



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

## **Nuclear Safety Forum Ankara**

**12 November 2019**

**European Commission**

**Directorate-General for International Cooperation and Development -  
EuropeAid**

**Ghislain Pascal**

# ***CONTENT***

**Most recent developments in European Regulatory Framework regarding nuclear safety, radioactive waste management and Basic Safety Standards**

**The EU action outside of Europe in the field – The Instrument for Nuclear Safety Cooperation (INSC)**

**Current INSC Project ongoing in Turkey TR3.01-16**

**Future of INSC**

## Reinforced Euratom legal framework

1957

**Directive 2009/71/Euratom**  
[Nuclear Safety of nuclear installations](#)

**Directive 2011/70/Euratom**  
[Spent Fuel and Waste Management](#)

**Directive 2013/51/Euratom**  
[Euratom Drinking Water Directive](#)

**Directive 2013/59/Euratom**  
[Basic Safety Standards](#)

**Directive 2014/87/Euratom**  
[amending Directive 2009/71/Euratom](#)

2009

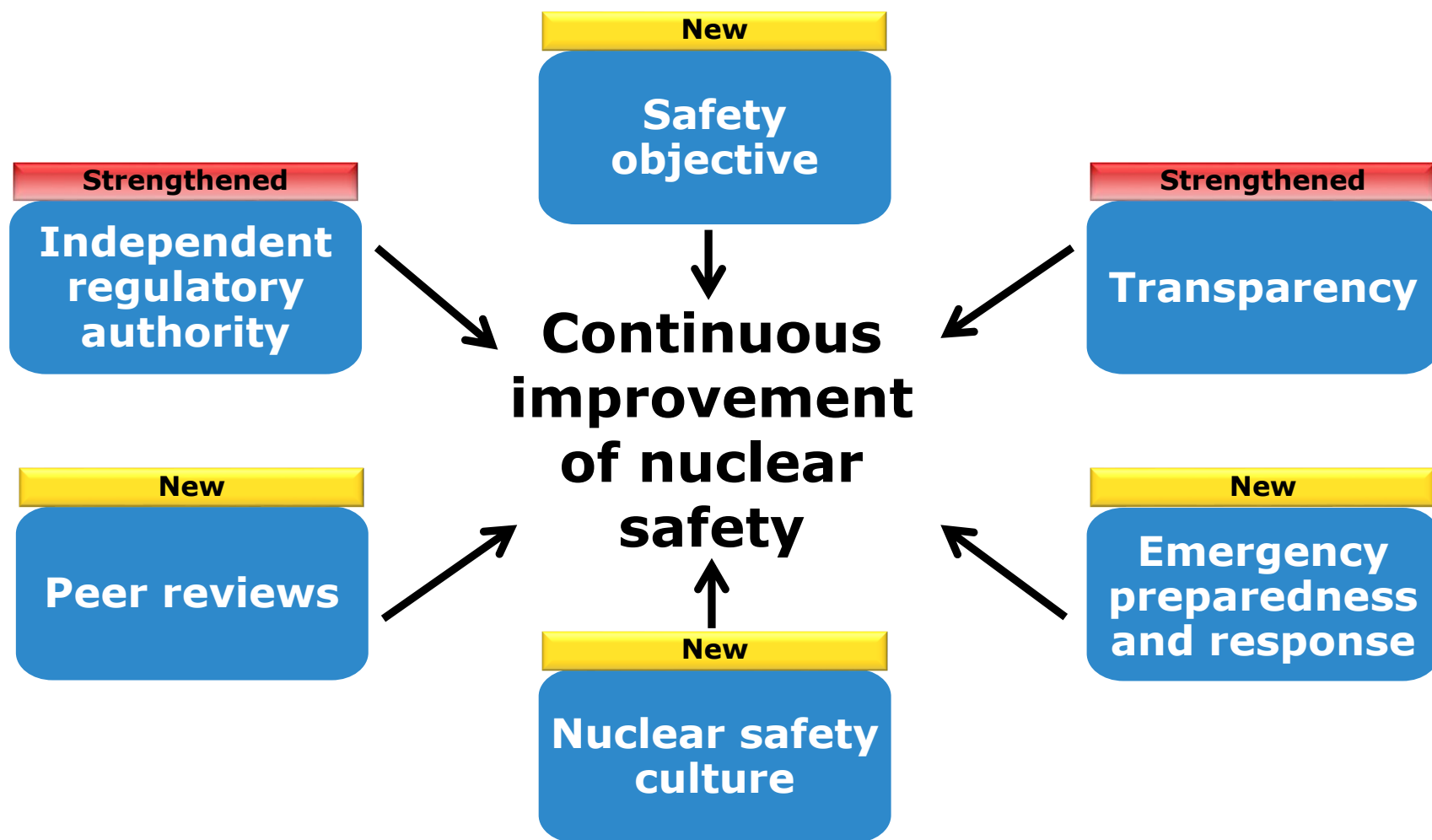
2011

2013

2014

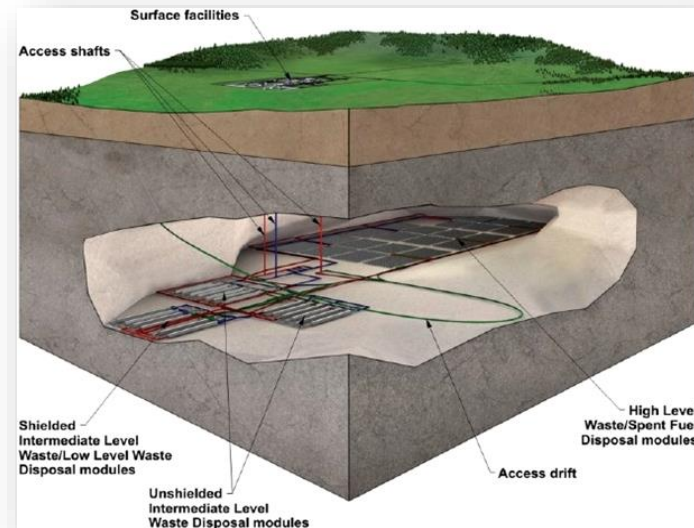
2018

## Nuclear Safety Directive 2014



## Radioactive Waste Directive

- *Legally binding and enforceable standards for managing radioactive waste and spent fuel*
- *By August 2015: National programmes*
- *Strict control of exports of spent fuel and radioactive waste (outside EU)*





## Euratom basic safety standards

Justification

Dose Limits

Optimisation

Protection of  
**workers,**  
members of the  
**public and**  
**patients**

Regulatory  
Control

Emergency  
preparedness  
and response

Education and  
Training

Other  
requirements

# Outside the EU



## EU Nuclear Safety Projects (outside the EU)

1991 – 2006



TACIS  
1.260 Million

2007 – 2013



INSC I  
524 Million

2014 – 2020



INSC II  
325 Million

2021 – 2027



EINS (Proposal)

## INSC 2014-2020

**Promotion of  
an effective  
nuclear safety  
culture**

40%

**Responsible and  
safe management  
of spent fuel and  
radioactive waste**

45%

**Safeguards**

10%

**Support  
Measures**

5%



## Instrument for Nuclear Safety Cooperation

***The INSC is a financial instrument of the EC, operated by DG DEVCO to finance projects***

- ❖ Promoting a **high level of nuclear safety** and radiation protection, including the safe management of radioactive waste and remediation of contaminated legacy sites
- ❖ Promoting **efficient safeguards** of nuclear materials
- ❖ Providing **training & tutoring services** in a wide variety of topical areas related to nuclear and radiation safety

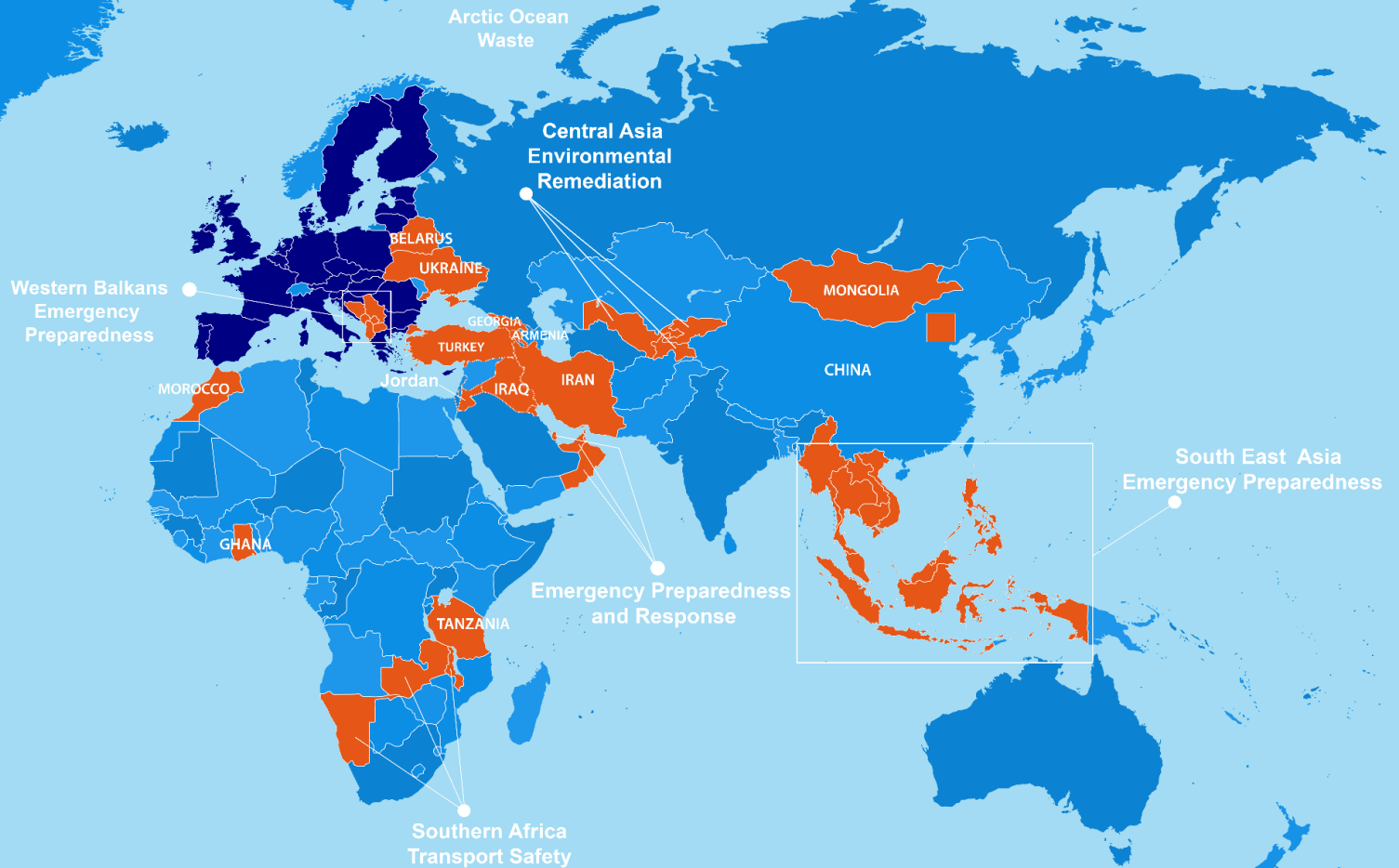
### ***INSC geographical coverage***

- ❖ INSC support is open to any eligible country
- ❖ It focuses on EU candidate and neighbourhood countries





## Geographical scope of our activities

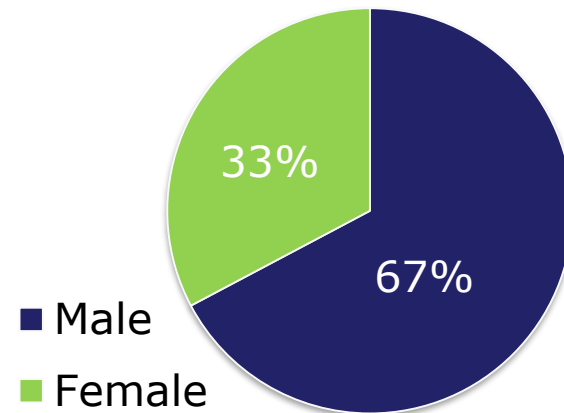


## Success Stories – Training & Tutoring

- Over 2000 staff trained



**Trainees by gender**





## Success Stories - INSC activities in embarking countries

- The INSC provides support to embarking countries and their Regulatory Authorities.
- Embarking countries need to build technical and regulatory capacities to guarantee safe licensing, commissioning and operation of nuclear facilities according to the highest international safety standards.
- Cooperation with embarking countries is also implemented through the Regulatory Cooperation Forum, which is open to all IAEA Member States.



<b>Project Title</b>	<b>SUPPORT TO THE REGULATORY AUTHORITY OF TURKEY</b>
<b>Project Code</b>	TR3.01/16
<b>Contract No.</b>	2017/385-332
<b>Contracting authority</b>	European Commission / DEVCO
<b>Contractor</b>	RISKAUDIT IRSN/GRS International
<b>Beneficiary</b>	Turkish Atomic Energy Authority (TAEK) - NDK
<b>End User</b>	TAEK - NDK
<b>Commencement Date</b>	10/11/2017
<b>Implementation Period</b>	36 months November 2020



## EU Consortium

- *RISKAUDIT - Contractor with EU*
- *Autorité de Sûreté Nucléaire (ASN), France*
- *Institut de Radioprotection et de Sûreté Nucléaire (IRSN), France*
- *Gesellschaft für Anlagen- und Reaktorsicherheit (GRS), Germany*
- *Bureau Veritas (BV) - France*

<b>TASK</b>	<b>TOPIC</b>
<b>Task 1</b>	<b>Project preparation and organisation</b>
<b>Task 2</b>	<b>Deterministic and probabilistic safety analyses</b>
<b>Task 3</b>	<b>Manufacturing and construction inspection</b>
<b>Task 4</b>	<b>Management system of the regulatory body</b>
<b>Task 5</b>	<b>Project finalisation and dissemination of project results</b>

## Phases of the Project

### ➤ **Inception Phase:**

- Inception and Kick-off meetings, agreement on the work plan and schedule, Minutes, inception report

### ➤ **Progress development Phase :**

- Workshops, trainings, on-the-job trainings, in situ missions.
- Three progress meetings (PM):
- Progress reports: 6 PRs
- Regular communication; Monthly reports, videoconferences, mails

### ➤ **Final Phase:**

- Final workshop, Final report, summarising and dissemination of results



## Future of the INSC

- On 30 May 2018, the European Commission presented the proposal for establishing a **European Instrument for Nuclear Safety complementing the Neighbourhood, Development and International Cooperation Instrument** (EINS)
- This proposal aims at continuing the activities currently carried out under the INSC with a priority given to the EU neighbourhood and accession countries
- The proposed budget remains ambitious to cope with the challenges ahead



# Additional information

- **EuropeAid**
  - <https://ec.europa.eu/europeaid/>
- **Instrument for Nuclear Safety Cooperation**
  - [https://ec.europa.eu/europeaid/sectors/energy/nuclear-safety\\_en](https://ec.europa.eu/europeaid/sectors/energy/nuclear-safety_en)
- **TACIS, INSC, PHARE, IPA - completed projects**
  - <https://nuclear.jrc.ec.europa.eu/tipins/>
- **Training and Tutoring**
  - <https://nuclear.jrc.ec.europa.eu/europeaid-safety-training>

***Thank you for your attention!***

