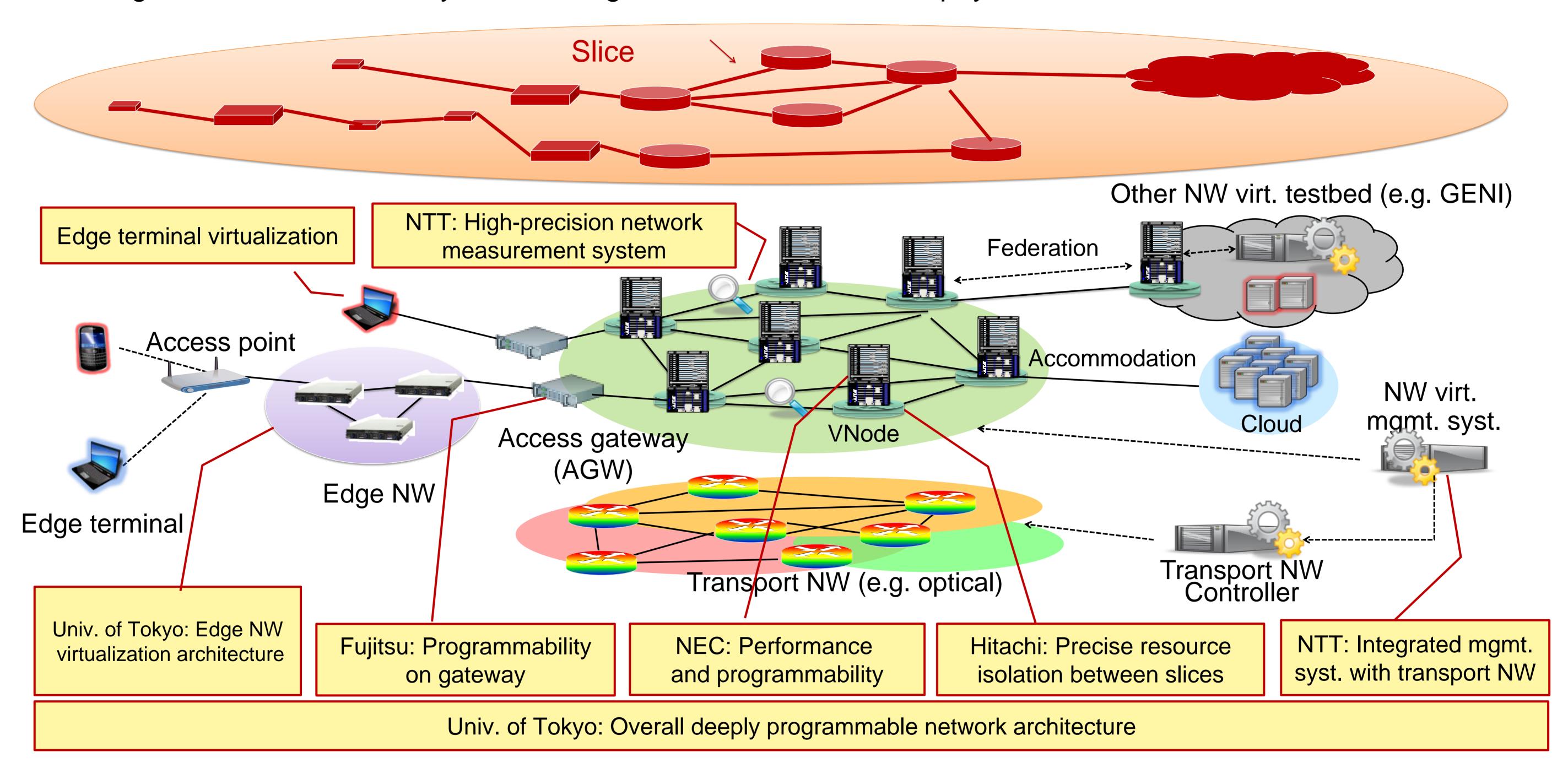
VNode: Deeply Programmable Network Testbed

【Goals】 Deployment of advanced network virtualization infrastructure, which requires (a) "abstraction" of resources, (b) "isolation" of resources, (c) "elasticity" of resources, (d) "programmability", (e) "authenticated, authorized and account (AAA)"

Architecture

- Features
 - -Programmable virtual network by VNode. Virtual network has virtualized transporting and computing resources.
 - -Constructing virtual network from edge network to core network, cooperating with transport network
- Advantage
 - -Offering private networks that have various performance, security, protocol, etc.
 - -Offering economical network by constructing virtual networks on one physical network



Enhancing Network Applications on VNode and GENI

- -Effective application use cases using programmable network such as VNode and GENI
- Showing how to improve the service quality of experience with in-network and edge area computing resources

Demos:

- Enhanced video application via a federation slice between VNode and GENI
- User-aware data deployment using AGW-VNode
- -Communicating by using a non-IP protocol on VNode

