Whazup Swedish Space?

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Swedish National Space Agency

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Photo credit: NASA

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Academic Space Research Landscape

- IRF – National Core in Space & Atmospheric Physics
- University Research Across Sweden

Photo credit: AI + Ella

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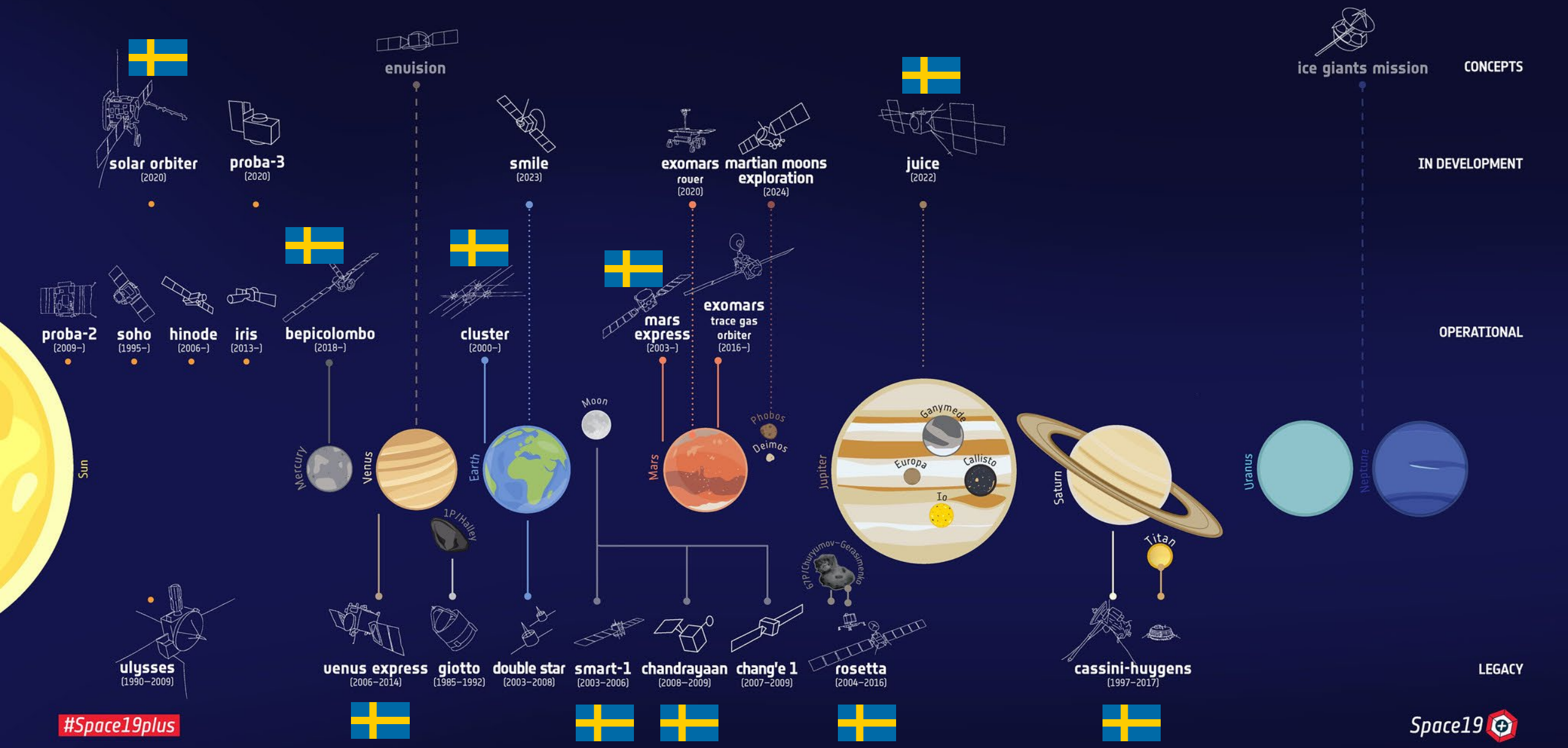
Swedish science instruments on ESA (and collaborative) missions

→ SOLAR SYSTEM EXPLORERS



#Space19plus

Space19

Swedish Industrial Space Capabilities

- Avionics
  - On-board computers
  - Microwave technologies
  - Microsystems
- Spacecraft & Platform
  - Satellite system technologies
  - Green propulsion
  - Antennas
- Ground Segments
  - Ground-station services
- Launch & Flight
  - Launcher technologies
  - Rockets and balloons
- AI
  - AI-enabled space data processing
  - Edge-computing solutions

bradford ecaps

SATCUBE

APR Technologies

AAC CLYDE SPACE

beyond gravity

GKN AEROSPACE

UNIBAP

requtech

OMNISYS INSTRUMENTS

OHB SWEDEN

FORSWAY

SSC

Rymdstyrelsen
Swedish National Space Agency

FRONTGRADE Gaisler

- Impressive track record in ESA missions
- A master at navigating the European industrial landscape
- Successful growth and profitability over many years
- Currently leading the development of ESA's next-generation microprocessors

Photo credit: Gaisler

Esrange – Strategic Resource of Sweden

- Operational since 1964
- State owned
- Strategic location:
  - High Latitude
    - TTC
    - Launch operations
  - Sparsely populated
  - Easy land recovery
  - Limited air traffic
  - Possibility to close off large areas of air space
- Science/education experiments
- Technology development

Photo credit: Kristine Dannenberg

National Space Strategies

National Space Strategy, 2018

- **Societal Benefit First:** Space activities should contribute to societal development, security, and sustainability.
- **Security and Defense:** Space should remain free from conflict and weapons; space activities must consider national security and defense.
- **International Cooperation:** Sweden aims to actively participate in international collaborations (e.g., UN, ESA, EU) to promote peaceful and sustainable use of space.
- **Access to Space Data:** Data from EU and ESA satellite programs should be made more accessible to Swedish users.

Space Strategy for Defence and Security, 2024

- Ensure freedom of action in space.
- Create a portfolio of space capabilities and services for total defense and crisis preparedness.
- Be an active and responsible partner.
- Conduct a knowledge-based space policy that strengthens crisis preparedness and total defense.

Four new national space programs

Budget 464 million SEK 2025-2028

- Establish a **national satellite program** to ensure Sweden's capability to design, build, launch, and operate satellites under national management.
- Establish a **national dual-use space technology program**, supporting both civilian and military applications, as well as innovation for critical societal functions.
- Establish a **national space data program** to promote the development of knowledge, systems, and technologies, and to increase the use of space data for public and commercial benefit.
- Prepare funding for a **national graduate school focused on space**, to strengthen Swedish space research internationally and ensure long-term talent development.

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Odin – 25 years of scientific excellence 2001-2026

- Swedish-led satellite in collaboration with Canada, Finland and France.
- One of the most successful atmospheric-observation missions of its generation, with exceptional long-term datasets used in ozone and climate research.
- End of mission expected this year.
- Come and celebrate 25 years of Odin on February 19 in Stockholm!

Congrats

and

Thank you!

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