

CLIMATE-SPACE: Upcoming ITT on x-ECV

Anna Maria Trofaier
ESA Climate Office

13th ESA CCI Colocation Meeting

07/11/2023

- Created long-term, consistent, unbiased climate data records with error-characterisation.
- 27 ECV projects. Each with multiple climate data records
- This is the excellence base on which we are building ESA CLIMATE-SPACE

The ESA CLIMATE-SPACE Cross-ECV (x-ECV) projects will build on this excellence base to address important scientific questions.

- CCI programme paved the way for x-ECV projects, e.g.:
 - Sea Level Budget Closure (SLBC)
 - Regional Carbon Cycle Assessment and Processes (RECCAP) and RECCAP-2

- Focus for ESA CLIMATE-SPACE x-ECV will be on:
 - Assessing the Climate System as part of the Earth System and linking its complex interactions through a x-ECV analysis to address knowledge gaps established by the scientific community.

Proposals should

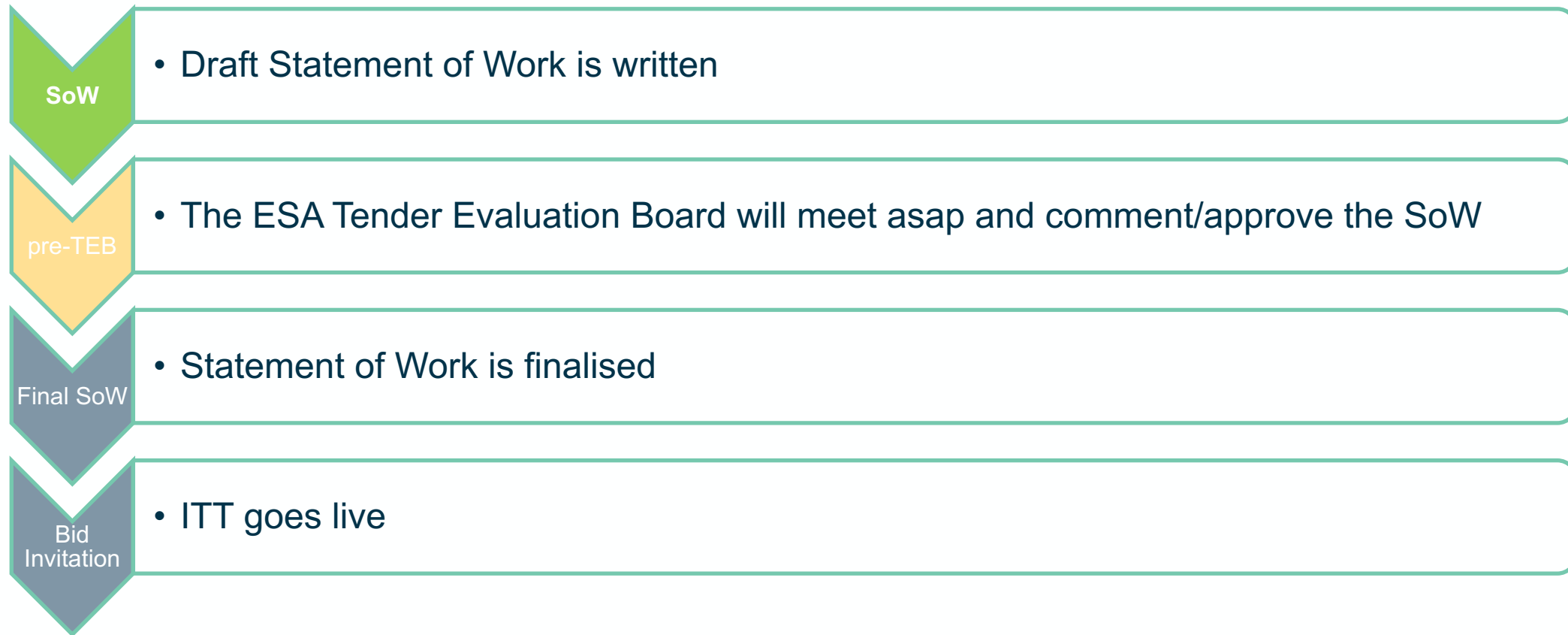
- Maximise the exploitation of CCI ECVs
- Focus on specific topics that directly respond to identified knowledge gaps and scientific needs (e.g. WCRP Strategic Plan 2019-2028, GCOS updated implementation plan 2022, IPCC AR6). This includes work on budgets, cycles, and processes.
- In comparison to previous ESA CCI cross-ECV work, including Research Fellowship projects, the x-ECV activity will bring together scientists from different disciplines to build international consortia that will tackle open questions in Climate Science.

Anticipated Contracts: 2-4

ITT to be released in **end of Nov 2023** | 0.5-2 M€ per contract

Procurement mechanism: Open competitive tender

What's the procurement status?



How will we evaluate the proposals?

Standard ESA evaluation criteria apply:

Relevant background and experience of the companies/organisations, scientific excellence of the staff, and whether the team proposed represents relevant state-of-the-art within the territory of CLIMATE SPACE participating States
Understanding and critical review of the requirements and objectives; discussion of problem areas and of the technical constraints
Quality, completeness and suitability of proposed programme of work; adequacy of engineering/scientific research approach.
Adequacy of management, credibility costing and planning for the execution of the work.
Compliance with administrative tender conditions and acceptance of Contract conditions.

Top 3 FAQs from ESA CLIMATE-SPACE Open Day:

1. Will x-ECV project activities feedback into ECVs projects? – Yes, engagement with relevant ECV projects is required, and a scientific roadmap will be part of the final deliverables.
2. Can PhDs work on the project? – Yes, if it supports their own independent work, but this project will be delivered in close collaboration with several institutes and is not an independent postgraduate research grant.
3. Can the x-ECV project be e.g., a consistency study only? – No, x-ECV projects should address a climate science problem rather than a data quality problem.