



IAEA

International Atomic Energy Agency
Atoms for Peace and Development

IAEA Programme on Nuclear Security: Overview and Potential Linkages with GNSSN

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Nuclear Security



Prevention



Detection



Response

← **... theft, sabotage, unauthorized access, illegal transfer or other malicious acts involving nuclear or other radioactive material or their associated facilities** →

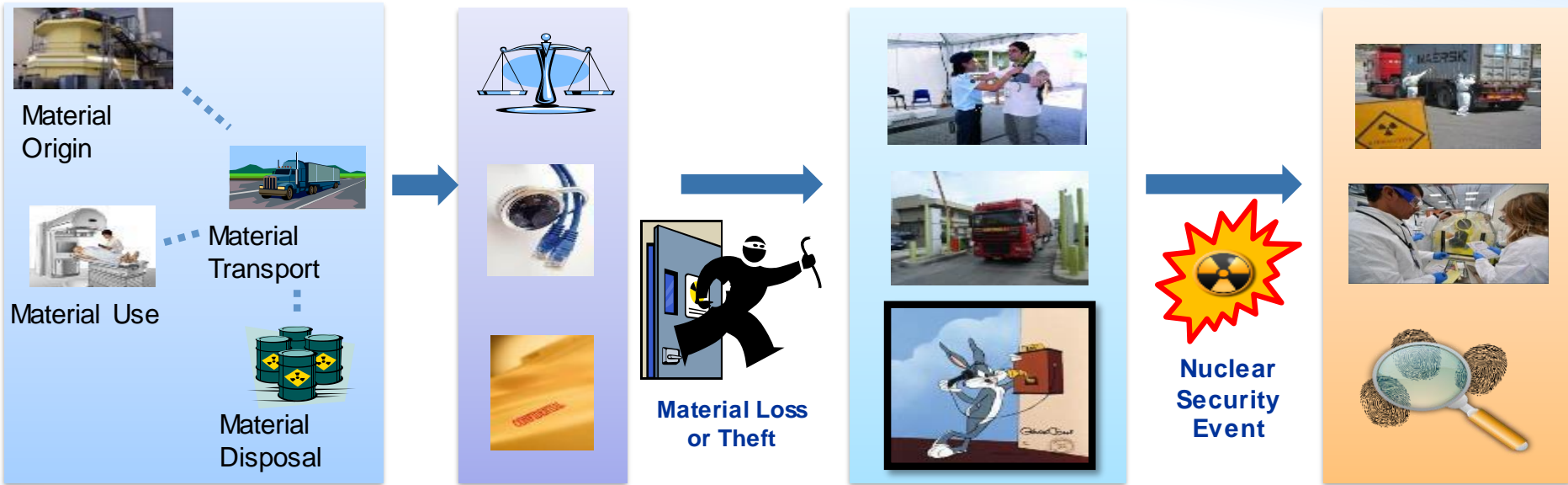
Nuclear Security

Prevention, Detection and Response Measures

Preventive Measures

Detection Measures

Response Measures



**Material Under
Regulatory Control**

Material Out of Regulatory Control

The Role of the IAEA

Nuclear security is a national responsibility.

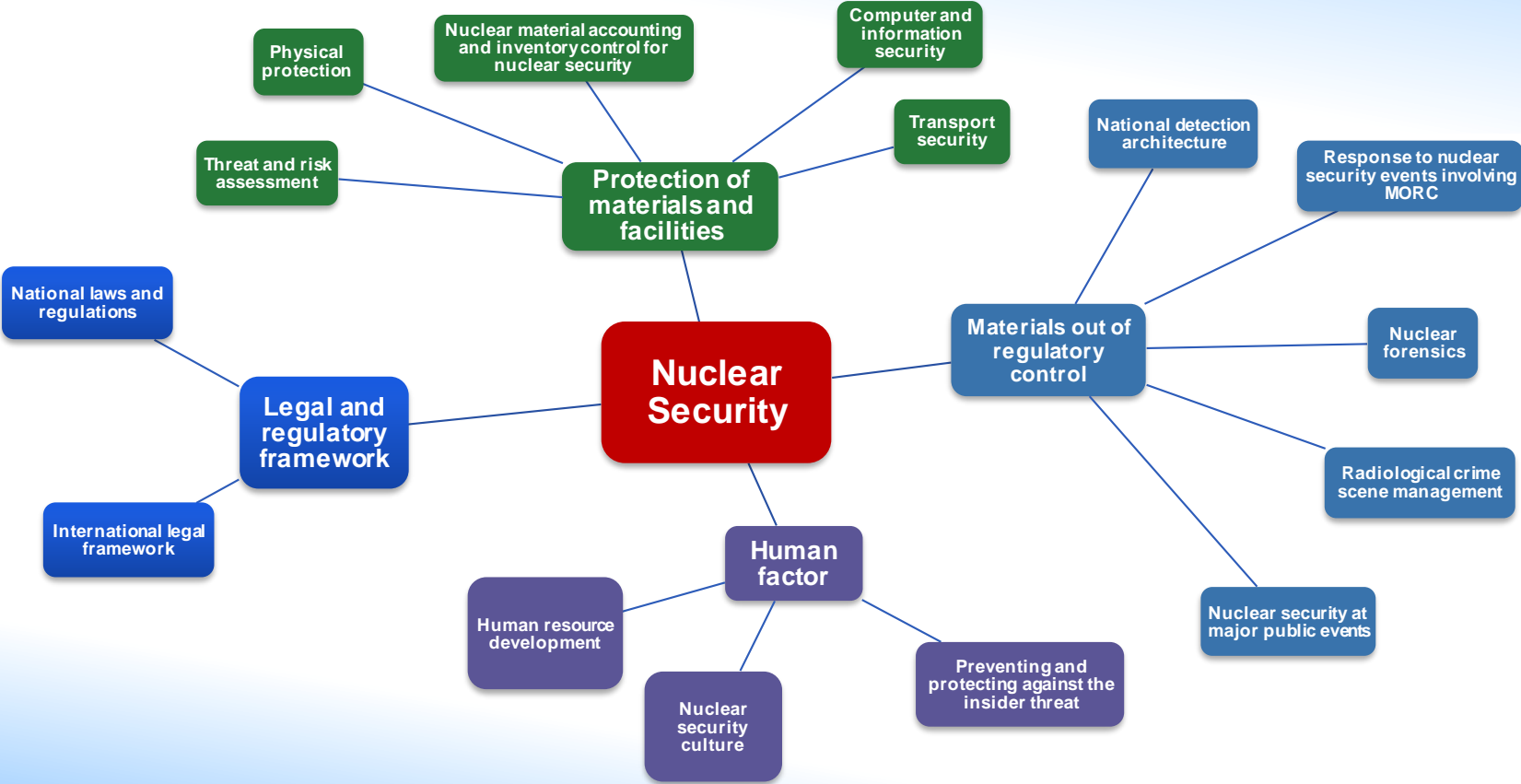
The IAEA:

- Supports States, upon request, in their efforts to establish and maintain **effective nuclear security** through assistance in capacity building, guidance or standards, human resource development and risk reduction
- Facilitates adherence to implementation of international legal instruments related to nuclear security

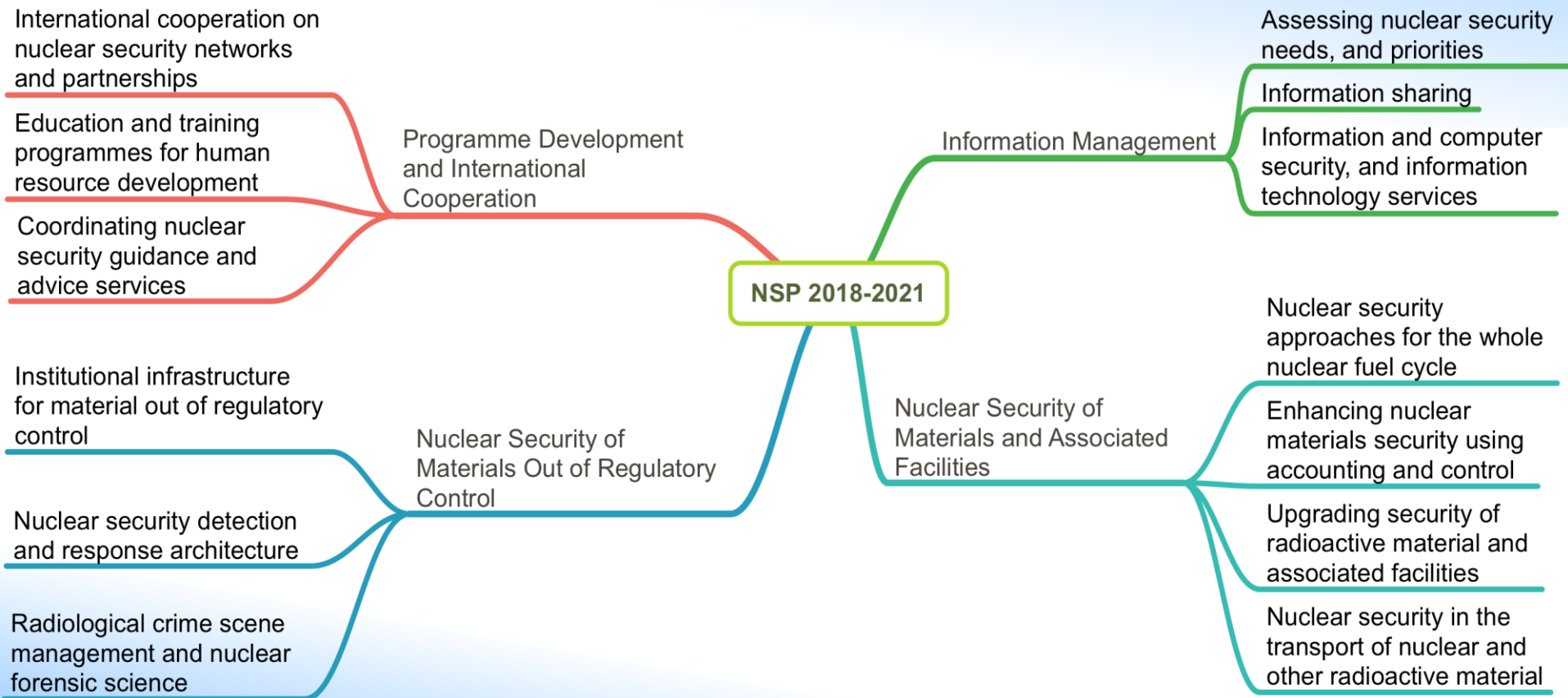




Domains of IAEA Nuclear Security Programme



NSP 2018-2021 Programme Elements



Nuclear Security of Materials and Associated Facilities



- **Nuclear security approaches for the whole nuclear fuel cycle**
 - Physical protection
 - Nuclear security culture
 - IPPAS missions, good practices
- **Enhancing nuclear materials security using accounting and control**
 - NMAC
 - Insider threat
- **Upgrading security of radioactive material and associated facilities**
 - Capacity building, lifecycle management of disused sources, CoC, IPPAS missions
 - Physical protection upgrades
- **Nuclear security in the transport of nuclear and other radioactive material**
 - Training, exercises, practical assistance, regulatory framework

Nuclear Security of Materials Out of Regulatory Control



- **Institutional infrastructure for material out of regulatory control**
 - National MORC infrastructure
 - INSServ missions, good practices
 - Capacity building
- **Nuclear security detection and response architecture**
 - Technical support for States to establish detection and response measures for MORC
 - Major public events
 - Capacity building
 - Radiation detection equipment
- **Radiological crime scene management and nuclear forensic science**
 - Guidance
 - Training and education
 - CRPs
 - National nuclear material databases and national nuclear forensic libraries

Information Management

- **Assessing nuclear security needs and priorities**
 - Integrated Nuclear Security Support Plans (INSSPs)
 - NUSIMS Self-assessment Tool
 - States' requests and offers of assistance matrix
- **Information sharing**
 - Incident & Trafficking Database (ITDB)
 - Sharing of other information voluntarily provided by States (under A/CPPNM, IPPAS good practices, etc.)
- **Information and computer security, and information technology services**
 - Guidance
 - Training courses
 - Technical assistance
 - Coordinated Research Projects

Programme Development and International Cooperation



- **International cooperation on nuclear security networks and partnerships**
 - Information Exchange Meetings and other coordination
 - ICONS (2020)
 - Universalization of A/CPPNM, POC meetings (annually), Review Conference (2021)
- **Education and training for human resource development**
 - IAEA training and train-the-trainer
 - NSSCs and NSSC Networks
 - INSEN and educational materials, guidance, and academic programmes
 - International and regional schools on nuclear security
 - E-learning
- **Coordinating nuclear security guidance and advice services**
 - Nuclear Security Guidance Committee (NSGC)
 - Advisory Group on Nuclear Security (AdSec)

Nuclear Security for SMR



- NSNS believes that current guidance and recommendations provide sufficient coverage for the growing SMR development and use
- To assess a potential need for additional guidance, a CM will be convened in December 2018 in Vienna involving several MS experts.
- Their recommendation will be taken into account in the decision to expand existing or develop new guidance related to the security of SMR

Possible Interfaces with GNSSN



- Better availability and exchange of information with the existing nuclear security networks
 - International Network of Nuclear Security Training and Support Centers (NSSC Network)
 - International Nuclear Security Education Network (INSEN)
 - Network of Front Line Officers (recently established)
- Publicizing events and resources
- Discussing practical considerations and implications of nuclear safety and security interfaces



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Thank you!

