



FAB
SPACE 2.0

- OVERVIEW OF THE PROJECT -



The FabSpace 2.0 project received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement no. 693210

FabSpace 2.0 is

- An open-innovation network for geodata-based innovation - by leveraging Space data in particular, in Universities 2.0
- A one-stop shop-access to Space data and a wide range of other data as well as free software and data processing tools to develop new digital applications
- Complying with the specific challenge and scope set out in the topic “INSO-4-2015: Innovative schemes for open innovation and science 2.0
b) Academia - Business/ Public/ CSO knowledge co-creation”



The FabSpace 2.0 model

FabSpace 2.0 Team

Under the lead of Univ. Toulouse III - Paul Sabatier

Support



TECHNISCHE
UNIVERSITÄT
DARMSTADT



cesah
Centrum für
Satellitennavigation
Hessen



opegieka



UNIVERSITÉ
TOULOUSE III
PAUL SABATIER



aerospace
valley



bic lazio



corallia
inspiring innovation, driving excellence

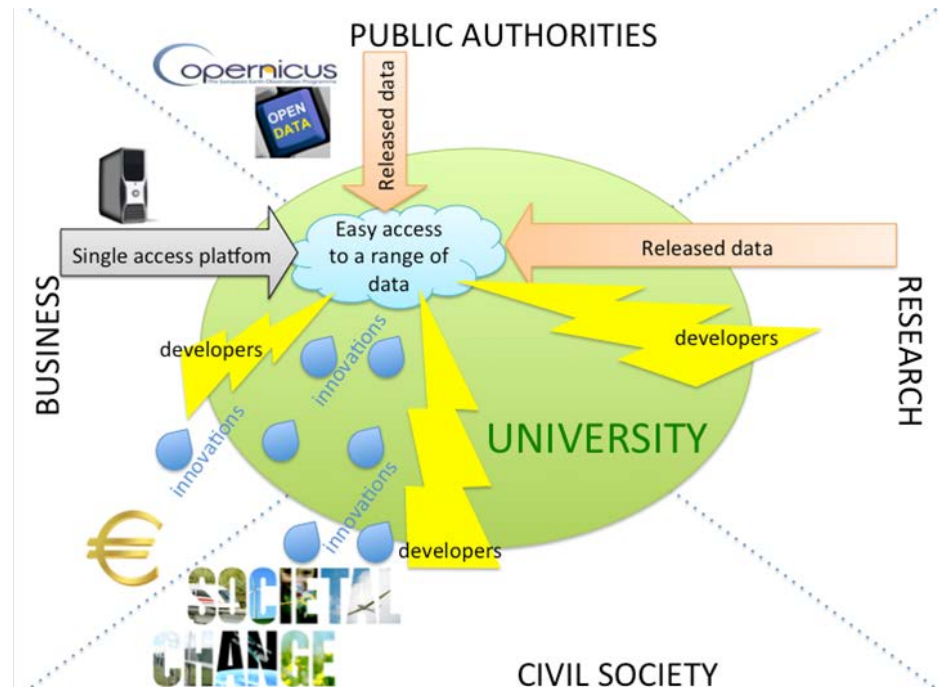


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Specific Objectives

- Train users to improve their capacity to process data and develop new applications
- Network users and consolidate their needs and industry requirements
- Foster the co-creation of new innovative solutions
- Support further business development
- Exploit, sustain and disseminate the FabSpace concept

Objective: Set up and operate at University a free-access place & service where students, researchers and external people can make use of a data platform; and design and test their own applications.



Target Groups

- Universities
- Public authorities
- Civil Society Organisations
- Researchers and students
- Industry
- Business support organisations

First in Europe,
then worldwide



Support activities

FACILITATOR FOR
THE FULL
REALISATION OF
UNIVERSITIES
AS **OPEN**
INNOVATION AND
BUSINESS
GENERATORS
IN THE AREA OF
(SATELLITE) DATA-
DRIVEN
INNOVATION

- A data management infrastructure (hardware & software)
- Technical support and online support to FabSpace users - Massive Open Online Course (MOOC) aggregator
- FabSpaces animation
- Entrepreneurship-oriented pilot actions & innovation leadership training programmes for researchers
- Space Science shops to collect the needs and the societal challenges of external stakeholders
- Events to tackle the identified challenges
- Bootcamps to mature projects and drive them to the creation of startups

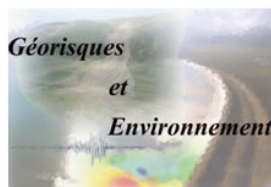


FryskLab Business Model Canvassessie Rotslab Utrecht

Flickr – Public Domain



→ identification, consolidation, formation et cohésion d'un pool de ressources techniques, basé sur l'ensemble des compétences académiques disponibles à l'ULg



Un fameux potentiel d'interdisciplinarité !

→ mise à disposition d'un espace dédié pour accueillir les sessions avec support technique

→ **identification des communautés d'utilisateurs potentiels** (industries, associations, organisations de la société civile, etc.)

→ **sensibilisation aux technologies géo-spatiales**

→ **émergence de besoins non-satisfaits** qui pourraient être couverts par les développements technologiques du pool de ressources techniques

→ **animations à la co-crétation** et à la **portée entrepreneuriale** des applications innovantes développées





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- POTENTIAL APPLICATIONS -



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Sectors with high market development potential for space data applications

Agriculture (€342 Bn)

savings in nitrogen,
better crop quality,
increases to overall crop yield,
positive environmental impact



Water transport (€95 Bn)

current forecast models, traffic
management in major ports and
harbours

Non-life insurance (€276 Bn)

accuracy of catastrophe models,
improved risk management and compliance
practices, damage or disaster assessment
information supporting loss quantification and
exposure mapping



Electricity generation from renewable sources (€46 Bn)

data on cloud cover, solar irradiance, and
on wind/wave speed and direction
(combined with other environmental
parameters such as land elevation and
land cover models) to develop a strategy
for the location and operation of solar,
wind, and wave power facilities

Oil and gas (€124 Bn)

complement of geological surveys,
improved readability of complex geoscience
datasets, seismic planning and subsidence
mapping to ensure safer management of
reservoirs and pipelines



Potential Space Data Applications

Cities

- Smart city
- Spatial management and sustainable development
- Revitalisation of degraded areas

Data

- Spatial data mining
- Spatial big data analysis
- Role of (geo)information society
- Example of Copernicus data: innovators can access open datasets and tools for data pre-processing and visualisation





FAB SPACE 2.0

- GET INVOLVED -



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Are you...

- A student / researcher with an innovative idea?
- Representing a University?
- Supporting new businesses?

GET IN TOUCH!

 www.fabspace.eu

 fabspace@irit.fr

 @FabSpaceWorld

 [fabspaceworld](https://www.facebook.com/fabspaceworld)



Take part in the next innovations in the field of
satellite space data applications



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