



eur@PLANET

# Introduction to Europlanet

April 2019

**Europlanet emerged from collaborations between European scientists and engineers involved in the Cassini-Huygens mission, with the aim of overcoming fragmentation within the European planetary science community.**





**Since 2005, the Europlanet project has provided European's planetary science community with a platform to exchange ideas and personnel, share research tools, data and facilities, define key science goals for the future and engage stakeholders, policy makers and European Citizens with planetary science.**

<b>Date</b>	<b>Funding</b>	<b>Project</b>	<b>Budget</b>	<b>Activities</b>	<b>Participants</b>
<b>2005-2008</b>	FP6	European Planetology Network (Coordination Action)	2 M€	Networking activities (NA)	42 Partners from 17 Countries
<b>2009-2012</b>	FP7	Europlanet Research Infrastructure	6 M€	Networking Activities, Transnational Access, Service Activities and Joint Research Activities	27 Beneficiaries + 16 Associate Partners from 25 Countries
<b>2013-2018</b>	N/A	Europlanet Community MoU	-	Community organisation	~100 Signatories
<b>2015-2019</b>	Horizon 2020	Europlanet 2020 RI (Advanced Research Infrastructure)	10 M€	NA, TNA, JRA and services	33 Beneficiaries + 22 Associate Partners from 22 Countries

## Europlanet Society, launched September 2018:

- Society for individual and institutional/corporate members.
- Sustainable structure for the advancement of planetary science in Europe.
- Executive Office hosted by European Science Foundation (ESF), Strasbourg.
- Parent organisation for the European Planetary Science Congress (EPSC).
- Elections for Executive Board and President to be held in September 2019.
- Organised around 10 Regional Hubs.
- Active Committees and Working Groups for Diversity, Early Careers, Industry, Outreach, Policy & Education.



## Europlanet 2020 Research Infrastructure (RI) 1<sup>st</sup> Sep 2015 – 31<sup>st</sup> Aug 2019:

- 10M Euros funding from European Commission through Horizon 2020.
- 33 beneficiaries, 22 associate partners, 22 countries & supporting 159 individual participants (112 male and 47 female) with salary & expenses.
- Transnational Access to 5 field sites, 7 laboratory simulation facilities & 4 sample analysis facilities.
- Virtual Access to VESPA Virtual Observatory for Solar System sciences and Planetary Space Weather Services (PSWS).
- Scientific networking activities, outreach and dissemination to stakeholders.

## European Planetary Science Congress (EPSC):

- Europe's largest annual meeting on planetary science.
- First meeting held in Berlin in 2006, attended by 554 people. 2018 meeting attended by 1018 participants.
- Self-sustaining since 2012.
- Key factor in building a well-networked European planetary science community.
- **15-20<sup>th</sup> September 2019, Geneva: EPSC Joint Meeting with the American Astronomical Society's Division of Planetary Sciences (DPS).**



## Main Objectives

Inclusion of new communities

- Support of amateur astronomers and people from the so-called underrepresented countries

Support/organization of roughly 3 Workshops per year

- Focus on the organization/coordination of ground-based observation campaigns in support of space missions – funding of the participation of amateur astronomers!
- Workshops for the organisation and exploitation of campaign results
- Amateur Training Workshops and Summer Schools organized by Vilnius Observatory

Database for ground-based observatories (NA1-Matrix) - <http://iwf.oeaw.ac.at/matrix/>

- Already developed during Europlanet FP7 – further upgraded during EPN2020
- Will provide a possibility for amateurs to set up their own database and to upload observational data into the Virtual Observatory of Europlanet 2020

**Juno Ground-Based Support from Amateurs: Science and Public Impact**  
 EPN2020-NA1-Task #5 Workshop

**Observatoire de la Côte d'Azur**  
**Nice, France**  
**May 12-13, 2016**  
**#JunoProAm**



background image:  
 artist's illustration of Juno at Jupiter / NASA

**Science Organizing Comitte (SOC):**  
 Ricardo Hueso (UPV/EHU, Spain)  
 Marc Delcroix (Société Astron. de France)  
 François Colas (IMCCE - Pic du Midi)  
 John Rogers (British Astron. Association, UK)  
 Glenn S. Orton (JPL, USA)  
 Manuel Scherf (EPN2020, IWF-OeAW, Austria)  
 Kargl Günter (EPN2020, IWF-OeAW, Austria)

**Local Organizing Committee (LOC):**  
 Paolo Tanga (Observatoire de la Côte d'Azur)  
 Ricardo Hueso (formerly at Observatoire de la Côte d'Azur)

This workshop is supported by Europlanet 2020 RI Work Package NA1 - Innovation through Science Networking, Task 5. The EU-project Europlanet 2020 RI has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654208. Additional support from the Observatoire de la Côte d'Azur is also acknowledged.

[www.ajax.ehu.es/Juno\\_amateur\\_workshop/](http://www.ajax.ehu.es/Juno_amateur_workshop/)

Europlanet Workshop on Juno Ground-based Support from Amateurs: Science & Public Impact, May 12-13, 2016, Observatoire de la Côte d'Azur, Nice, France

- **Dedicated workshop website:** presentations, pictures and further workshop material can be found online at [www.ajax.ehu.es/Juno\\_amateur\\_workshop/](http://www.ajax.ehu.es/Juno_amateur_workshop/)
- **33 participants: 22 amateurs and 11 professional scientists** attended the workshop
  - Participants from: Austria (1), France (11), Germany (1), Italy (2), Ireland (1), Japan (2), Netherlands (2), Philipines (1), *Portugal (1), Romania (1), Slovenia (2), Spain (2), Sweden (1), UK (3), US (2).*
- **Discovery Channel** was filming the workshop for its **documentary on Juno** – aired on July 05, 2016 on Discovery Channel Science
- Workshop was **appreciated very well by amateur astronomers**, who for the first time got the possibility to meet each other in a larger context

*“It was wonderful to meet professionals as well as qualified amateurs personally. many of us know each other by name, but this was an excellent opportunity to exchange ideas in a stimulating setting.” ... NA1 Workshop Feedback Form*

## Amateur Sessions at EPSC

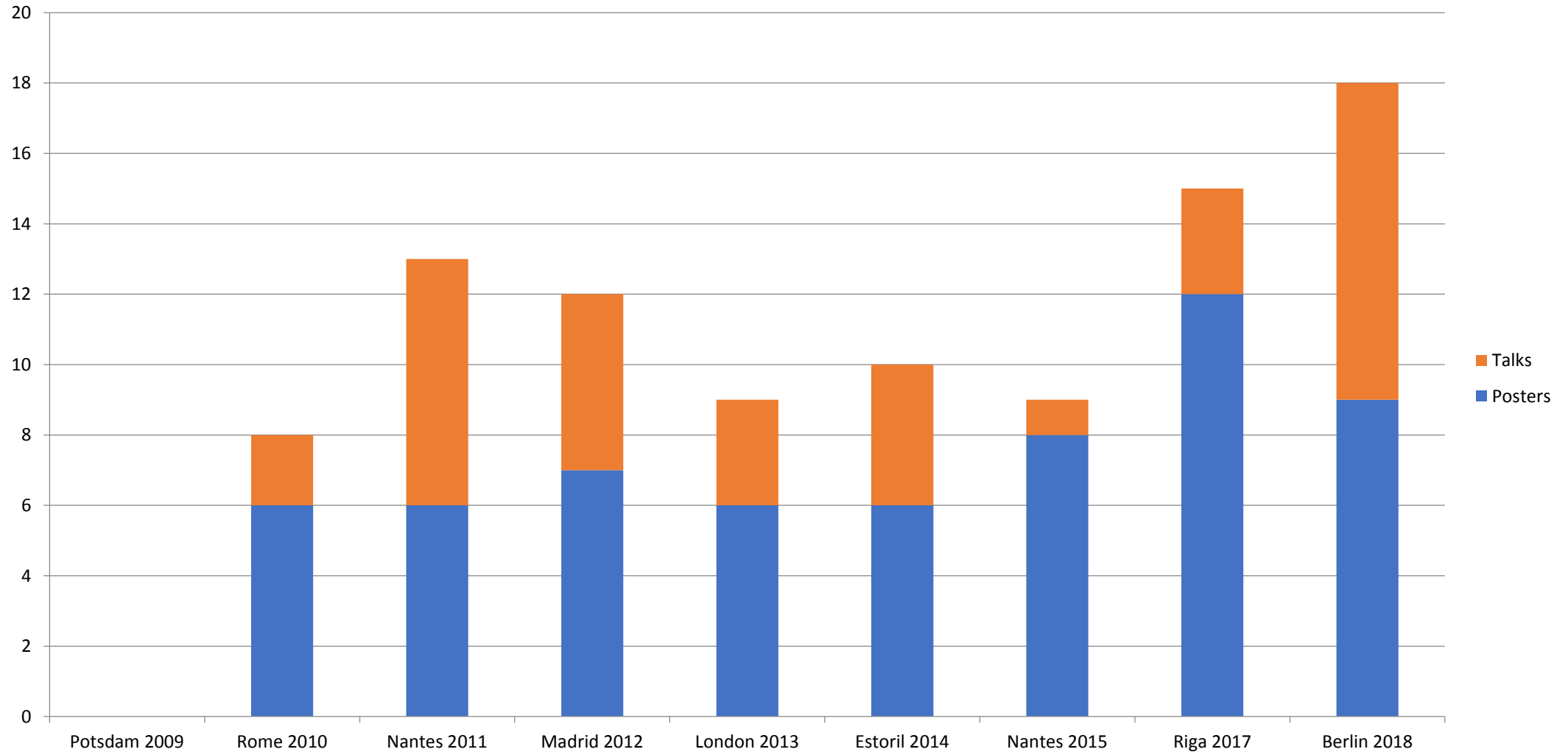
2017 NA1 for the first time supported the participation of amateurs at EPSC - making EPSC 2017 in Riga, Latvia, the one with the highest amount of amateur presentations, i.e. 16 in total in two different sessions. These sessions were

- Amateur collaborations in small bodies, terrestrial, giant and exoplanets professional studies, EPSC 2017, Riga, Latvia (6 talks, 3 posters).
- Juno Ground-Based Support from Amateurs, EPSC 2017, Riga, Latvia (6 talks)

Europlanet NA1-Task 5 again supported amateurs to participate at EPSC 2018 in Berlin, Germany. There was one big amateur session in 2018, i.e.:

- Professional-Amateur collaborations in small bodies, terrestrial, giant, exo-planets studies and Juno Ground-Based Support (9 talks, 9 posters).

Presentations at EPSC Amateur Sessions (excl. Outreach)



<http://iwf.oeaw.ac.at/matrix/>

- List of ground-based observatories
- Developed during Europlanet FP7

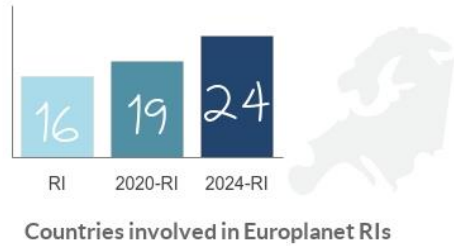
The database is currently extended to provide the possibility of a simple image upload

- Every facility entry list information on
  - administrative issues like contact data, geographical position, etc.;
  - science and target interests;
  - detailed telescope and instrument information;
- Currently over 200 ground-based facilities listed (most of them professional though)...
- **Everyone can register for free and add her/his own observatory, telescope or instrument!**

## Europlanet 2024 RI

- Proposal submitted in March 2019 for further 10M Euro Research Infrastructure.
- If successful, project will run from 1<sup>st</sup> February 2020- 31<sup>st</sup> January 2024.

EU funding for Europlanet has created the largest collection of planetary simulation & analysis facilities in the world



### FP6



41 beneficiaries



EuroPlaNet

### FP7



27 beneficiaries



Europlanet RI



5 TA PFA  
11 TA labs

### H2020



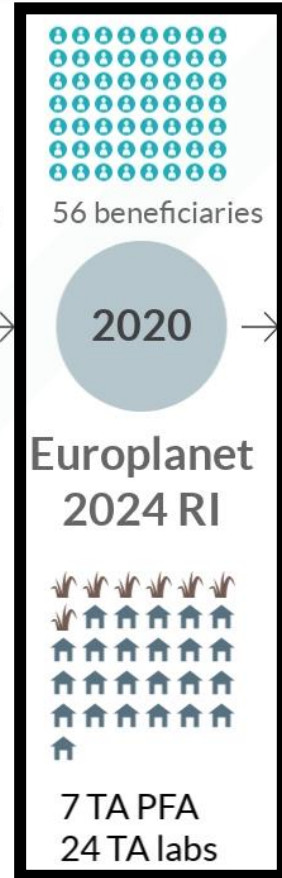
33 beneficiaries



Europlanet 2020 RI



5 TA PFA  
12 TA labs



56 beneficiaries



Europlanet 2024 RI



7 TA PFA  
24 TA labs

Sustainability



[www.europlanet-society.org/join-the-europlanet-society/](http://www.europlanet-society.org/join-the-europlanet-society/)