

ESA's Space Weather System Plans

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Space Safety Programme Office

**Space Weather Operations and Research Infrastructure:
Workshop Part I**

16-17 June 2020

Space Safety

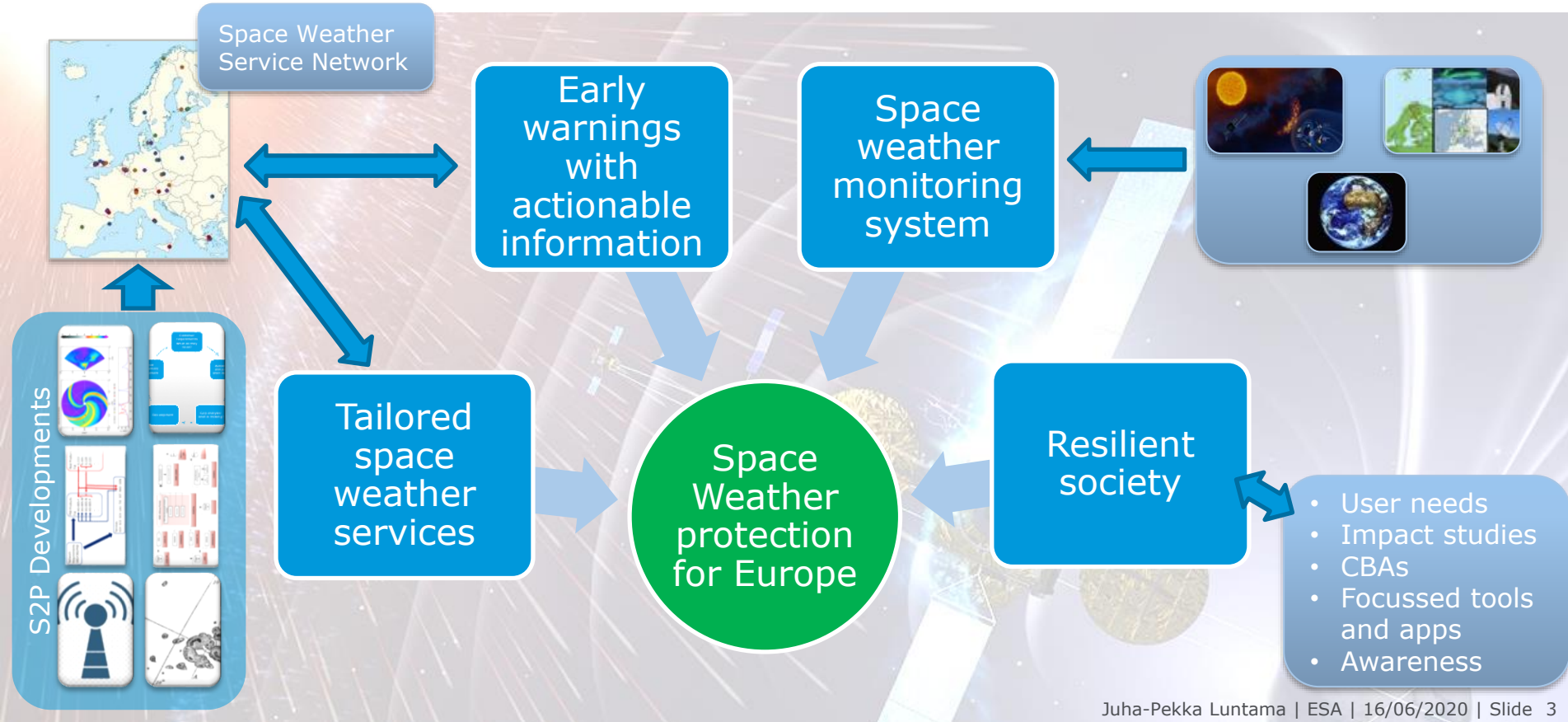
Protection of our planet, humanity,
and assets in space and on Earth from dangers originating in Space

**Threat
Detection and
Analysis**

**Threat
Mitigation**

**Threat
Remediation
Response**

S2P Space Weather System Objectives by 2030



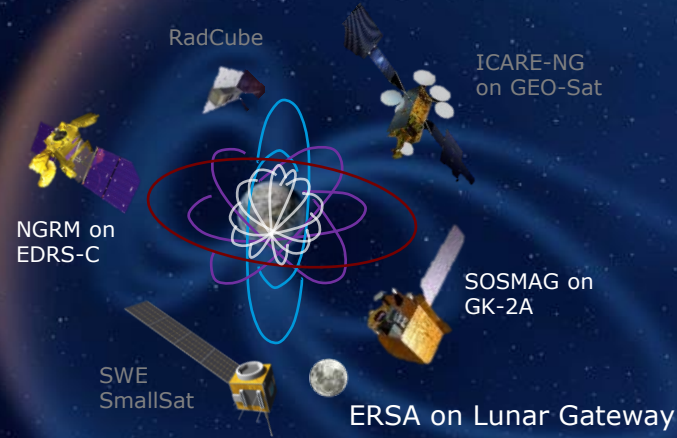
Distributed Space Weather Sensor System (D3S)



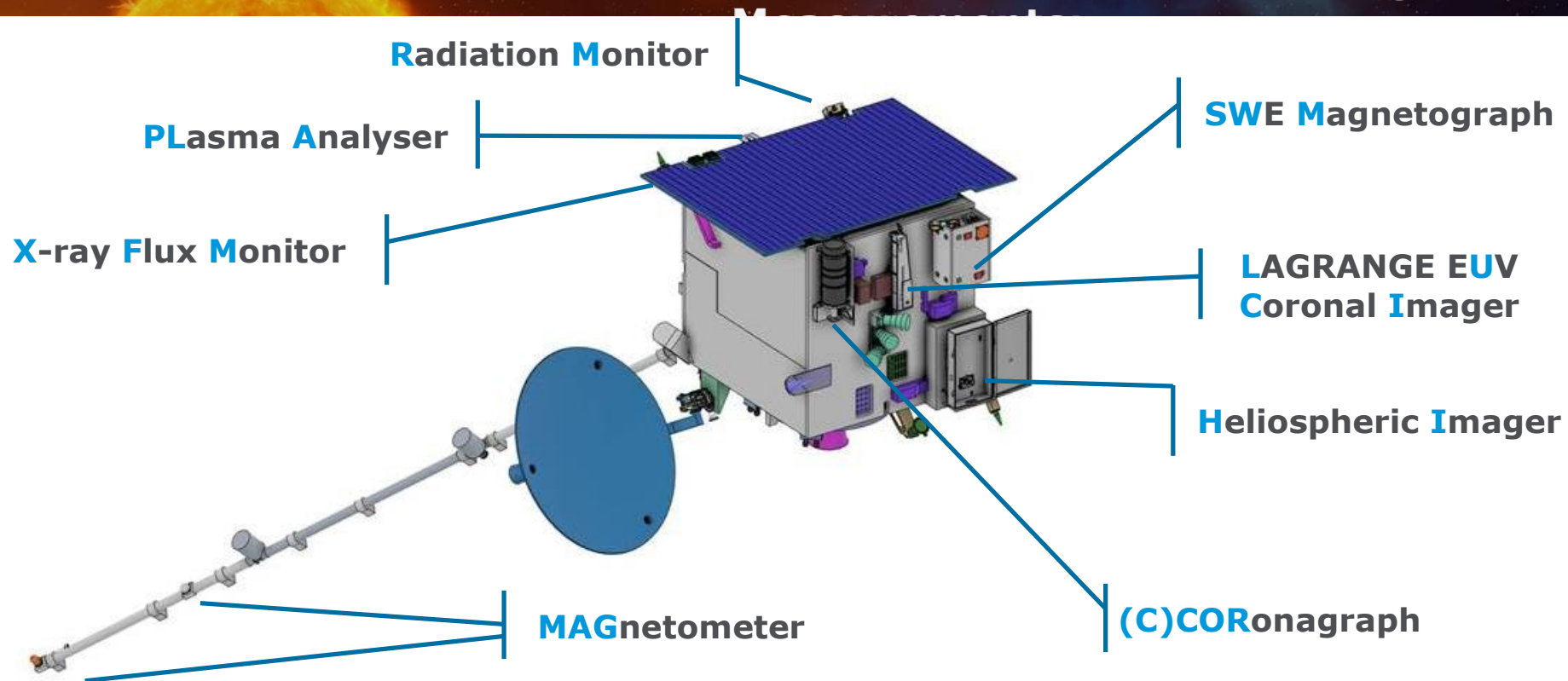


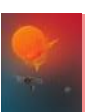
Monitoring of SWE impact within Earth's magnetosphere:

- Magnetic field, neutral/charged particle, plasma and micro-particle environment measurements, auroral imaging, ...:
 - Hosted Payloads
 - Dedicated Small/CubeSats
 - LEO/MEO/HEO/GEO
 - Ground based observations



Lagrange Mission





Lagrange Schedule



Instruments



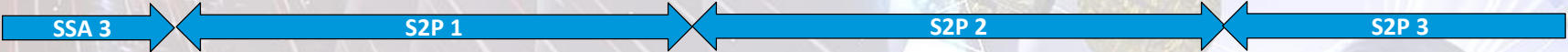
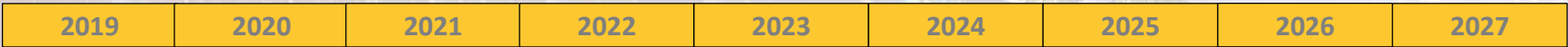
Launch
2027

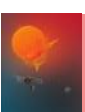


Platform

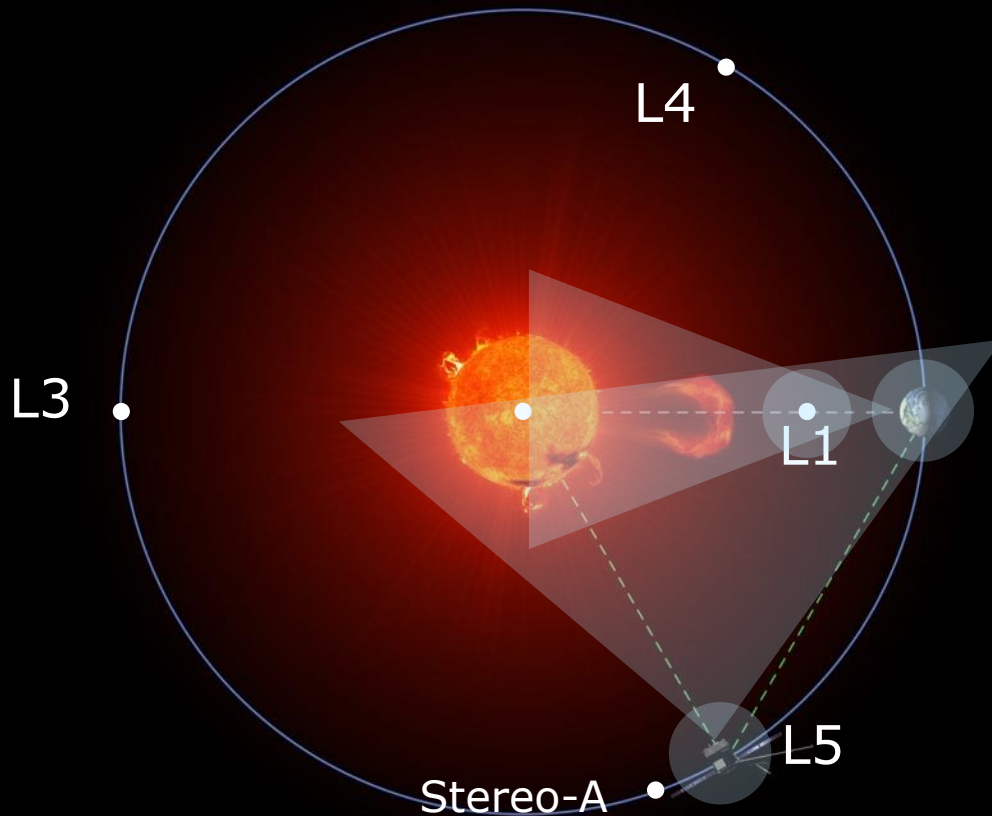


Delivery





Sharing Measurement Responsibilities



THANK YOU

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