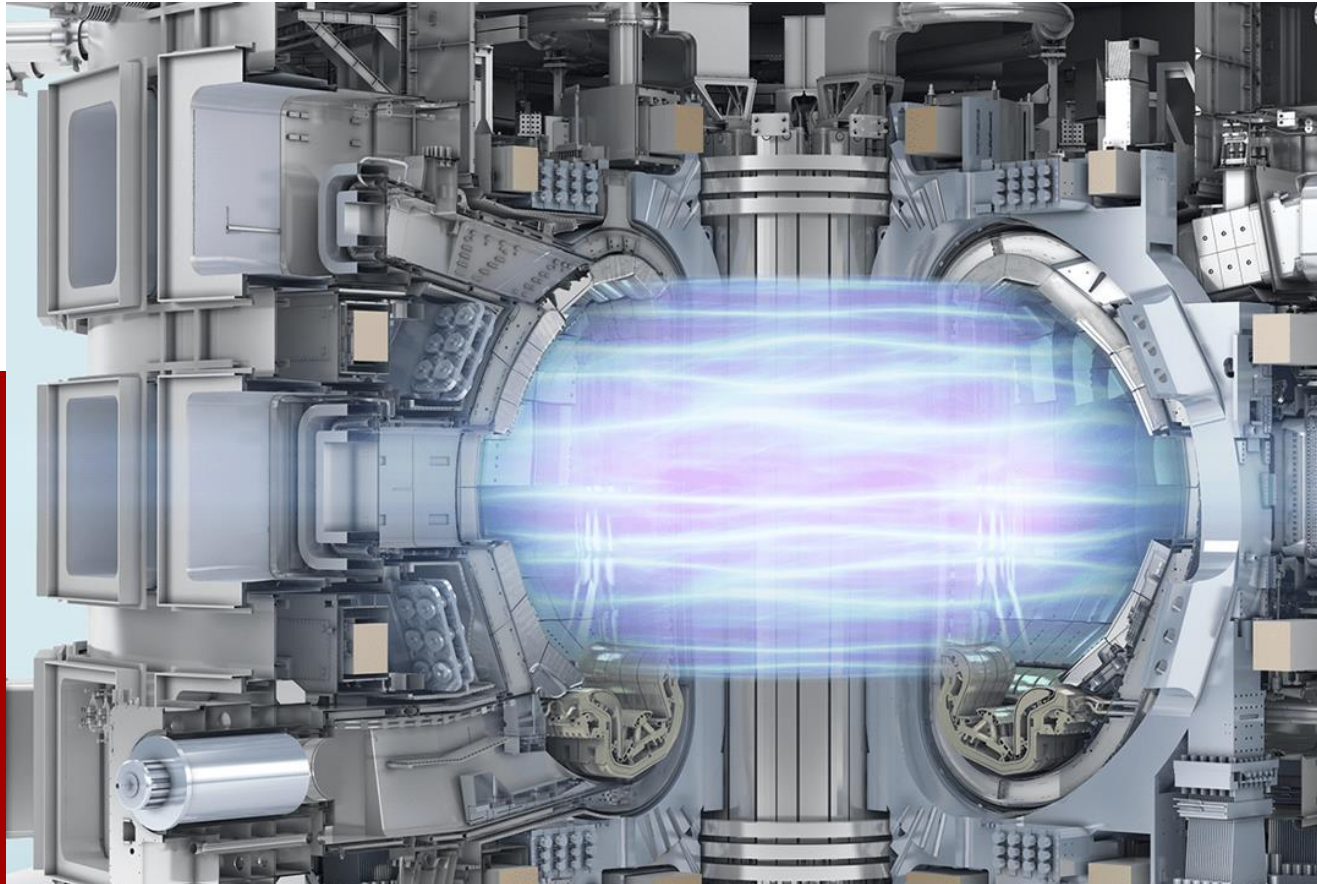


INPROCAP

**Training 3
Market analysis
in the context
of innovation
procurement**





Collaborative Exercise: Conducting a mini-SOTA analysis

Mini-SOTA Analysis

Collaborative Exercise: Conducting a mini-SOTA analysis

Group Work (30 min):

- Each group receives a innovation procurement scenario
- You work on the tasks, fill in the handout
- Online participants:
 - Group 1 – Scenario A
 - Group 2 – Scenario B
 - Group 3 – Scenario C
 - Group 4 – Scenario D
- On-site participants: They will be given scenario on site.

After group work there will be group presentation:

- Each group presents main ideas max for 5 minutes

Scenarios

Scenario	Scenario A: Advanced Radiation Detection for Particle Accelerator Safety	Scenario B: Predictive Maintenance for Research Infrastructure	Scenario C: Sustainable Energy Storage for Large- Scale Research Facilities	Scenario D: Quantum-Safe Cybersecurity for Sensitive Research Data
Context	BSO needs real-time radiation monitoring system covering 2 km facility	SO operates complex machinery (€100M value), downtime costs €200k/day	BSO needs 20 MWh storage, 95% efficiency, 20-year lifespan	BSO handles data that must remain secure for 30+ years (quantum computer threat)
Requirement	Sub-second detection, integration with emergency shutdown, pattern recognition	Predict failures 48-72h in advance, integrate with 15 legacy systems	Peak shaving, grid stability, renewable integration	Encrypt 10 PB data, post-quantum algorithms, international data sharing
Challenge	Existing systems cover smaller areas, lack prediction	No training data available for this specific equipment type	Commercial batteries don't meet scale/efficiency requirements	Standards still emerging, few commercial solutions

Mini-SOTA Analysis

Your task (complete template provided):

- Identify information you need (create research plan)
- Identify potential data sources and search strategies
- Determine likely TRL of existing solutions
- List 3-5 potential supplier types or categories
- Assess market maturity: PPI, PCP, or Innovation Partnership?
- Identify 3 key risks or unknowns requiring further investigation
- Any other inputs?.....

Mini-SOTA Analysis

Group presentations and discussion:

- Each group presents 5 minutes summary
- Discussion of different approaches and insights