



ORS

Office of Radiological Security

Protect · Remove · Reduce

Office of Radiological Security U.S. Department of Energy (DOE)/National Nuclear Security Administration (NNSA)



Erika Hunsicker
October 23, 2019



Global
Material
Security



MISSION: The Office of Radiological Security enhances global security by preventing high activity radioactive materials from use in acts of terrorism.

PROTECT

Protect radioactive sources used for vital medical, research, and commercial purposes.



REMOVE

Remove and dispose of disused radioactive sources.



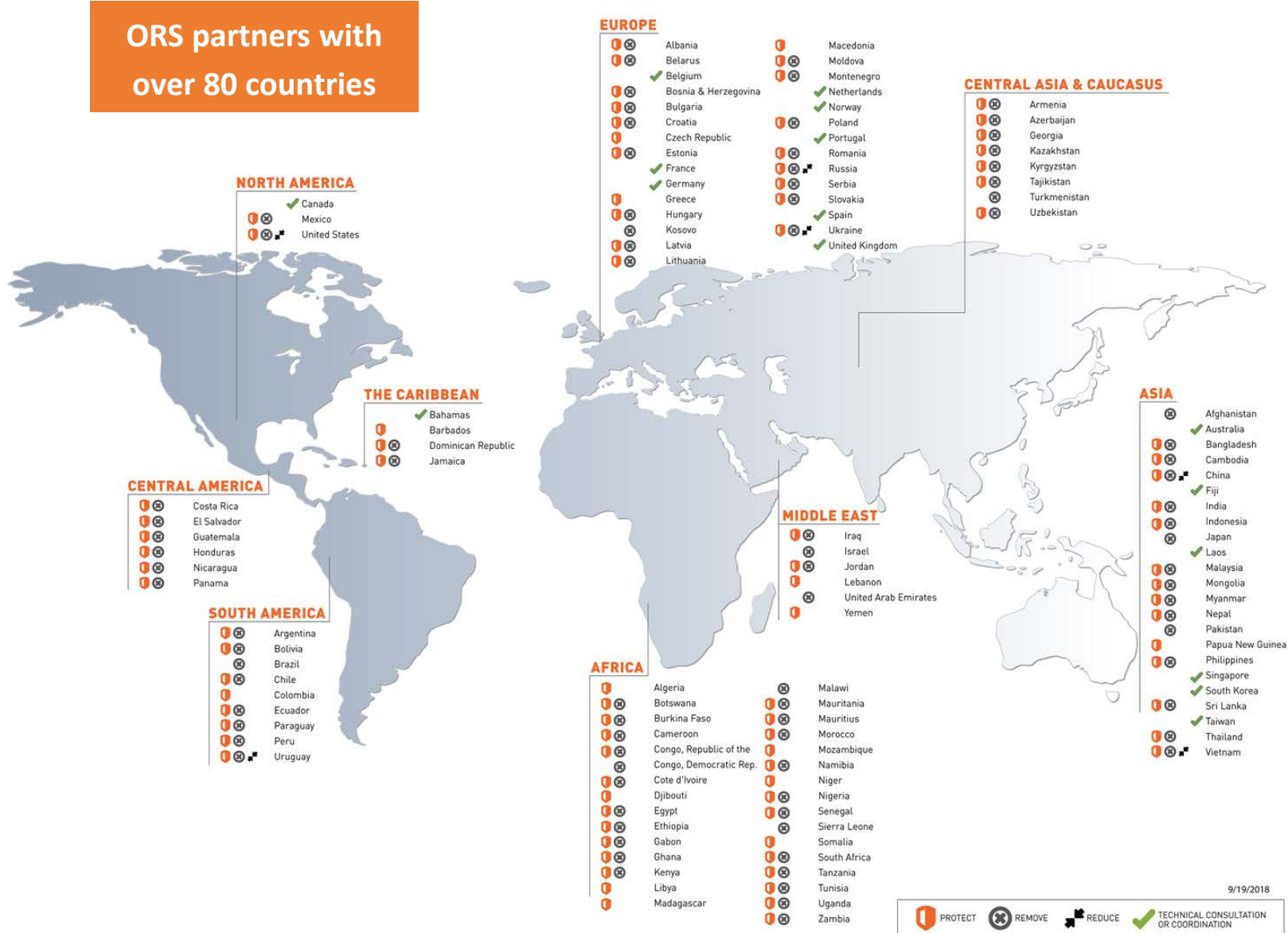
REDUCE

Reduce the global reliance on high-activity radioactive sources by promoting the adoption and development of non-radioisotopic alternative technologies.



ORS Global Partners

ORS partners with over 80 countries



9/19/2018

PROTECT
 REMOVE
 REDUCE
 TECHNICAL CONSULTATION OR COORDINATION

International Partners and Interagency Coordination

- Intergovernmental Partners include IAEA, WINS, GICNT, INTERPOL
- Coordination with 11 USG agencies



ORS resides in the U.S. Department of Energy's National Nuclear Security Administration

Protect: Security Enhancements

DETECT

Prompt Detection and
Reliable Notification



Remote Monitoring:
Critical alarms trigger notification and assessment at monitoring stations



Multi-Factor Access Control:
Requires combination of card, pin, or biometric scan for entry

DELAY

Extended Adversary
Task Time



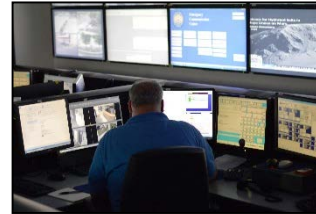
Hardened Doors



Facility Hardening

RESPOND

Timely, Aware, Equipped
and Trained Response



Centralized Monitoring Stations



Tabletop Exercises and Response Planning

TRAIN

Security and Response
Training



Alarm Response Training . Security Planning



Regulatory Development, Inspector Training

ORS CONTAINMENT STRATEGY

Protect: Mobile Source Security

Mobile sources are vulnerable to theft, especially while in the field.

ORS collaborated with industry partners to develop and deploy Mobile Source Transit Security (MSTS) system to enhance the security of mobile radioactive sources



- Partnering with major radiography and oil service companies to design and field systems
- Pilot systems in the U.S. in operation this year.
- Deploying to international partners this year

The MSTS system enables radioactive sources to be monitored as they move from base of operation to the field and back