The State Border Guard Service of the Ministry of the Interior of the Republic of Lithuania
NUCLEAR SECURITY CENTRE OF EXCELLENCE

ROLE OF THE NUCLEAR SECURITY CENTRE OF EXCELLENCE COMBATING NUCLEAR SMUGGLING

December 2016

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BACKGROUND

- **An effective nuclear security regime implies the appropriate capabilities to prevent, detect and respond to a criminal or an unauthorized act with nuclear security implications**
- **These capabilities should not be just established, but to remain effective, and self-sustained over the long-term by a State**
- **States should establish and maintain special sustainability instrument which shall provide human resources development and technical support services to respective State institutions (*IAEA publications*)**

BACKGROUND

- **2012 - Lithuanian high-level delegation first time participated in the Nuclear Security Summit in Seoul**
- **As a national contribution to the Seoul Summit's Gift Basket, Lithuanian President announced the establishment of the Nuclear Security Centre of Excellence**
- **At Hague Summit 2014 the National Report was provided**

ROLE AND OBJECTIVES OF THE NUCLEAR SECURITY CENTRE OF EXCELLENCE

NSCOE mission is to support sustainable and effective national nuclear security regime through the continuous capacity building, fostering interagency and international cooperation in the area of nuclear security

- **To focus on organising trainings, specialised seminars and simulation exercises in the field of countering nuclear smuggling**

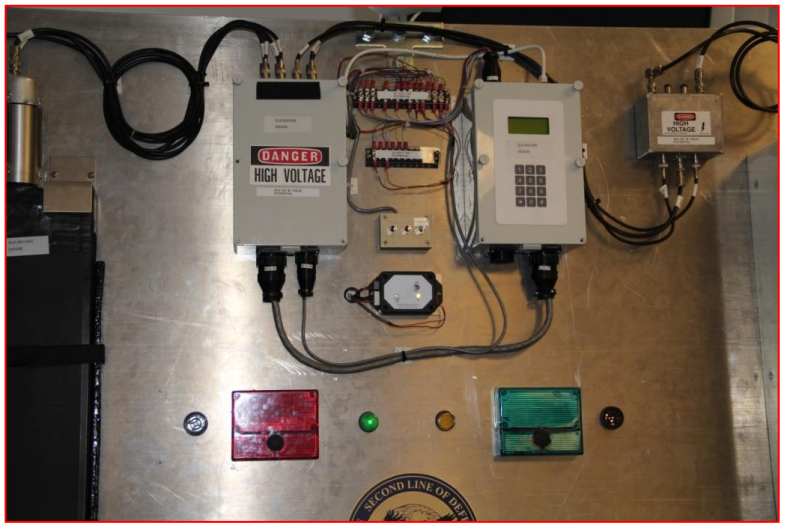
- **To facilitate and promote the cooperation between the national institutions involved into combating the smuggling of the nuclear and other radioactive materials**

- **To carry out and maintain the international cooperation in the area of nuclear security**

ROLE AND OBJECTIVES OF THE NUCLEAR SECURITY CENTRE OF EXCELLENCE

- **Founding principles:**
- **NSCOE should serve multiple stakeholders**
- **Stakeholders active engagement into NSCOE design and establishment processes**
- **Hosting organisation – the one responsible for several areas of the nuclear security – State Border Guard Service**
- **To use existing infrastructure and avoid high costs (premises, equipment, staff, administrative costs)**
- **To develop gradually, starting from just one operational area – nuclear security training**

NSCOE INFRASTRUCTURE AND EQUIPMENT



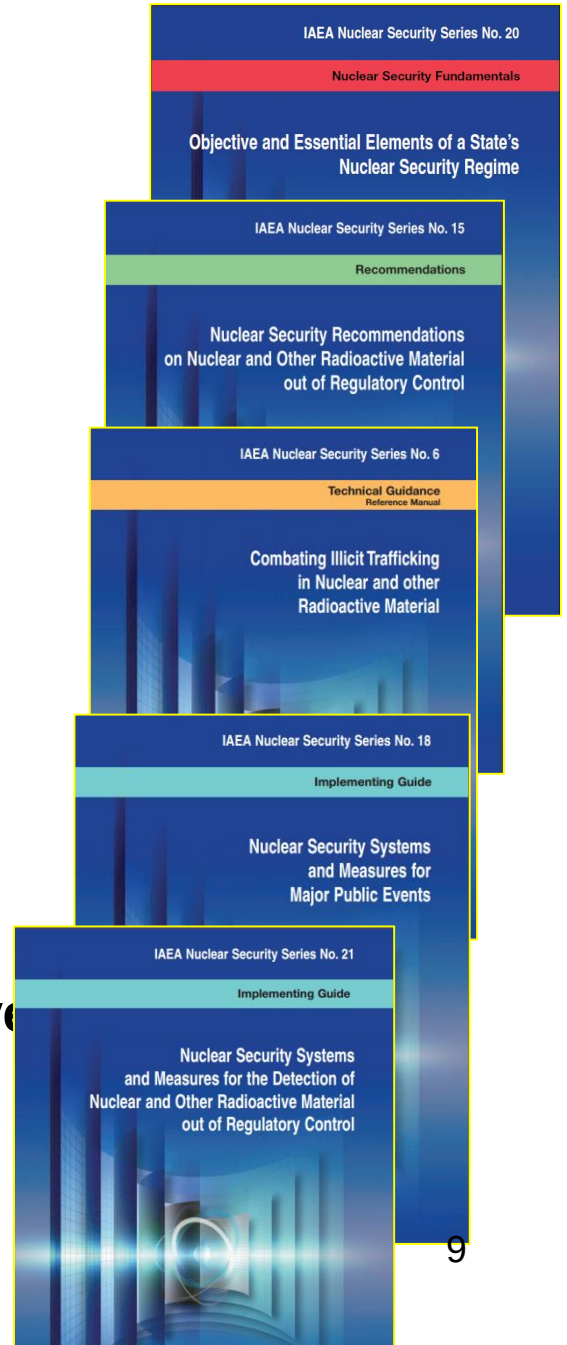
MOBILE DETECTION SYSTEM:

MDS and man-portable radiation detection tools that strengthen law enforcement's ability to conduct operations when radiological or special nuclear materials are involved

NSCOE TRAINING REFERENCES

IAEA Guidance on Nuclear Security Detection:

- **NSS 20: Objective and Elements of a State's Nuclear Security Regime**
- **NSS 15: Nuclear Security Recommendations on Nuclear and Other Radioactive Material out of Regulatory Control**
- **NSS 6: Combating illicit trafficking in nuclear and other radioactive material**
- **NSS 18: Nuclear security systems and measures for major public events**
- **NSS 21: Nuclear Security Systems and Measures for the Detection of Nuclear and Other Radioactive Material out of Regulatory Control**



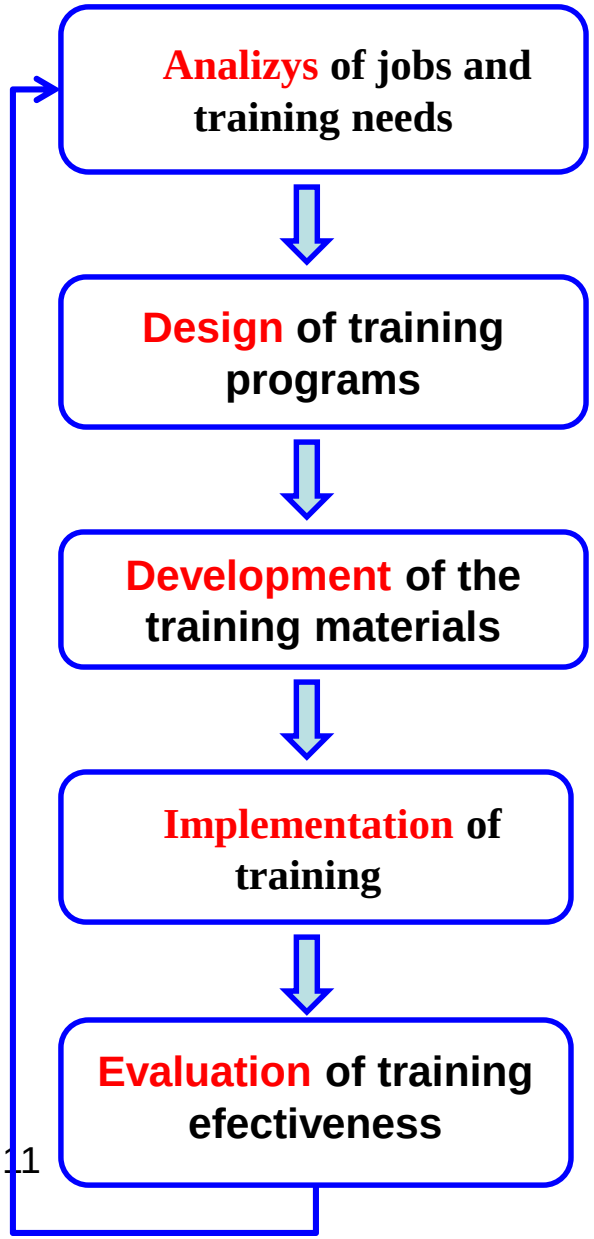
MAIN TRAINING CONCEPT: SYSTEMATIC APPROACH TO TRAINING

A systematic approach to training is based upon:

- **Identified job tasks**
- **Related knowledge**
- **Related skills**

Training is different from education

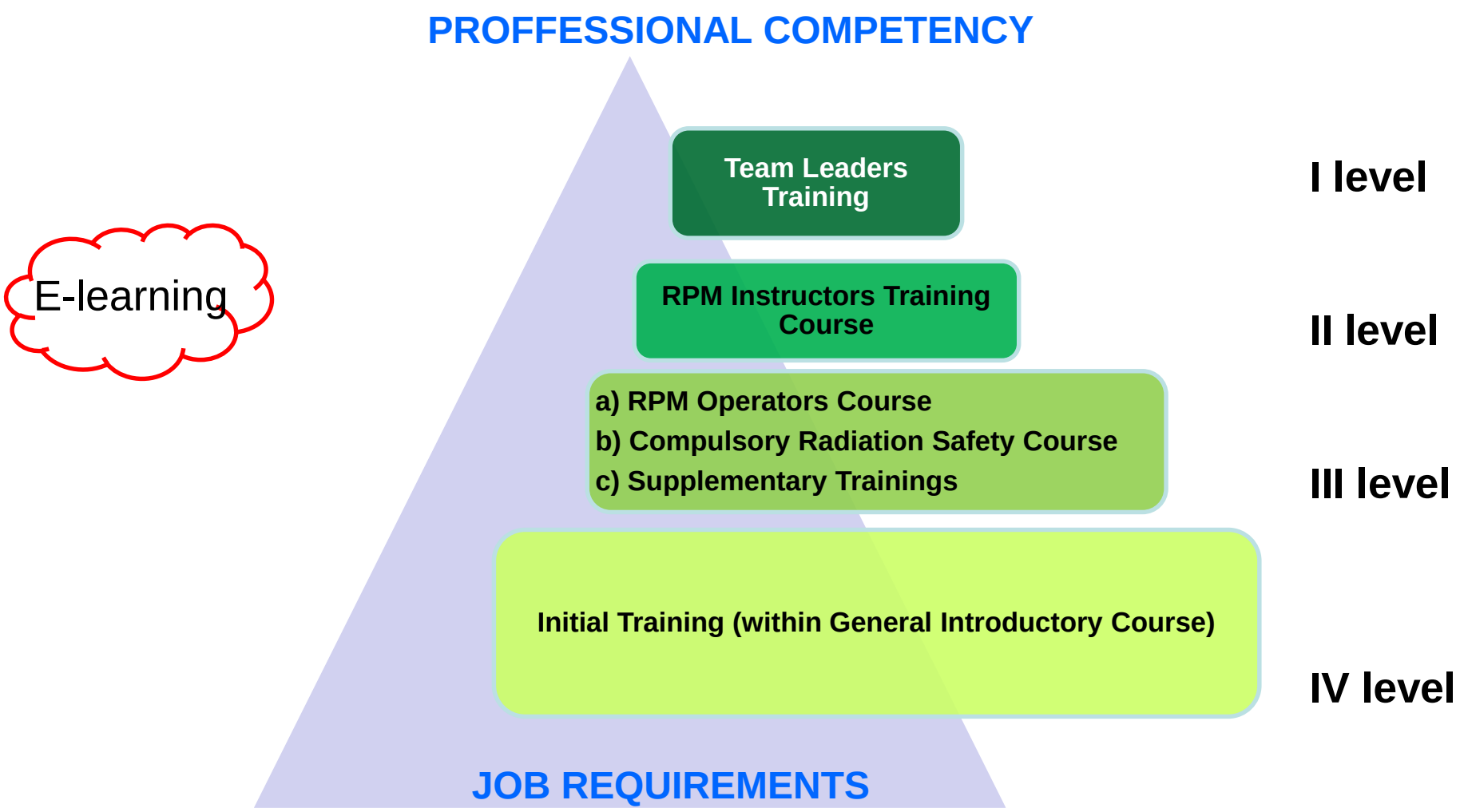
SYSTEMATIC APPROACH TO THE TRAINING



The Systematic Approach to Training is a training approach that provides a logical progression from the identification of the knowledge, skills and attitudes required to perform a job

to the development and implementation of training to achieve these competencies, and subsequent evaluation of this training

EXAMPLE: TRAINING CURRICULA FOR STATE BORDER GUARD SERVICE



DEVELOPMENT OF THE NSCOE

To develop the pool of part-time trainers

- **In order to multiply training efforts and to reinforce training at the working places, NSCOE has designed the Train-the-trainer training program**
- **Members of the trainers' pool regularly attend specialised advanced trainings; special field trips have been organized for the further development of the pool**
- **The trainers reports to the NSCOE on the activities carried out**

E-LEARNING SYSTEM

NSCOE has been employing e-learning tools for the training

Benefits:

- **Safe trainers' time and reduce cost of training**
- **Provide on-line platform for administrator and trainee communication**
- **Trainer to control time spent on e-learning aids**

INTERNATIONAL PARTNERS

DEPARTMENT OF STATE · UNITED STATES OF AMERICA

EXPORT CONTROL & RELATED BORDER SECURITY · EXBS

GICNT
Global Initiative to Combat Nuclear Terrorism

DEPARTMENT OF ENERGY · UNITED STATES OF AMERICA

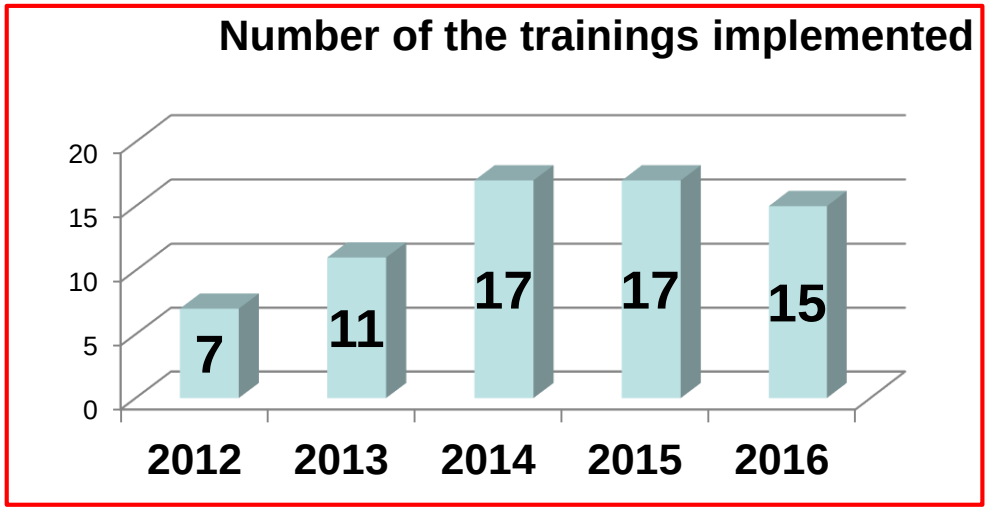
IAEA
International Atomic Energy Agency

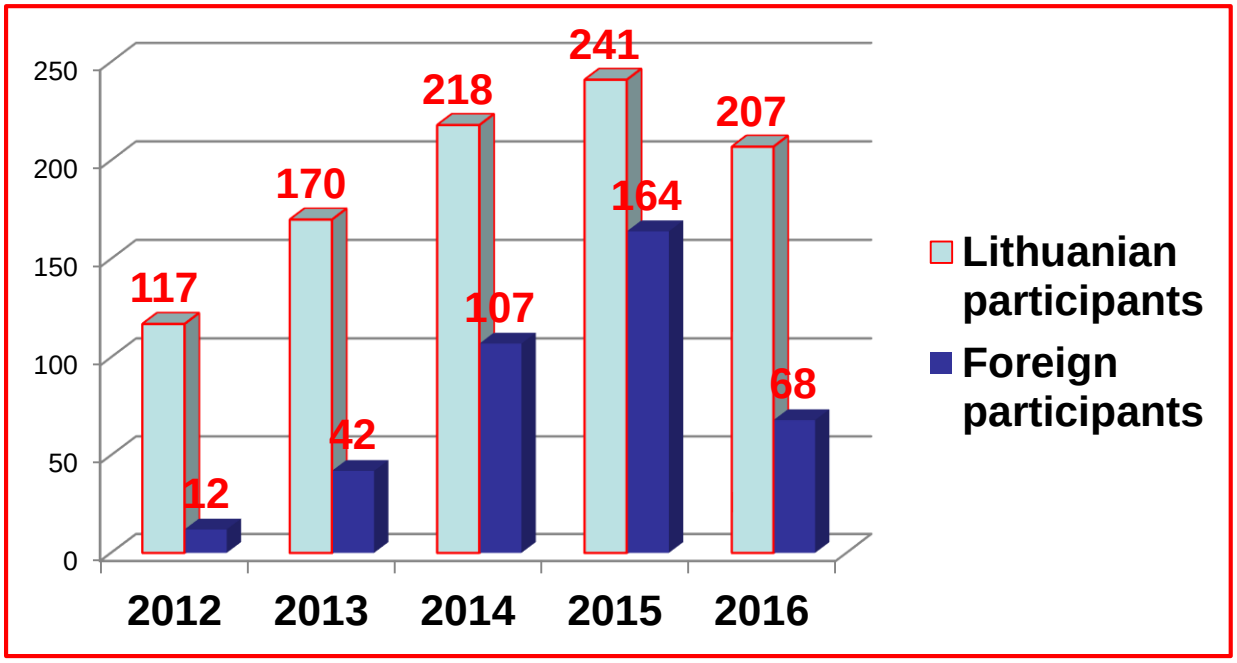
Interpol
OIPC ICPO
INTERPOL

JAEA 核不拡散・核セキュリティ総合支援センター ISCN
Integrated Support Center for Nuclear Nonproliferation and Nuclear Security

JRC
EUROPEAN COMMISSION

NSCOE STATISTICS: TRAININGS AND PARTICIPANTS





ANNUAL TABLE TOP EXERCISES

“Interagency cooperation and coordination facing nuclear security event”

TTX is effective tool to:

- **trigger and stimulate discussion on the effectiveness of interagency cooperation and coordination**
- **identify gaps**
- **come up with recommendations and proposals on the possible improvement**

FIRST FULL SCALE EXERCISE 2016

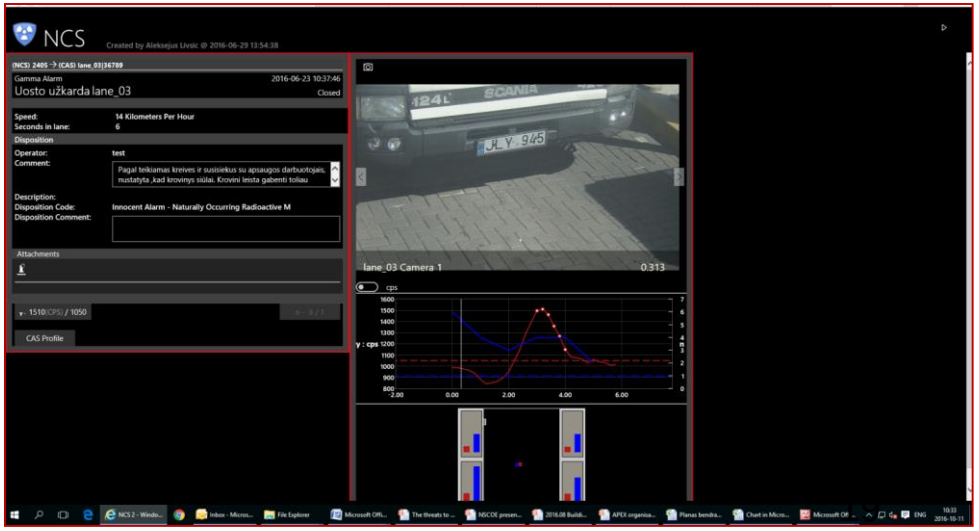
Interdiction of the illicit trafficking of the radioactive materilas

RECENT DEVELOPMENT OF THE NSCOE

Objectives of the NSCOE in the area of Radiation Control at the State Border implementation:

Development, implementation, control, and management of the SBGS performed functions:

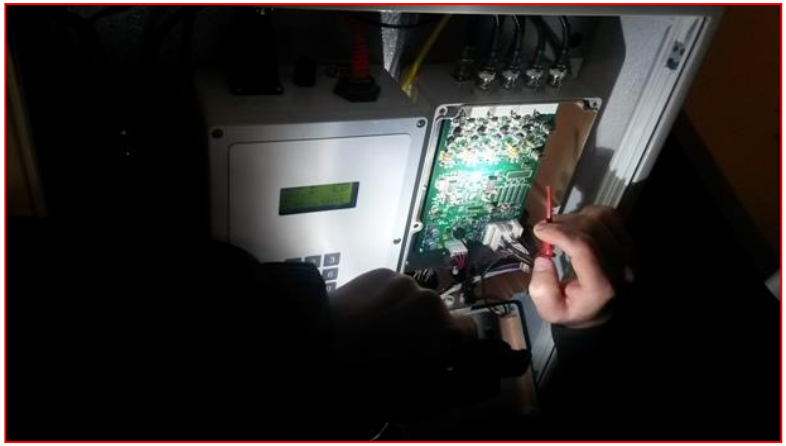
- **Procedures development and interagency coordination**
- **Equipment (planning, installation, maintenance and repair)**
- **NSC monitoring**
- **On-line and on-site support resolving alarms**



RECENT DEVELOPMENT OF THE NSCOE

Objectives of the NSCOE in the area of Radiation detection infrastructure at the State Border development and equipment maintenance:

- **Planning for the new equipment supply and deployment (risk informed approach)**
- **International cooperation on the matters of radiation detection capabilities development**
- **Procedures for equipment maintenance, calibration and repair development**
- **Equipment installation, maintenance and repair coordination and cooperation with the other entities**

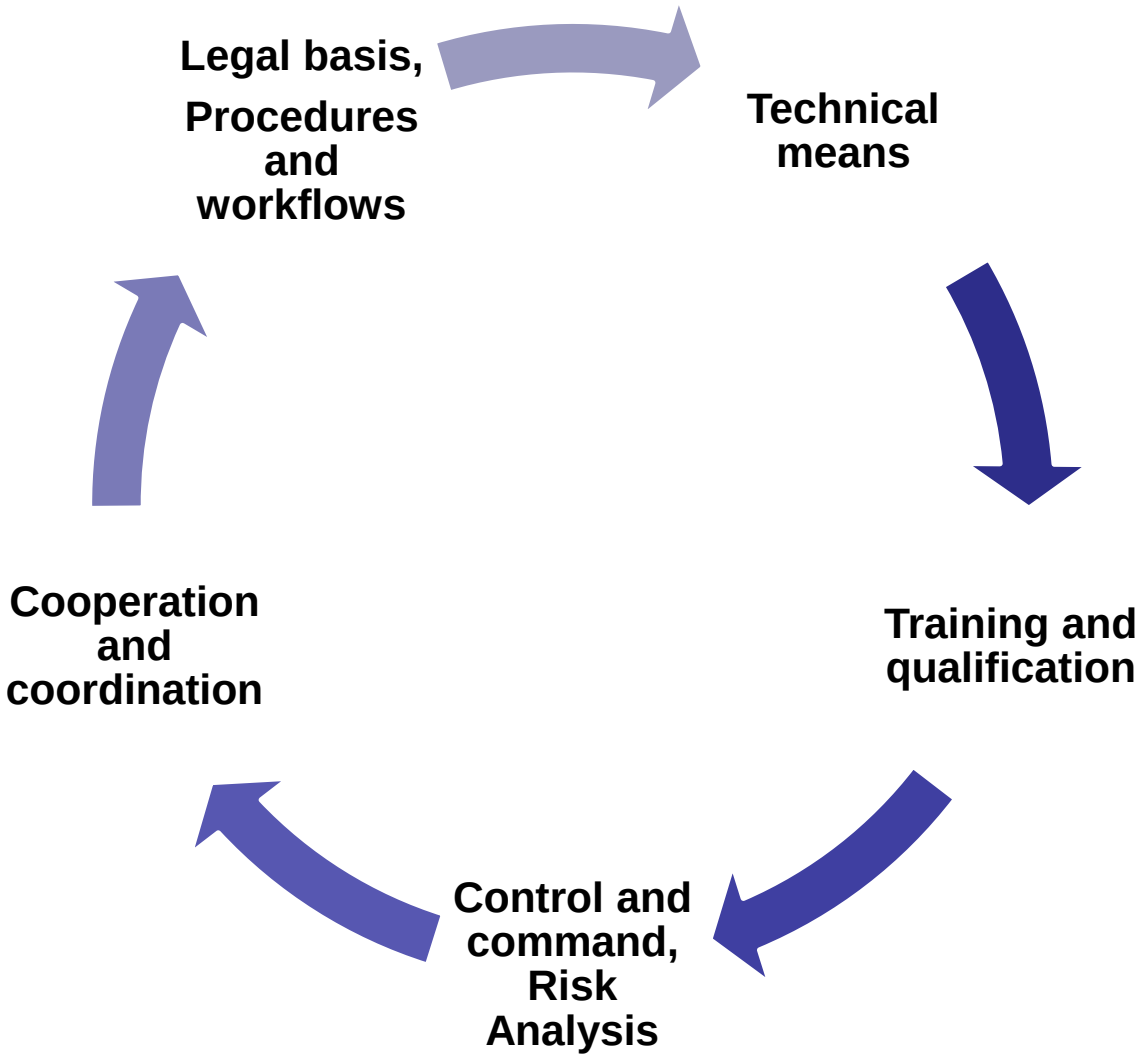


RECENT DEVELOPMENT OF THE NSCOE

Objectives of the NSCOE in the area of Physical Protection of the nuclear Infrastructure:

- **Coordinate Ignalina NPP Guard Force activities**
- **Support and facilitate interagency cooperation and coordination developing and implementing PP measures**
- **Provide training services to the personnel**

THE CURRENT OBJECTIVES OF NSCOE



NSCOE COOPERATION WITH THE IAEA

- In June 2012, the delegation of Lithuanian MFA and NSCOE visited the IAEA and announced the establishment of the NSCOE
- The IAEA provided the initial consultations for further NSCOE development and welcomed NSCOE to join the Nuclear Security Support Centres Network
- Being the member of the Network, NSCOE benefits from other members experience and develops its international cooperation
- This is a unique possibility to take part and contribute to international capacity building projects

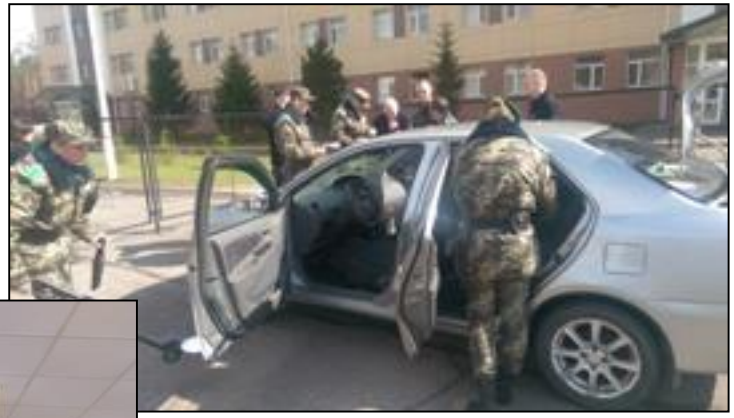
REGIONAL COOPERATION

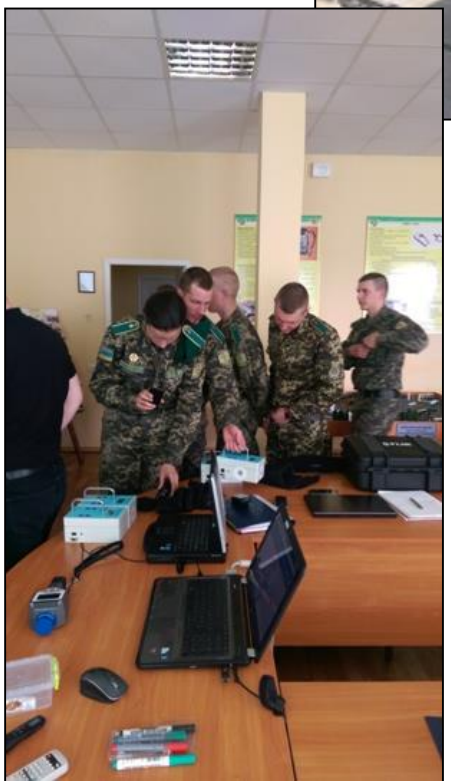
WORKSHOPS “NUCLEAR SECURITY ELEMENTS” FOR GEORGIA, ARMENIA, UKRAINE, MOLDOVA

- **Presented both Lithuanian and partner countries Nuclear Security capabilities**
- **Speakers from various national institutions**
- **Study visits to the sites**
- **Comparison of the national procedures, identification of the best practices**
- **BSRBCC Workshop**

TRAINING “NON-PROLIFERATION AND BORDER CONTROL” UKRAINE, APRIL 2015

Financed by Lithuanian Ministry of Foreign Affairs





43 Ukraine and Moldova officers participated

INTL. TRAINING COURSE „DETECTION OF NUCLEAR AND RADIOACTIVE MATERIALS AND INITIAL RESPONSE AT THE BORDER”, MAY 2016

Financed by US State Department Export Control and related Border Security Agency

30 Ukraine and Moldova officers participated

SUMMARY

After five years of NSCOE experience...

- **IAEA concept to support and enhance nuclear security personnel capacity building by establishing specialized training organizations is still effective and actual**
- **NSCOE is a unique body which continuously collecting the knowledge and expertise, assisting stakeholders personnel qualification development, facilitating interagency cooperation and supporting development of the national nuclear security capabilities**
- **We are committed to further develop the NSCOE and enhance quality of our services**
- **We look forward to further develop our international cooperation looking for the good practices and ways to implement these in Lithuania**

THANK YOU FOR ATTENTION

www.nscoe.lt

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