

A stylized illustration of a solar system on a dark blue background with white stars. A large yellow sun is at the top left. Several planets of different colors (orange, blue, white with rings, teal) and a small satellite are shown on elliptical orbits. The text 'eur PLANET 2024' is in the top right, with 'Research Infrastructure' below it.

eur PLANET 2024

Research Infrastructure



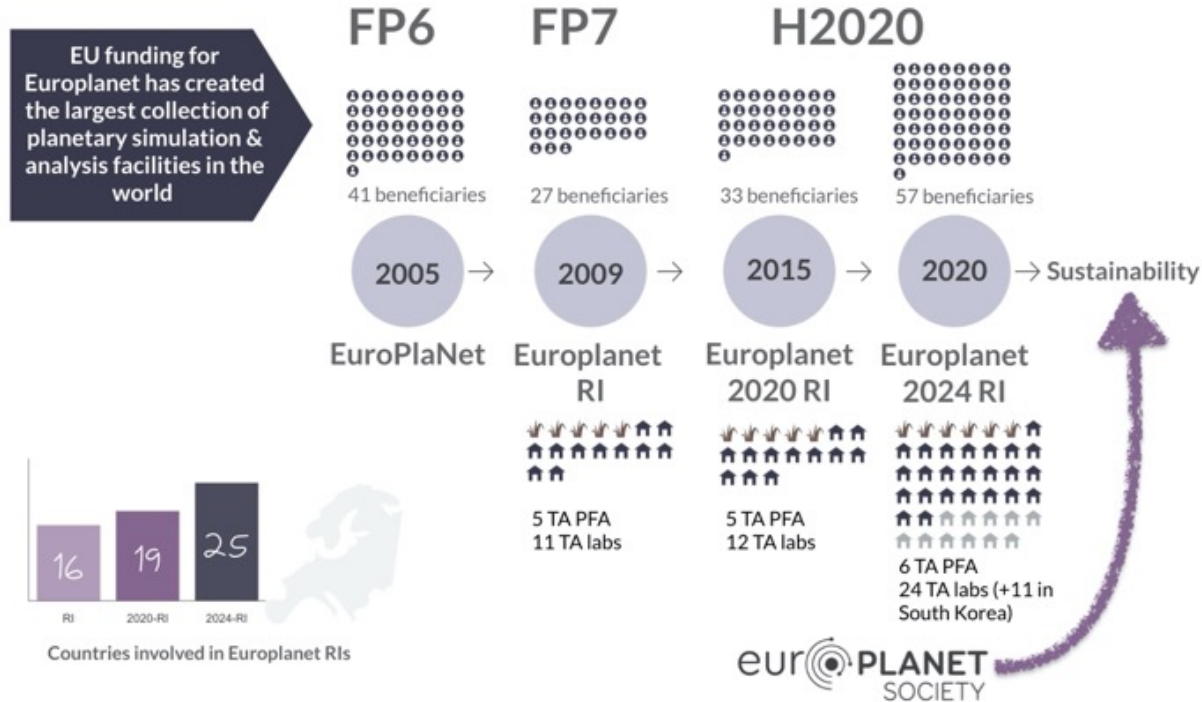
Introduction to Europlanet 2024 Research Infrastructure (RI)

January 2023

Europlanet 2024 Research Infrastructure (RI)

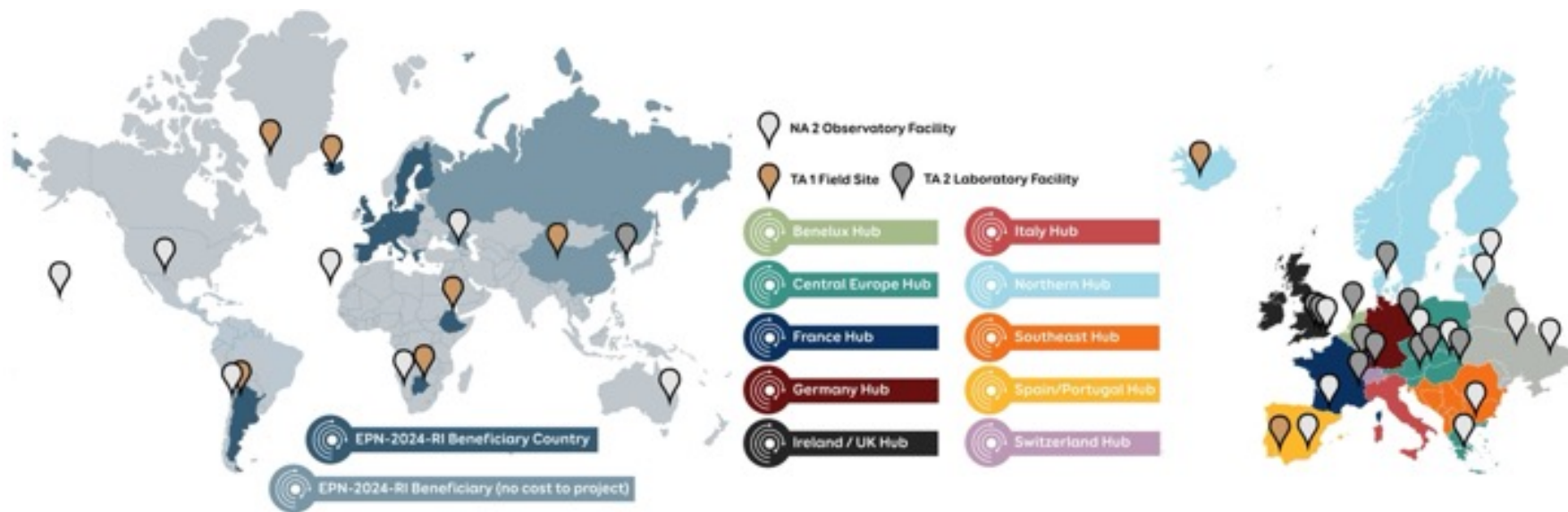
- The project is funded through the European Commission's Horizon 2020 programme and runs from 1 February 2020 until 31 July 2024.
- The Consortium is led by the University of Kent, UK, with over 50 beneficiary institutions from 24 countries in Europe and around the world, plus a further 44 affiliated partners.
- The project draws on the Europlanet Society and its network of Regional Hubs to disseminate activities and develop a diverse community of users.

Europlanet Evolution: 2005-2024



www.europlanet-society.org/europlanet-2024-ri-facts-and-figures/

Who is involved in Europlanet 2024 RI?



<https://www.europlanet-society.org/participants-in-europlanet-2024-ri/>

12 Work Packages (WPs)

WP1: Management

WP2: TA1 - Planetary
Field Analogues (PFA)

WP3: TA2 - The
Distributed Planetary
Laboratory Facility
(DPLF)

WP4: JRA1 - The
Distributed Planetary
Laboratory Facility
(DPLF)

WP5: VA1 - SPIDER
(Sun Planet
Interactions Digital
Environment on
Request)

WP6: VA2 - VESPA
(Virtual Planetary and
Solar European
Access)

WP7: JRA2 - VESPA
(Virtual Planetary and
Solar European
Access)

WP8: VA3 - GMAP
(Geologic MAPPING of
Planetary bodies)

WP9: JRA3 - GMAP
(Geologic Mapping of
Planetary bodies)

JRA4: ML - Machine
Learning Solutions for
Data Analysis and
Exploitation in
Planetary Science

WP11: NA1 -
Community Support,
Dissemination and
Engagement with
Stakeholders

WP12: NA2 -
Coordination of
Ground-based
Observations

Transnational Access (TA) programme

- Europlanet 2024 RI provides FREE access to the world's largest collection of planetary simulation and analysis facilities.



TA Facilities

Calls issued for access to:

- **Planetary Field Analogues (PFA)** – 7 field sites
- **Distributed Planetary Laboratory Facility (DPLF)** – 24 lab facilities in Europe, plus 11 facilities in South Korea. Further facilities in Korea and China will be added in next Call.

Joint Research Activities – upgrades have been made to 6 facilities that are offered through the TA programme.

<https://bit.ly/europlanet2024ri-ta>

Virtual Access (VA) Services

- **SPIDER** (Sun Planet Interactions Digital Environment on Request) - contextual information on predictions & alerts for planetary space weather analysis & spacecraft operations.
- **VESPA** (Virtual European Solar & Planetary Access) - Virtual Observatory for planetary data that provides access to 50+ data services & tools.
- **GMAP** (Geologic Mapping) - tools & services for geological mapping of any Solar System body.
- **Machine Learning** - tools to address science challenges, applicable to many planetary datasets.



<https://bit.ly/europlanet2024ri-va>

Networking Activities (NA)

Webinars, workshops, funding and resources to support:

- Industry-academia collaboration
- Widening participation
- Global collaboration & international development
- Expert exchanges
- Early career support & education
- Policy engagement
- Europlanet Media Centre
- Outreach & education
- Mentoring

<http://bit.ly/e pn2024ri-networking>



Europlanet Telescope Network

- Provides remote and physical access to a network of 16 small telescopes (0.5-1.2m diameter) around the world
- Open call for applications, decisions provided within 2 months

<https://bit.ly/EuroplanetTelescopeNetwork>



Video introductions to Europlanet 2024 RI activities

TA programme (5m 30s): https://youtu.be/_BFISi91gyg

VA programme (4m 17s): <https://youtu.be/m2MvHdoiwHU>

NA programme (4m 17s): <https://youtu.be/JrJ8n3dM1bc>

Europlanet Telescope Network (2m 15s): <https://youtu.be/6GNGAoKFvQ>



Thank you!

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