

ESA BIC Austria

Launch your business off the ground!

Inês Plácido
Science Park Graz
ESA BIC Austria Manager
ESA BA Austria Ambassador

Leading **high-tech business incubator** of the Austrian Incubator Network for Innovative High-tech Startups (AplusB), since 2002

Manager of **ESA Business Incubation Centre Austria**, since 2016

Ambassador for **ESA Business Applications Austria**, since 2016

Certified by EBN European Business and Innovation Centres

Based in **Graz**, Austria



Numbers that make the difference

310

Companies /
Projects

170+

Companies
founded



250+

Patents

1100+

Jobs

2

Incubation
Programmes

37

Current
Incubatees

30

Academy
Projects / year

600+ m²

Floorspace

17

Years of
Excellence

APLUSB

The high-tech incubator

Transforming visionary, technology-oriented ideas
into successful businesses.

FIND OUT MORE



ESA BIC AUSTRIA

The space tech incubator

Transferring technologies from space to other
areas of the economy.

FIND OUT MORE



ESA BIC Austria

THE INCUBATOR FOR SPACE-RELATED TECHNOLOGIES

When you have a space connection, you can apply to our ESA BIC Austria incubation programme. It's the place for entrepreneurs from research centres, universities, space and non-space business seeking to realise their innovative ideas and transfer technologies from space to other areas of the economy.

[ESA BIC AUSTRIA](#)

[SPACE CONNECTIONS](#)

Space Connections

Your guide to what makes a strong space connection

CREATE TECHNOLOGY FOR SPACE

Spin in

A space connection can be defined as a "Spin in". It refers to the creation of technologies for space applications and industries.

APPLY SPACE TECHNOLOGY ON EARTH

Spin out

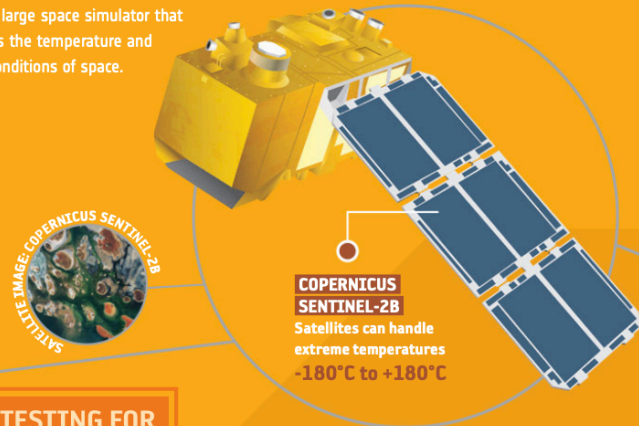
In the other direction, a space connection can be a "Spin out". This refers to the use of space technologies in terrestrial applications.

PIONEERING TECHNOLOGY

To build technology that can handle the harsh environment of space, our engineers push the boundaries of what is possible. Technological innovations then trickle down to benefit industries on the ground.

ESA's world-class laboratories turn science into innovation. We develop hardware and software for use in space and on the ground. In space there is no easy way to fix a technical glitch, so everything we build has to be incredibly reliable.

Space technology gets rigorously tested. Our engineers put new satellites through their paces, including testing them in a large space simulator that reproduces the temperature and vacuum conditions of space.



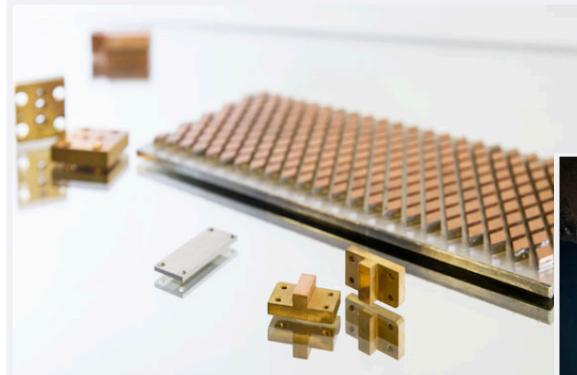
TESTING FOR
BLAST OFF NOISE!

WE USE EUROPE'S MOST
POWERFUL SOUND SYSTEM

154
DECIBELS

**MATERIALS
FOR ROCKET
NOZZLES**

ALSO USED IN
BRAKES FOR TRAINS,
PLANES AND
AUTOMOBILES!



ESA BIC

AT SPACE

AT SPACE offers smaller, lighter
and higher performing...

READ MORE

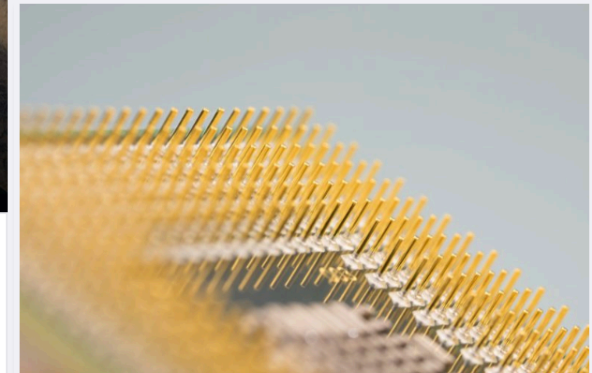


ESA BIC

Space-Lock Dynamics

Space-Lock Dynamics answers
the evolving market need for...

READ MORE



ESA BIC

Garnet

Garnet is a high-tech company
developing hardware solutions...

READ MORE



Space Connections

Your guide to what makes a strong space connection

CREATE TECHNOLOGY FOR SPACE

Spin in

A space connection can be defined as a "Spin in". It refers to the creation of technologies for space applications and industries.

APPLY SPACE TECHNOLOGY ON EARTH

Spin out

In the other direction, a space connection can be a "Spin out". This refers to the use of space technologies in terrestrial applications.

ESA and patents

5473 VIEWS 10 LIKES

[ESA / About Us / Law at ESA / Intellectual Property Rights](#)

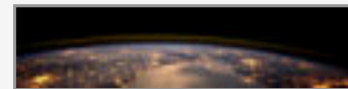
ESA's portfolio of patents contains approximately 450 patent applications and patents for inventions made by ESA staff. They cover subjects such as antennae, satellite attitude control mechanisms, communication equipment and systems, detectors, mechanical engineering, optical communication, power supplies and propulsion systems.

http://www.esa.int/About_Us/Law_at_ESA/Intellectual_Property_Rights/ESA_and_patents

IP for commercialisation

17499 VIEWS 18 LIKES

[ESA / Enabling & Support / Space Engineering & Technology](#)



All Space IP



Electronics & communication technologies



Materials & new production technologies

http://www.esa.int/Enabling_Support/Space_Engineering_Technology/IP_for_commercialisation



Home

How it works

Solutions ▾

About us ▾

STOP FOLLOWING START LEADING

Competitive edge through data analysis and the creation of transparency and quality


Data are the new raw materials. In this era of Big Data, it is essential to create transparency in the information and associations held in the mountains of collected data, and to mine from a high-quality data base. Relevant and correct data are the precondition for making the right decision at the right time.

ENABLING & SUPPORT

DrMUST Automating the first steps of Anomaly Investigation

https://www.esa.int/Enabling_Support/Operations/DrMUST_br_Automating_the_first_steps_of_Anomaly_Investigation

 **Federal Ministry**
Transport, Innovation
and Technology

 **Home**
About
Overview
Search
Login
Contact
Imprint

AUSTRIAN TECHNOLOGY IN SPACE

Austrian space industry and space research are presented on this website with the aim of increasing their international visibility and to support networking of national and international players.

Search Catalogue ►




BRIMATECH

www.spacetechnology.at

→ ESA TECHNOLOGY TRANSFER NETWORK

LEGEND

- ESA Broker
- ESA Prime Broker



The space you need to get your business off the ground



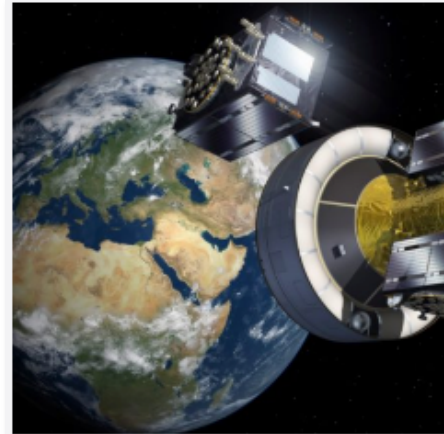
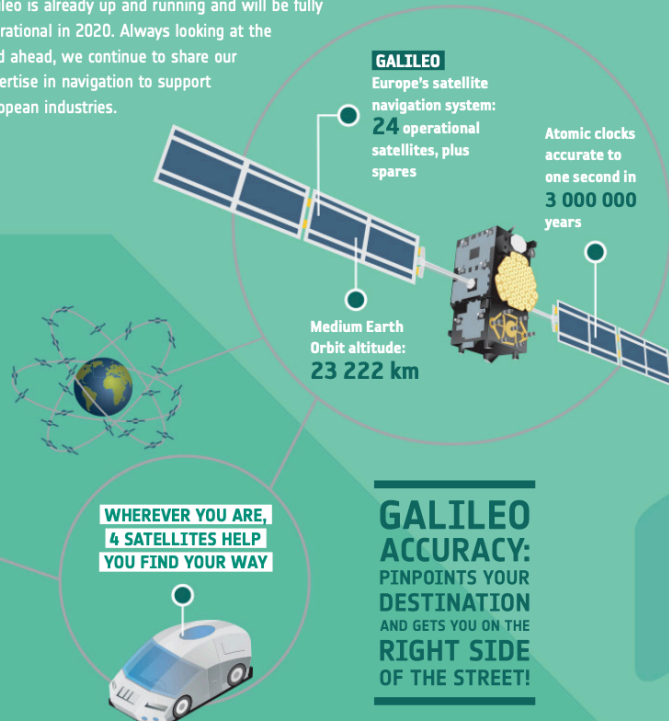
https://www.esa.int/Applications/Telecommunications_Integrated_Applications/Technology_Transfer/Technology_Transfer_Network3

NAVIGATING THE GLOBE

In ancient times, people used the stars for navigation. Today, we can use a constellation of European satellites in space. Thanks to satellites, it's easy to find out where you are on the map – and how to get wherever you want to go.

Working with the European Commission, ESA has built Galileo – an independent global satellite navigation system for Europe. With 24 satellites and a network of ground stations around the world, Galileo provides precise global positioning information.

Galileo is already up and running and will be fully operational in 2020. Always looking at the road ahead, we continue to share our expertise in navigation to support European industries.



accurision

Accurision

Accurision GmbH, based in Lustenau/Austria, develops precision,...

READ MORE



STAP

STAP is developing specialised monitoring solutions with seamless...

READ MORE



ESA BIC

Lympik

The vision of Lympik is to increase motivation...

READ MORE



→ CONNECTING & BENEFITING

WATCHING OVER EARTH

Satellites provide a unique perspective on our planet. From space it is easier to see the effects of climate change, the extent of flooding and forest fires – or simply if it will rain today!

The weather satellites we build with partners, such as Eumetsat, provide improved weather forecasts that benefit everyone and are a vital tool for agricultural and transportation industries.

We use Earth observation satellites to monitor the health of our planet and to understand how it works. Satellite data and images help us to see the bigger picture regarding global change. Scientists and governments can use this data to understand, protect and manage our environment, safeguarding Earth for future generations.

SATELLITES CAN
SPOT WAVES

30
METRES TALL

COPERNICUS

EUROPE'S
EARTH OBSERVATION
PROGRAMME:
150 000 GB
OF DATA
EVERY DAY

SATELLITE IMAGE: COPERNICUS SENTINEL-3A

600 million
people live less than
10 metres
above sea level

Global sea level
+8 cm since
the early 1990s

SATELLITES
Help to monitor
climate change
and sea level



IceKing

IceKing aims to create a virtuous cycle between...

READ MORE



Perigee

Perigee is a software platform that enables organizations...

READ MORE

ESA BIC



audili

Audili

Audili develops hyperspectral data analytics for soil nutrient...

READ MORE

ESA BIC


CONNECTING THE WORLD


Communication brings the world closer. ESA helps to make this global conversation possible with satellite technology. We also support the industries and innovations that will shape the telecommunications of the future.

Satellites make possible many of the technologies we use every day. Satellite TV, weather forecasts and internet access in remote areas, all work thanks to satellites in space.

ESA has been at the heart of Europe's satellite communications from the outset and continues to be at the forefront today. We develop new telecommunications systems and nurture European innovation, bringing industry, science and space technology together.



 **esa**
space solutions

 business applications

ESA INVESTOR FORUM

AMBASSADORS

HOW TO APPLY

NEWS

PORTFOLIO

CONTACT

SPACE SOLUTIONS

Search

SARONTAR - Situational Awareness and Command & Control of Rescue Forces in Alpine Regions

Home » Portfolio » SARONTAR



ACTIVITY	Demonstration Project
STATUS	Completed
THEMATIC AREA	Safety & Security

The SARONTAR (Situational Awareness and Command & Control of Rescue Forces in Alpine Regions) project comprises the demonstration and pilot implementation of a satellite-supported operations control system for a more effective and a more coordinated proceeding of the rescue forces in alpine rescue missions.

It is based on GNSS for positioning and navigation. Topographic maps and high resolution orthophotos form the basis for geoinformation. As communication techniques, terrestrial and satellite communication is used to provide a high level of reliability and thus seamless communication between rescue forces, mission controllers and emergency management centres.

The scope and main objective of the demonstration project was to show the benefits of the provided services to relevant stakeholders. As such, the added value of space assets (satellite navigation and satellite communication) used in the solution were detailed and demonstrated. It targets successful integration of the pilot system into the daily routine of alpine rescue organisations. Therefore the system, based on prior research & development projects, was adapted according to user requirements for practical usage and the most adequate hardware currently on the market were implemented (e.g. outdoor smartphones).

ESA BIC Austria

THE INCUBATOR FOR SPACE-RELATED TECHNOLOGIES

When you have a space connection, you can apply to our ESA BIC Austria incubation programme. It's the place for entrepreneurs from research centres, universities, space and non-space business seeking to realise their innovative ideas and transfer technologies from space to other areas of the economy.

[ESA BIC AUSTRIA](#)

[SPACE CONNECTIONS](#)

Providing space to succeed

Join our network

A community with a shared vision is a great source of motivation, so join the world's largest incubation network.

Launch with €50,000

Building prototypes and registering patents fast is essential and made possible with the ESA BIC grant.

Access ESA expertise

Resolve technical challenges by accessing technical support and expertise from ESA "rocket scientists" and experts.

Consult our team

Everyone needs help to succeed, receive business assistance from a dedicated ESA BIC programme manager.

Reach global investors

Investors are a great way to bring money and know-how into a start-up, we give you special access to investors.

Get office facilities

Having a place to work with professional meeting facilities and great coffee, means you can focus on your start-up.

Get special opportunities

Having the right connections is important, so get exclusive opportunities to work with industry and discover tenders.

Beat the competition

It's great to win awards and especially when they come with cash prizes and exposure, so we ensure you don't miss out.

Receive greater exposure

An association with a powerful brand can deliver great benefits and open doors and the ESA brand is recognised globally.

ESA BIC NETWORK

Network of **20** centres supporting space-related start-ups to get their business off the ground.

700+ Total Start-ups to date

350+ Current Incubatees on Sites

60+ Number of Locations within the ESA BIC

360+ Total Number of Alumni



ELIGIBILITY

Clear Space Connection (Spin in or spin out)

Natural persons OR companies up to 5 years old

Legal representatives hold > 50% of the capital

Incubate in Styria OR in Lower Austria



Your journey to incubation

LAUNCHES HERE!

The application process helps us evaluate your project based on its space technology, whether using space technologies or expertise for applications in a non-space environment. It should be innovative, technology-driven and either at an early stage or ready for commercial development.

Next application deadlines:

17th of March 2020, 5pm

8th of June 2020, 5pm

27th of October 2020, 5pm

1

Get in contact

Now that you know how we can support you, it is time to get in touch with us! Fill in our form and we'll contact you in order to discuss your business proposal. If it is a good fit, we will suggest you download and complete the open call documents.

2

Download documents

If all looks good, we'll ask you to complete and sign the application documents found here. These should be sent to spacesolutions@sciencepark.at along with a cover letter, incubation proposal, and business plan and any related appendixes as required.

3

Tender evaluation

Once your application has been received we will evaluate your proposal and if successful you will be invited to present your proposal at the next Tender Evaluation Board meeting. The TEB is responsible for selecting projects for incubation.

4

Join our space community

If successful at the TEB, you will be invited to join our 24-month incubation programme at the next intake. We will send you the contracts to sign and welcome you onboard.

Almost 4 years of great achievements

37

Selected

28

Contracts
(18 SPG – 10 Accent)



18

Incubatees
(10 SPG – 8 Accent)

11

Alumni
(9 SPG – 2 Accent)

3

Austrian States
(Stmk, NO, Vrlb)

5

Cross-border
entrepreneurs

17

Newly created
companies

90+

Jobs
created

3x

Jobs
multiplier



Copernicus Incubation Programme

Supporting the growth of
Copernicus data and services
based start-ups in Europe





Copernicus Hackathon Graz

See the Big Picture

The Copernicus Hackathon Graz is part of the European Union's Copernicus Programme. Our aim is to motivate and inspire developers, entrepreneurs and industry to conceive innovative ideas for the betterment of society.

We are inviting all developers, scientists, researchers, business developers, designers and all earth observation and space enthusiasts to join us in the first Copernicus Hackathon taking place in Graz!

When: 07-08.05.2020

Where: TU Graz, Stremayrgasse 16, Graz, Austria

Apply by: 15.04.2020

BIG DATA

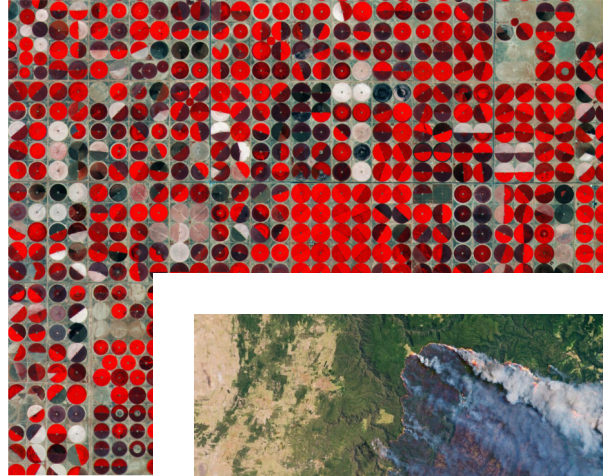
Remotely Sensed Big Data Management and Analytics Engine

Background

Heterogeneous Earth Observation (EO) data is being generated with higher pace than ever before. The immensely increasing remotely sensed data Volume, Velocity and Variety, poses the immediate challenge of managing the complex Big Data using techniques that support efficient consumption of these datasets in diverse applied domains without expert knowledge of the remote sensing techniques.

Challenge

1. Developing models (data storage models to handle spatio-temporal data e.g. data cubes, data warehousing etc) and automated analytical tools (e.g. spatial data mining, ML etc) that would support remotely sensed big data management and analytics for specific domains without expert RS knowledge of the user.
2. Semantics enrichment of remotely sensed data using data fusion techniques and/or Linked data approach.



GLACIAL DYNAMICS

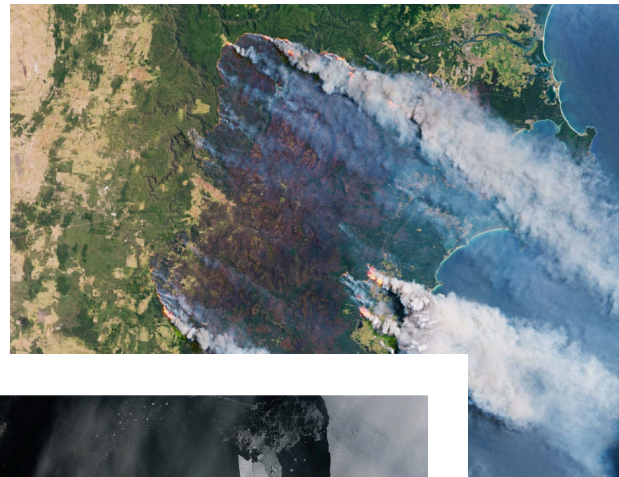
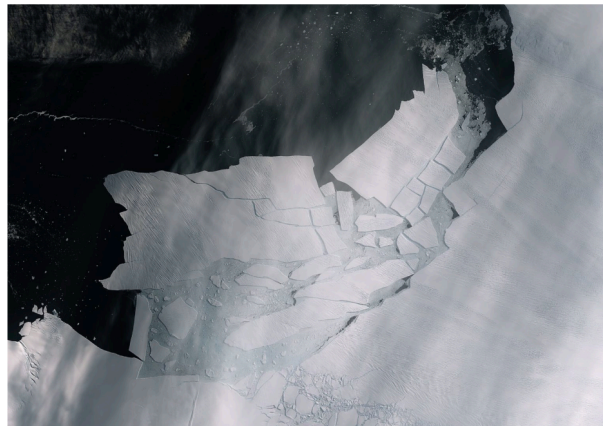
Monitoring Glacial Dynamics using Remotely Sensed EO Data

Background

The intensity and frequency of disasters is increasing around the globe. This is mostly attribute to the climate change thus making it one of the important issues of our time. Mountain ecosystems are more vulnerable because of the sensitivity of glaciers towards climatic variations. Monitoring glacier dynamics as indicators of climate change are thus important for understanding and assessment of glacier related hazards.

Challenge

Developing models for monitoring glacial dynamics for predicting glacier behavior and sensitivity to climate variations.



FOREST FIRES

Predicting Forest Fires in Europe using Remotely Sensed EO Data

Background

Recent climatic variation and changes have drastically increased the risk of wildfires that pose threat to both human and wild life. The scale and intensity of the recent catastrophic wildfire events in Australia is an eye opener for the world and also demands for appropriate response from the researchers to invest more resources and efforts in studying wildfires at local, national and global scales. RS is already being used for the detection and monitoring of active wildfire events. However, predicting wildfires based on climatic, meteorological and other relevant datasets at various scales timely and accurately is still a big challenge.

Challenge

Creating wildfire prediction models for Europe using remotely sensed and other related publicly available datasets.

Thank you!

Science Park Graz

ESA BIC Austria

ESA BA Austria

www.sciencepark.at

www.esa-bic.at



spacesolutions@sciencepark.at

info@sciencepark.at