

# Activities of the Integrated Support Center for Nuclear Non-Proliferation and Nuclear Security (ISCN)

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Center of Excellence Working Group

# Background of the Establishment

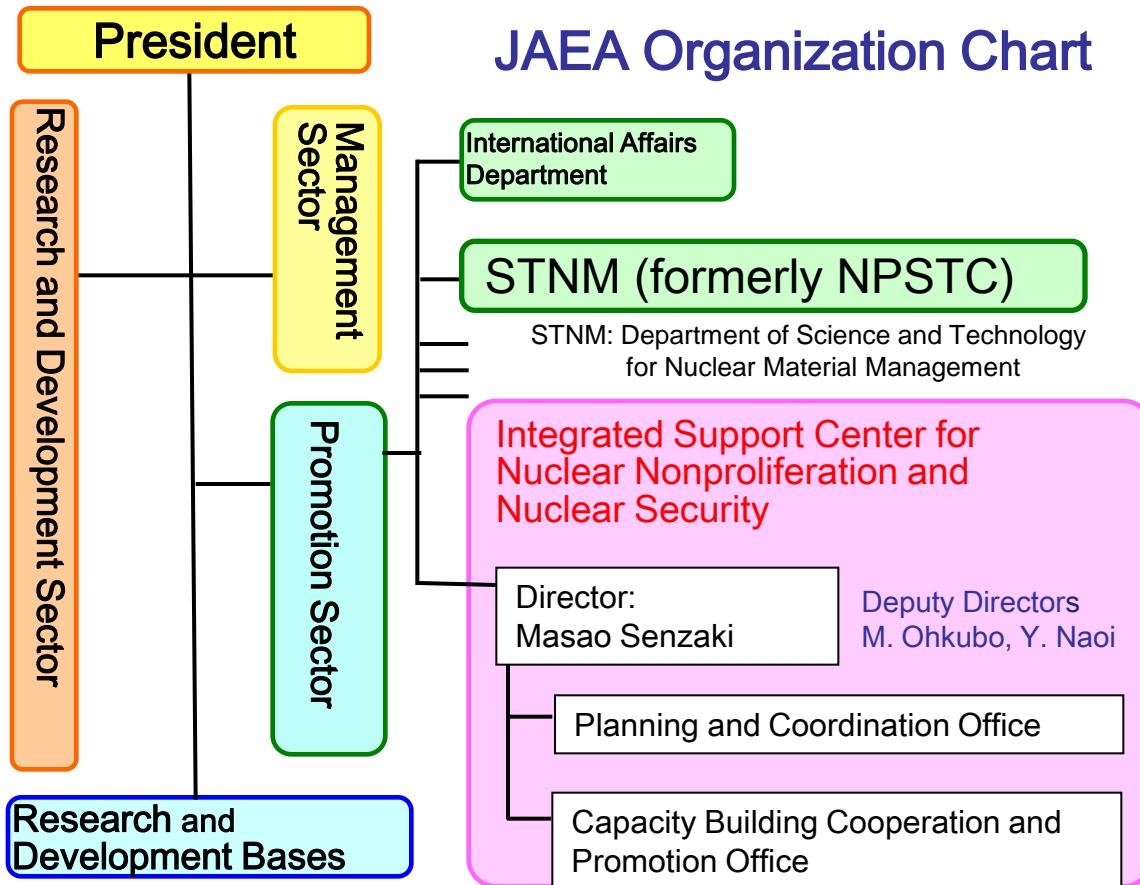
## Japan's National Statement at the Washington Nuclear Security Summit (Excerpts)

“Japan will this year establish a regional center for the strengthening of nuclear security, tentatively named the ”Integrated Comprehensive Support Center for Nuclear Non-Proliferation and Nuclear Security for Asia“ under the Japan Atomic Energy Agency (JAEA), with the aim of institutionalizing support for nuclear security on a permanent basis and contributing to strengthened nuclear security in Asia and other regions...”



# Establishment of the Integrated Support Center for Nuclear Non-proliferation and Nuclear Security

The “Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN)” was established in JAEA on December 27, 2010 at Tokai.



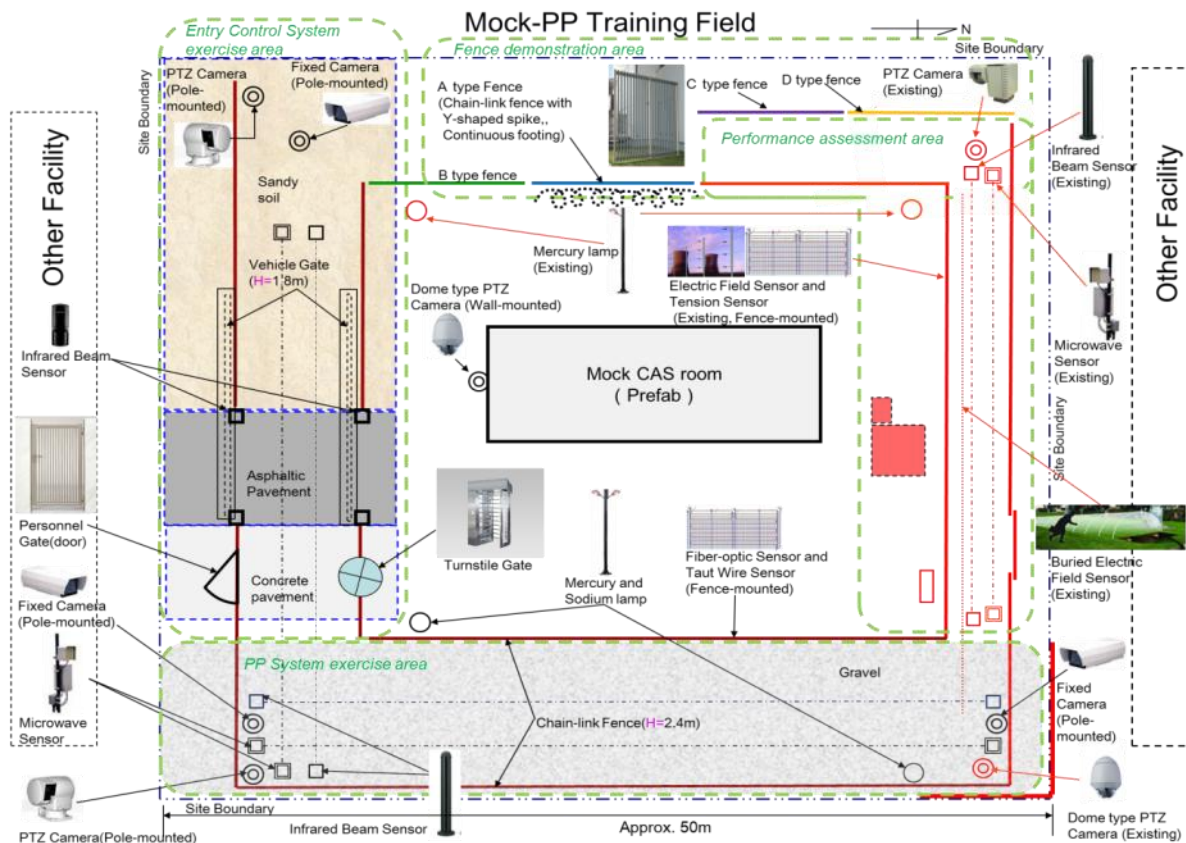
# Main Activities

**Making use of Japan's knowledge and experiences in peaceful uses of nuclear energy, the Center will conduct the following three main activities to contribute to strengthening nuclear non-proliferation and security mainly in Asian nuclear emerging countries.**

- ◆ Support capacity building in Asian countries through programs on human resource and institutional infrastructure development
- ◆ Fortify nuclear security culture through providing relevant information to the international community
- ◆ Strengthen nuclear nonproliferation and nuclear security internationally through the development of technologies for the measurement and detection of nuclear material

# Training Field for Physical Protection System

- Enhance effectiveness of training by providing physical protection elements and equipment **used in real nuclear facilities**, and facilitate understanding of materials
- Provide **hands-on exercises** using actual fences, sensors, cameras, or lightings

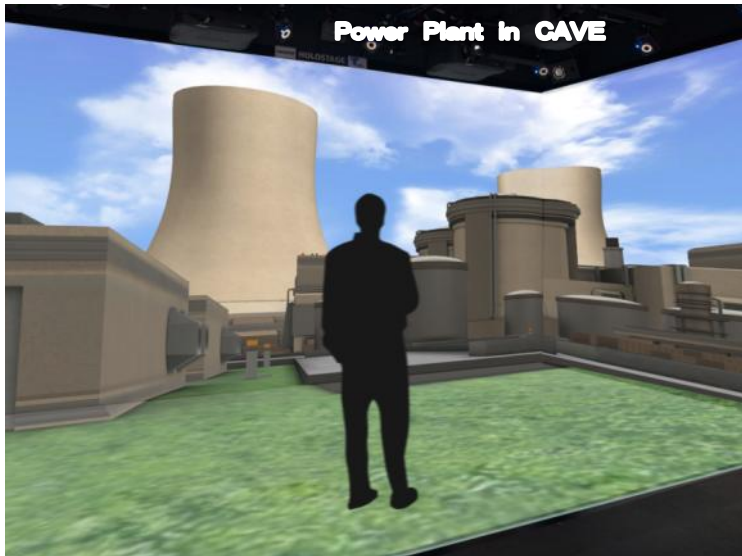


- (1) PP System exercise area
- (2) Entry Control System exercise area
- (3) Fence demonstration area
- (4) Performance assessment area
- (5) Mock CAS (central alarm station) room

Planned completion: March 2012

# Virtual Reality Training System (Plan) -Visual Training Environment for Nuclear Security -

- **Enhance effectiveness** of the training – difficult to conduct nuclear security trainings using **real nuclear facilities**
- Provide practical training environment for **experience-oriented** and **interactive** lessons on nuclear security through the **virtual experience** of **observing inside/outside a nuclear facility**



- ISCN is installing a large-scale display (CAVE system) virtual reality (VR) training facility (planned completion March 2012).

# International Collaboration

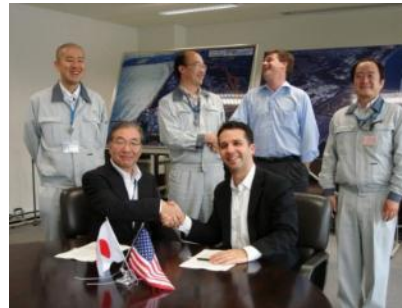
## Bilateral Cooperation

### United States: DOE/NNSA, National Laboratories

- Human resource development, technological development for nuclear nonproliferation, nuclear security and safeguards
- Agreements for cooperation between JAEA and DOE

### Asia:

- Memorandum for cooperation between JAEA and VARANS (Vietnam Agency for Radiation and Nuclear Safety) on infrastructure development



JAEA-DOE Cooperation



Working closely with Sandia National Laboratories (SNL) for Training Course development

## International/ Regional Organizations

### IAEA

- Collaboration on nuclear security and safeguards training

### European Commission (EC) / Joint Research Center (JRC)

- Human resource development and technological development for nuclear nonproliferation, nuclear security and safeguards

### World Institute for Nuclear Security (WINS)

- Joint workshop on nuclear security management

## Multilateral Cooperation

### Forum for Nuclear Cooperation in Asia (FNCA)

- 12 Member States
- Projects on nuclear security and safeguards from 2011
- Exchange of knowledge and information on nuclear security and safeguards

### Asia-Pacific Safeguards Network (APSN)

- 14 Member States and IAEA
- improving quality, effectiveness, efficiency of safeguards implementation in the Asia-Pacific region

**Thank you for your attention.**



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