DEMA DANISH EMERGENCY MANAGEMENT AGENCY

Nuclear Forensics capabilities

Denmark

Detection

- Intelligence Services
- Customs

Field Forensics

- Law Enforcement
- Technical Experts

Laboratory Forensics

- National
- International

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Nuclear Forensics responsibility

- Sector responsibility principle
- Unclarities
- Ressources and capabilities
- Roles

Sector responsibility principle

- Intelligence Services
- Customs
- Police
- DRPA
- DEMA
- MOE

Unclarities

- DRPA responsibility of Orphan Sources and Health
- DEMA responsibility of fissile materials

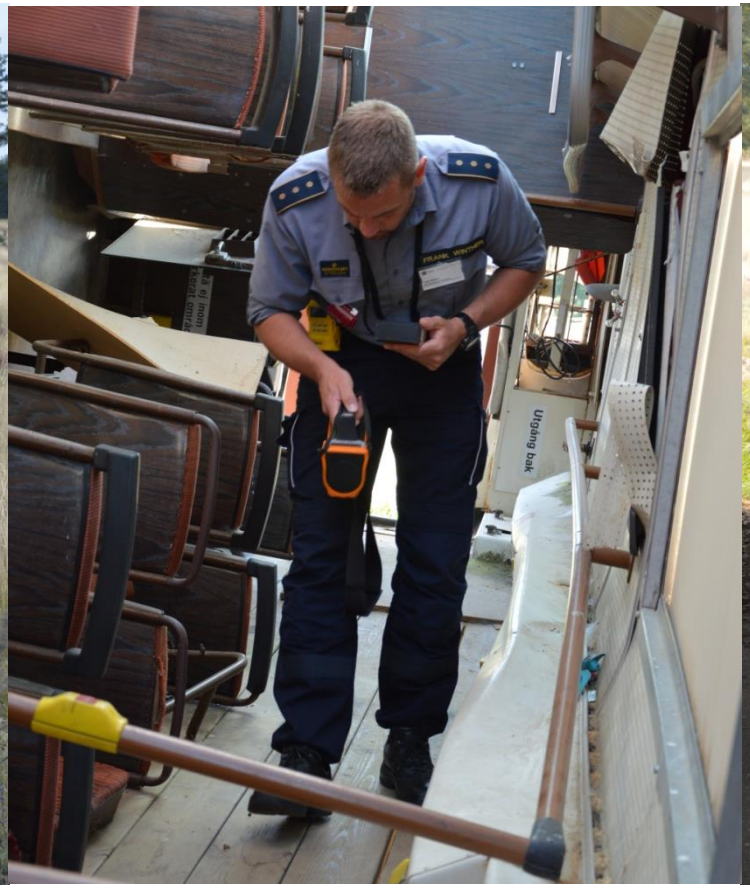
Ressources and capabilities

- DRPA expert knowledge
- DEMA HazMat and NFIT
- DTU Nutech laboratory

Measurement Specialists (DEMA)

- On-site categorization
  - Identification of the main nuclides
  - Rough determination of the isotopic composition of nuclear material
- Risk Management
- Documentation

DEMA NFIT



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DEMA NFIT

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DTU Nutech laboratory

DTU Nutech laboratory

Please mark with: **C** = currently available capability, **D** = capability under development

	Licenses and facilities for receipt and handling	Categorisation	Basic characterization/ core capabilities	Advanced Characterization	Nuclear forensic interpretation
Natural or depleted Uranium	C		C		C
Low enriched Uranium	C		C		C
Highly enriched Uranium	C		C		C
Plutonium or Pu containing materials	C		C		C

Roles

- Intelligence Services = cooperation
- Customs = detection
- Police = traditional forensics and crime investigation
- DEMA = on-site categorization
- DTU Nutech = characterization

Going further

- Advanced characterization and Nuclear forensic interpretation – ITU
- Training of categorization skills – ITU

GENERIC INTEGRATED FORENSIC TOOLBOX

Seventh Framework Programme
FP7-SEC-2013-1

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Thank you for your attention!

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