Slovakia

- Capital: Bratislava
- 49 000 km²
- Population: 5,4 mil.
Legislative framework

Radioactive Material
- Public Health Authorities
- Public Health Protection law:
  - 355/2007 Coll. on Protection, Support and Development of Public Health

Nuclear Material
- Nuclear Regulatory Authority
- Atomic law:
  - 541/2004 Coll. on Peaceful Use of Nuclear Energy
Ministry of Transport

- Public health authority
- Competent authority for transport of radioactive material

Competency:

- Authorizations (license/registration) for:
  - transport of RaM, RW, fresh NF, spent NF
  - Import/export, personal dosimetry, monitoring, medical sources and X-ray generators, ..

- State health supervision/inspections
  - transport, facilities, hospitals, ..
Ministry of Transport

- State supervision/inspection
  - Preventive surveillance – documentation

- Control surveillance - Announced transportation
  - in cooperation with customs, police, licensee
  - lack of our competencies

- Unannounced supervision/Inspection
  - in cooperation with customs, police
Legislation for TRAM

  - Authorization Process

- Regulation No. 345/2006 Coll. „Health protection of workers and public against Ionizing radiation“
  - Limits, Principles of Radiation Protection

- Decree No. 545/2007 Coll. “Radiation protection and radiation safety”
  - Requirements for the safe transport of RM

New BSS directive 2013/59 – Tabling of a bill (New or changed legislation in 2018)
Authorization for TRAM

- Authorization required for:
  - Domestic transport
  - International transport, import/export
  - Transit

- For all modes of transport
  - road, railway, air and inland waterway

- For all UN numbers
  - RM with activity higher than the limits in regulation
Authorization Process

- Applicant is obliged to submit:
  - Application form
  - Documents as requested:
    - Radiation Protection Officer
    - Reasoning of the transport
    - Transport order including the type of transport, itinerary and radiation safety measures
    - Description of the technical equipment for transportation
    - Risk evaluation document
    - Emergency plan
    - Certificate of approval for the package(s)
    - Certificate of driver(s)’ training (ADR class 7)
Authorization Process

- Issuing the license takes at most 60 days
- The license is valid indefinitely

Responsibilities of the licensee:
- To pre-announce the shipments
  - 24 hours at least, 7 days, several weeks for NM
- To send annual report of the shipments

- www.telecom.gov.sk
Authorization Process

- Fee for the license – 700 €

- Administrative offenses - Fines for non-authorized activities:
  - 2 000 € - 100 000 € (200 000 €)
Transports of RaM (2014)

- Hundreds of road transports per year
  - $^{192}\text{Ir}$, $^{60}\text{Co}$, $^{137}\text{Cs}$, $^{241}\text{Am}$, $^{75}\text{Se}$, $^{90}\text{Sr}$, $^{252}\text{Cf}$, $^{152}\text{Eu}$
  - $^{131}\text{I}$, $^{85}\text{Kr}$, $^{99m}\text{Tc}$, $^{18}\text{F}$

- Ranging from MBq up to PBq

- Hundreds of radioactive waste transports
  - between the facilities and the storage
Transports of NM (2014)

- Nuclear material:
  - Fresh nuclear fuel – by air, by road
  - Spent nuclear fuel – by railway
  - Yellowcake – transit by railway
Illicit trafficking
- special radiation events

- **Railways**
  - Portal gate (mostly in metal scrap)

- **Post Offices**
  - Portal gate (minerals and rocks, army devices, watches,..)

- **Roads**
  - Mobile detectors (cooperation with customs, police)
Illicit trafficking

- Non-authorized transport of $^{18}$F
  - June 2015
  - Czech republic – Austria – Slovakia
Authorized Air/Road transport
Challenges

- Online system for announcements of TRAM
- Monitoring system at the airports
- Monitoring system of inland waterways
- Improve the training of workers involved in transport activities
- Increase the number of employees at our department
Challenges

- Change of the legislation for radiation protection
  - Harmonization with international regulations
  - New act on radiation protection or amendments
  - New independent regulatory body
  - Changes in public health system

- Joint Action Plan
  - RAMP document – Rapid Asset Mobilization Plan
    - Incidents involving transport of RAM
Application of the new Criminal Code (01.sept.2015)

*Illicit Manufacturing and Possession of Nuclear Materials, Radioactive Substances, Hazardous Chemicals and Hazardous Biological Agents and Toxins:*

„Any person, who, **even recklessly**, without having a license, manufactures, imports, exports, transits, purchases, sells, exchanges, modifies, uses, has transported or otherwise procures for himself or another, or has in his possession nuclear or other similar radioactive material or hazardous chemical, or hazardous biological agent or toxin, or paraphernalia designed for their manufacturing, shall be liable to a term of imprisonment of **one to six years.**“

(1-6, 3-10, 10-20 or 20-25 years depending on severity)
THANK YOU.