

P3-SST-III Robotic Telescopes Demonstration Change Request 02 Briefing for Slovak subcontractor

Iguassu Software Systems, a.s. 11/05/2021, teleconference



Agenda

- P3-SST-III project overview
- P3-SST-III Change Request 02 objectives
- Proposal Preparation
 - Cover Letter
 - Detailed Proposal
 - Technical Part
 - Management, Administrative and Implementation Part
 - Financial Part
- Questions & Answers



P3-SST-III Overview

- Project objectives
 - Test-Bed Telescope (TBT) updates: SW & HW
 - Networking of passive optical sensors
- Test-Bed Telescope
 - Autonomous observations of NEOs and SST
 - 2 identical telescopes: Cebreros (Spain), La Silla (Chile)
 - TBT SW: scheduler, control (RTS2), processing (ASAP), HMI
 - TBT Scheduler
 - Strategies for NEO, SST
 - Follow-up, survey (mosaic)
 - Automatic mode
 - Scheduling and Commanding Message (SCM)



P3-SST-III Overview

- Test-Bed Telescope
 - TBT Control (RTS₂)
 - Observation targets from scheduler
 - TBT Processing (ASAP)
 - Automated real time processing and tracklet building
 - NEOs: discoveries presented on a web page for user confirmation, automatic reports to MPC
 - SST: automatic TDM generation and upload to SFTP
 - TBT HMI
 - TBT web interface
 - RTS2 monitoring and control
 - On-site webcams
 - Telescope networks



P3-SST-III Overview

- Networking of passive optical sensors
 - Interoperability between different sensors and networks
 - 6 sensors were selected:
 - TBT CEB
 - Panoptes-Solaris: Panoptes-PIR, Panoptes-MAM, Panoptes-COG, Solaris-2
 - SHOT
 - ICDs
 - Observation Campaign Plan
 - Collaborative observations of SST targets (GEO, GNSS, Molniya)
 - Schedule same for all sensors, 15-min observation slot per target
 - Ongoing



P3-SST-III Change Request 02 Objectives

- Prepare Slovak entities for future participation in ESA S2P Programme
- Technology developments for robotic telescopes
- Telescope networks with Slovak sensors
- Data exchange formats, protocols and standards
- Work to be performed described in the SoW
- 3 Tasks:
 - Task 1: Interface Capacity with Robotic Telescopes
 - Task 2: Observation Campaigns for Network Capacity Demonstration – SST, NEOs
 - Task 3: Lessons learnt and identified gaps/shortcoming in Task-2



- Cover Letter and Detailed Proposal
- Proposal template distributed
- Cover Letter
 - Company details, including ESA registration codes (<u>esa-star</u> registration required)
 - Total price
 - Contact persons
 - Delivered as a separate document, signed
- Detailed Proposal
 - Technical Part
 - Management, Administrative and Implementation Part
 - Financial Part



- Detailed Proposal Technical Part
 - Technical requirements and objectives
 - Provide analysis of the technical requirements (and suggested modifications, if any)
 - Describe the main technical objectives of the ITT
 - Describe the approach how to reach the objectives
 - Potential Problem Areas
 - Describe the potential problematic areas and proposed solutions
 - Technical Implementation
 - Proposed work logic
 - Flowchart and description
 - Shall contain milestones/reviews



- Detailed Proposal Technical Part
 - Contents of the proposed work
 - Work Breakdown Structure (WBS)
 - Divide the work into individual WPs/sub-WPs
 - Provide WBS diagram
 - Avoid too little/too many WPs
 - Work Package Description (WPD)
 - For each WP provide ESA PSS-A20
 - Background
 - Existing concepts/products
 - 3rd party concepts/products
 - Background of the company(ies)

PROJECT:	PHASE:	WP:
WP Title:		Sheet of
Company:		
WP Manager:		Issue Ref
Start Event:	Planned Date:	
End Event:	Planned	Issue
	Date:	Date
Inputs:		
Tasks:		
Outputs:		



- Detailed Proposal Technical Part
 - Technical Reservations, Technical Compliance
 - Reservations
 - Technical Compliance Matrix
 - With requirements from SoW

REQUIREMENT (*)	COMPLIANT (Y/N/P) (**)	REMARKS (***)
Ro1		
Ro2		
R		



- Detailed Proposal Management, Implementation and Administrative Part
 - Team organization and personnel
 - Proposed team
 - Team composition, key personnel, reporting, time dedication
 - Curricula Vitae
 - For all key personnel
 - Planning
 - Proposed schedule and milestones
 - Shall follow SoW
 - Bar chart



- Detailed Proposal Management, Implementation and Administrative Part
 - List of deliverable items
 - Shall follow SoW
 - Non-conformances / limitations
- Detailed Proposal Financial Part
 - Price quotation for the contemplated contract
 - FFP, maximum 180,000 Euro
 - Subcontracting plan
 - Details of your subcontractor (if applicable)



- Detailed Proposal Financial Part
 - Detailed Price Breakdown
 - PSS Costing forms
 - PSS A1, A2 (+ exhibits), A8, A15.1
 - Download from esa-star publication
 - Provide also in original format (Excel) and as a signed pdf
 - Milestone Payment Plan
 - Maximum 2 payments per 12 month
 - Payments shall be associated with formal milestones
 - Final payment required
 - Payments from Iguassu to SK entity
 - Travel and subsistence plan
 - Teleconference preferred, travel can be proposed for FP



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Please review the supporting documentation available on the Slovak Space Portal for more information. Please direct questions related to this opportunity to the below contact person.

The proposal submittal date is: 7th June 2021 at 13:00 CEST

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General interest questions related to potential partners for this or other Slovak Space topics may be directed to Michal.Brichta@sario.sk.