

IAEA Efforts for Further Enhancing the Effectiveness and the Efficiency of IAEA Safeguards

Panel 1-1

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IAEA

International Atomic Energy Agency

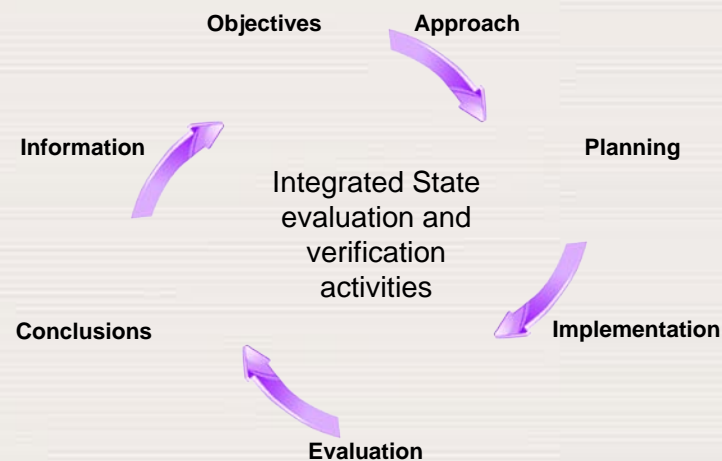
Department of Safeguards Long-Term Strategic Plan

- Completed in August 2010
- Debuted at IAEA Safeguards Symposium in November 2010
- Strategies in Plan address various elements defining or having an impact on the Department
 - Conceptual approaches
 - Legal authority
 - Technical capabilities
 - Cooperation and partnerships

Conceptual Framework

Strategies

- Further develop the State-level concept for the planning, conduct and evaluation of safeguards activities, making safeguards more information-driven, focused and efficient, in the field and at HQ
- Develop and implement State-level approaches for all States, taking into account a broader range of State-specific factors, to apply an optimized combination of safeguards measures for each State
- Implement integrated safeguards approaches for those States for which the broader conclusion has been drawn, realizing further efficiencies



Making Safeguards fully Information Driven

Strategies

- Diversify sources of information, while also assessing veracity
- Make maximum use of all information available to the Agency as a whole (States' reports and declarations; inspection activities; open sources; and other sources)
- Improve the evaluation of information (e.g. by making it more analytical and collaborative)
- Enhance internal information and knowledge sharing, addressing also cultural aspects



Exercising IAEA's Legal Authority

Strategies

- Participate in Agency efforts to promote the conclusion of CSAs and APs and rescission or modification of small quantities protocols in the remaining States
- Provide guidance and training to States - particularly those introducing nuclear power - on the implementation of their safeguards obligations
- Seek to fully implement the Agency's legal authority
- Keep legal authority under continual review to examine its responsiveness to emerging challenges and bring into States' attention weaknesses, ambiguities and gaps
- Provide input on legal authority-related aspects with respect to possible new verification missions, taking into account implementation experience to date



Enhancing Technical Capabilities

Strategies

- Continue to improve safeguards measures and techniques (e.g. containment and surveillance, destructive and non-destructive assay measurement techniques, environmental sampling, unattended and remote monitoring, etc.)

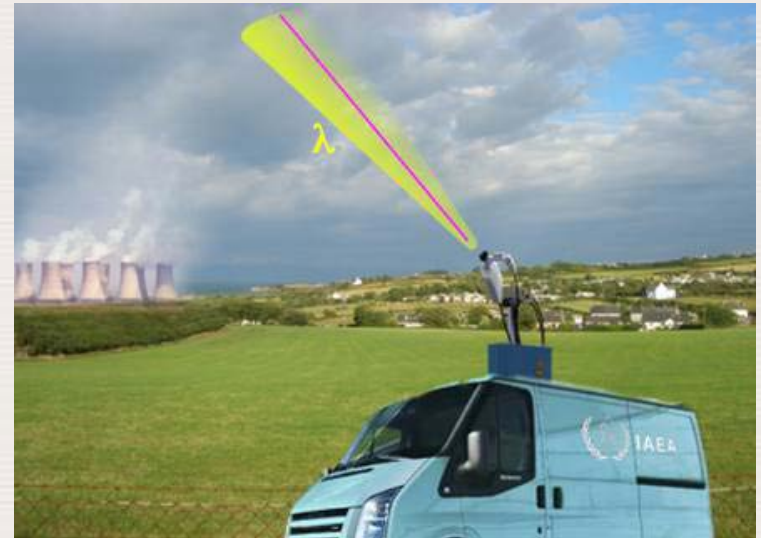


- Maintain safeguards analytical infrastructure for nuclear material and environmental sample analyses, strengthening the IAEA's Safeguards Analytical Laboratories and expanding the Network of Analytical Laboratories

Enhancing Technical Capabilities (cont'd)

Strategies

- Utilize effective **new/novel technologies** for the detection of undeclared nuclear material and activities

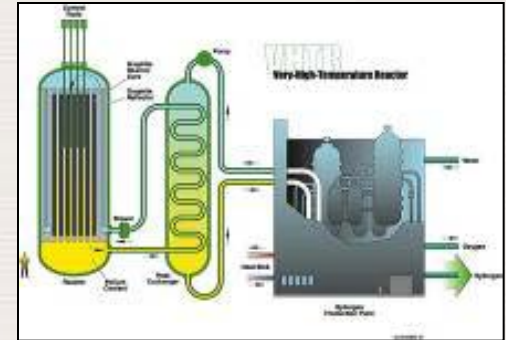


- Strengthen **technology foresight** to identify innovations with potential for verification purposes and employ **a mission driven R&D plan**

Enhancing Technical Capabilities (cont'd)

Strategies

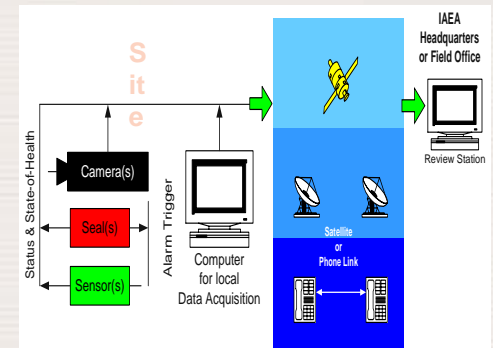
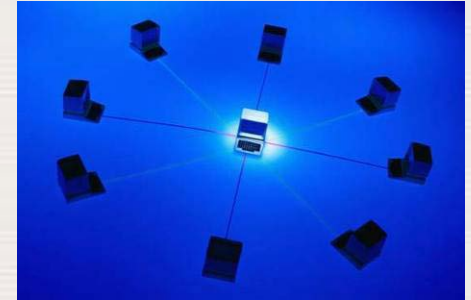
- Improve **preparedness** (e.g. in terms of safeguards approaches, expertise and equipment) to safeguard
 - ✓ Generation III and other advanced reactor types,
 - ✓ Innovative fuel cycles facilities (Generation IV), and
 - ✓ Nuclear material for non-proscribed activities
- Maintain technical readiness (e.g. expertise) to respond to requests for technical input to, or verification of, nuclear arms control and disarmament related arrangements and agreements



Enhancing Technical Capabilities (cont'd)

Strategies

- Strengthen technical tools for the search, collection, analysis and processing of safeguards relevant information
- Employ modern and integrated safeguards information architecture to store and make information available in a secure and user-friendly manner
- Make optimum use of unattended monitoring and remote transmission
- Deploy information and communication technologies to improve interconnectedness between inspectors in the field and at Headquarters.



Strengthening Cooperation and Partnerships

Strategies

- Work to ensure that all States have competent State SG authorities and support States in making their SSACs/RSACs more effective
- Make greater use of effective SSACs/RSACs, realizing efficiencies in safeguards implementation where possible



- Engage States to increase the voluntary sharing of safeguards relevant information
- Increase cooperation and improve coordination with Member State Support Programmes (MSSPs)

Strengthening Cooperation and Partnerships (cont'd)

Strategies

- Develop and promote the concept of 'safeguardability' to facilitate effective and efficient future safeguards implementation



- Participate in international efforts (e.g. INPRO) to increase nuclear facilities' **resistance to proliferation**

- Share implementation experiences and good practices with other organizations and entities combating the proliferation of nuclear weapons and other weapons of mass destruction, as appropriate

Planning, Finances and Performance for MP4

Strategies

- Project and prioritize programmatic needs through strategic planning and policy guidance from Member States
- Assess associated budgetary needs. Seek sufficient and predictable funds for MP4 and flexibility in their allocation, and prepare for unexpected expenses



- Optimize the use of financial resources through e.g. quality management and enterprise resource planning, and seek further efficiencies
- Measure performance and increase transparency and accountability to Member States