We have deployed the prototype of new nation-wide SDN testbed with ONOS using software switch, lagopus, and we are also trying to adopt this network to mixed environment of software and hardware switches including white box switches. We conducted video streaming experiment in February 2017, and confirmed the data plane works fine.

Another trial is that we have just built SDN-IP environment to connect external networks on the Internet (non-SDN networks).

RISE3.0 is constructed with hardware(bare metal) switches and a single controller.

- To design a system with unified control of all hardware and software switches
- Distributed / multiple SDN controllers geographically separated for redundancy
- Overlay SDN on existing Layer 2 network (same as RISE)
- Interconnectivity with NRENs’ SDN

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