

The background of the slide is a high-quality image of the Solaris mission. It shows the Earth's horizon on the left, with a blue atmosphere and white clouds. In the center and right, the large, blue, grid-like solar panels of the Solaris satellite are deployed. The satellite's central body is visible, featuring gold-colored thermal insulation and various instruments. The scene is set against the blackness of space, with a few distant stars visible.

SOLARIS: Overview and current status



SOLARIS Research & Technology Day

Online 14 March 2023

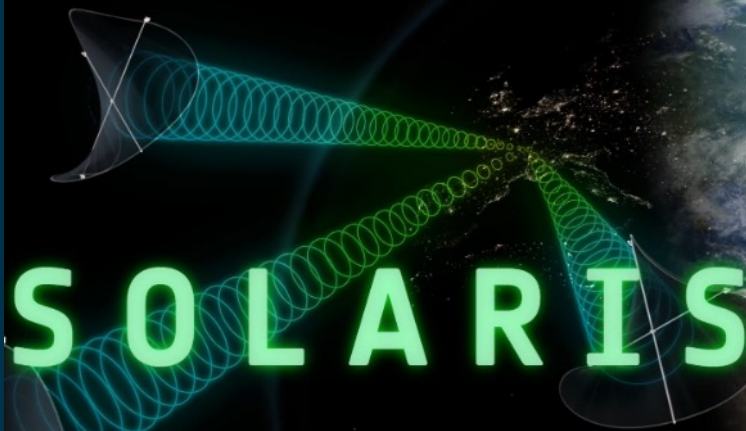
Sanjay Vijendran
Solaris Lead
European Space Agency

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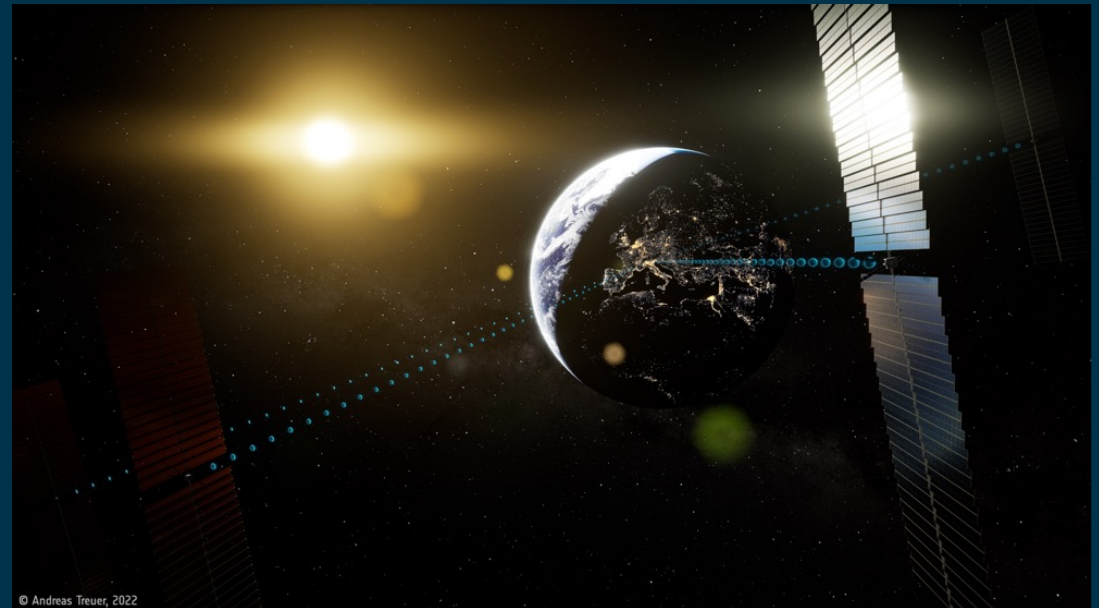


Council Meeting at Ministerial Level

Paris, 22-23 November 2022



**A PROPOSAL TO PREPARE EUROPE FOR CLEAN
AND SECURE ENERGY FROM SPACE FOR EARTH**



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THE EUROPEAN SPACE AGENCY

SOLARIS initiative objectives 2023-25

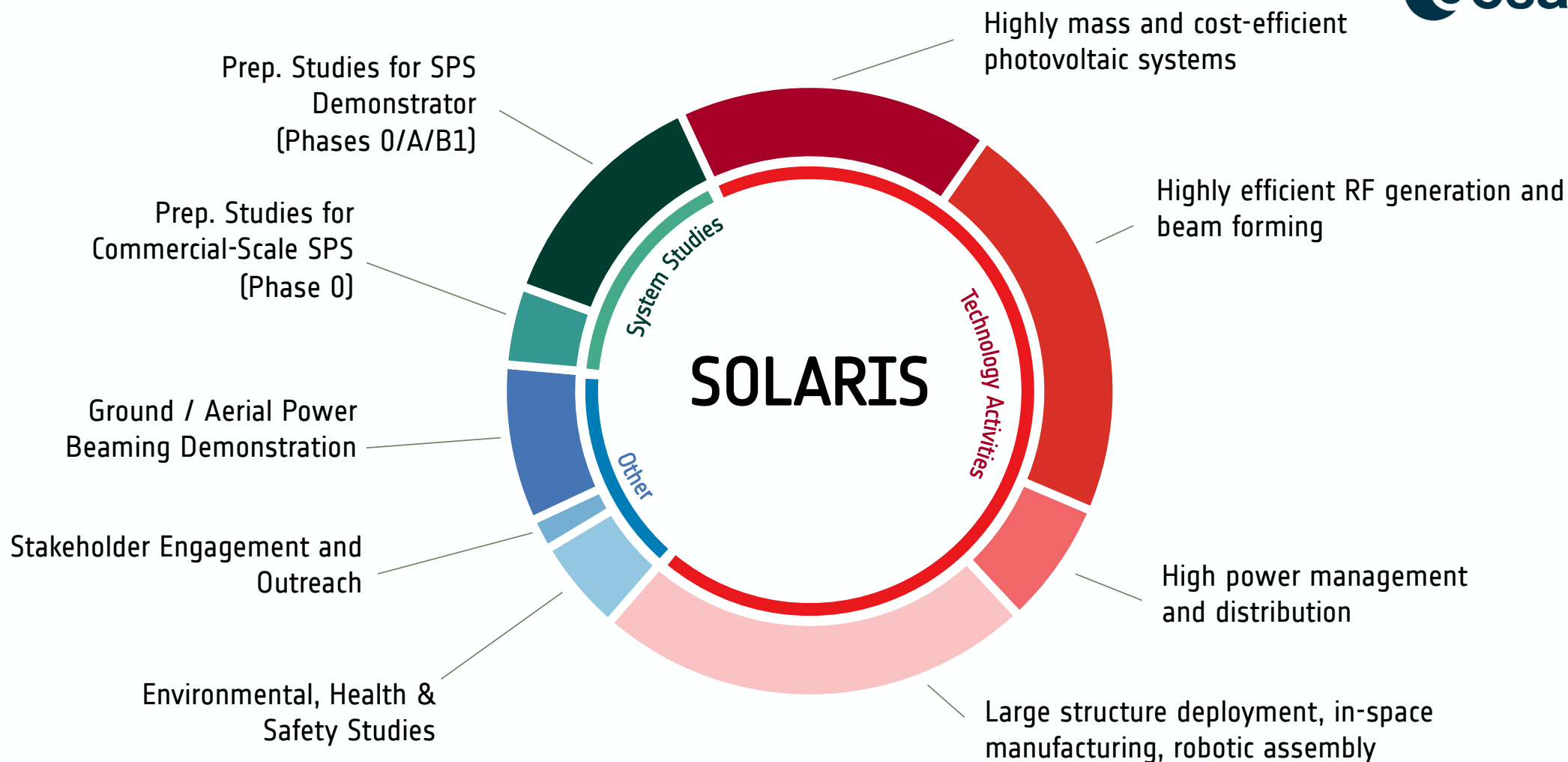
Determine **benefits, technical feasibility, costs and risk**

Raise awareness of SBSP amongst key stakeholders

Establish opportunities for international cooperation

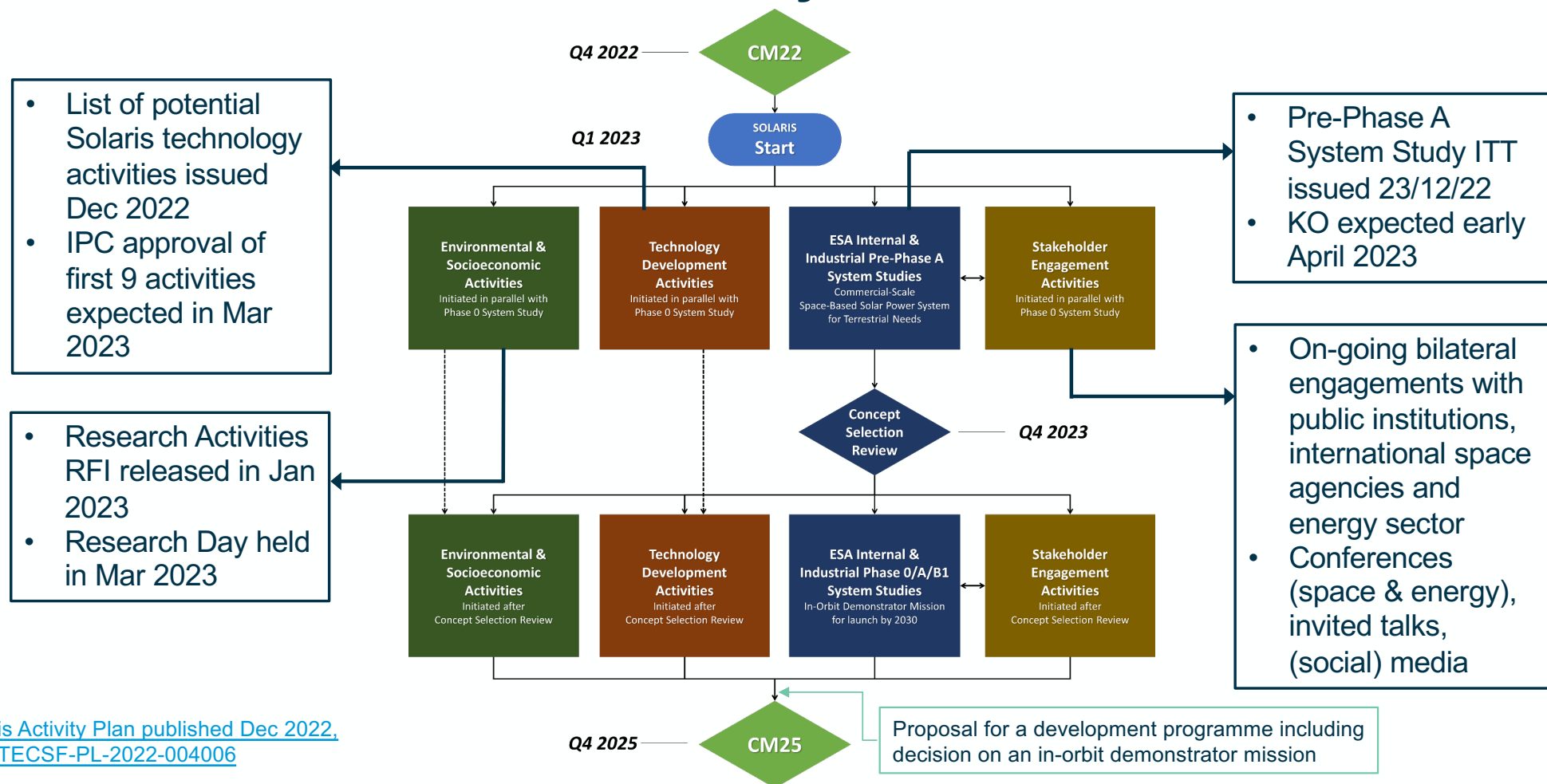
Prepare **proposal for a development programme**

Position Europe as a **serious player in SBSP**





Space-based Solar Power Activity Plan & Status



[Solaris Activity Plan published Dec 2022, ESA-TECSF-PL-2022-004006](#)

ESA's next steps



- Presentation of SBSP technology workplan in GSTP Element 1 to IPAC on 16 Mar 2023
- Release of Open Space Innovation Platform (OSIP) Campaign for Solaris Research Activities (still tbc) – Apr 2023
- Kick-off of SBSP Pre-Phase A studies – Apr 2023
- Issue Technology activity Invitation To Tenders rapidly after receipt of Letters of Support from MS
- Continue to engage across Europe and internationally with stakeholders and potential future partners.
 - Look to establishing appropriate forum in Europe to bring interested space, energy and public sector actors together to advance SBSP
 - Lead/support creation of an international SBSP coalition of space, energy and public sector actors?

www.esa.int/solaris



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