PHOTONICS

INNOVATION BOOSTER

Innovation Booster

powered by Innosuisse

Call for Radical Innovation

SWISSMEM

Innovation Booster Photonics

We boost radical ideas in Photonics:

- **bring together players** from research, business and society
- **interdisciplinary** teams, **co-operate** with partners along the entire value chain
- Create **open innovation** culture
- address **customer needs** from start – **end user** is part of the team

Powered by:

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Innosuisse – Swiss Innovation Agency

With the leading house:

SWISSMEM

❖ For early-stage innovation: observe, design & test phase
❖ Other funding programs available for the implementation phase!

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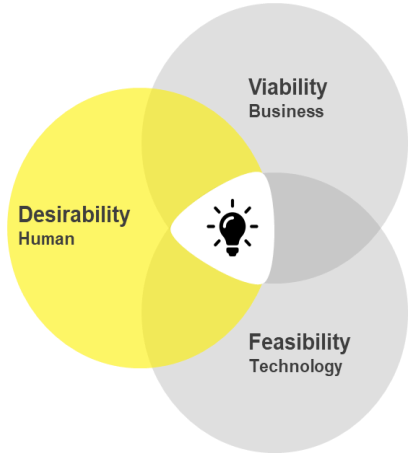
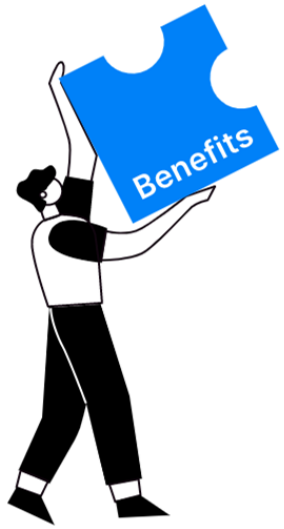
Booster Projects



- Do you have an identified unsolved challenge?
- Build teams to test and verify innovation ideas!
  - Test the desirability, viability and feasiblity of the idea
  - With an interdisciplinary team with an academic partner and an implementation partner / end-user involved

Grant up to CHF 25’000



Expert support ⓘ

Matchmaking support ⓘ

Methodology support ⓘ

Funding ⓘ

Simple, fast, little administrative effort

Applications from SMEs, startups, large companies, etc. are highly welcome!

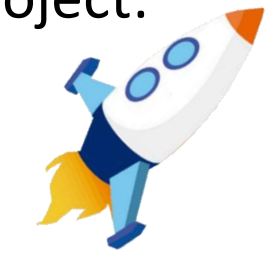
Submissions possible at any time – no fixed deadlines

Booster Process – How does it work

Phase I:

Find a Challenge, Build an Innovation Team

- If you already have an idea for a project: contact us directly and apply for a project!



- Participate in one of our events to get inspired:

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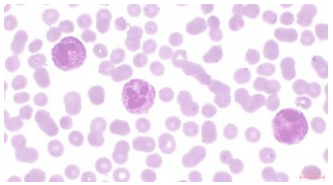
Workshops 2023

Innovation Booster powered by Innosuisse

Microassembly

with MICROTECH BOOSTER, CIPOSA, FEMTOPRINT

16. March 2023 /
Neuchâtel - Ciposa SA



Photonics for spatially resolved tissue analysis

with TEDD, SWISS PHOTONICS

12. April 2023 / Swissmem Zürich

Connecting Startups, Young Companies and the Photonics Industry

SWISSMEM Photonics

5. Sept 2023 / Swissmem ZH

Image Analysis Technologies for Robotics and Automation

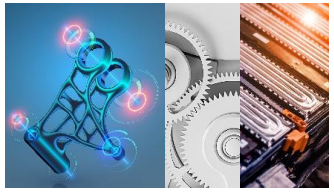
FHGR, SWISS PHOTONICS

12. Sept. 2023 / Chur - FHGR

Ultrafast Laser Microprocessing in Transparent Materials

GMP, YALOSYS, NKT Photonics, n|w

14. Nov. 2023 / Regensdorf



Young Talents for Innovative Industries

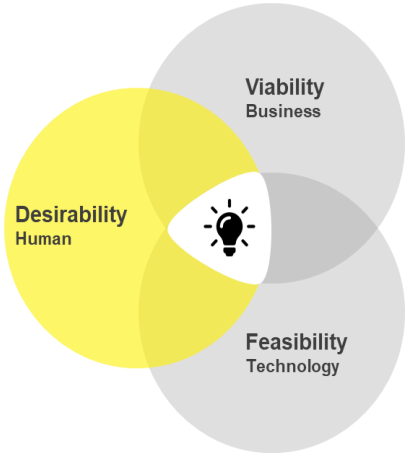
MICROTECH BOOSTER, IBAM, mps, Bien Air

15./16. Feb. 2024 / Biel

Booster Process – How does it work

Phase II:

Run a Booster project



- CHF 25’000.- and 5 months time to:
  - Elaborate potential solutions for your challenge
  - And test desirability, viability and feasiblity of the idea

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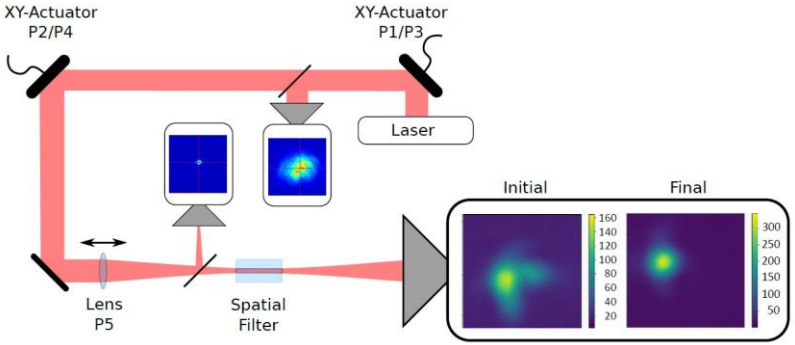
Project Examples (1/2)

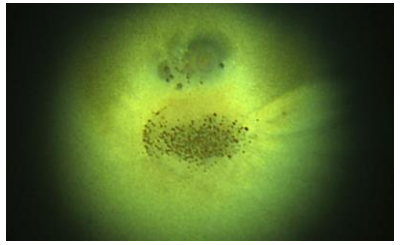
- *Title:* ***Demonstrator for a fully automated palletizing***
- *Team:* No-touch robotics GmbH, Feinwerkoptik Zünd AG, Optics Balzers AG, Mikrop AG, Zünd Präzisionsoptik AG
- *Project idea:* Versatile Pick & Place Automation Cell for Small Optical Components with novel robotic perception and gripping technologies.
- *Status:* Internal development project ongoing

- *Title:* **Laser stabilization with Machine Learning Algorithms**
- *Team:* FHNW, PSI, ETHZ/Inspire, TLD Photonics AG

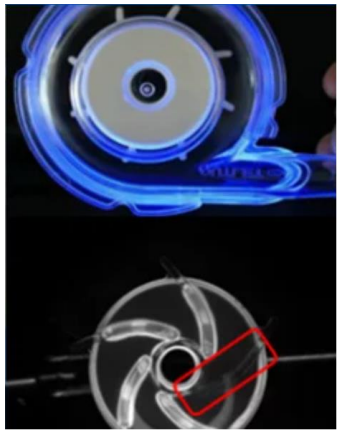


- *Project idea:* Lasers suffer from long-term pointing instabilities due to environmental and other influences. We studied feasibility of Bayesian optimization method from Machine Learning to optimize the laser beam in those multi-dimensional aspects in a fast and reliable way.
- *Status:* Internal development project ongoing: implementation at PSI

Project Examples (2/2)



- *Title:* **Pracmatic – Practical monitoring over time during optical interference coating production**
- *Team:* Bühler, Evatec, Fisba, Materion Balzers Optics, Opcos, Schott, Swissoptic, UniNE, BFH, OST, RhySearch
- *Project idea:* Investigate factors influencing particle formation and finding practical, industrial methods for eliminating the creation of particles during deposition of optical thin film coatings. Developing robust, easy-to-use, cost effective in-process diagnostic tools and/or software for monitoring the coating processes.
- *Status:* Innosuisse project ongoing (100.288 IP-ENG, 1.78 Mio)

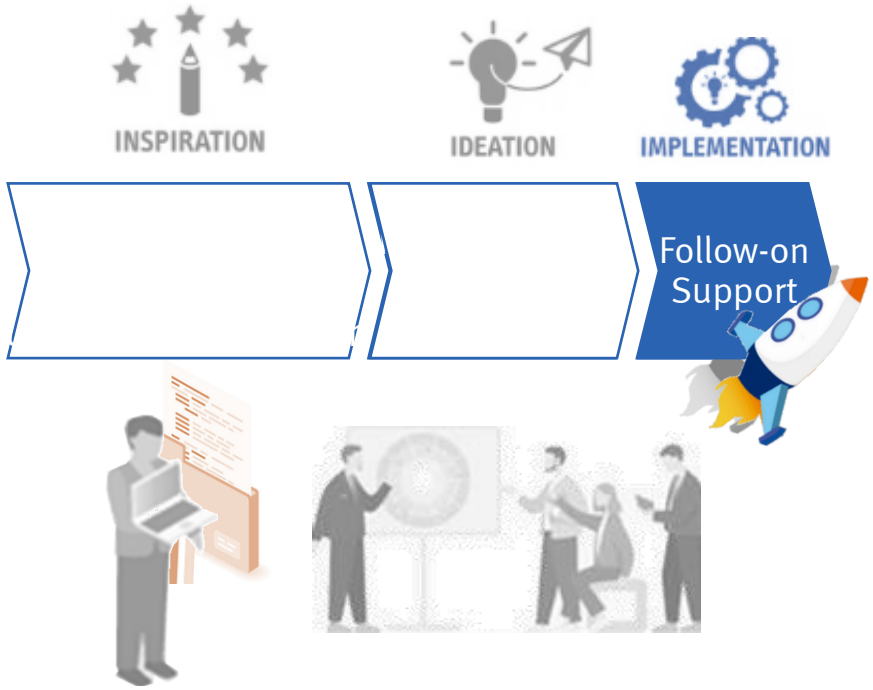


- *Title:* **Automated visual inspection of a life-supporting blood pump**
- *Team:* Thoratec Switzerland GmbH / Abbott Laboratories, ZHAW, FH OST
- *Project idea:* Sensor technology for a visual in
  Visual inspection will be fully integrated into a
  decision with a zero tolerance for wrong pass-
- *Status:* Application for Innosuisse project ongo

❖ More examples can be found on our website -> https://www.ntnphotonics.ch/projects

.. And after the booster project?

Phase III:



Implementation:

Successful booster projects go on..:

- **Development project** within the company
- **European** funded projects
- **Innosuisse** Innovation cheque, innovation project, impulse grant,… :

Swissphotonics <-> IB-P

Support Innovation in the Photonics Community CH
(Support, Networking, Matchmaking, Workshops, ..)

supporting more mature ideas with:

- Swiss National Photonic Clusters
- Support for: ‘large’ Innosuisse Innovation Projects, EU projects, international initiatives, ..

boosting <u>radical</u> ideas with:

- Early stage development of need and customer-oriented innovation
- Innovation Booster projects:
  get financial support (up to 25k) and missing skills on demand

If you have a need, contact us - either Swissphotonics or the Booster - we will be happy to coordinate between the organizations

Follow us – Stay updated about our events and activites:

- www.ntnphotonics.ch
- Register for our newsletter
- Innovation Booster Photonics
- Contact us directly:
  info@ntnphotonics.ch

Our Partners:

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Your Feedback matters

https://de.surveymonkey.com/r/YH2NXJL

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FH GR Fachhochschule Graubünden University of Applied Sciences

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