

SLOVAKIA NATIONAL SPACE SAFETY PROGRAMME (S2P) STUDY: PECS Activity Overview

AO/1-10804/21/D/AP

17/06/2021

New, Associate and Cooperating States (CIP-IP),
Industrial Policy and SME Division

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DISCLAIMER

- This presentation material does not contain sufficient information to be used officially ,in any way, in the context of the expected ITT (Invitation-to-Tender AO/1-10804/21/D/AP).
- This presentation is just to help understand, in a simplified manner, some of the Rules and Procedures associated with ESA procurements.
- Please ensure that any proposal submitted to ESA is compliant with the requirements contained in the official ITT documentation specific to the tender.

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Introduction

The **Government of the Slovak Republic** adopted on **7th October 2020** the **resolution approving the intention of Slovakia to continue in cooperation with ESA after end of PECS extension period** with focus **to become an Associate Member** and approved financial contribution to ESA of 4,5 million € per year during new Slovak budget period.

→ PECS

The **ESA Council** approved an 18 month extension of the current PECS agreement on the **16th of December 2020** to enable further strengthening of the Slovak Space Industry and the opportunity for advancement of products and services to higher Technical Readiness Levels (TRLs). **This is expected to offer excellent development opportunities for Slovak Space in 2021/2022.**

This expected Top Down PECS study is envisaged to provide a preparatory roadmap to ensure a complimentary link with ESA's Space Safety Work Plan activities. Thus, offering to further strengthen the industrial base required to achieve successful integration into ESA Space Safety Programme.

SLOVAKIA NATIONAL SPACE SAFETY PROGRAMME (S2P) STUDY: Objectives & Work Overview



The objective is to prepare Slovak entities for efficient future participation in the ESA Space Safety Programme (S2P). This activity is intended to explore and identify existing and future Slovak infrastructure, assets and capabilities and map them to their applicability in the frame of ESA's Space Safety Programme roadmap.

Slovak Capabilities and Assets relevant to S2P shall be mapped against the S2P Core Activities and Cornerstones and a road map for different scenarios of a potential Slovak contribution to created considering:

- Likelihood of geo-return in a competitive environment.
- Potential for spin-off / commercial industrial expansion or the provision of long term returns (through products or services).
- Most cost effective resource utilisation / leveraging.
- Optimisation of European and Worldwide publicity / visibility for Slovakia competencies.
- Maximisation of international cooperation with other ESA Member States.



SLOVAKIA NATIONAL SPACE SAFETY PROGRAMME (S2P) STUDY: Work Overview & Practical Information



Task 1: Collection of Capabilities and Assets - Discussions and survey of industry and academia, including site visits and traditional literature review to arrive at a comprehensive capabilities inventory

Task 2: Assessment and Mapping to Topics

- The mapping of the capabilities and assets against the S2P Core Activities and Cornerstones.
- Examination of the current TRL of each capability and asset
- Examination of the level of current international cooperation in each area of potential
- Comparison of the capability / asset with respect to the state of the art and number of other players in that area in existing Member states.

Task 3: Roadmap generation - Propose potential pathways for maximising long term returns on investment and optimising international cooperation.

- **Suggested budget ceiling / duration for all work: €50K / ~6 months**
- **Expected publication date on ESA STAR: 17 June 2021**
- **Deadline for proposals: 23 August 2021 @ 13:00 (CEST – Amsterdam)**
- **Start of work expected: 4Q2021**

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General Information

Hints and tips: Standards



It is highly recommended to examine ECSS documentation that is available for free download from www.ECSS.nl. Registration on the website is free. Documents recommended for reading pleasure include:

- **ECSS-M-ST-10C Project Planning and Implementation**
- **ECSS-E-HB-11A, Space Engineering, Technology readiness level (TRL) guidelines**

Additional relevant ESA reading includes the following files from <https://swe.ssa.esa.int/documents> :

- **SSA Mission Requirements Document, ref. SSA-GEN-RS-MRD-1000 (i3.0, 29/04/2011)**
- **SSA Common Customer Requirements Document, ref. SSA-GEN-RS-CRD-100 (i2.2, 20/07/2011)**
- **SSA SWE Customer Requirements, ref. SSA-SWE-RS-CRD-1001 (i4.5a, 28/07/2011)**
- **SSA SST Customer Requirements, ref. SSA-SST-RS-CRD-1001 (i4.4, 03/03/2012)**
- **SSA NEO Customer Requirements, ref. SSA-NEO-SYS-CRD-1001 (i5.4, 29/05/2012)**



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Support information in esa-star Registration User Manual:
<https://esastar-emr.sso.esa.int/Account/DownloadFile>

**See also: the presentation “BRIEFING HANDBOOK
BASIC OF ESA PROCUREMENT” for more support information**

ITT Expected Opening: **17 June 2021**
Submission Deadline : **23 August 2021 @ 13:00 CEST**
Negotiation / contract expected: **3Q2021**

