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Planetary Robotics Vision Scout

Fact Sheet

Project Information

PROVISCOUT

Grant agreement ID: 241523

[Project website](#) 

Project closed

Start date

1 April 2010

End date

30 September 2012



Funded under

Specific Programme "Cooperation": Space

Total cost

€ 2 698 481,40

EU contribution

€ 1 914 224,70

Coordinated by

JOANNEUM RESEARCH
FORSCHUNGSGESELLSCHAFT
MBH
 Austria

This project is featured in...



Robots lend a helping hand

Objective

ProViScout will demonstrate the combination of vision-based autonomous sample identification & sample selection with terrain hazard analysis for a long range scouting/exploration mission on a terrestrial planet. It brings together major European groups currently working on planetary robotic vision, supported by NASA-JPL from USA. Most robotic planetary space missions performing in situ exploration of the surface and atmosphere for any planetary object outside the Earth involve a means of mobility provided by either a surface vehicle ('rover') or by aerial vehicles (balloons, aerobots etc.). Mobile systems are among the most critical of all space missions in requiring a rapid and robust on-site processing and preparation of scientific data to allow efficient operations for a maximum use of their limited lifetime. In future the number and variety of such platforms will require more autonomy than is feasible today, particularly in the autonomous on-site selection of and access to scientific and mission-strategic targets. ProViScout will provide the robotic vision building blocks on board of such future autonomous exploration systems. Therefore ProViScout aims to 1. build a framework for planetary robotic on-board vision processing, 2. develop the technology to autonomously select scientific sites of interest during future planetary robotic missions in order to maximize the mission value for scientific research, technology and education 3. develop a unified and generic approach for robotic vision on-board processing, namely the combination of navigation and scientific target selection 4. demonstrate the synergies and complementarities of existing solutions, and complete missing components by defining and demonstrating on-board robotic vision for a set of typical reference mission scenarios, 5. integrate all components into a framework ready for field demonstration 6. increase public awareness of planetary robotic exploration.

Fields of science (EuroSciVoc)

[natural sciences](#) > [physical sciences](#) > [astronomy](#) > [planetary sciences](#) > [planets](#)



Programme(s)

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

Topic(s)

[SPA.2009.2.1.01 - Space Exploration](#)

Call for proposal

FP7-SPACE-2009-1

[See other projects for this call](#)

Funding Scheme

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

Coordinator



JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH

EU contribution

€ 474 593,00

Total cost

No data

Address

LEONHARDSTRASSE 59

8010 Graz

 **Austria** 

Region

Südösterreich > Steiermark > Graz

Activity type

Research Organisations

Links

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

Participants (11)



SCISYS UK LTD

United Kingdom

EU contribution

€ 231 291,50

Address

Methuen Park
SN14 0GB Chippenham,

Region

South West (England) > Gloucestershire, Wiltshire and Bristol/Bath area > Wiltshire CC

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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

Total cost

No data



DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV

Germany

EU contribution

€ 130 901,75

Address

LINDER HOHE
51147 Koln

Region

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#)

Total cost

No data



ABERYSTWYTH UNIVERSITY

United Kingdom

EU contribution

€ 237 200,00

Address

VISUALISATION CENTRE PENGLAIS

SY23 3BF Aberystwyth

Region

Wales > West Wales and The Valleys > South West Wales

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



CESKE VYSOKE UCENI TECHNICKE V PRAZE

Czechia

EU contribution

€ 115 920,00

Address

JUGOSLAVSKYCH PARTYZANU 1580/3
160 00 Praha 

Region
Česko > Praha > Hlavní město Praha

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



GMV AEROSPACE AND DEFENCE SA

 Spain
EU contribution
€ 72 000,00

Address
CALLE ISAAC NEWTON PARQUE TECNOLOGICO DE MADRID
28760 Tres Cantos 

Region
Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

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

Total cost
No data



UNIVERSITY OF LEICESTER

 United Kingdom
EU contribution

€ 90 676,00

Address

UNIVERSITY ROAD
LE1 7RH Leicester



Region

East Midlands (England) > Leicestershire, Rutland and Northamptonshire > Leicester

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



CSEM CENTRE SUISSE D'ELECTRONIQUE ET DE MICROTECHNIQUE SA - RECHERCHE ET DEVELOPPEMENT

Switzerland

EU contribution

€ 202 316,25

Address

RUE JAQUET DROZ 1
2000 Neuchatel



Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Neuchâtel

Activity type

Research Organisations

Links

[Contact the organisation](#)

[Website](#)

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

[HORIZON collaboration network](#)

Total cost

No data



TRASYS s.a.

 Belgium

EU contribution

€ 70 200,00

Address

AVENUE ARIANE 7
1560 BRUSSEL 

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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

Total cost

No data



UNIVERSITY COLLEGE LONDON

EU contribution

€ 211 404,20

Address

GOWER STREET
WC1E 6BT LONDON 

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



UNIVERSITY OF STRATHCLYDE

 United Kingdom

EU contribution

€ 28 938,00

Address

Richmond Street 16

G1 1XQ Glasgow 

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



KING'S COLLEGE LONDON

 United Kingdom

EU contribution

€ 48 784,00

Address

STRAND

WC2R 2LS London 

Region

London > Inner London — West > Westminster

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

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Permalink: <https://cordis.europa.eu/project/id/241523>

