

Challenges for the Future of Nuclear Non-Proliferation and Nuclear Security

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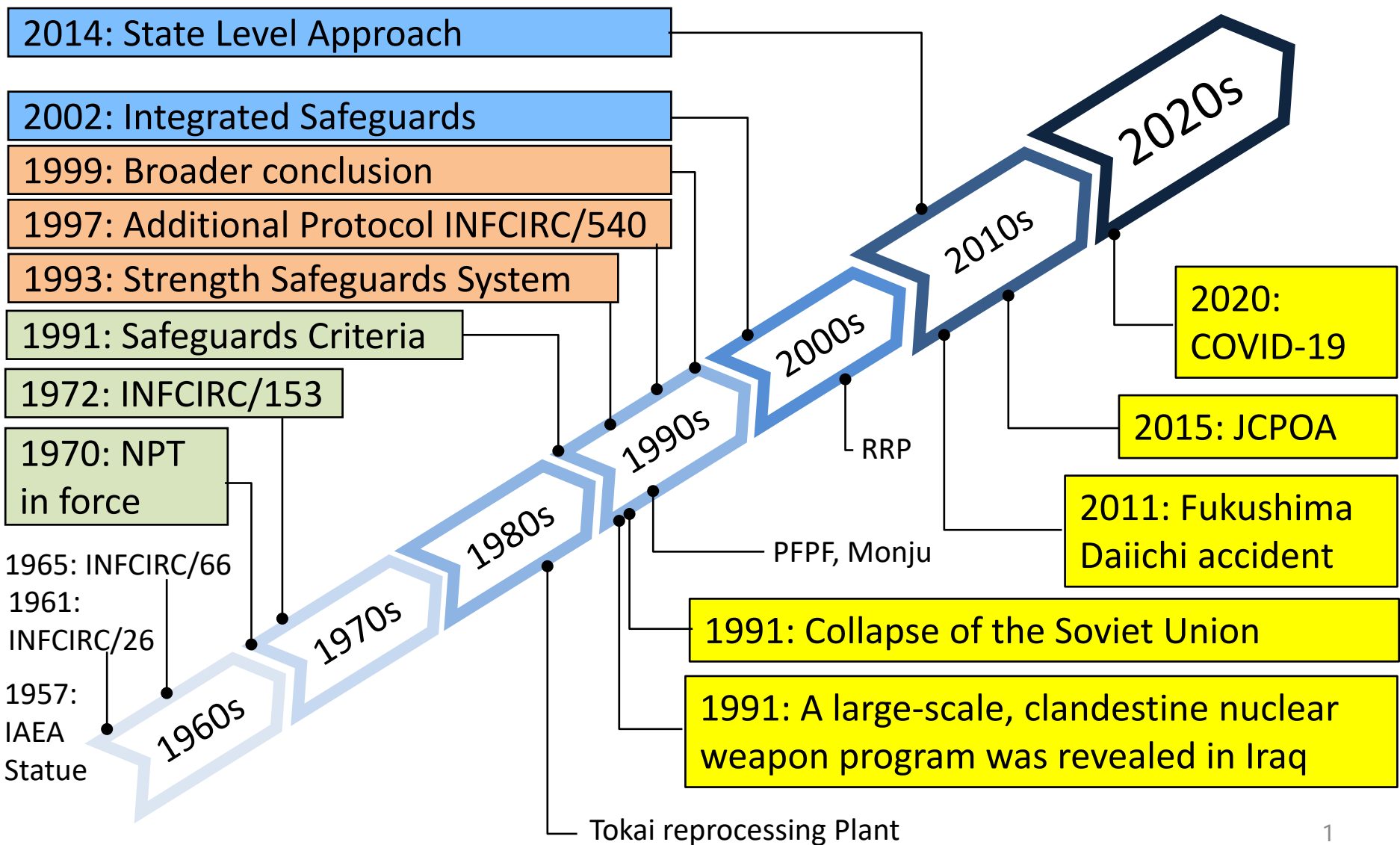


International Forum on Peaceful Use of Nuclear Energy, Nuclear
Nonproliferation and Nuclear Security

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Historical Developments on Nuclear Safeguards



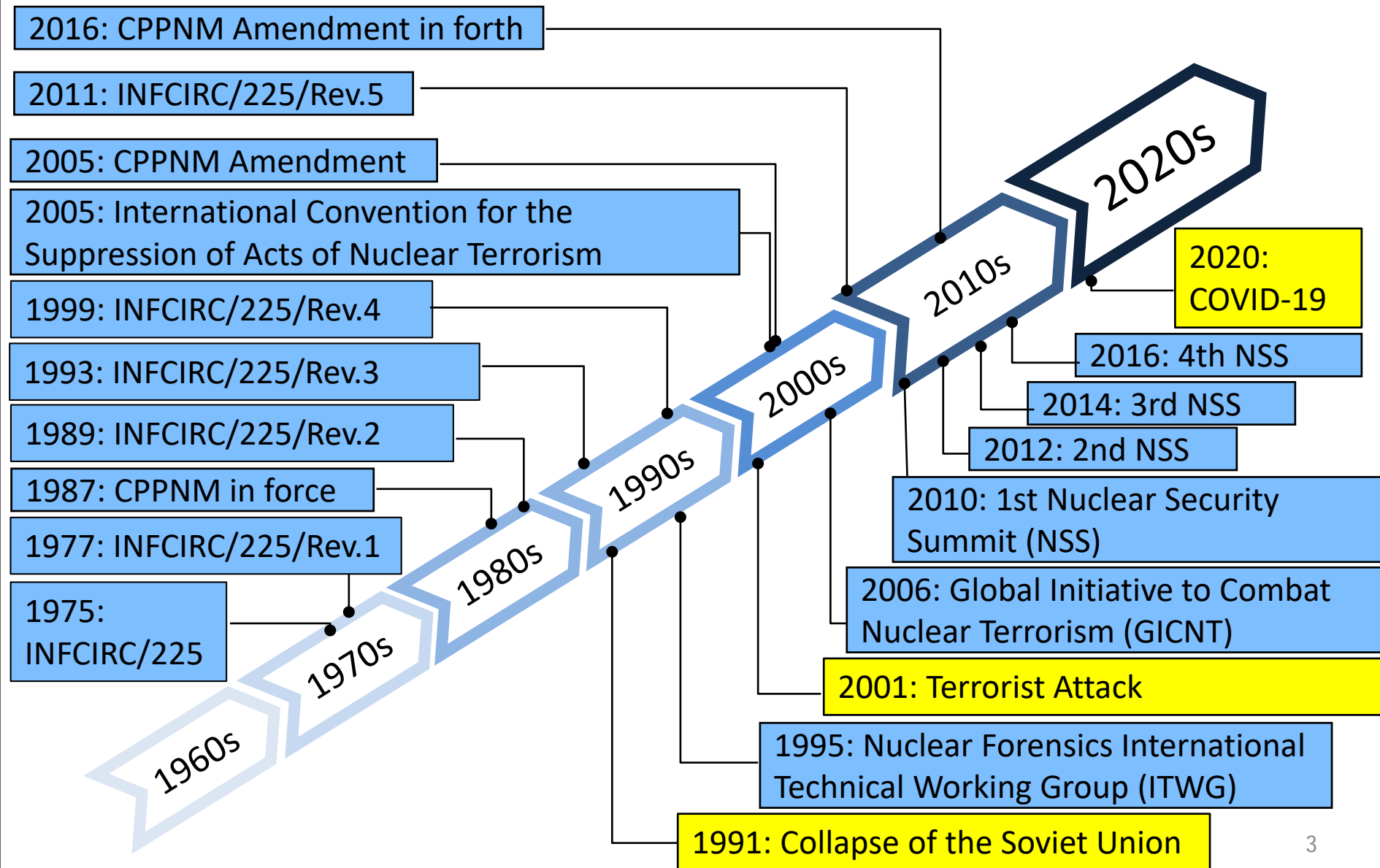
Research and Development Plan of Department of Safeguards, IAEA

Top priority R&D needs

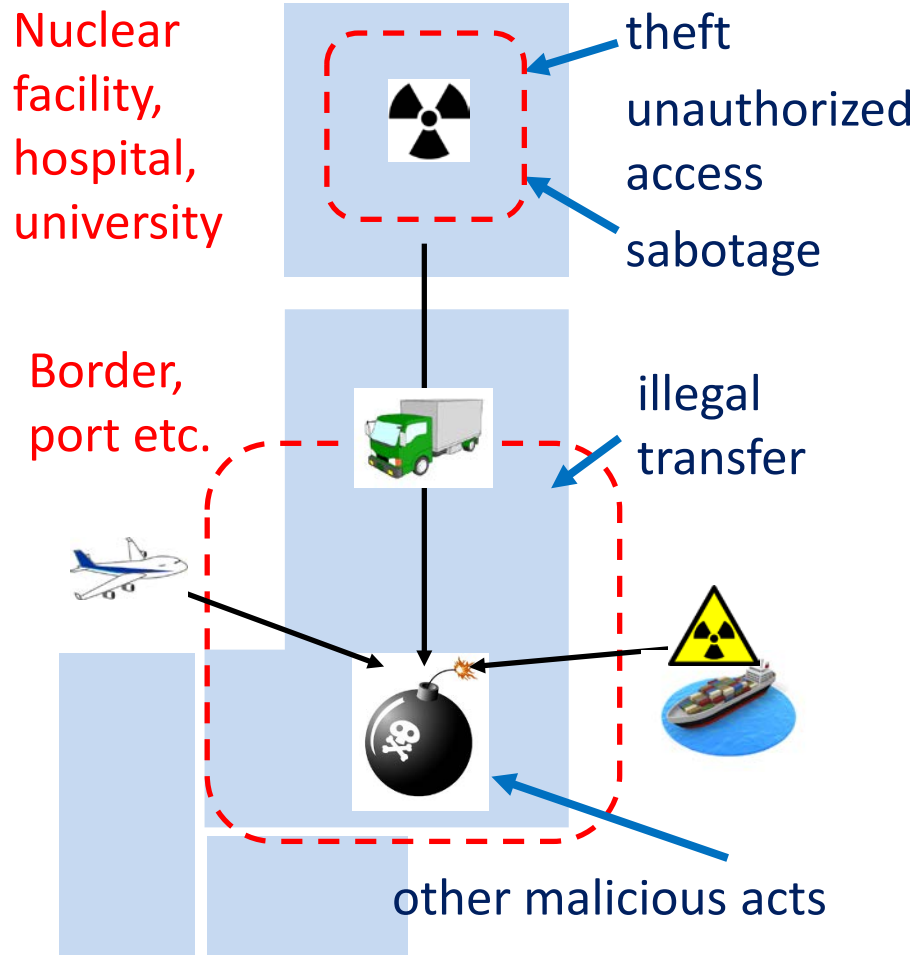
- Strengthen information collection and analysis
- Strengthen instrumentation capabilities for verification
- Enhance sensitivity, reliability and timeliness in sample analysis
- Manage safeguards technology assets strategically
- Reform human resource management
- Ensure information security
- Maintain readiness for other verification tasks
- Prepare for new types of facilities and decommissioning

“Research and Development Plan - Enhancing Capabilities for Nuclear Verification”, STR-385, January 2018 IAEA

Historical Developments on Nuclear Security



Nuclear Security Challenges



Nuclear Explosive Device (NED)

Radiological Dispersion Device (RDD)

- Protecting against the full range of threats
- Insider threat
- Cyber security
- Transportation security
- Detection of illegal transfer
- Nuclear forensic
- Nuclear security for major public events
- COVID-19

Historical Developments on Strengthening Nuclear Nonproliferation

