

# **Overview of the ATC activities**

**2016 ISOE Asian ALARA Symposium  
7-9 Sept., Iwaki, Japan**

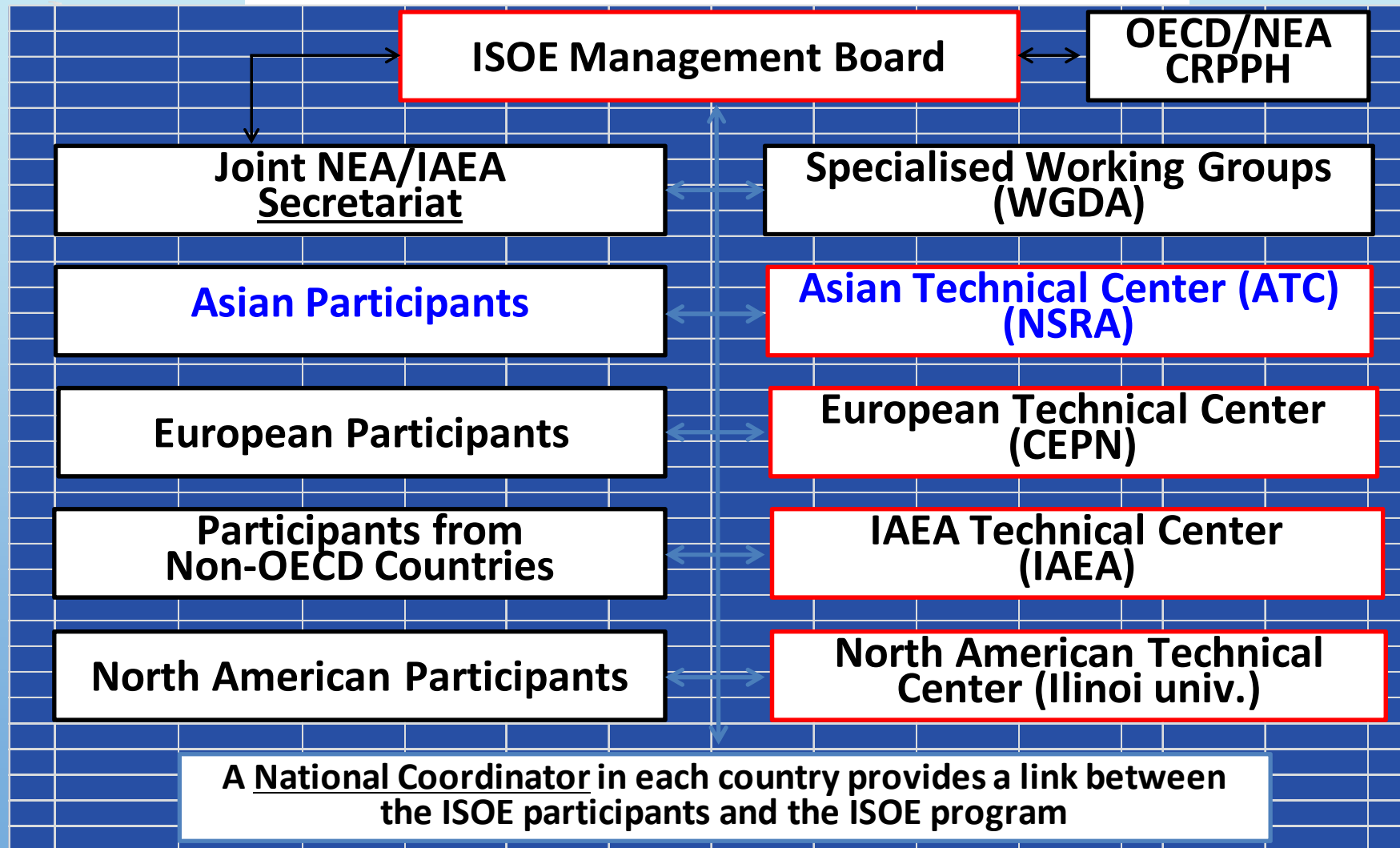
**Hiroko TEZUKA  
Nuclear Safety Research Association  
Japan**

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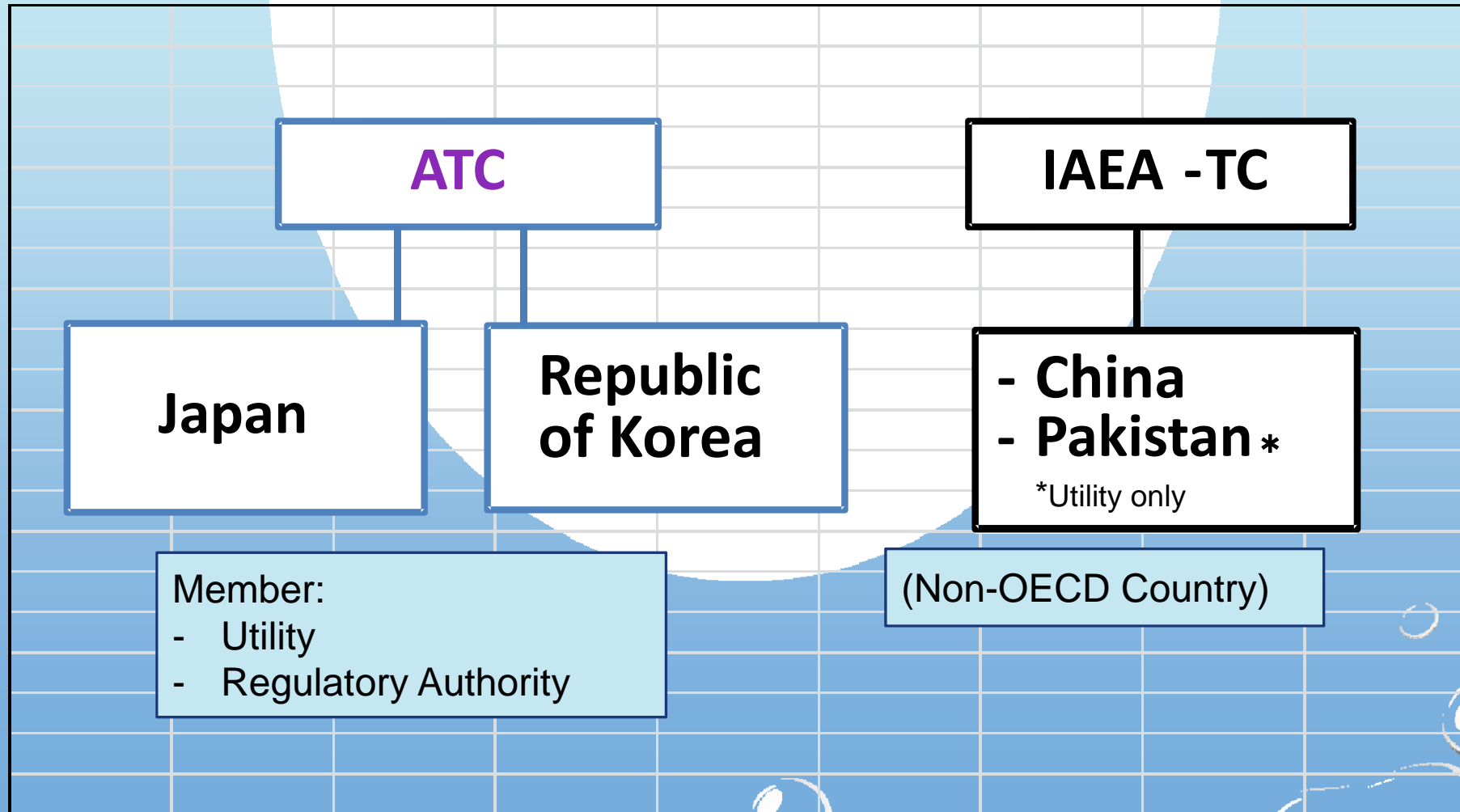
- 1. ISOE and the ATC**
- 2. ATC activities**
- 3. Towards the future on radiation protection**

# 1. ISOE and the ATC

# ISOE structure



# ISOE participants from Asia



# Establishment of the ATC and the history

- 1992 Jan. **Establishment** of the ISOE
- **1992 Apr.** **Establishment of the Asian Technical Center in NUPEC, Japan**
- 1996 **Republic of Korea** joined in the ATC
- 2014 the ATC placed in **NSRA**

# ATC Secretariat office

NSRA head office in Shimbashi, Tokyo



# NSRA offices

Kawauchi, Fukushima



Iwaki, Fukushima



Fukushima, Fukushima



Shimbashi, Tokyo



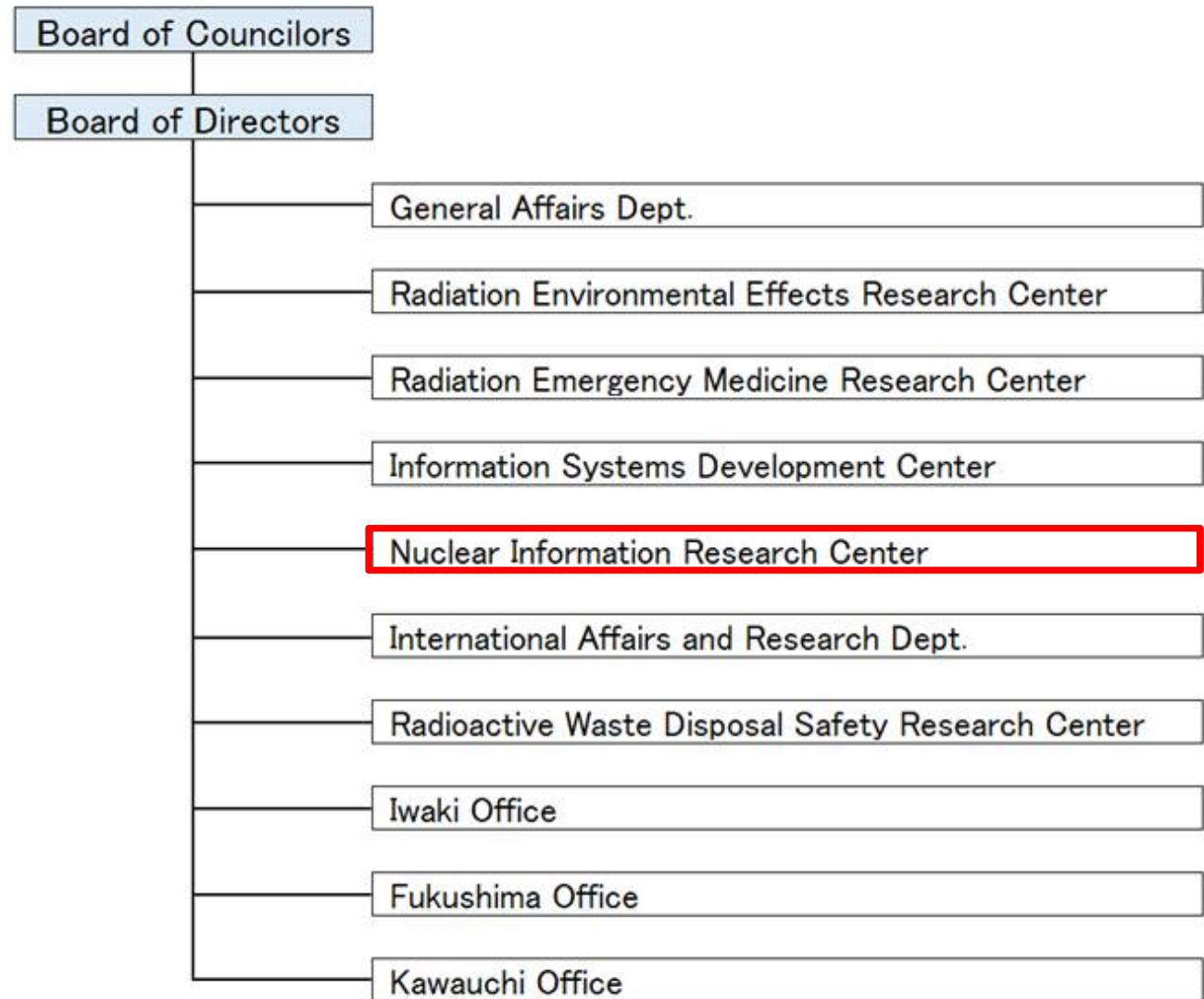


# Major activities and services in Nuclear Research Safety Association

Activities in various fields related to nuclear safety;

- Emergency preparedness
- Radiation emergency medicine  
(training, establishment of network in all of NPP sites, etc.)
- Radioactive waste disposal
- Radiation protection, radiation effects on human being
- IAEA safety standard
- Environmental effect
- ...

# Organization of NSRA



Chairman of  
the Board of  
Councilors :  
**G. YAGAWA**

President of  
the Board of  
Directors :  
**N. SUGIURA**

# Staff of the ATC secretariat

# National Coordinator in Korea

Mr. Kim Byeongsoo (KINS)

## 2. ATC Activities

- Management of ISOE database
- Management of and participation to ISOE activities
- Information exchange through ISOE network

# Management of ISOE database

- Control the Asian ISOE database
  - Request to fill out questionnaires to utilities
  - Validation of the data relevant to annual cumulative dose provided by utilities
  - Data modification at a utility's request

# Management of and participation in ISOE activities

- ISOE ALARA symposium in Asia
  - International symposium; 2 times by 2014
  - Asian symposium; 8 times by 2015
- Working group / task group meeting
- ATC meeting of Coordinating Group
  - 6 Sept 2016 at NSRA

# ATC national activities

## Japan

- Annual meeting with utilities and regulators: April 2016
  - ✓ Annual report of ATC activities
  - ✓ Information exchange on radiation protection

## Korea

● ■ ■ ■





# ISOE ALARA symposiums in Asia

- International symposium (2 times)
  - 2008 Tsuruga, Japan (visit FBR MONJU)
  - 2013 Tokyo, Japan (visit Fukushima #1 NPP)
- Asian symposium (8+1 times)
  - 2005 Hamaoka, Japan (visit Hamaoka NPP)
  - 2006 Yuzawa, Japan (visit Kashiwazaki-Kariwa NPP)
  - 2007 Seoul, Korea (visit Uljin NPP)
  - 2009 Aomori, Japan (visit Higashidori NPP)
  - 2010 Gyeongju, Korea (visit Wolsong & Shin-Wolsong NPPs)
  - 2012 Tokyo, Japan (visit Onagawa NPP)
  - 2014 Gyeongju, Korea (visit Shin-Wolsong NPP, LILW disposal site)
  - 2015 Tokyo, Japan (visit Rokkasho fuel recycle center)
  - **2016 Iwaki, Japan (visit Fukushima Daiichi NPP)**

# ISOE Asian ALARA symposium 2014 Gyeongju, Republic of Korea

- Date: 23-25 Sept. 2014
- Participants: 117 from 3 countries and ISOE secretariat (Japan, Republic of Korea, and USA)
- Speakers: 20
- Technical visit: Shin-Wolsong NPP, LILW Disposal Site
- Main topics: radiation management in NPP accidents, activities of exposure reduction
- The best paper awarded:  
Mr. Dong Ki Yun (KHNP, Korea),  
Mr. S.Takahira (TEPCO, Japan)



# 2015 International ALARA Symposium

## Grand Park Plaza, Tokyo, Japan (1/2)

- Date: 9-11 Sept. 2015
- Participants: 36 ( Finland, Japan, Korea, USA, OECD/NEA and IAEA)
- Speakers: 16
- Technical visit: Rokkasho Fuel Recycle Center (Aomori pref.)
- Main topics: Management of radiation protection, Decommissioning and rad. waste, Radiation measurement and analysis



# 2015 International ALARA Symposium

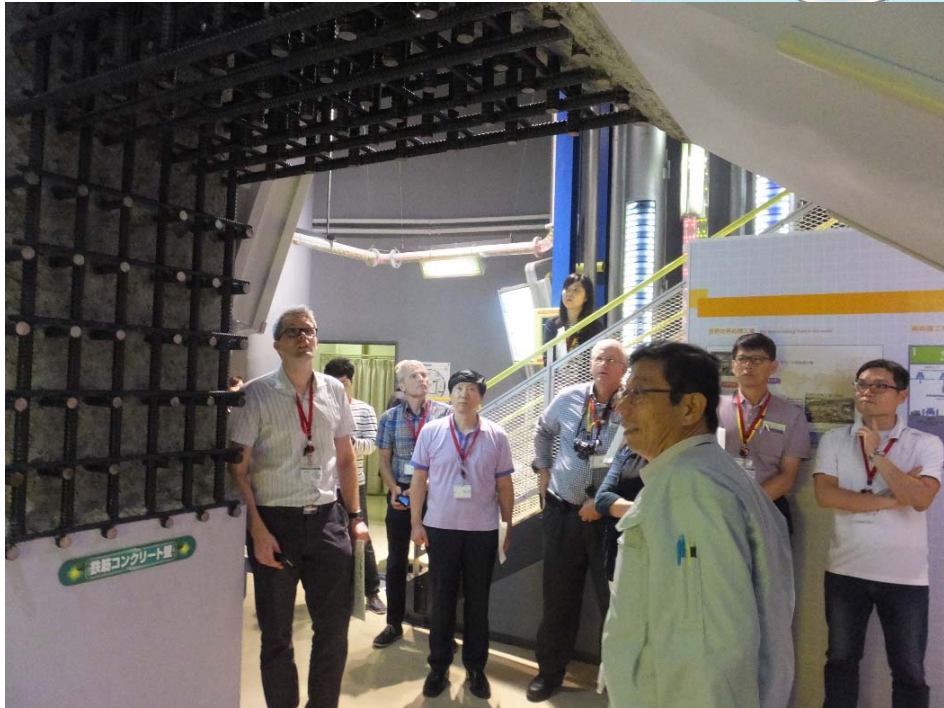
## Grand Park Plaza, Tokyo, Japan (2/2)

- The best paper awarded:
  - Mr. Nishida (TEPCO, Japan)  
“Improvement of the Labor Environment at Fukushima Daiichi Nuclear Station”
  - Mr. Dong-ug Kim (KHNP, Korea)  
“Development of IDIS(Integrated Drain Information System) for reducing Radiation Exposure”





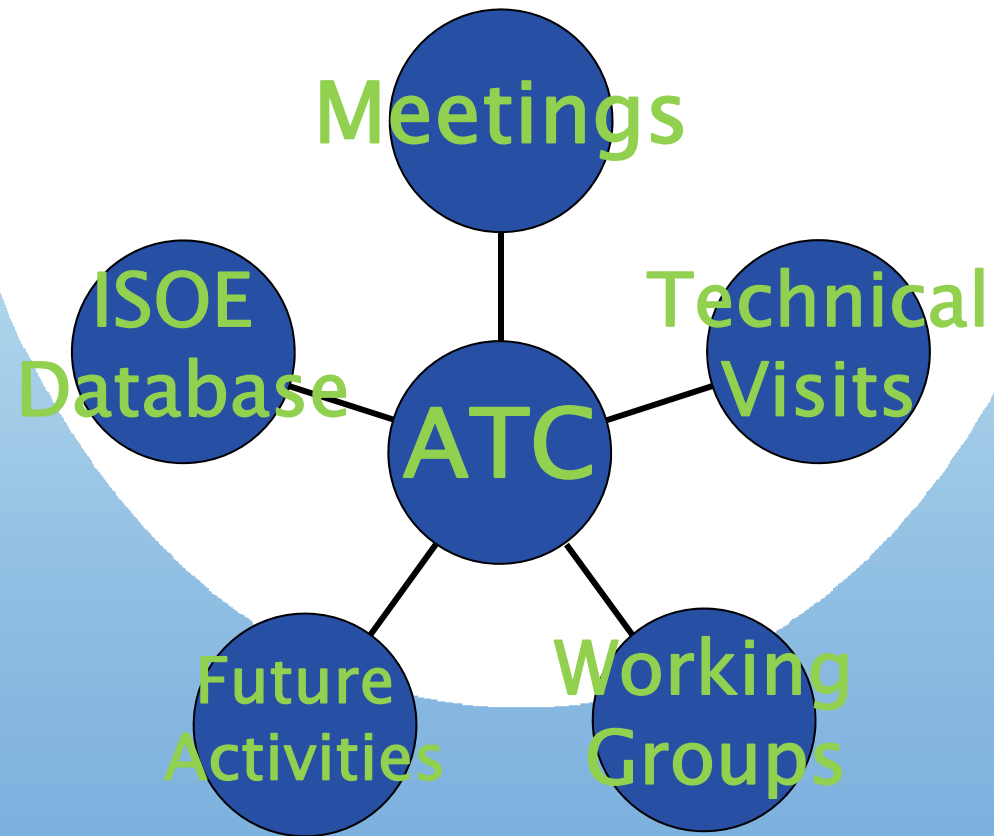
Tohoku Shinkansen; Hayabusa



Lunch; Sushi, Tempura...



# ISOE information exchange



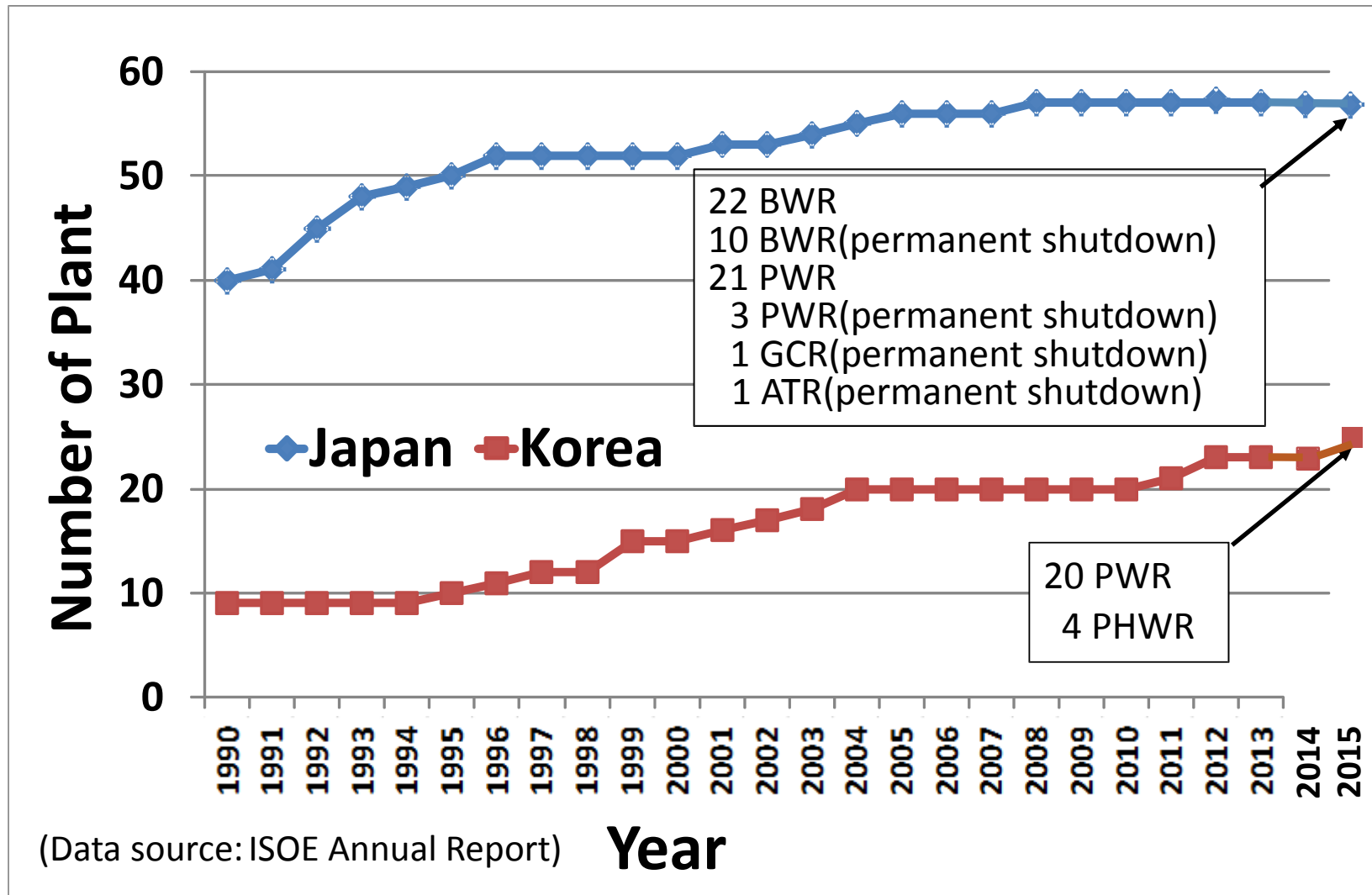
### **3. Towards the future on radiation protection**

- Trends of average individual/collective dose
- Towards the future for further dose reduction

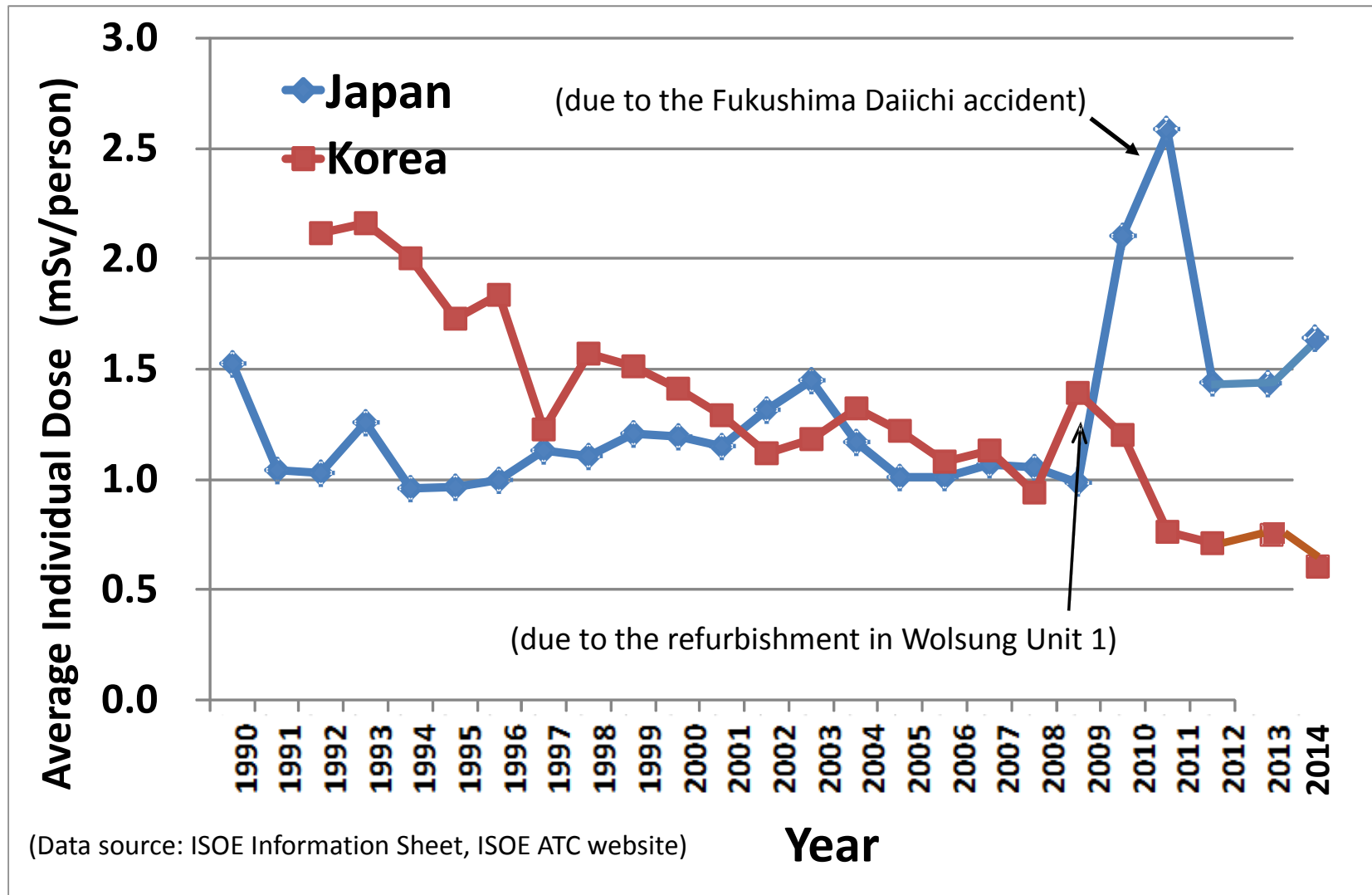


# Trend of Number of Reactors

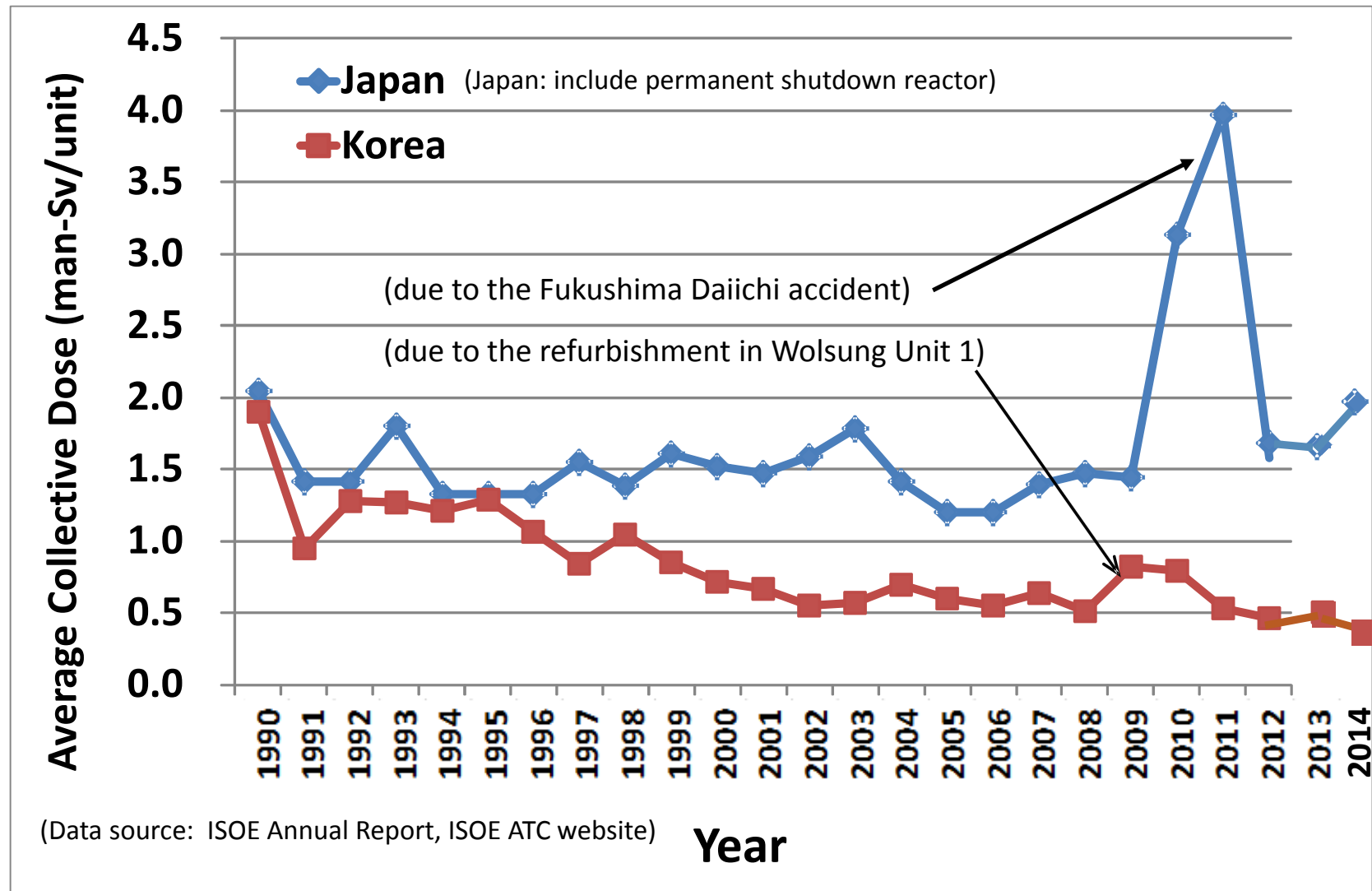
(as of 31 Dec. 2015)



# Trend of Average Individual Dose



# Trend of Average Collective Dose



# Towards the future...

- For further dose reduction -

- Radiation safety
  - Big contribution of human beings awareness

Importance of continuous efforts on:

- **Education** of radiation protection;
- **Training** for emergency;
- **Information exchange** among relevant through e.g. ISOE network

These bring large contribution to the radiation safety i.e. further dose reduction with low cost compare to the cost for the safety of structures, systems and components in NPPs.



Thank you for your attention

