

Overview of the Belgian 'class 7' competent authority activities for transport security

UNECE Workshop on Security Aspects of Dangerous Goods Transportation

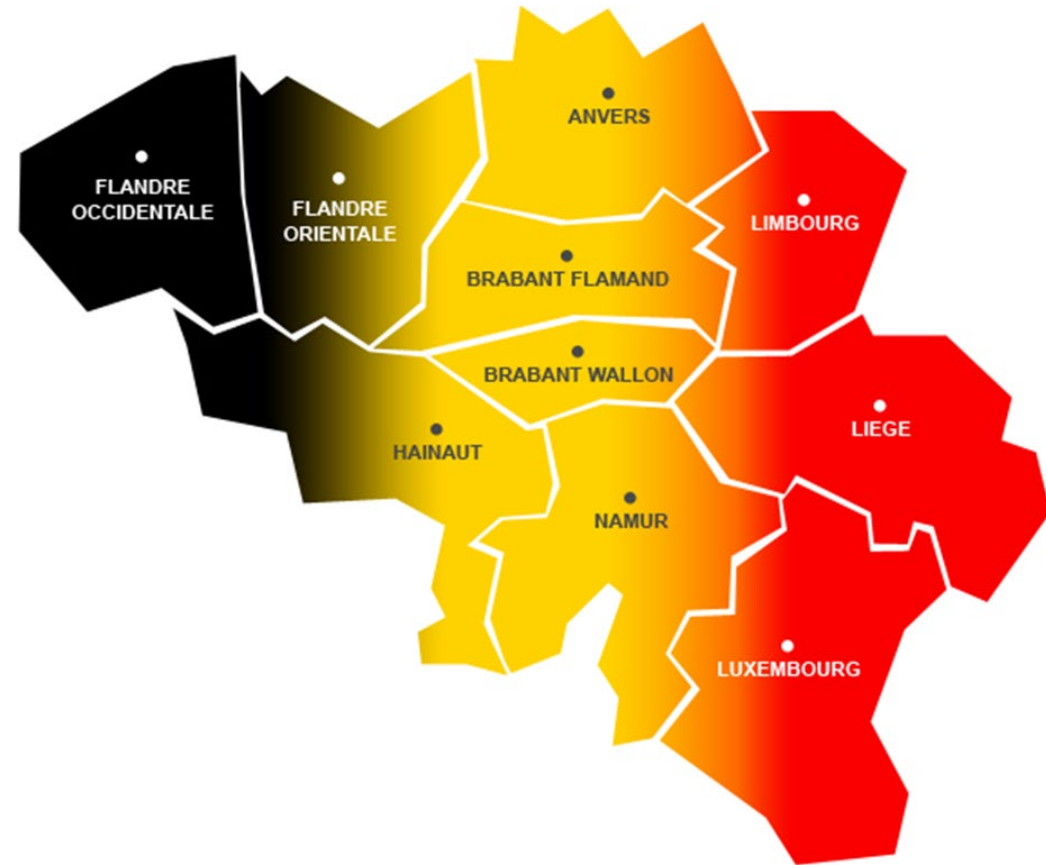
Geneva, 2021-09-16

Presentation's content

- National situation
- Security of the transport of nuclear material
- Security of the transport of class 7 high consequence dangerous goods (HCDG)

National situation

- Belgium:
400.000 packages/year
40.000 shipments/year

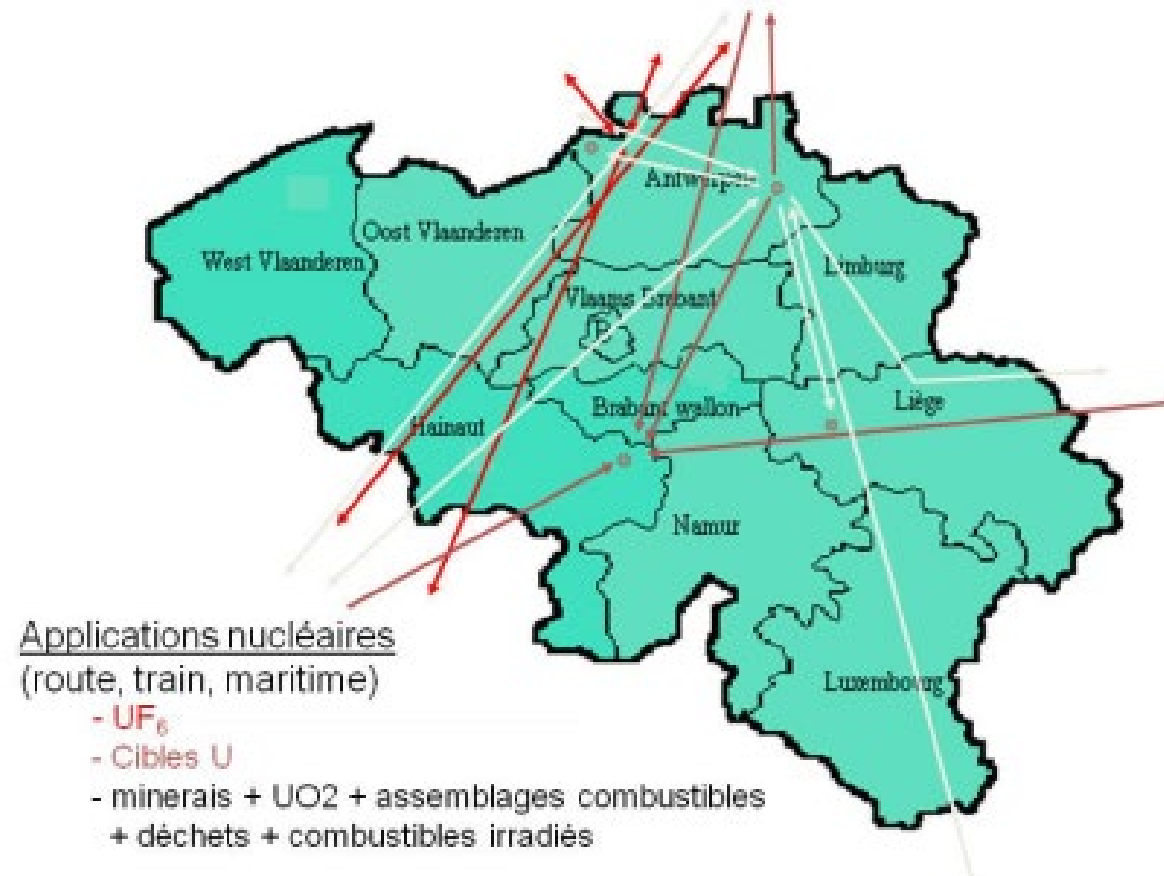


National situation

Mode of transport	Global frequency	Medical application	Nuclear Fuel Cycle		Other (industry, research, ...)
			UF6, fuel elements	Waste and spent fuel	
Road	> 100/day	80 %	< 5 %	< 1%	15 %
Air (in cargo or aircraft with passengers)	> 10/day	90 %	0 %	0 %	10 %
Sea	3 to 4 /week	0 %	< 95 %	< 1 %	< 5 %
Rail	1/week	0 %	90 %	10 %	0 %
Inland waterway	None	/	/	/	/

National situation

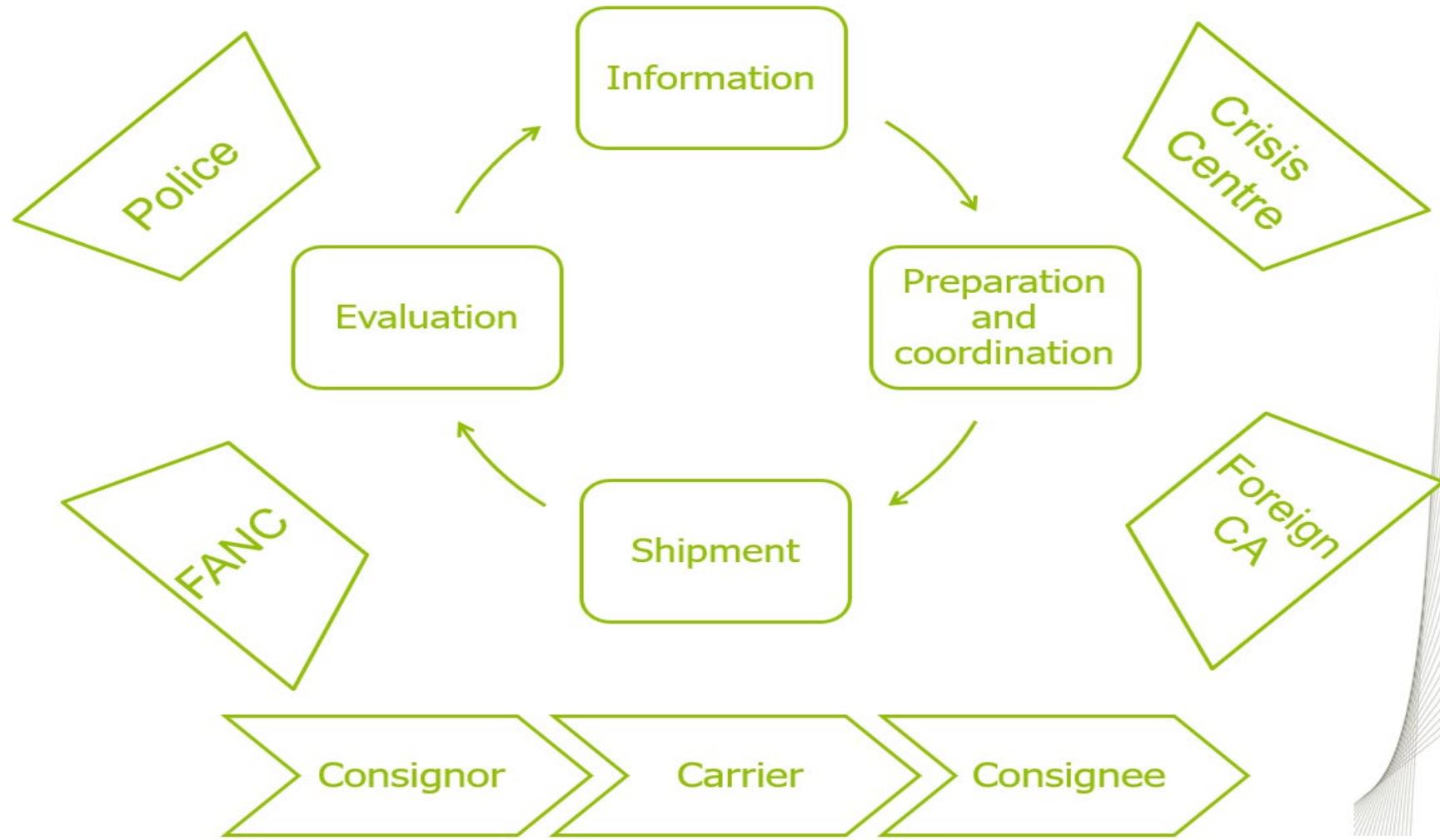
Transit State



National Competent Authority (FANC)

- FANC is the competent authority for safety and security of nuclear and other radioactive material (facilities & transport)
- Transport safety and security are managed by two different sections within the same department (interface safety/security)
- Main activities:
 - Regulations
 - Licensing
 - Inspections
 - Supporting nuclear security and operators (workshops, ...)
 - Contacts with national & international authorities (management process for sensitive operations , trilateral meetings FR-BE-NL, ENSRA, ...)

Management process for sensitive operations



National situation / Security regulations

- 2 different scopes
 - For nuclear material (security system required)
 - For high consequence dangerous goods
 - Security plan required by chapter 1.10 ADR-RID-ADN (carriers & handlers)
- FANC actions
 - Consulting operators while drafting regulations
 - Helping operators to understand the regulations and to meet the requirements (explanatory notes; model of security plan)
 - Licensing & Inspections

Nuclear material transport security

- 2 types of licensing files: generic (GSS) & specific security system (SSS)
- GSS: 5 chapters:
 1. 'target identification' (attractiveness, link with DBT)
 2. 'minimum level of protection' (prescriptive measures)
 3. 'adequacy to **threat**' (structural & punctual threats)
 4. 'security system management'
 5. '**trustworthiness**'
- Security functions: detection, delay, **response**

FANC specific activities

- Threat
 - punctual & structural
 - cooperation with competent authorities
 - adversaries & scenarios
- Trustworthiness
 - NSA clearances
 - FANC certificates
 - Insider risk
- Response
 - Operator & response security function
 - cooperation with response forces (transport escorts; on-site forces)

Radioactive material transport security

- Priority to the HCDG (high consequence dangerous goods) and the security plan required by chapter 1.10 ADR-RID-ADN (carriers & handlers)
- These requirements are not detailed →
- FANC developed a model of security plan to specify his expectations (TSP for carriers; HSP for handlers) using i.a. IAEA NSS-9
- FANC provides a half day training to explain these expectations and answer questions
- Content of the TSP (next slide)

Weblink to TSP & HSP (EN,FR, NL) [Formulaires | AFCN - Agence fédérale de Contrôle nucléaire \(fgov.be\)](#)

TSP / Table of content

1. General
 2. Responsibilities with regard to security
 3. Materials to be transported
 4. Evaluation of the usual operations during the transports and the corresponding risks
 5. Measures (see next slide)
 6. Notification of security incidents and possible interventions
 7. Security plans
 8. Information
- (9, 10, 11)

TSP / Table of content / Section 5 - Measures

1. Management system
2. Personnel
3. Access management (information, vehicles, zones, material)
4. Equipment management
5. Cooperation with the authorities (Police, ...)
6. Punctual threat
7. Management of the usual operations and situations

TSP-HSP / Lessons learned, considerations

- Security is new for ‘other radioactive material operators’
- Need for training
- Challenging for small companies
- Diversity of transport types (big & heavy packages, industrial radiography)
- Our approach: progressively raising the level
- Challenges: quick evolution of adversaries capacities (cyber, drones, tracking, information, ...)

Thank you for your attention



Contact

Luc VERRIEST

Inspector, Expert

Security & Transport Department

Nuclear Security Section

Luc.Verriest@fanc.fgov.be

Tél.: +32 (0)2 289 20 32