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# Canadian international assistance to strengthen the security of radioactive material

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# Weapons Threat Reduction Program

- **Implements** projects to mitigate the threat posed by weapons and materials of mass destruction, as well as certain conventional weapons.
- **Fulfills** pledges by Canada to the Global Partnership Against the Spread of Weapons and Materials of Mass Destruction, Nuclear Security Summits, the Global Initiative to Combat Nuclear Terrorism, and UN Security Council Resolution 1540.
- **Delivered** over \$1.3 billion in programming since 2002.
- **Funding level** is \$73.4 million/year; mandate extended indefinitely in February 2018.



# THE THREAT

- **Terrorists actively seek weapons and materials for use in a radiological or nuclear weapon**
  - Need to strengthen worldwide capacity to prevent trafficking of nuclear and radiological materials
- **Large quantity of radioactive sources in Africa, the Americas, and Asia**
  - Located in volatile regions, vulnerable facilities
  - Materials commonly used in industry and medicine
  - Also vulnerable during transport
- **Emerging challenges and threats**
  - Cyber threats to nuclear facilities
  - Global cyber security capacity remains limited



# PRIORITY 1: RADIOACTIVE SOURCE SECURITY

- Support efforts to address the threat posed by high activity DSRS.
- Included strengthening security at long-term storage sites and removing/recycling DSRS.

## Project Examples

- **\$9.6 million** to the IAEA to enhance DSRS management in 18 countries in Latin America, Africa and the Pacific.
- **\$6 million** to the IAEA to remove DSRS in 6 countries in Latin America.
- **\$3.2 million** to the IAEA to demonstrate the borehole disposal system for DSRS.



## PRIORITY 2: PHYSICAL PROTECTION AND TRANSPORT SECURITY

- Enhance nuclear facility security measures based on the Design Basis Threat.
- Improve the security of material that is in transit to reduce the risk of loss or theft.



### Project Examples

- **\$4.6 million** to the IAEA and US Dept of Energy to upgrade physical protection at nuclear facilities in Southeast Asia.
- **\$3 million** to the US Dept of Energy to strengthen radioactive source security in Kazakhstan.
- **\$1.5 million** to the US Dept of State to provide containers to Ukraine to strengthen transport security.

## PRIORITY 3: PREVENT ILLICIT TRAFFICKING

- Build capacity to detect, deter and respond to illicit trafficking of nuclear material.
- Includes the provision of pedestrian, vehicular and cargo detection equipment.

### Project Examples

- Over **\$22.5 million** to install radiation monitoring equipment at border crossings in Jordan.
- Over **\$1.78 million** to INTERPOL to provide training to law enforcement officials throughout Latin America and the Caribbean.
- **\$1.6 million** to UNICRI to strengthen the capacity of 3 Middle Eastern countries to combat nuclear trafficking.



## PRIORITY 4: ENHANCE NUCLEAR SECURITY REGIMES

- Work to establish or strengthen legal frameworks, cyber/computer security, nuclear forensics capabilities.
- Train front-line staff, regulators and operators, engage senior policymakers, provide equipment.

### Project Examples

- Over **\$6.5 million** to the IAEA to build regulatory infrastructure for nuclear security and radiation safety in 15 Latin American states.
- **\$2.1 million** to the IAEA to enhance regulatory infrastructure for nuclear security in Africa.
- Nuclear security architecture development in Morocco.



## PRIORITY 5: VERIFICATION AND COMPLIANCE

- Support international efforts to verify compliance with nuclear NACD agreements.
- Build capacity in states to ratify agreements and build expertise to sustainably implement them.



### Project Examples

- Over **\$14 million** to build capacity to implement UN sanctions on the DPRK and to detect sanctions evasion activities.
- **\$13 million** to the IAEA to support verification of Iran's compliance with international agreements.
- **\$2 million** to build a radionuclide detection station in Kazakhstan to strengthen verification of the CTBT.



Thank you!