



CALL FOR ABSTRACTS & INNOVATIVE BUSINESS CONCEPTS

**WORKSHOP ON COMMERCIALISATION & UTILISATION OF SPACE EXPLORATION TECHNOLOGIES
TURIN, 15-16 MARCH 2018**

New opportunities are emerging as with ESA's Space 4.0 initiative as part of a global New Space landscape. The International Space Exploration Coordination Group proposes the establishment of a Deep Space Gateway, a project led by NASA but being embraced by European member states and seen as growth opportunity for Europe. Planetary science missions to the inner and outer solar systems have significant and increasing appetite for missions to new targets in the solar system present new exploration challenges. In addition, the utilisation of space offers opportunities for exploiting resources from the moon, Mars and asteroids, and provision of services, not only at the benefit of exploration missions but also servicing e.g. LEO satellite constellations, and performing debris removal. **The benefits of space exploration and technologies for non-space sectors and the technology transfer from space is becoming increasingly important.** Partnerships between businesses, academia and industry and between nations as well as a healthy competitive environment will be an important ingredient to make Space 4.0 or New Space a true success.

In this context, the Space Exploration Working Group of the Network of European Regions Using Space Technologies (NEREUS) is launching a call for abstracts with the objective to **identify successful business ideas and innovative concepts demonstrating the benefits of the utilisation, direct commercialisation and indirect exploitation of space exploration outcomes.** The idea is to gather best practices, presentations of successful case studies, innovative ideas, future plans, new business models and initiatives of how innovations and technologies developed in the frame of space exploration could generate spin-off business and drive technology that increases economic outputs, improves productivity and supports non-space sectors.

KEY THEMES FOR THE ABSTRACTS

CATEGORY A DIRECT COMMERCIALISATION OF EXPLORATION OUTCOMES IN SECTORS SUCH AS

Commercial utilization of the ISS

In situ resources utilization on the Moon

Innovative space logistics around the Earth (Systems for In-Orbit Servicing, Transport, Assembly and Retrieval)

On-orbit manufacturing

Asteroid mining

Space Tourism

In-orbit demos

Media and entertainment

Citizens' Science

CATEGORY B INDIRECT EXPLOITATION OF EXPLORATION RESULTS IN OTHER SECTORS

"SPIN OFF-business" (techniques, hardware, software, devices, systems,...) in sectors such as:

Applications in healthcare,

Renewable Energy (generation and storage), e.g. technologies of exploration applied to energy from space

Monitoring, Access to and Regeneration of resources (air, water, food, waste, energy, ...)

Transport and logistics (Automotive and Aerospace industry, autonomous systems,...)

Civil protection and surveillance

ICT

Materials

SELECTED ARTICLES WILL BENEFIT FROM A SERIES OF ENHANCED OUTREACH ACTIONS

**PUBLICATION
BROAD PROMOTION
HIGH VISIBILITY
PITCHING OPPORTUNITIES
NETWORKING**

Deadline for submission: 31 December 2017

Selection Jury: Piero Messidoro (Piedmont Region), Laura Gatti (Thales Alenia Space), Richard Ambrosi (University of Leicester), Roya Ayazi (NEREUS), Giacomo Cao (Sardinian Aerospace District), Ernesto Vittone (ALTEC), Alessandro Chiesa (Aviospace), Alberto Accogli (Leoni Corporate Advisors), Cesare Lobascio (Thales Alenia Space)