



Europlanet the Consortium and Europlanet 2020 RI

Eurospace Presentation

January 22, 2016



Who Are We ?

Nigel Mason , The Open University, UK - Europlanet consortium Chair and RI coordinator

Athena Coustenis, Observatoire de Paris, Europlanet 2020 RI Deputy Chair

Steve Miller, University College London, Impact and Innovation officer

Manuel Grande, Aberystwyth UK, WP leader PSWS and NA1 Technology workshops and EPSC

Europlanet

a growing « business » for an expanding community



FP6 2005-2008: 2 M€ - ISSI 90 k€

Coordination action -> only networking activities (NA)



FP7 2009-2012: 6 M€

Research Infrastructure network -> **RI = NA + TNA + JRA**

The « fundamental equation »
of EC RI networks!

H2020 2015-2019: 10 M€

Research Infrastructure network -> NA, TNA, JRA and services



Engagement with other H2020 Space projects (COMPET);
Eurocares/PPOSS; Upwards; MiARD; EUSpaceAwareness
Neoshield/ASTERIX

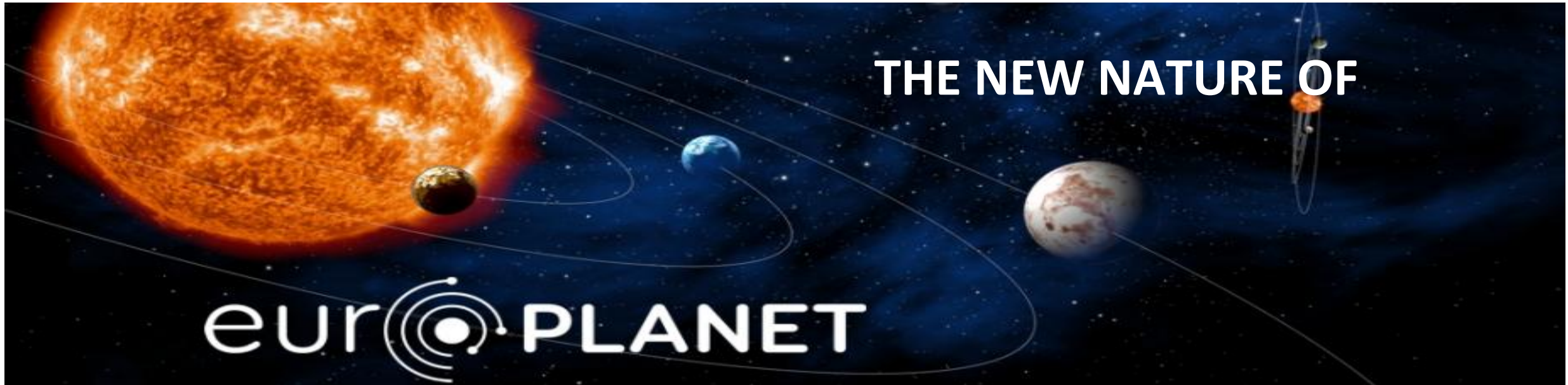


TOPICS

1. Europlanet community and Europlanet 2020 RI: a summary
2. Activity TAs (VAs); Industry engagement in facilities
3. Activity NA 1: Innovation through science networking.
4. Activity NA2; Impact through Outreach and Innovation
5. Proposed mechanisms for Eurospace engagement



1. Europlanet community and Europlanet 2020 RI: a summary

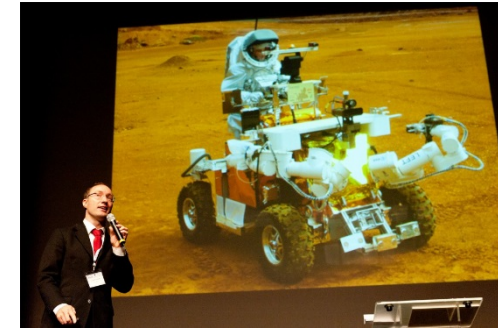


- Europlanet is Europe's permanent community consortium for planetary science. Any institute can join by signing the MOU
- It has its own annual conference: the EPSC
- It takes all actions to promote European planetary science
- It helps the community to seize all adequate funding opportunities:

End 2014: Europlanet proposes the Europlanet 2020 RI project
in response to the EU H2020 call for Research Infrastructures

You are
here!

- Budget 9.945 million Euros 2015-2019,
start date 1 September 2015, to:
- Support scientific meetings and workshops
- Foster Academia-industry collaborations through technology workshops
- Support and develop a unique Outreach programme including support pilot projects.
- Provide access to 5 field sites and 11 labs (open calls + peer review selection): TA's
- Develop and run two new on-line services (VESPA; Space Weather)
- Fund the necessary facility developments through Joint Research Activities (JRA)





2. Activity TA (VA) : Access to Facilities

Access to 5 field sites and 11 laboratories:

- Planetary Field Analogues
- Distributed Planetary Simulation Facilities
- Facilities & Equipment

(for high precision or high spatial resolution analyses)

Develop such facilities through Joint Research projects



Dallol depression (Ethiopia)



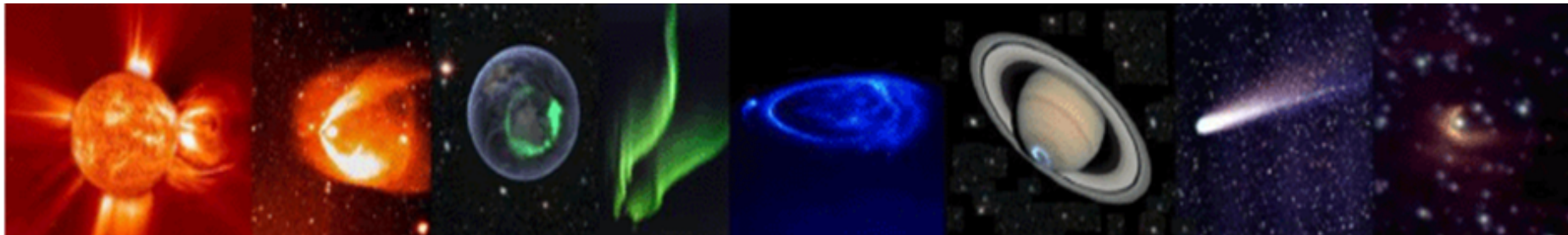
Mars simulation chamber –
OU, Milton Keynes

Europlanet 2020 RI will develop and provide access to on line tools and data of interest to planetary science through:

- **Virtual European Solar and Planetary Access (VESPA)**



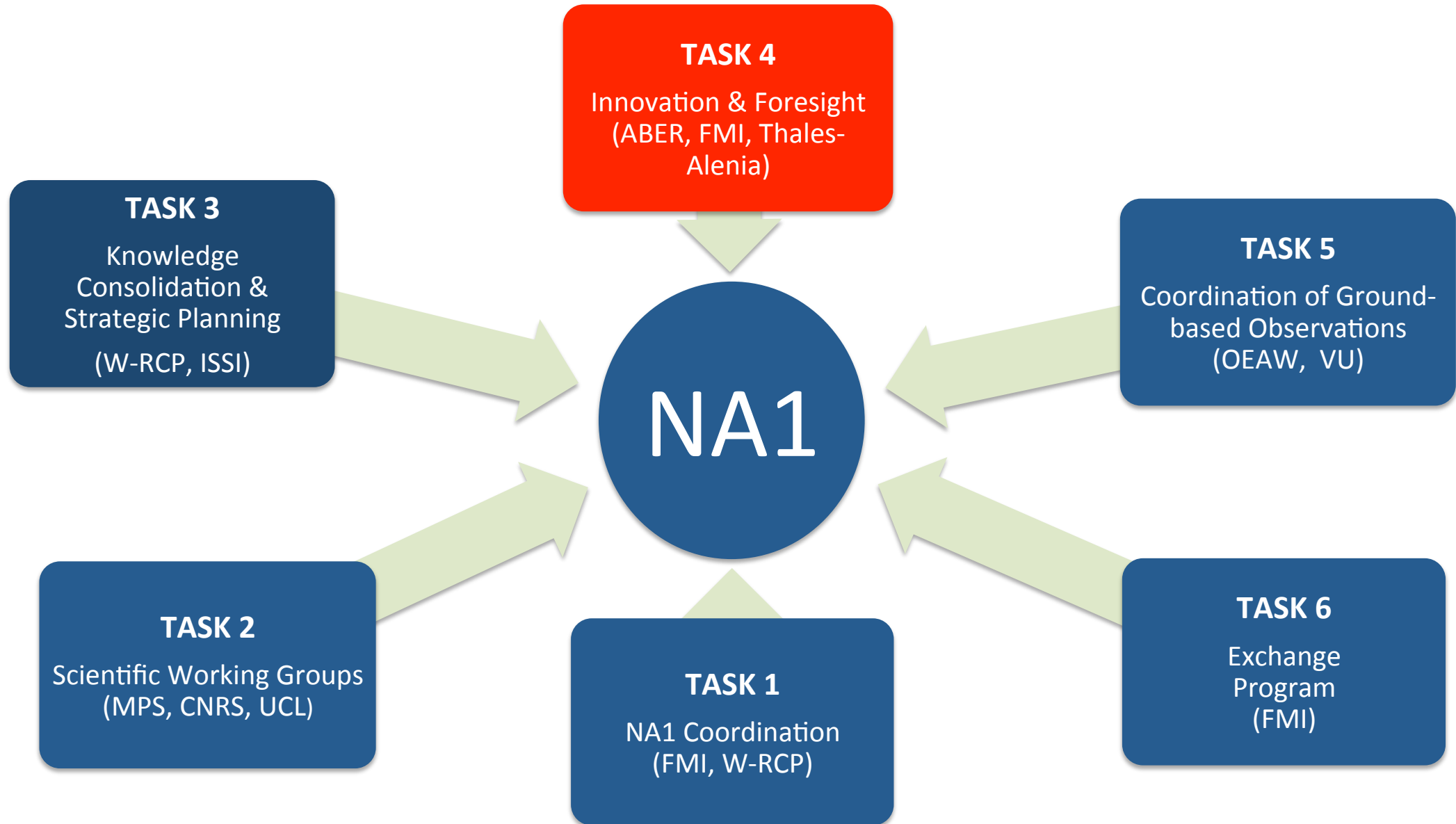
- **Planetary Space Weather Services (PSWS)**





3. Activity NA 1: Innovation through science networking

NA1 Innovation through science networking



TASK 4:

Innovation and foresight



Innovation Working Groups

Technical Roadmapping

Industry Technology Workshops
Ideas welcome

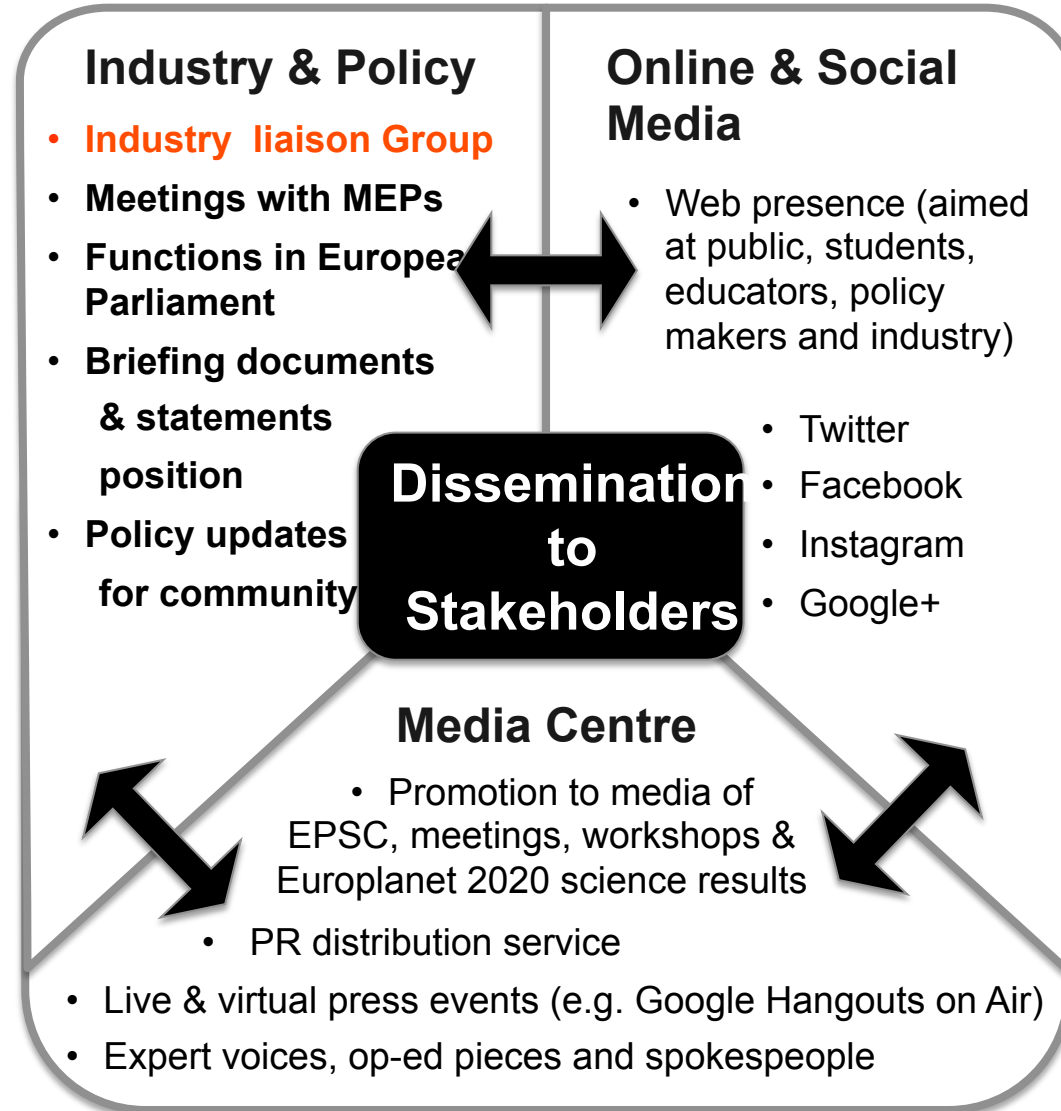
Annual plans



4. Activity NA2; Impact through Outreach and Innovation

NA2 - Impact through Outreach and Innovation

- Broken down into three strands:
 - **Outreach Services and Community Support**
 - Dissemination to Stakeholders
 - Development of Outreach Tools
- Target audiences:
 - Outreach providers
 - Educators
 - Informal learning
 - Media
 - Policy Makers
 - Industry
 - General Public
 - Students
- Team:
 -  Science Office
 -  Observatoire de Paris
 -  University College London
 -  University of Latvia
 -  Institute of Accelerating Systems & Applications Athens
 -  CAB-INTA
 -  University of Vilnius
 -  University of Leiden

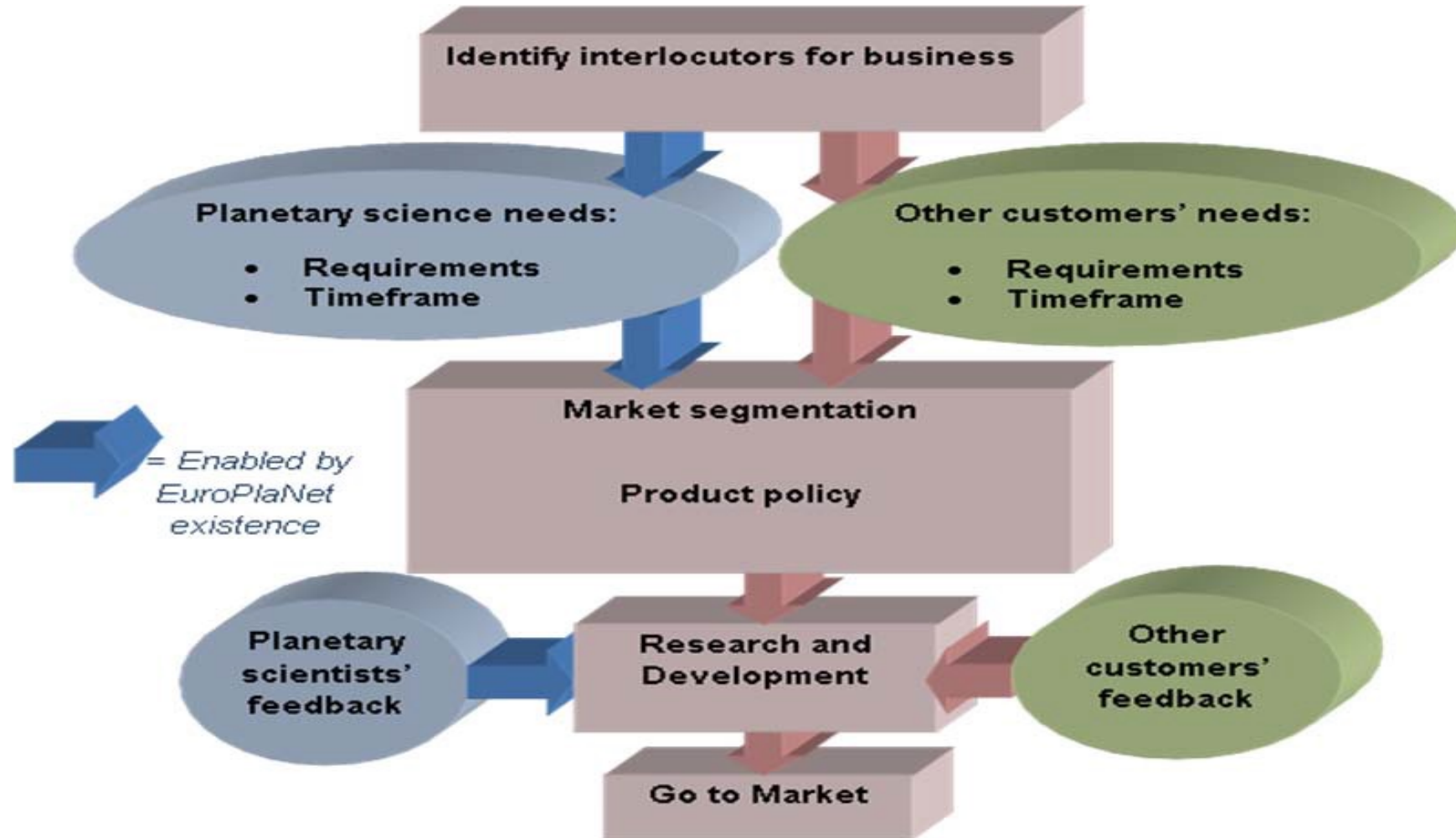




3. Proposed mechanisms for the participation of Eurospace

- Advertise access to Europlanet Facilities – Next call open Deadline April 29, 2016
- Propose/engage in Industry/Technology Workshops
- Representatives on Europlanet Boards – Role of Industry officers/ PAB
- Develop new bids across Academic-industry interface

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The Industry Officers.

The success of planetary science research is integrated with the development of instrumentation and the design, construction and implementation of space missions. **Thus planetary science is synergistic with industry.** Thus Europlanet must engage with industrial partners.

Liaison between academic and industrial research is difficult as the time scales and goals(publications vs sales) are different such that it takes time and skill to develop mutually beneficial collaborations.

Accordingly the RI will appoint an Industry Officer(s) to build upon and develop existing academic/industry partnerships in the RI and ensure that the two communities develop a shared strategy.

Project Advisory Board – Needs industry representative to provide independent assessment of Europlanet industry engagement

The future - What Next?



Forthcoming Calls

H2020 Space calls 2016-17 (Deadline March 3, 2016)

Mostly industry driven – Eurospace engagements?

COMPET-5-2016: Scientific Instrumentation

Specific Challenge: Support the development of scientific instrumentation for science and exploration missions (including planetary exploration missions) enabling increased cooperation between scientists, engineering teams, industry and SMEs across Europe.

Scope: Scientific instrumentation is understood in this context as mission payloads that perform scientific tasks. Proposals may cover different stages of development of scientific instrumentation from concepts, to breadboarding and prototype demonstration. Proposals are particularly welcome that develop novel and advanced technologies, such as new sensors and other sub-systems that may be used in scientific instrumentation. Projects supported through this call should address planned and future European scientific and exploration missions, as well as collaboration in the context of third country missions as a European contribution to global efforts.

Expected Impact: The integration of scientific teams with engineering and industrial teams will stimulate new and improved instrumentation designs and lead to potential opportunities for spin-in/spin-out effects between space and non-space technology fields. This research topic should attract also active participation of researchers in academia and SMEs.



Forthcoming Calls

Marie Curie RISE Call (Deadline April 29, 2016)

Academia-Industry Collaboration through Staff exchange

Need for Training - Marie Curie Training programmes (next call January 2017)

EUSpaceAwareness – COMPET 2014 project to foster Space careers in Europe

Engagement with schools/colleges. TARGET Under represented communities

Can Eurospace propose case studies? People and SMEs ?



Thank you for your attention !