Okinawa Open Laboratory Direction of Operations
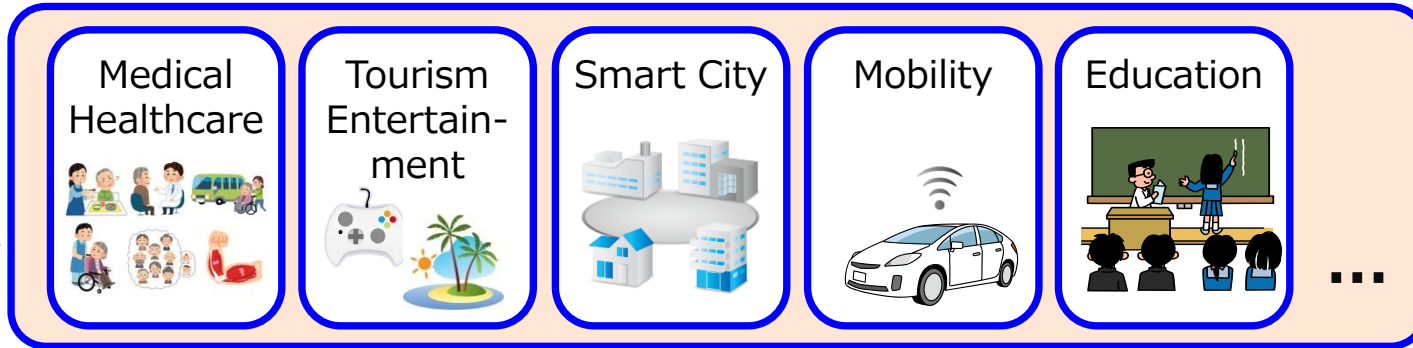
March 31st, 2017

Okinawa Open Laboratory

Trend of ICT Technologies and Their Usage Areas

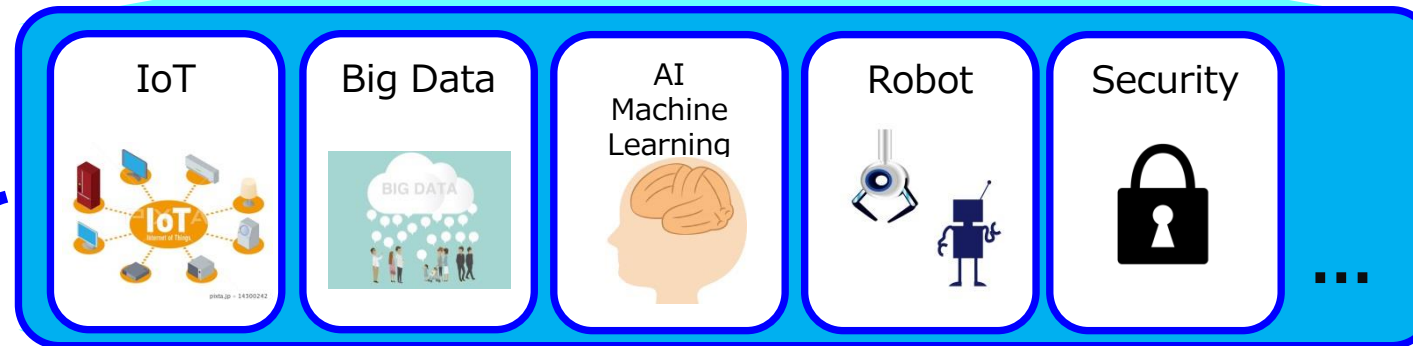# Advancement and Diversification of Technologies and Expansion of Usage Areas

Various
- **Application**
- **Usecase**
- **Solution**

Medical Healthcare	Tourism Entertainment	Smart City	Mobility	Education

...

Possibility to utilize Advanced ICT

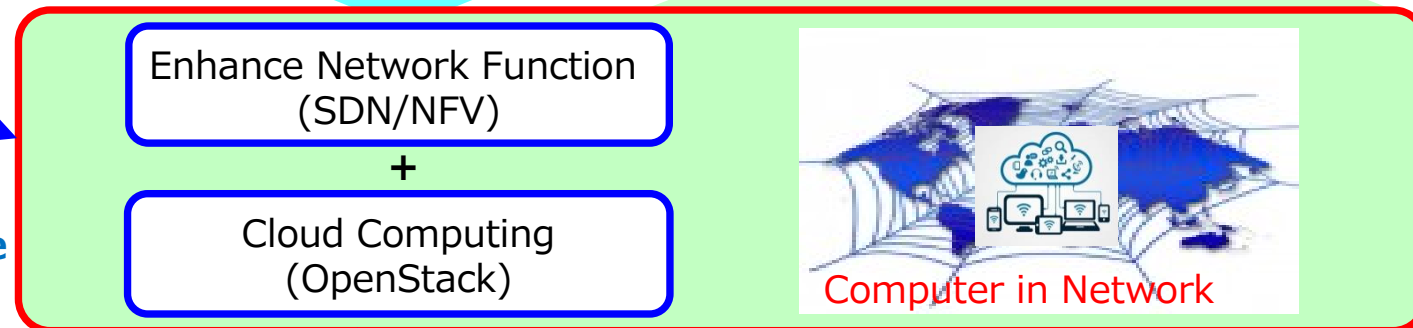Reduce limitation of distance and time, Expand possibility of human, Creation better life and entertainment

Advanced ICT

IoT	Big Data	AI Machine Learning	Robot	Security

BIG DATA

...

Need to transport huge data, computing resources
Enhance, flexiblize and automate functions to collect, store, process data

Expectation for ICT Infrastructure

ICT Infrastructure technology

Enhance Network Function (SDN/NFV)

+

Cloud Computing (OpenStack)

Computer in Network

to SDx

OOL's target area

Direction of OOL's Operations

Direction of R&D Activities

Tackle the following activities for further acceleration of practical application and dissemination of next generation ICT platform technologies

Various
- Application
- Usecase
- Solution

| Medical Healthcare | Tourism Entertain- | Smart City | Mobility | Education | ... |

Possibility to utilize

Reduce limitation of distance and time, Expand possibility of human, Creation better life and entertainment

Advanced ICT

| IoT | Big Data | AI Machine | Robot | Security | ... |

Need to transport huge data, computing resources
Enhance, flexiblize and automate functions to collect, store, process data

Expectation for ICT Infrastructure
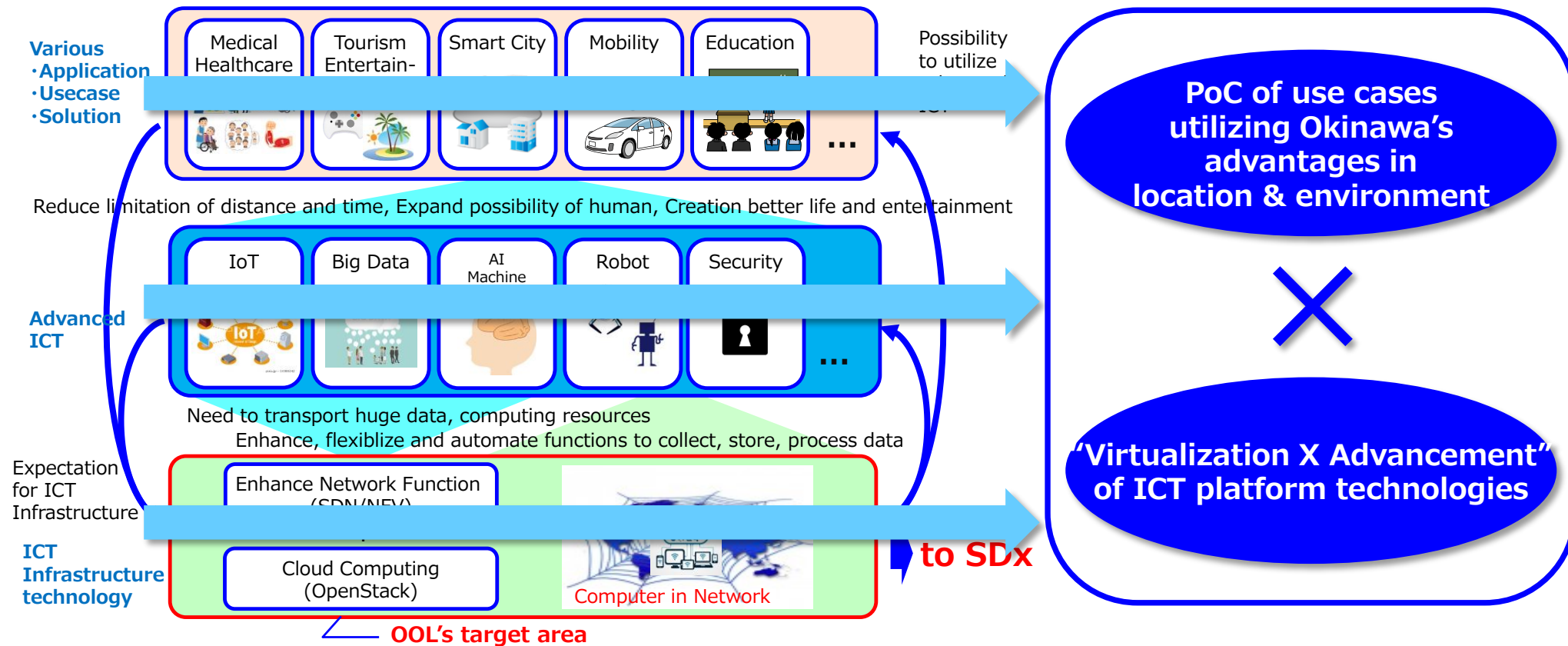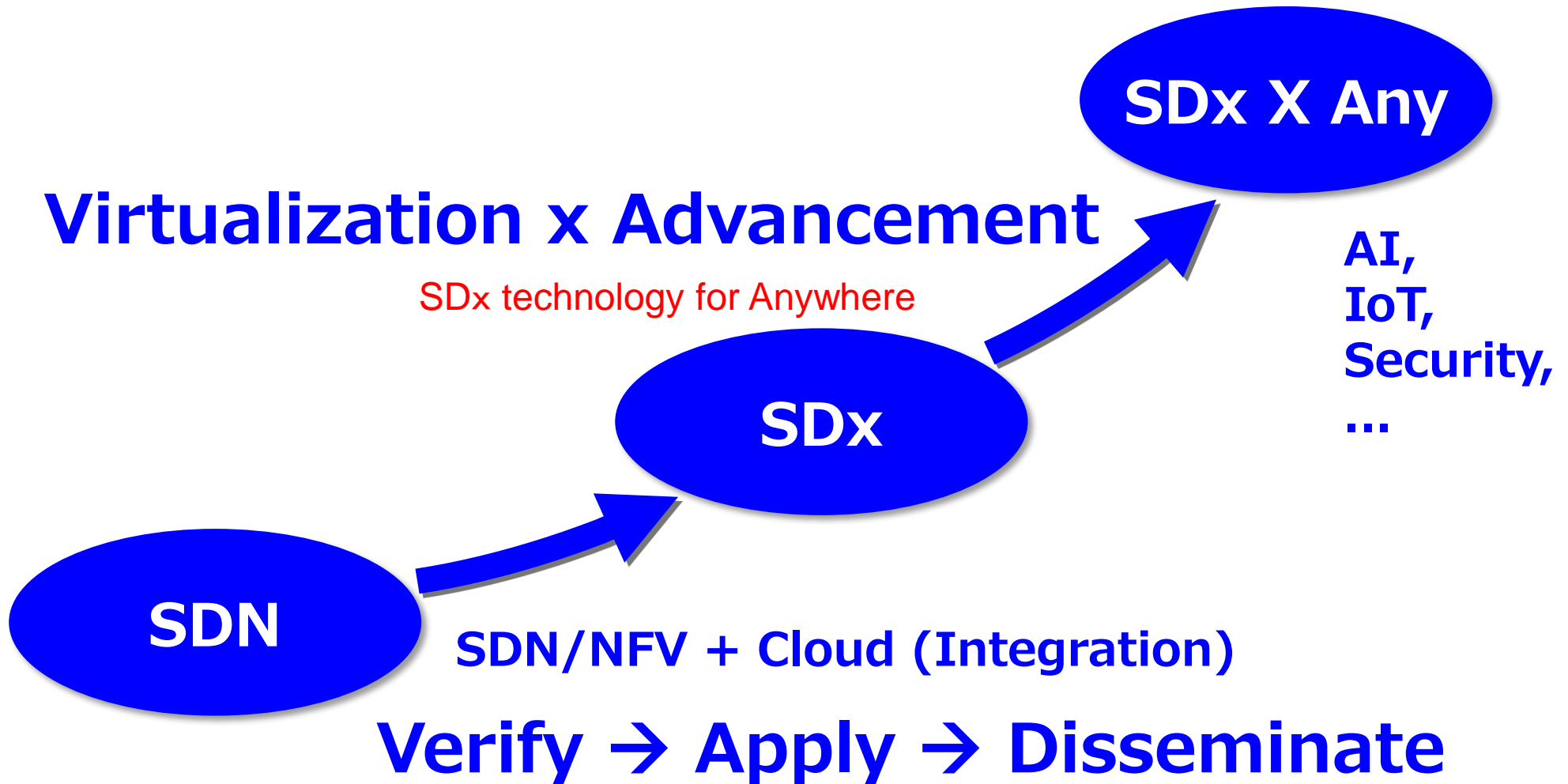
ICT Infrastructure technology

Enhance Network Function (SDN/NFV)

Cloud Computing (OpenStack)

Computer in Network

to SDx

OOL's target area

PoC of use cases utilizing Okinawa's advantages in location & environment

×

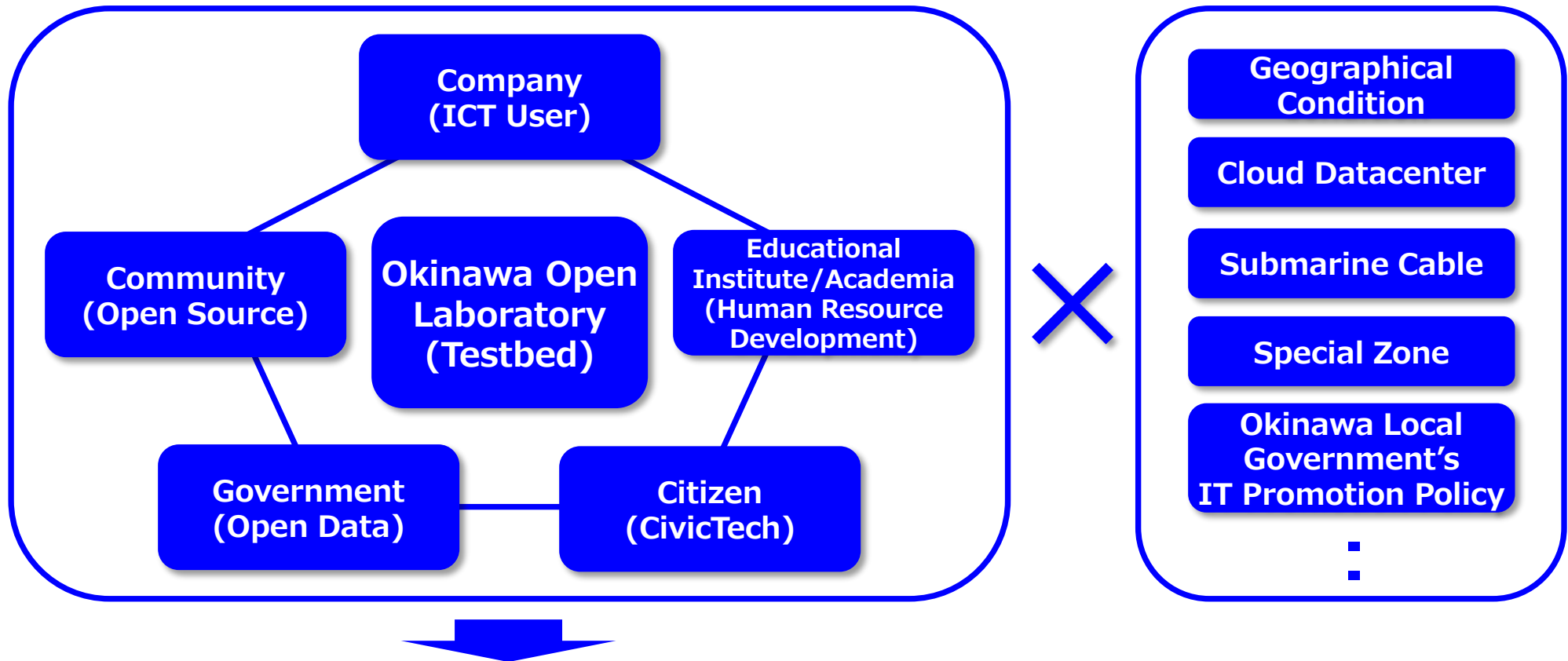**"Virtualization X Advancement" of ICT platform technologies**

Promotion of "Virtualization X Advancement"

Contribute to practical application and dissemination of ICT platform technologies by promoting virtualization and advancement and creating synergy between them

SDx X Any

Virtualization x Advancement

SDx technology for Anywhere

AI, IoT, Security, ...

SDx

SDN

SDN/NFV + Cloud (Integration)

Verify → Apply → Disseminate

Okinawa Open Laboratory

Promotion of PoC

Promote PoC utilizing Okinawa's advantages in location and Environment by collaboration with various people and organizations

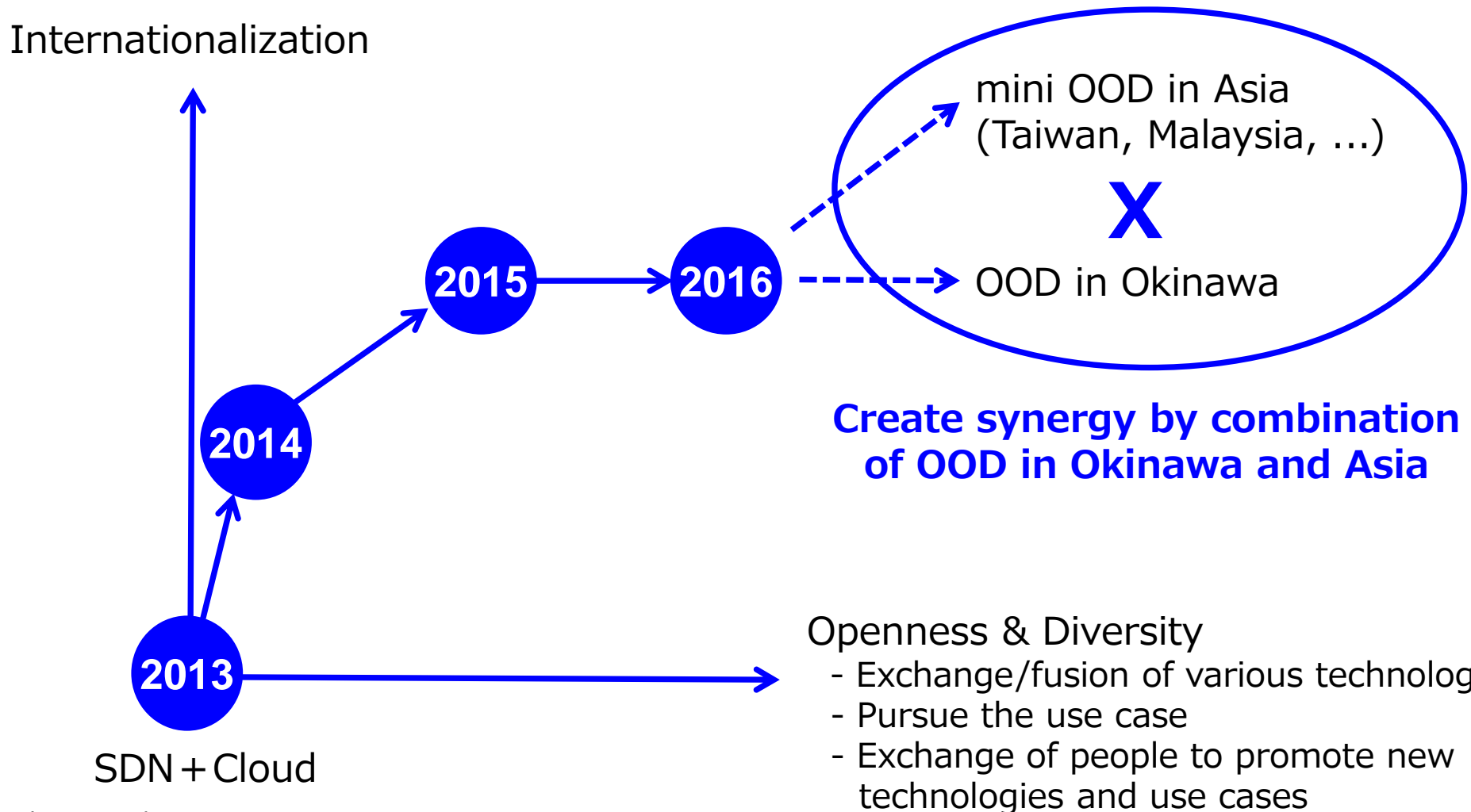Collaboration not only with members, but also with non-members as required

Direction of Human Resource Development Activities

Seek for more utilization of OOL's accumulated contents with considering future operations

- Consider to monetize the human resource development activities
  - Seek for possibility to provide OOL's contents to educational institute's programs with a fee
- Consider to collaborate with "the development program of next generation network engineers to support IoT platform" which is under discussion by the Ministry of Internal Affairs and Communications in Japan
- Promote the human resource development activities utilizing OOL's contents as an effective measure of international exchanges of technologies and human resources
  - Utilize and deploy the outcome of international exchange meetings in Malaysia in March 2017

Direction of International Conferences Activities

Try to enhance the value of OOD by creating synergy between OOD in Okinawa and mini OOD in Asia as a world unique place for international exchanges of technologies and people

Internationalization

2013
2014
2015
2016

mini OOD in Asia
(Taiwan, Malaysia, ...)
X
OOD in Okinawa

Create synergy by combination of OOD in Okinawa and Asia

SDN＋Cloud

Openness & Diversity
- Exchange/fusion of various technologies
- Pursue the use case
- Exchange of people to promote new technologies and use cases

International Exchange Activities

Establishing multi-layered relationship
with Malaysia following Taiwan,
various activities will be deployed after International Exchange
Meeting in Malaysia on March 7th - 8th 2017 as a trigger

Personal Exchange → Internship Program

**Joint Research → OF-Patch,
Network Test Automation, ...**

**Human Resource Development →
Dispatch Instructors, Share Contents, ...**

**Joint Event →
International Exchange Meeting**

END