

INNOspace – Enabling Innovation and Cross-sectoral Cooperation

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Knowledge for Tomorrow



The DLR German Aerospace Center



Aeronautics



Space



Transport



Energy



Security



Digitalisation



Space Administration



Space Research & Technology

- Research Institutes
- Space Agency
- Project Management



Objectives of INNOspace

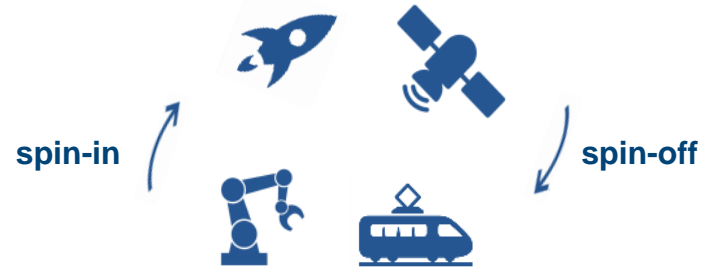
- fostering **innovation** for spaceflight sector
- Enhancement of **commercialization** and **start-ups**



The Reasons Why



generating ideas and starting
innovation projects



transferring technology



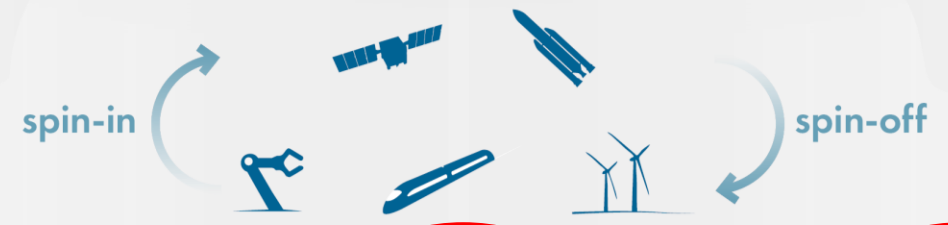
supporting New Space Economy



The **INNOspace Masters** 2017/18 awarded **innovative ideas** for new technologies and applications as well as business models and solutions for process optimization.

Three rounds since 2015 with **nearly 200 applications**, **10 winner groups** and **prizes** amounting to **4.2 Mio Euro**.





DLR
Space Administration

Pre-competition phase
Research, development, demonstrators

Target group:
Companies (especially SMEs), universities, and non-university research institutions

esa business incubation centre

Initial phase
Proof of market, near-to-market proto-

Target group:
SMEs, startups, research teams, students

AIRBUS **OHB**

Innovation and integration phase
Technologies, systems, services & solutions

Target group:
Science and industry, startups and individualists

Business Models for User Needs

Utilisation & Application Phase

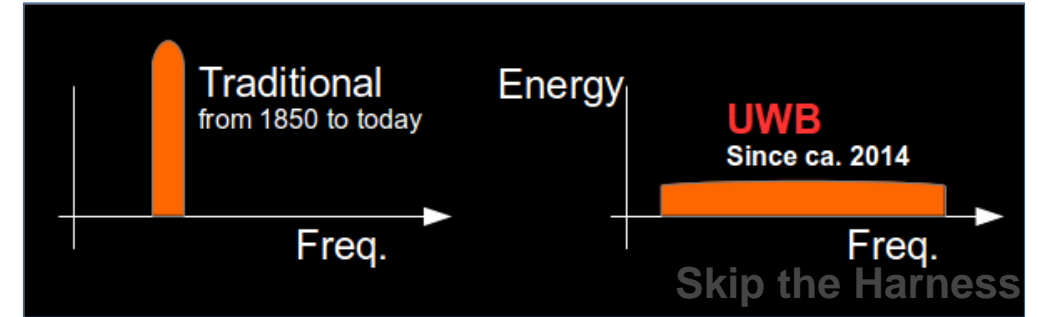
chain of innovation



SKITH

(Winner of INNOspace Masters 2016)

Prof. Sergio Montenegro,
Uni Würzburg



Problem:

- high weight
- high complexity
- inflexible installation and conversion

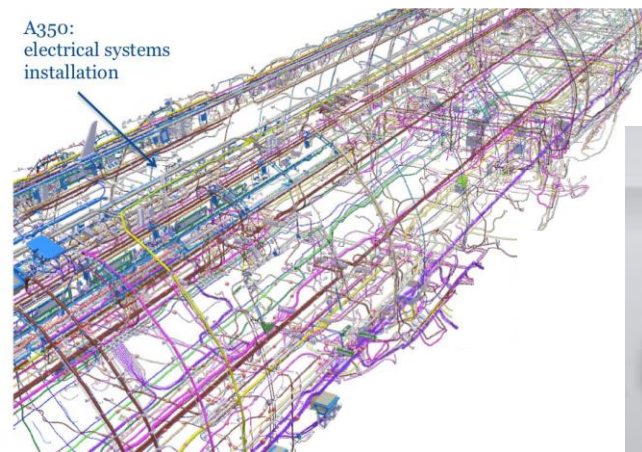
Solution:

- Wireless **satellite infrastructure** through wireless modules
- Ultra-**broadband** technology



Potentials

Aeronautics



Automotive



Objectives of INNOspace

- **cross-sectoral cooperation**
technology transfer
- exploitation of new markets



- **Conferences and expert workshops**
- **Expert networks**
Space and mobility, agriculture, health...





Cross-sectoral technology transfer



Innovation through Cooperation
Mutual learning between different industries

Challenges of climate change and extreme weather for agriculture

Drought



Pest infestation



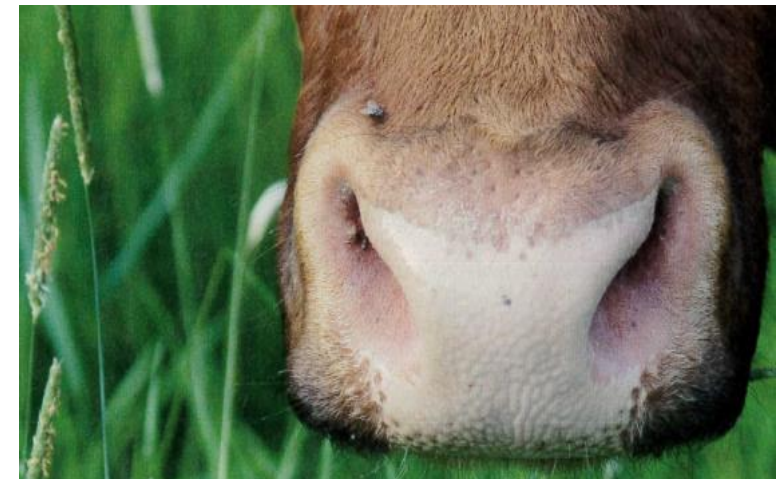
Growing world population



Storms and natural disaster



Methane emissions



Responding to the challenges:

UN 2030 Agenda for Sustainable Development Goals



- Ending hunger
Food security
- **Protecting ecosystems on land**
Sustainable use of resources
- **Stopping loss of biodiversity**
and desertification

UN 2030 Agenda for Sustainable Development

– Contribution of space



Resolution of June 2018, Vienna:

Stronger focus of international **cooperation in aerospace industry** on UN **SDGs** and **Paris Agreement on climate change (UNFCCC)**

→ **UN/Germany High Level Forum: Nov. 13-16, 2018, Bonn**

organised by



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INNOspace



UNISPACE
+50

Research

Innovation

