



BUSINESS INCUBATION CENTRE

Switzerland

ESA BIC Switzerland – online Info Event

29 August 2023





Agenda

- Welcome
- Introduction to ESA BIC CH
- ESA BIC CH start-up TerraRad Tech and their experience in the program
- Q&A

ESA business incubation

Network of **60 centers in 18 ESA countries** supporting space-related start-ups to get their business off the ground.

150+

Yearly startups supported across Europe

1000+

Start-ups supported to date



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ESA BIC Switzerland – at a glance

What?



For whom?



How?



When?



Switzerland-wide start-up program in cooperation with the European Space Agency (ESA) **High-tech start- ups** with "space connection", <5 years old, registered in CH

Two year program for **up to 10 new start-ups per year**

- Up to 200k € per start-up (nondilutive funding)
- Technical (80h)& business support
- 6 Community Events p.a.

Open call with

2 selection rounds

per year – in March

and November





The process – how does it work?



- Registration on esabic.ch/application
- "Two-pager"
- Full application
- Open Call with two deadlines: end of February & end of October







Community Events

¹ All grants without equity; however requiring matching funds

ESA BIC Switzerland: 19 incubatees and 48 alumni from all over Switzerland





Alumni



ESA BIC Switzerland – results to date



10.8 mio €

non-dilutive funding from ESA

900+ jobs created in CH

19 incubatees and **48** alumni (plus 3 drop-outs)

470+ mio € 3rd party money

Supported start-ups, from **German**, **French**, **and Italian speaking part** of Switzerland

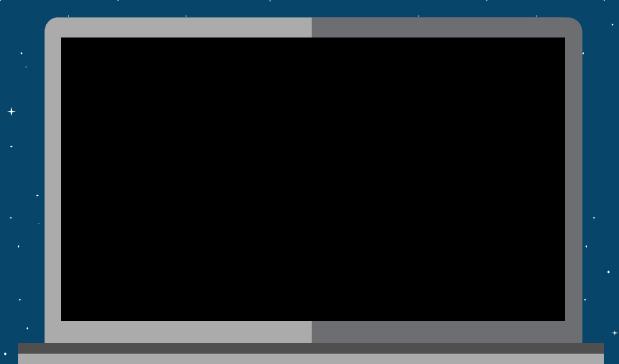
applications since-start of ESA BIC CH

160+ full

15+ start-ups with 1+ mio CHF revenues p.a.

rai<u>sed</u>1

What is a space connection?











esa Business Switzerland

What is a space connection?



From earth to space



Purely for space



From space to earth



BUSINESS INCUBATION CENTRE

Start-ups in different space business segments (examples)

Exploration & cleaning



Space infrastructure (e.g. satellite components)



Sensing in space & on earth



Materials & processes



Telecommunication & security



Space data applications







Key benefits for start-ups of ESA BIC CH:

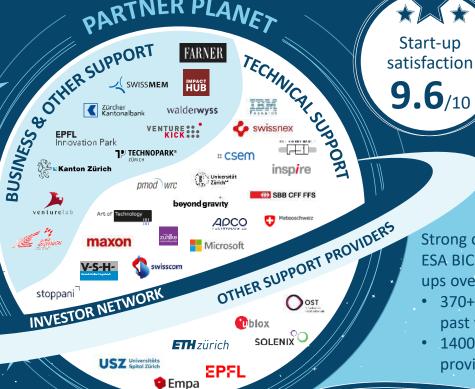
No. 1: **Network & contacts**

No. 2: **Funding**

No. 3: -*Technical & business support

No. 4:

ESA brand & visibility/events



Strong collaboration between ESA BIC CH partners and start-

Start-up

• 370+ interactions during past years

ups over first 5 years:

1400+ hours of support provided +







Technical & business support: overview



services, comm./marketing services)

- Technical: via Michael
- Business: via KAM¹
- To be initiated via KAM¹

All on shared dropbox folder







ESA BIC CH community events: meet, leverage & learn

Topics, e.g.

- (New) space and ESA
- EU and other ESA funding
- Intellectual property
- Product development
- Certification
- Digital marketing
- Branding
- Sales and biz. dev.
- Negotiating
- Supply chain mgmt.
- HR topics
- Best practice exchange

Key Benefit

Involved partners/experts, e.g.

- Art of Technology
- Apco
- maxon
- beyond gravity (ex Ruag)
- Sofo Consulting
- Swiss Post
- Swiss Re
- u-blox
- Unit9
- Walder Wyss
- Zühlke
- ... and many alumni!

...followed by an apéro & socializing!

Location

- Every second month at different locations around Switzerland 2023:
- 06.07., 17.8., 12.10., 07.12.



















Benefits – feedback from start-ups



Amael Cohades CompPair





Luc Piguet ClearSpace





John Jost Enlightra



This is a great program to be part of. It has helped us to grow our network and credibility and opened many doors for us. The support we received, and the focused business development approach are perfect.









ESA BIC Switzerland: operational set-up

Dr Nanja Strecker, Ina Schultz, Michael Gschweitl, Christof Bötschi

ETH Zürich (VPWW, Prof. Dr. Vanessa Wood)

General Management, Project and Technical I



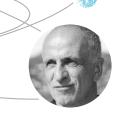






Merle Zur
Impact Hub
Community Management













ESA BIC CH start-up: TerraRad Tech

Earth Observation satellite tech for saving water
Soil moisture mapping for irrigation

We bring efficiency to agriculture and golf by applying groundbreaking innovations in the field of microwave remote sensing



ESA BIC is supporting us with the relevant network, business coaching and insightful events





Switzerland

Any questions? www.esabic.ch







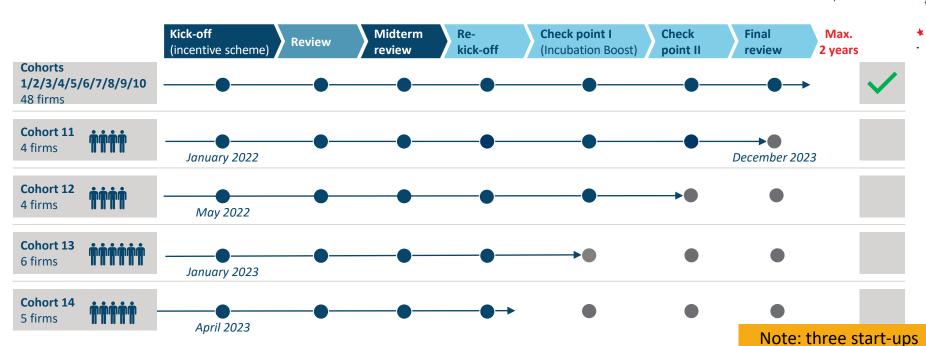
Benefits – feedback from our start-up Menhir Photonics







Start-ups are at different stages of the incubation period (2y)



Meeting took place/Incentive Scheme

Future meetings

have not completed the full program (and are not shown here).

esa



ESA BIC CH technical support: 2 more examples

Synthara & CSEM

- CSEM: academic partner
- Synthara requested technical support from CSEM's micro-control experts (technology development and breadboard testing)
- Collaboration was very successful and a joint Innosuisse project was granted
- Joint IP was developed

Zühlke Engineering & Botas Systems

- Zühlke Engineering: industrial partner
- Bota Systems was looking for a test bead to understand the EMC signature of their device before entering any costly certification testing
- Zühlke has an in-house test chamber (to assess EMC signature of Zühlke's own developments)
- Zühlke granted Botas Systems access to the test facility in the frame of ESA BIC CH tech. support











ESA BIC CH start-ups From space to earth: INSOLIGHT



Developed industrial prototype with world-record breaking solar cell efficiency

Insolight started within ESA BIC CH as a team of three with lab results using space-grade solar cells on earth



Are nowadays team
of 20+, closed two
financing rounds,
and have the technical
lead in an EU project
of 10+ Mio €

ESA BIC CH start-ups From earth to space: CYSEC



Vast majority of satellites are currently not secured where Cysec has identified an attractive market

Cysec has developed an all-in-one cybersecurity solution already in use within the financial sector



Just started
a cooperation with +
Spacebelt to secure
a constellation of
satellites for cloud
services

ESA BIC CH start-ups



Purely for space: ClearSpace

ClearSpace: the first garbage collection service for space!

Design agile satellites able to find, capture and remove non-functioning satellites from their orbits in space



Are the first Swiss and first start-up led consortium commissioned for ESA's first space debris removal mission with a € 80+ million in financing by ESA member states