

# CORD Activities in NTT Group

Dai Kashiwa

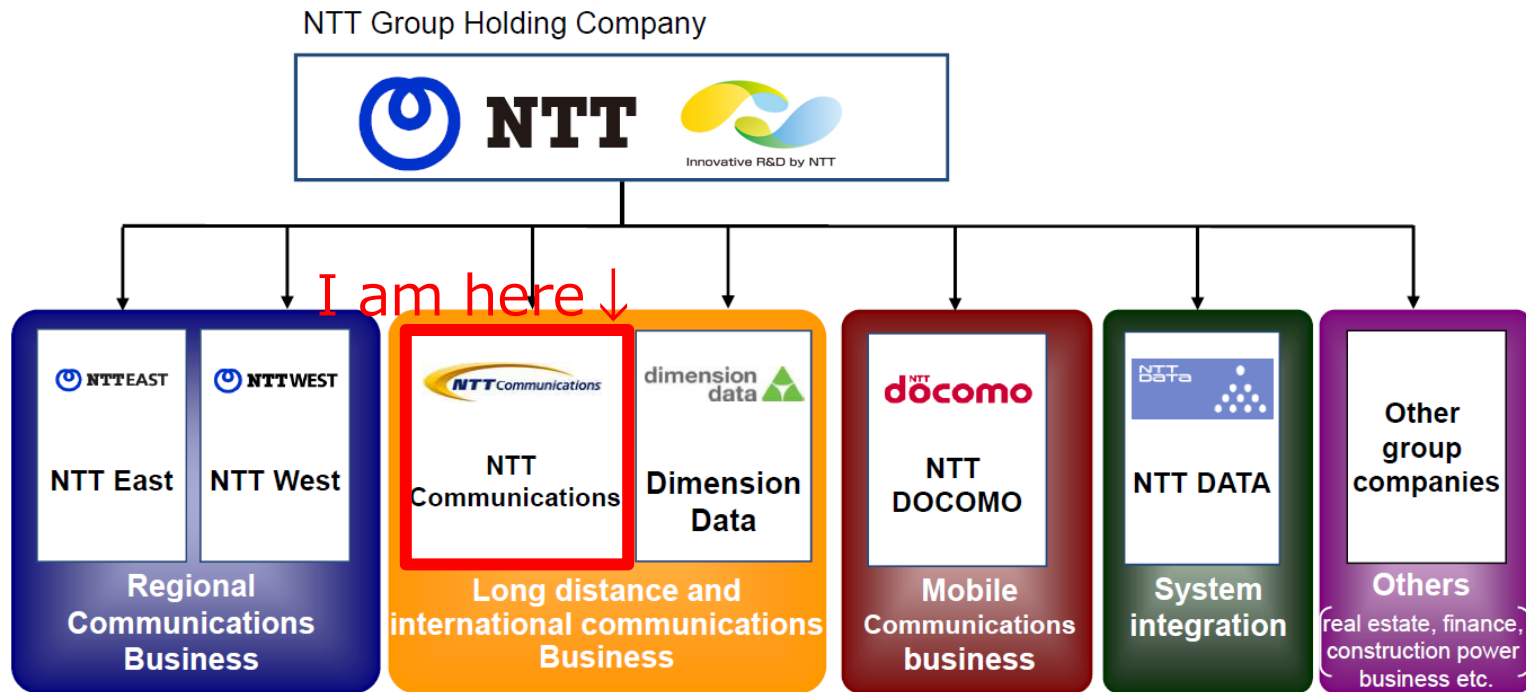
Director, NTT Communications

Board member of ONF

Board member of ONOS/CORD

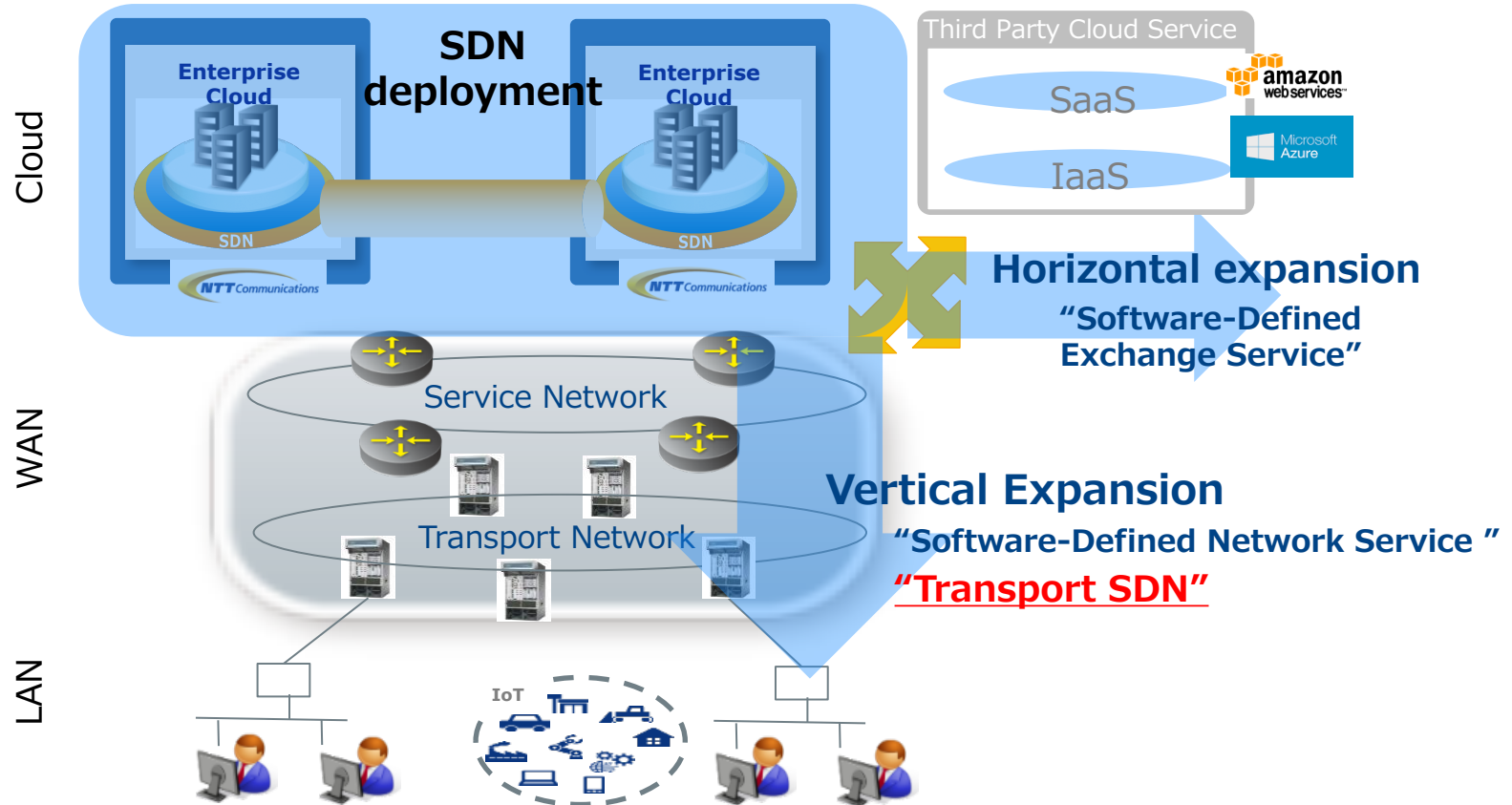
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# NTT Group Business Domains



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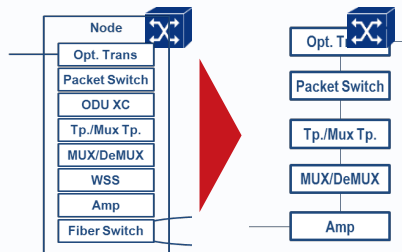
# SDN Deployment Expansion in NTT Communications



# Technical Challenges

## 1 Disaggregated devices

- Speeding up technical innovation
- Inventory optimization



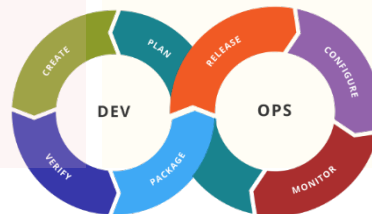
## 2 Open SDN Controller

- Customizability
- Faster time to market
- Interoperability
- CAPEX/OPEX reduction



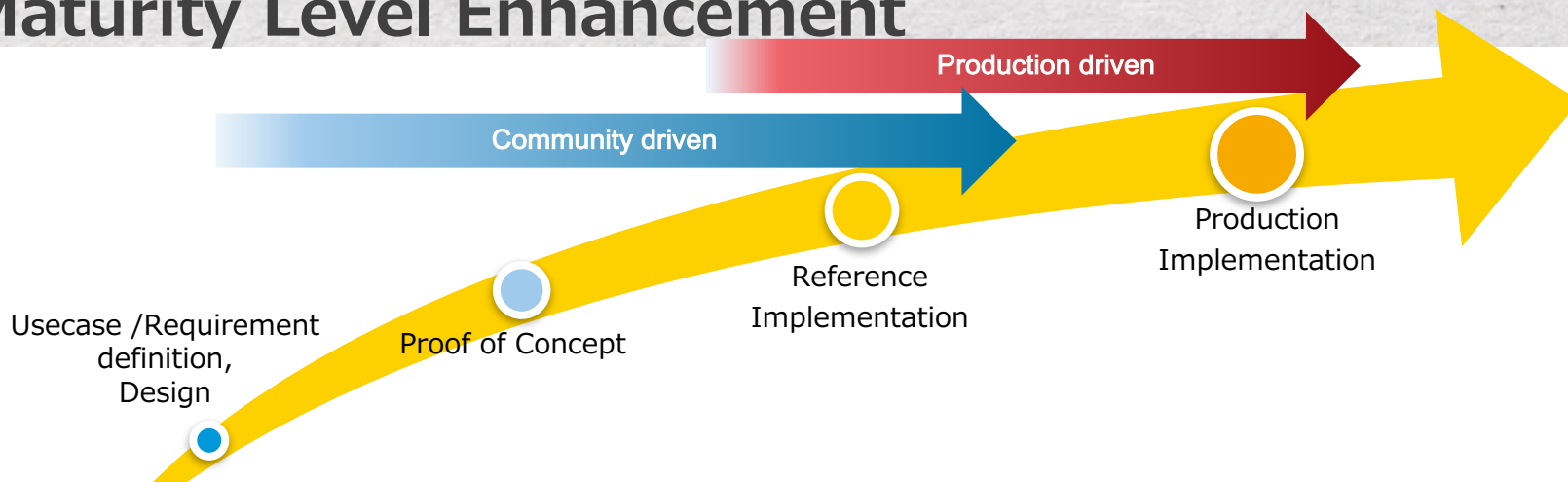
## 3 Value-added VNFs

- Fully and advanced automation & Visualization
  - Telemetry
  - AI / Deep learning



# Expectations for ONOS/CORD

## Maturity Level Enhancement



Requirement	PoC	Reference	Production
Easy installment, Documents		👍👍	👍👍👍
Functions	👍👍	👍👍	👍👍👍
Usability/Operability	👍	👍👍	👍👍👍
Performance/Scalability	👍	👍👍	👍👍👍
Quality/Availability	👍	👍	👍👍👍

Excellent 👍👍👍

Sufficient 👍👍

Minimum 👍

N/A



# Use Case Mappings

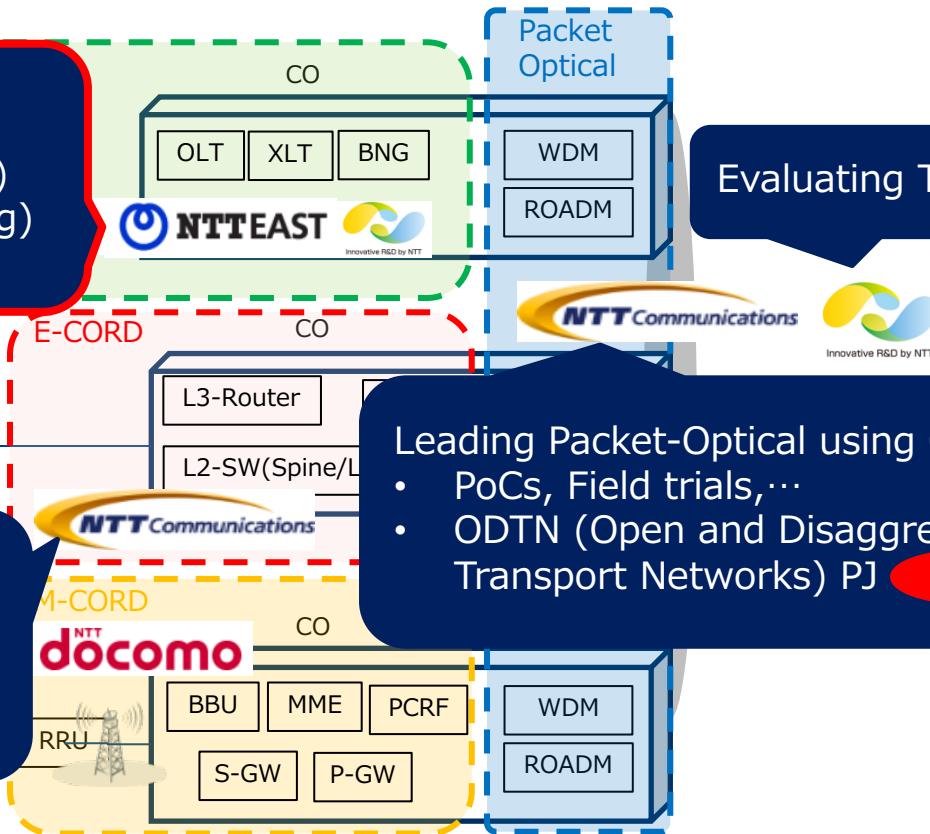
Leading R-CORD for NTT use cases

- PoCs (GE-PON-OLT, PPPoE, IPv6)
- Use Case (Edge Cloud Computing)

For  
Enterprise  
(Wired)

Evaluating CORD  
in Okinawa Open Laboratory

- Trellis
- E-CORD



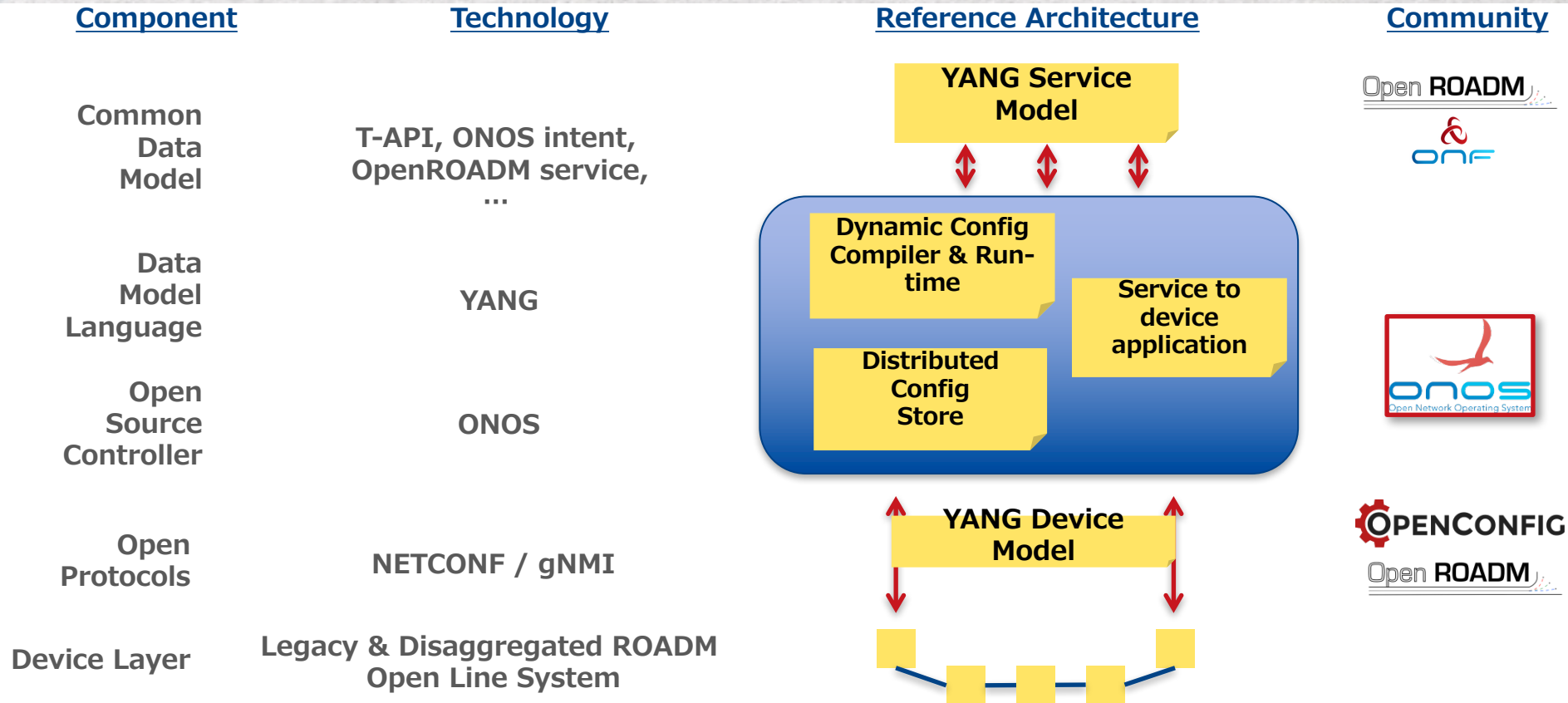
Evaluating Trellis

Leading Packet-Optical using ONOS

- PoCs, Field trials,...
- ODTN (Open and Disaggregated Transport Networks) PJ

New

# ODTN (Open and Disaggregated Transport Networks)



# Ref) CORD Evaluation at Okinawa Open Laboratory

## ■ Purpose

- Evaluate CORD from the perspective of production network deployment

## ■ Action Plan

- Step 1: Build and evaluate Trellis
- Step 2: Construct VNF Platform with E-CORD
- Step 3: Field trial at Okinawa
- Step 4: Install CORD into production network

Now we built Trellis environment and started testing several items for Trellis.

Details will be presented in E-CORD Track on Thursday:

*“Service Provider Experiences with E-CORD: NTT Communications & OOL”  
November 9 3:00pm– 3:30pm*