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# **Safeguards Technology Strategic Planning Pentachart**

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# Safeguards Technology Strategic Planning



INTERNATIONAL NUCLEAR SAFEGUARDS

## Identifying new technologies to meet the safeguards needs of the future

### Background/State of the Art

- Builds on earlier strategic planning workshops conducted for SGIT, SGTS, and SGCP.
- Many of recommendations from these workshops have been successfully implemented at the IAEA
- Provide a context for evaluating new approaches for anticipated safeguards challenges of the future.
- Approach used by government and military to plan for an uncertain future.
- Uses consensus decision-making.

### Innovation

- Provides a forum for collaborative decision making.
- Clearly identifies assumptions so that they can be validated.
- Develops value-weighted priority lists.
- Identifies unexpected gaps in knowledge or weaknesses in existing plans.

### Approach, Metrics and Outcomes

#### MAIN GOAL

- Advance the IAEA's long-range plan for evaluating and developing new safeguards field instruments

#### HOW IT WORKS

- Identify scenarios for future or current safeguards challenges
- Identify and invite experts with appropriate expertise to participate in strategic planning workshop
- Conduct a workshop using these scenarios, with breakout groups to identify potential technological solutions and areas for further R&D development
- Develop value-weighted prioritized lists of potential areas for research and development.
- Draft a report summarizing the workshop outcomes with recommendations for future action

#### ASSUMPTIONS, LIMITATIONS & CONSTRAINTS

- Working group approximately 15-20 people
- Each participant is a subject matter expert in a safeguards applicable technology
- Independent thinking focused on the scenario – meaning no one selling specific technology
- Success of workshop depends on the participants and the quality of the scenarios.

### Impact

- Focuses attention on the long-term challenges IAEA faces
- Assesses ability of technological development system to meet those challenges
- Provides structured approach for strategic planning
- Identifies potential future improvements in technical capabilities

- **Start of FY TRL = N/A**
- **End of FY TRL (Planned) = N/A**

### Goals/Action Plan

#### Current FY

- Develop workshop goals and identify roles of support personnel
- Plan workshop activities and finalize agenda
- Develop workshop scenarios
- Conduct workshop
- Draft report summarizing the conclusions of the workshop

### Team

#### BNL

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