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Integrated Medium for Planetary Exploration

Fact Sheet

Project Information

IMPEX

Grant agreement ID: 262863

[Project website](#) 

Project closed

Start date

1 June 2011

End date

31 May 2015

Funded under

Specific Programme "Cooperation": Space

Total cost

€ 2 564 606,06

EU contribution

€ 1 998 719,03

Coordinated by

OESTERREICHISCHE AKADEMIE
DER WISSENSCHAFTEN

 Austria

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Women in science — and
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Bacteria: Small organisms, big impact

Objective

IMPEX (Integrated Medium for Planetary Exploration) is aimed at creation of an interactive framework where data from planetary missions will be interconnected with numerical models providing a possibility 1) to simulate planetary phenomena and interpret space missions measurements; 2) to test models versus experimental data and perform further improvement of models; 3) to fill gaps in the measurements by appropriate modelling runs; 4) to perform preparation of specific mission operations and solve various technological tasks, including preparation of new missions. IMPEX will create a new research infrastructure which will enhance the efficiency of space mission data exploitation for scientific research and make the data and models useful for a broad planetary science community, also outside of the mission teams and specialized modelling groups. Besides of the 'Management' work package (WP1), IMPEX includes a work package, providing a platform for cross-linked visualization and operation of experimental and numerical modelling data (WP2), and two modelling WPs with a set of 3D simulation codes and their related computational infrastructures: WP3: 'Hybrid & MHD models' and WP4: 'Paraboloid Magnetospheric Models'. The available space mission data will be delivered to IMPEX via the data operation portal AMDA (Automated Multi-Dataset Analysis, <http://cdpp-amda.cesr.fr/> ) . In view of the strong European engagement into past, present and forthcoming space missions to Mercury (BepiColombo), Venus (VenusExpress), Earth (Cluster, Themis), Mars (MarsExpress), Jupiter and Ganymede (Galileo, JGO), Saturn and Titan (Cassini), Comet 67P (Rosetta), the project IMPEX will have its primary focus at plasma and magnetic environments of these missions targets. Research potentials of the created infrastructure will be demonstrated by a set of practical examples. Development of IMPEX beyond FP7 supposes extension of the scope of planetary objects, used models and observational data.

Fields of science (EuroSciVoc)

[natural sciences](#) > [physical sciences](#) > [astronomy](#) > [space exploration](#)



Programme(s)

[FP7-SPACE - Specific Programme "Cooperation": Space](#)

Topic(s)

[SPA.2010.2.1-03 - Exploitation of space science and exploration data](#)

Call for proposal

FP7-SPACE-2010-1

[See other projects for this call](#)

Funding Scheme

[CP - Collaborative project \(generic\)](#)

Coordinator



OESTERREICHISCHE AKADEMIE DER WISSENSCHAFTEN

EU contribution

€ 400 000,00

Total cost

No data

Address

DR. IGNAZ SEIPEL-PLATZ 2

1010 Wien



Austria



Region

Ostösterreich > Wien > Wien

Activity type

Research Organisations

Links

[Contact the organisation](#)



[Website](#)



Participants (4)



NAUCHNO ISSLEDOVATELSKII INSTITUT YADERNOI FIZIKI IMENI D V
 SKOBELTSYNA MOSKOVSKOGO GOSUDARSTVENNOGO UNIVERSITETA IMENI
 MV LOMONOSOVA

Russia
 EU contribution
 No data

Address
SINP MSU LENINSKIE VOROBYEVY GORY
119992 Moscow

 Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
 No data



ILMATIETEEN LAITOS

Finland
 EU contribution
€ 800 000,00

Address
Erik Palmenin aukio 1
00560 Helsinki

 Region
Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

Activity type
Research Organisations

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

France

EU contribution

€ 599 999,03

Address

RUE MICHEL ANGE 3
75794 Paris

Region

Ile-de-France > Ile-de-France > Hauts-de-Seine

Activity type

Research Organisations

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



M.V. LOMONOSOV MOSCOW STATE UNIVERSITY

Russia

EU contribution

€ 198 720,00

Address

LENINSKIE GORY
119992 MOSCOW

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data

Last update: 2 August 2019

Permalink: <https://cordis.europa.eu/project/id/262863>

European Union, 2025