



# **Instrument for Nuclear Safety Cooperation (INSC)**

**Meeting with BAPETEN**

**17 February 2015**

**European Commission**

**Directorate-general for Development and Cooperation - EuropeAid**

# INSC & IcSP



**DEVCO  
B5**



**Instrument for  
Nuclear safety  
Cooperation**



**Instrument for  
Stability**



## Chronology

- 21 April 1986 : Chernobyl Accident
- 1989: launch of the PHARE Programme (Poland Hungary Aid for the Reconstruction of the Economy)
- 25 December 1991: dissolution of the USSR
- 1991: launch of TACIS (Technical Assistance to the Commonwealth of Independent States)
- 2007-2013 Extension of NS cooperation under INSC
- 2007-2013 IfS and **CoE Initiative**
- 2011 FUKUSHIMA DAIICHI
- 2014-2020 Continuation of NS cooperation under new INSC

# Objectives

1. Promotion of an effective nuclear safety culture and implementation of the highest nuclear safety and radiation protection standards, and continuous improvement of nuclear safety;
2. Responsible and safe management of spent fuel and radioactive waste, namely transport, pre-treatment, treatment, processing, storage and disposal, and the decommissioning and remediation of former nuclear sites and installations;
3. Establishment of frameworks and methodologies for the application of efficient and effective safeguards for nuclear material in third countries.

# Technical Assistance to the Commonwealth of Independent States Nuclear Safety 1991-2006



**First phase 1991 – 1998** : Tacis: Urgent measures, including Nuclear Power Plant (NPP) design safety and operational safety for CEEC and CIS countries.

**€ 1.260 Million**

**Second Phase 1999 – 2006** : Tacis : Continuation of design safety and operational safety actions, strong support to the regulator, increased waste management focus, recovery of the Chernobyl site and development of international cooperation.

**Third Phase 2007 – 2013** : INSC Nuclear safety cooperation extended to 'third countries'

(countries outside the European Union)

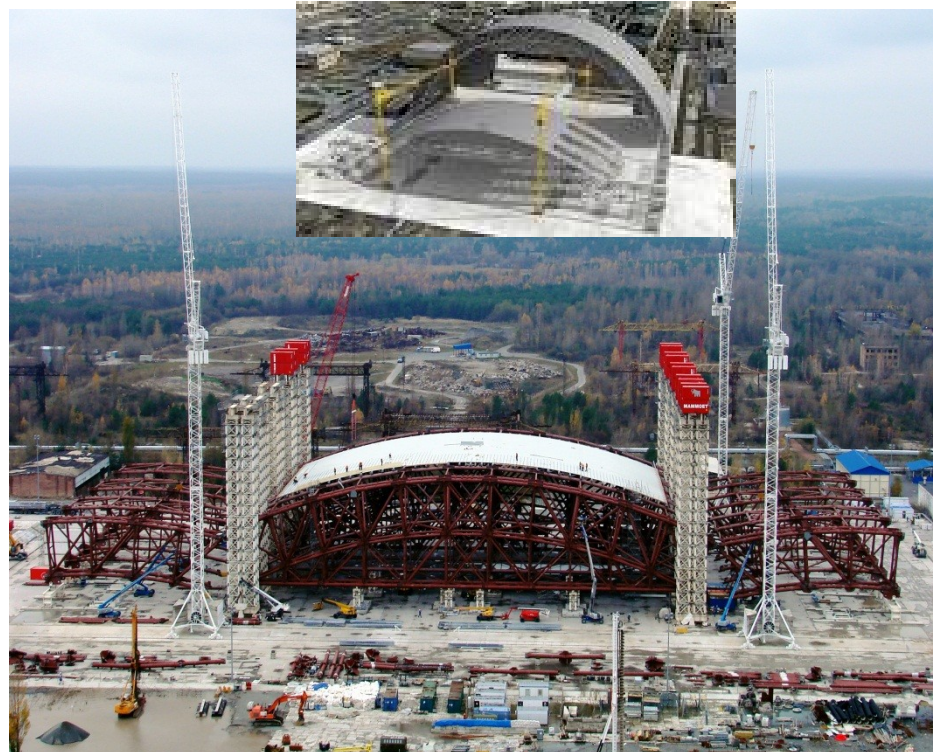
**€524 million**

# Some project examples – TACIS/INSC I

TACIS-INSC contribution to  
Chernobyl

New Shelter **€360 million**

Spent Fuel Storage Facility  
**€40 million**



## Some project examples 2007/2012

### Ukrainian National Training Centre for Management and Maintenance Personnel

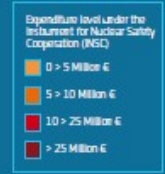
#### **Safety FIRST Training Center**

- ✓ One 1:1 NPP (without fuel) for training on full scale model.
- ✓ All NPP maintenance personnel of all 15 reactors in Ukraine
- ✓ All management personnel of Energoatom from top to floor management

**€ 14 Million**



# EU Nuclear Safety Cooperation 2007-2013



MEXICO

ARGENTINA

BRAZIL

**Safeguards Cooperation**  
 Strengthening safeguards capabilities and enhancing nuclear material accountability in related nuclear fuel cycle facilities

MOROCCO

EGYPT

JORDAN

ARMENIA

GEORGIA

UKRAINE

BELARUS

Smolensk  
 Moscow

**Chernobyl Shelter Fund**  
 Transforming Chernobyl's destroyed unit 4 to a stable and environmentally safe state

**Nuclear Waste Treatment**  
 Development of remediation plans and urgent actions for uranium legacy sites

MONGOLIA

Beijing

RUSSIAN FEDERATION

UZBEKISTAN  
 KYRGYZSTAN  
 TAJIKISTAN

CHINA

**Emergency Preparedness**  
 Enhancing the regional emergency preparedness and response system

THAILAND  
 VIETNAM  
 MALAYSIA  
 SINGAPORE  
 PHILIPPINES  
 INDONESIA

**Regulatory Support**  
 Enhancing the capacity and effectiveness of the regulatory body



# INSC 2014-2020: Strategy

Promotion of an  
effective nuclear  
safety culture

50%

Responsible and  
safe management of  
spent fuel and  
radioactive waste

35%

Safeguards

10%

**Budget: EUR 225 million**

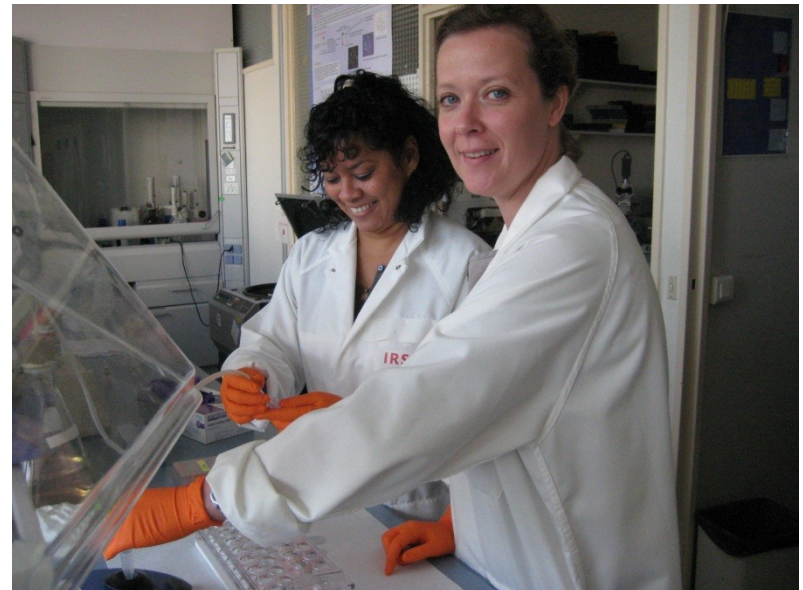
# Training & Tutoring

## TRAINING & TUTORING of Nuclear Regulator's and their Technical Support Organisations

€ 12 million

### Capacity building in Countries willing to start a nuclear energy programme

- ✓ Basic training of RA and TSO staff (classroom training, practical laboratory training, on-site, etc.)
- ✓ Tutoring of experienced staff by senior TSO expert (up to 6 months)



# Support to Regulatory Authorities

- ✓ Indonesia
- ✓ Thailand
- ✓ The Philippines
- ✓ Vietnam
  
- ✓ Malaysia cancelled (Financing Agreement)



# Regional Project on EPR in SEA

*The action targets the South East Asia region in the aftermath of the Fukushima accident and will fund a regional feasibility study to assess and enhance the emergency preparedness and response provisions within the ASEAN member states.*

- ✓ Indonesia
- ✓ Thailand
- ✓ The Philippines
- ✓ Vietnam
- ✓ Malaysia
- ✓ Singapore

Kick off Meeting August 2014



