



D7.2 - Release of the project website and communication package (logo, flyer, social media announcement)

Project acronym:	DISCOVERER
Grant Agreement:	737183
Project Duration:	1 January 2017 – 31 March 2021 (51 months)
Version	final
version.	lina
Date:	30/04/2017
WP Leader:	UNIMAN
Authors:	concentris
Due date of deliverable	30/04/2017
Actual submission date	28/04/2017

1. Executive Summary

DISCOVERER project uses different channels to inform about the project and increase its visibility:

- Project website: <u>www.discoverer.space</u>
- Twitter account: @DISCOVERER_EU
- LinkedIN Group: <u>https://www.linkedin.com/groups/13525547</u>
- Project flyer

2. Deliverable report

DISCOVERER website:

The DISCOVERER project website went online on 19th April 2017. The target audience is two-fold. It addresses the general public with sections providing general information about the project and its relevance to the public. In addition, it also provides more detailed information relevant to the scientific community as well as contact information of the DISCVOERER colleagues and their areas of expertise.

www.discoverer.space



Screenshot: DISCOVERER website

Twitter account: @DISCOVERER_EU

The DISCOVERER twitter account is used by all DISCOVERER colleagues to share their news on the project. The idea is to share snips of information from all work packages and areas of DISCOVERER.

As a next step we will make great efforts to attract followers.



Screenshot: DISCOVERER twitter account

LinkedIN group: https://www.linkedin.com/groups/13525547

The DISOCVERER project created also a LinkedIN group to share news on the project. LinkedIn reaches a slightly different audience and we want to increase the visibility of the project.

As a next step we will make great efforts to attract members and offer a platform for lively discussion.



Screenshot: DISCOVERER LinkedIn group

DISCOVERER flyer

The DISCOVERER consortium drew up a DISCOVERER flyer which introduces the objectives and impact of the project. One the one hand side it serves to) introduce the project on the other hand side it directs attention to the website, twitter and LinkedIn Group for further information.

It is available as print version which is used for dissemination at conferences, trade shows and information stands, and it is also available for download from the website.

The DISCOVERER flyer is attached to this report.

3. Acknowledgement and Disclaimer

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 737183.



REVOLUTIONISING EARTH OBSERVATION SATELLITES

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 737183.

OUR OBJECTIVES

The vision of the DISCOVERER project is a **radical redesign** of **Earth observation satellites** for sustained **operation at much lower altitudes** than the current state of the art. We want to achieve this by using a combination of new aerodynamic materials, aerodynamic control and **atmospherebreathing electric propulsion** for drag-compensation. These next generation satellites would be **smaller**, **less massive and less expensive to launch**, but would still achieve the same or even better resolution and data products than today's platforms.



DISCOVERER aims to develop the key technologies required to master the engineering challenges of this cutting-edge project. This requires foundational research in the following areas:

- → spacecraft aerodynamic characterization
- → material aerodynamics and atomic oxygen resistance
- → electric propulsion and control methods



A cost reduction of the very low Earth orbit (VLEO) systems would reduce the cost of European programmes dealing with:

- → maritime surveillance
- \rightarrow intelligence and security
- → precision agriculture and food security
- → land management
- → disaster monitoring

This broad scope of application will give Europe a world leading role in the development and exploitation of these technological capabilities.



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Get the latest news on twitter, LinkedIn or on our website:

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twitter.com/discoverer_eu



linkedin.com/groups/13525547



discoverer.space

WHY OUR RESEARCH MATTERS

Few vehicles operate in the altitude range between the highest reconnaissance aircraft at 26 km (highest sustained SR71 flight) and the lowest space platforms at around 450 km, except for relatively short durations or with frequent resupply. Yet, for remote sensing, very low orbits offer considerable advantages over conventional space platforms whilst maintaining global coverage, and without the inherent constraints on aircraft of airspace restrictions and limited range and duration.

Therefore, the potential impact of the breakthroughs the DISCOVERER project is aiming for is paradigm changing, equivalent to the impact the invention of the jet engine had on the aeronautical sector in the 1940s. The proposed **development of low-drag materials** and satellite geometries, along with the development of propulsion that enables sustained continuous flight at much lower velocities, both open up a whole **new flight regime for spacecraft** and hold the promise of radically changing the sector.

MEMBERS

DISCOVERER is an international research project that brings together 9 transdisciplinary institutions from 6 different countries:

- \rightarrow THE UNIVERSITY OF MANCHESTER Manchester, United Kingdom
- DEIMOS CASTILLA LA MANCHA SL \rightarrow Puertollano, Spain
- → GOMSPACE APS Aalborg, Denmark
- → INSTITUTE OF SPACE SYSTEMS (IRS). UNIVERSITY OF STUTTGART Stuttgart, Germany
- → UNIVERSITAT POLITECNICA DE CATALUNYA Barcelona, Spain
- UNIVERSITY COLLEGE LONDON \rightarrow London, United Kingdom
- → THE TECH TOYBOX, INC. Gainesville, FL, United States
- → FUROCONSULT SA Paris, France
- CONCENTRIS RESEARCH MANAGEMENT GMBH \rightarrow Fürstenfeldbruck, Germany



GOMSPACE A Aalborg, Denmark

THE UNIVERSITY OF MANCHESTER Manchester, UK

ERSITY COLLEGE LONDON

INSTITUTE OF SPACE SYSTEMS (IRS)

Concentris Research Management GmbH Fürstenfeldbruck, Germany \bigcirc

Stuttgart, Germany

UNIVERSITAT POLITECNICA DE CATALUNYA Barcelona, Spain

DEIMOS CASTILLA LA MANCHA SL Puertollano, Spain

THE DISCOVERER PROJECT IN A NUTSHELL

FULL PROJECT TITLE	Disruptive Technologies for Very Low Earth Orbit Platforms
START DATE	01.01.2017
DURATION TIME	51 months
PARTICIPANTS	9 institutions from 6 different countries
EC FUNDING	€ 5,726,750
PROJECT WEBSITE	www.discoverer.space
/	
PROJECT COORDINATOR	Peter Roberts University of Manchester → peter.c.e.roberts@manchester.ac.uk
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