



SEENoTC and its Objectives

- Space Environments and Effects Network of Technical Competences
 - Grouping of the <u>active</u> players in Europe prepared to <u>contribute</u> to a coordinated effort.
 Organisation:

 - Working Group and Steering Board
 - Representatives from member states' ESA and Eurospace,
 Liaisons with ECSS-RWG, SPINE, SWWT
- Objectives:
 - Improve coordination of active players in Europe
 - Enhance value of activities;
 - Increase opportunities for community
 - Ensure activities address user needs

SEENoTC Scope

Space Environments & Effects on Space Systems

- Radiation environments & effects
- Plasma environments & effects
- Space Weather, but:
- Only as it affects space systems;
- Excluding EM propagation and atmospheric effects;
- Explicitly excluded:
 - Space debris & micrometeoroids
 - Thermal

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Surveillance (= "tracking")

detailed SEENotC objectives

- support <u>increased coordination</u> among the activities carried out in Europe on space environments and their effects activities;
- provide for the execution of a coordinated programme of
- in-orbit technological experiments; ground facilities establishment and exploitation; and analysis and modelling infrastructures;
- coordinate planning of actions; share opportunities for experimentation in a more efficient manner;
- share resulting data for spacecraft development and operations support activities performed in spacecraft development phases;

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- Support activities performed in spacecraft development phases; initiate activities to: establish and maintain support infrastructures, validate models and tools; and verify the compatibility and coherence of the tools and facilities of the SEENotC's member; and
- take into account the requirements and views of industry to ensure that the products developed by the SEENotC Participants result in improved efficiency and competitiveness for the European industry.

Assumes responsibility for harmonisation in this area (delegated from the THAG: Techno Harmonisation Advisory Group)

GSTP-5

- General Support Technology Programme
- Expanded compared to previous GSTPs
- Establishment of extra "lines":
 - 1. General activities (as now) -permanently open AO 2. Building blocks
 - (equipment prepared to be available "off the shelf");
- 3. Security-related
- In-Orbit Demonstration (IOD): flight experiments; technology missions;
- = Optional Programme: • -> actions needed from ESA side and at national delegation (to "sign up for an a vitv")

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ARTES

- Telecommunications R&D programme
- ARTES-5 relates to platform technologies
 best one for s/c-plasma interaction proposals
 A call for ideas is open
 Closes 13 June
 National support necessary before an idea can be executed (implies they nav)
- ARTES-8

 - Alphasat (cooperation with CNES)
 Technology payloads include radiation environment and effects
 No plasma payload
 EP
- ARTES-11
 small GEO satellite

Galileo Internal definition Approved by PB-NAV

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Next Steps

- Provide to SEENoTC WG:
 - SPINE assessment of requirements
- SPINE recommended approach (parts to be done nationally, parts to be done by ESA, strategy,...)
 Ensure that national delegations to WG, SB are briefed
- Ensure that national THAG and IPC/JCB delegations are briefed and will support any necessary proposal in optional programme (implies they pay!)
- Ensure that ESA staff put in proposals at the appropriate time