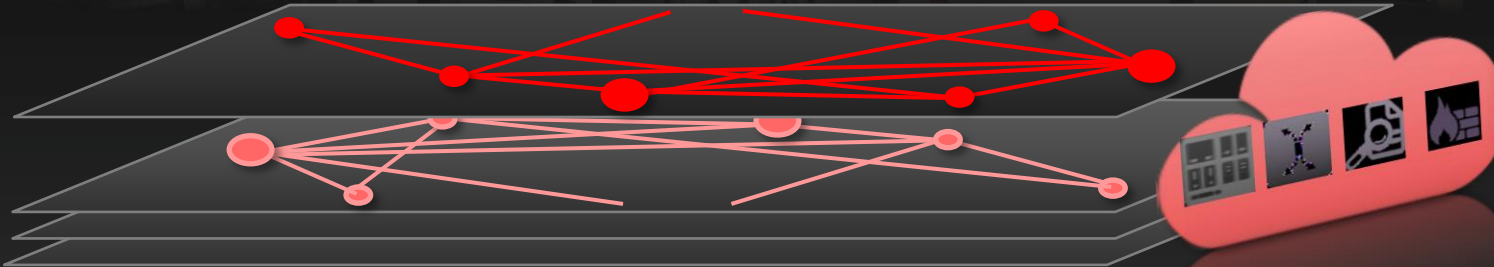
Hyper-
Connected
IoE



Fin-Tech



Connected
Vehicle



Smart
Media



Smart
Energy



Smart
Office/Home

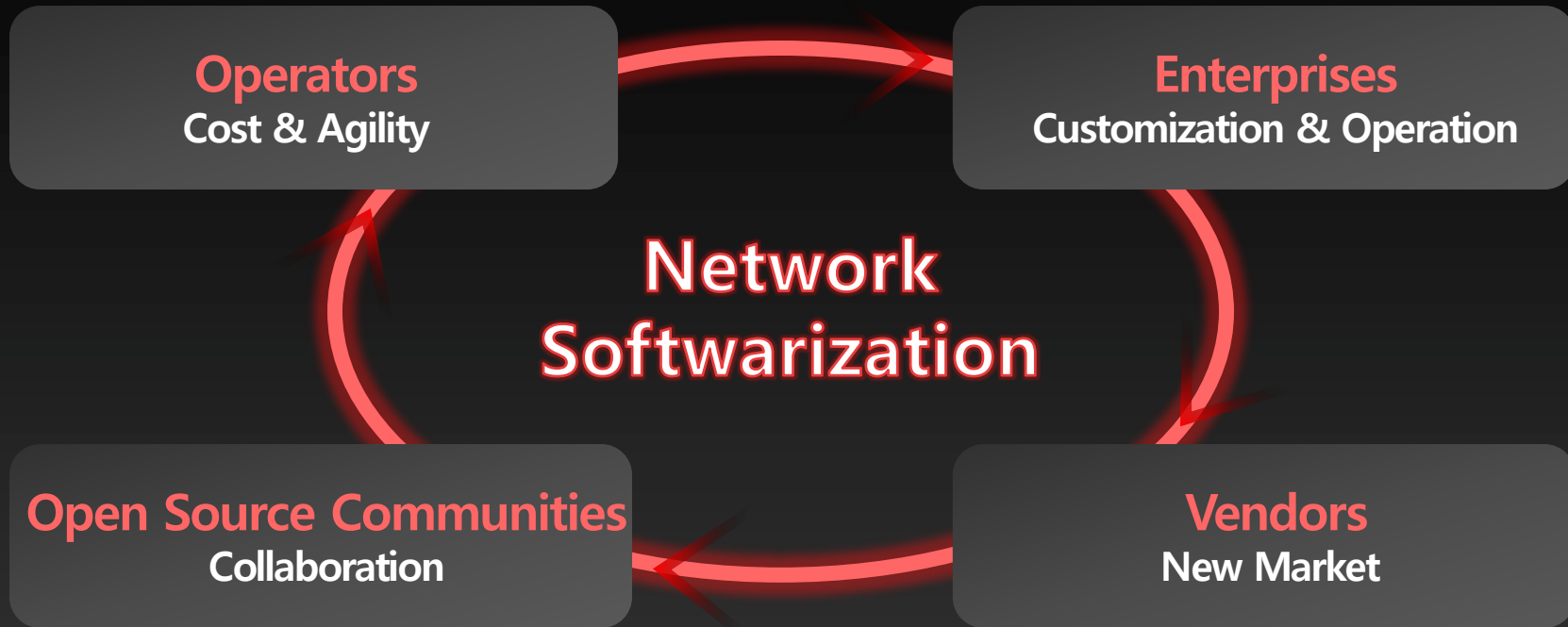


Smart
Healthcare



Smart
Privacy

Virtuous Circular Ecosystem



Benefits - Operators



✓ Reusable Software and White Boxes

✓ Qualified and Quantified Operation

✓ Reduced Time-to-Market
for New Services

Benefits – Enterprises



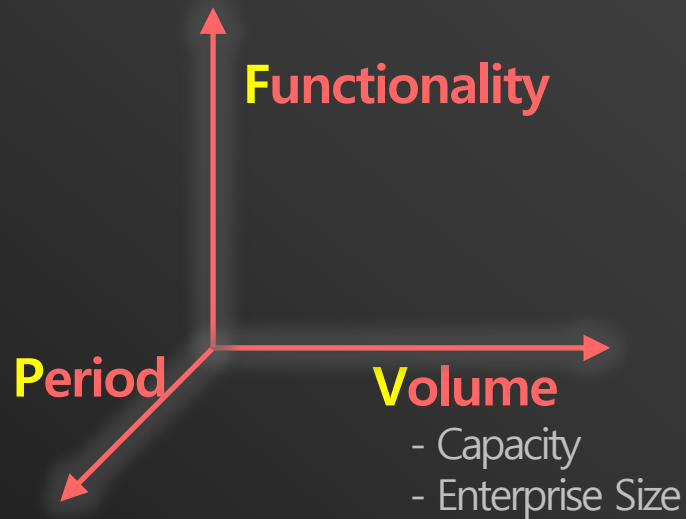
✓ Customized Trial and Use
(Capacity, Function, Period, etc.)

✓ Plug-and-Play

✓ Easy Upgrade and Maintenance

Benefits – Vendors

Increased Market Diversity



✓ Market Diversity and
New Market Creation

✓ Easy to Overcome Entry Barriers

✓ Easy Upgrade

Benefits – Open Source Communities



Open Collaboration



Implement Standard Architecture



Collaborative Multiple Knowledge

Network Softwarization Ecosystem

- On-Demand Everything



Network Softwarization

- Flexible and Agile Networks
- On-demand & Diverse Services
- Bigger Markets and New Businesses
- New Jobs and Academic Curriculums



Thank you

