



NTN Innovation Booster – Microtech

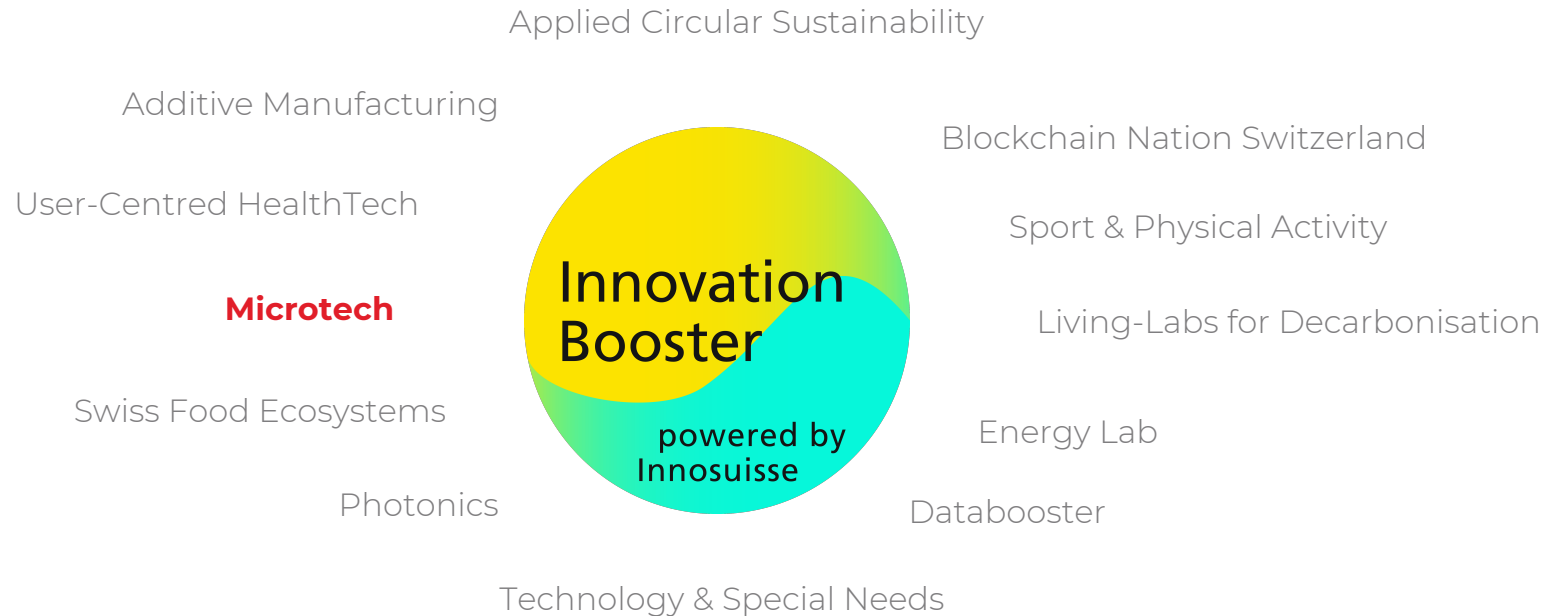
www.microtechbooster.swiss





What is an NTN Innovation Booster?

Innosuisse is the Swiss Innovation Agency
12 innovation themes to be sponsored between 2021 and 2024.



<https://www.innosuisse.ch/ntninnovationbooster>





The key partners



Steering Committee = strategic



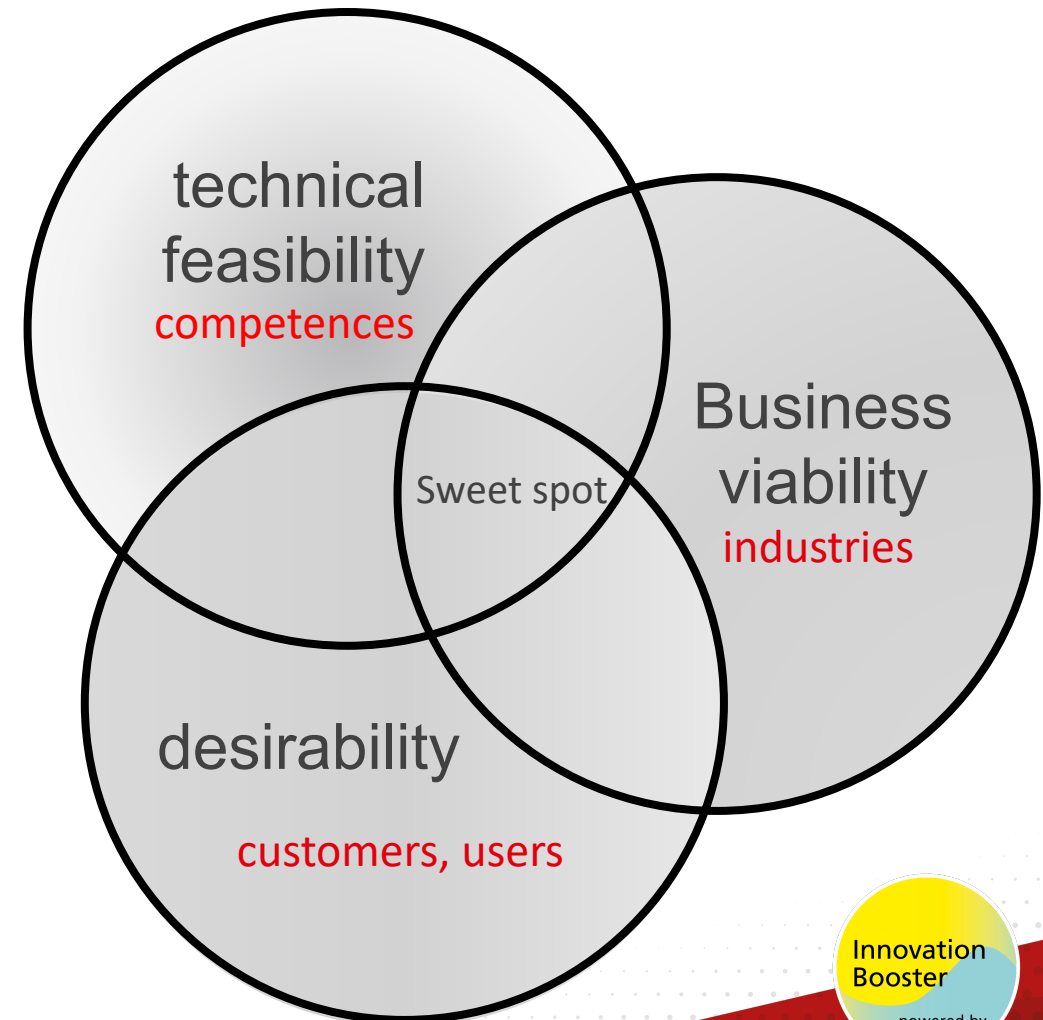


Goal of the NTN Microtech Booster: creating value

VISION: Competitive Swiss microtechnology industry

AMBITION: creating value

MISSION: to animate the ecosystem





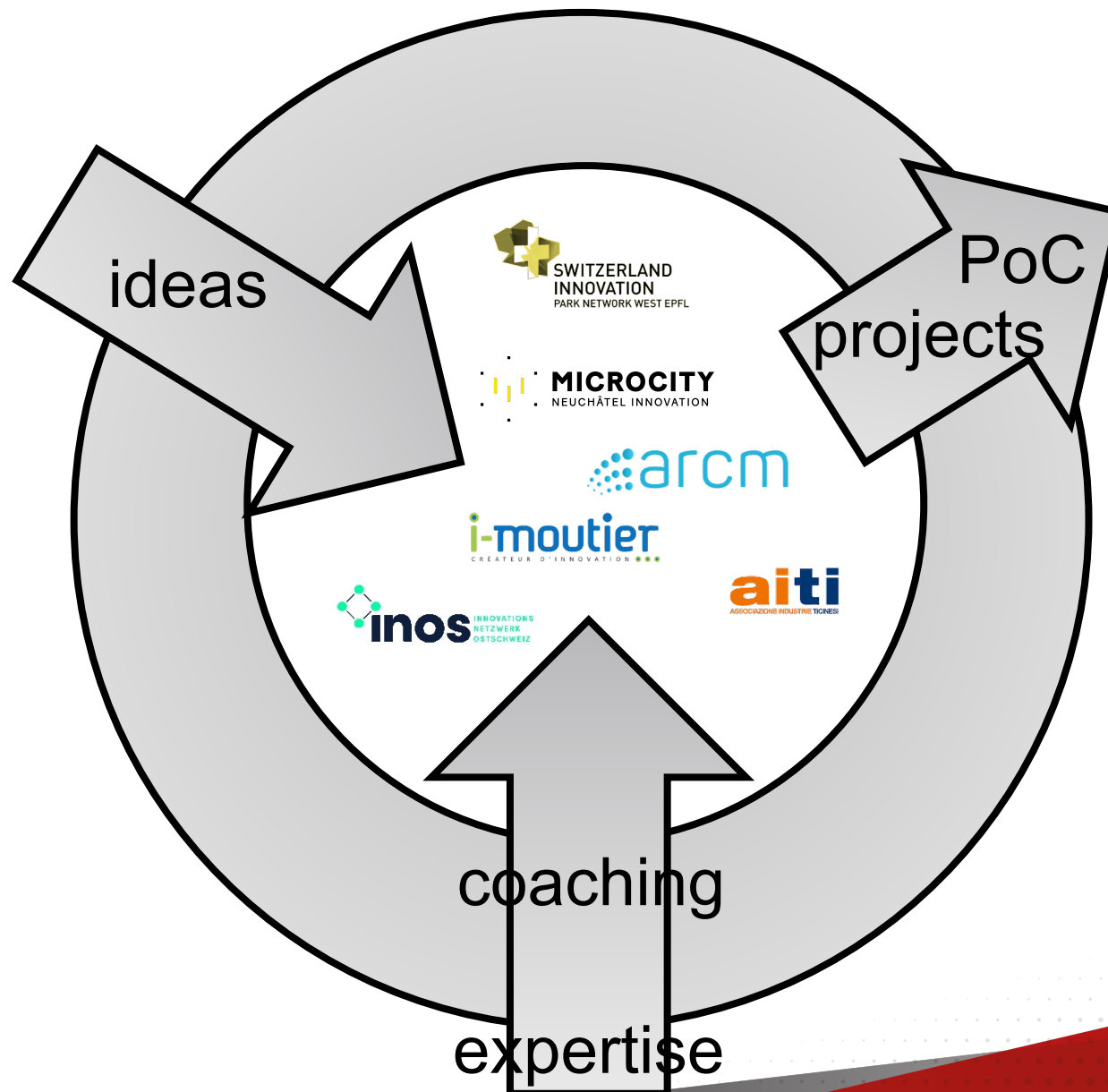
Members of our ecosystem?



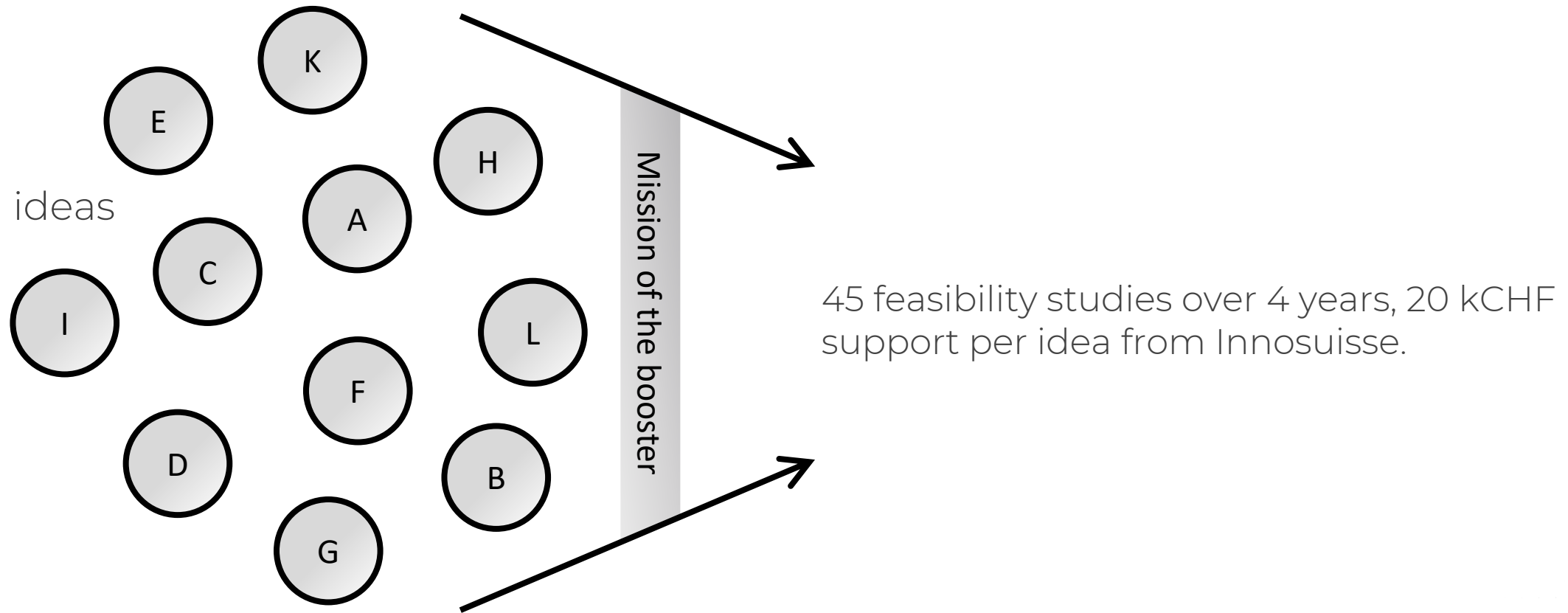
>230

Partners

> 20 ideas



Collaborative approach - how



Collaborative approach – what kind of ideas ?

Idea owners: companies, academic institutes or R&D partners, associations, researchers, ...

Examples of microtech ideas: medtech, robotics, materials, electronics,...

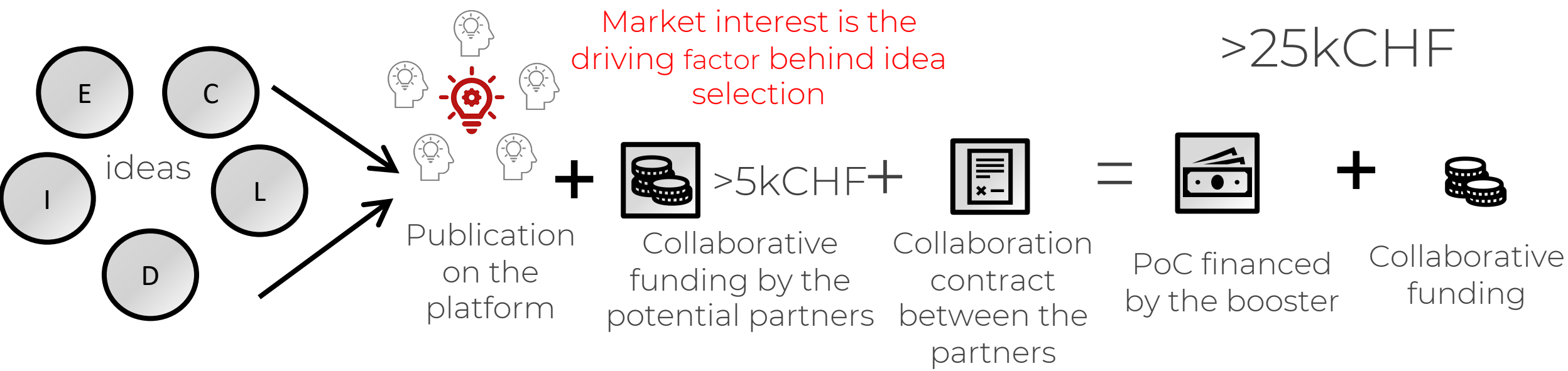


Collaborative ideas platform

Feasibility study: SMART objectives

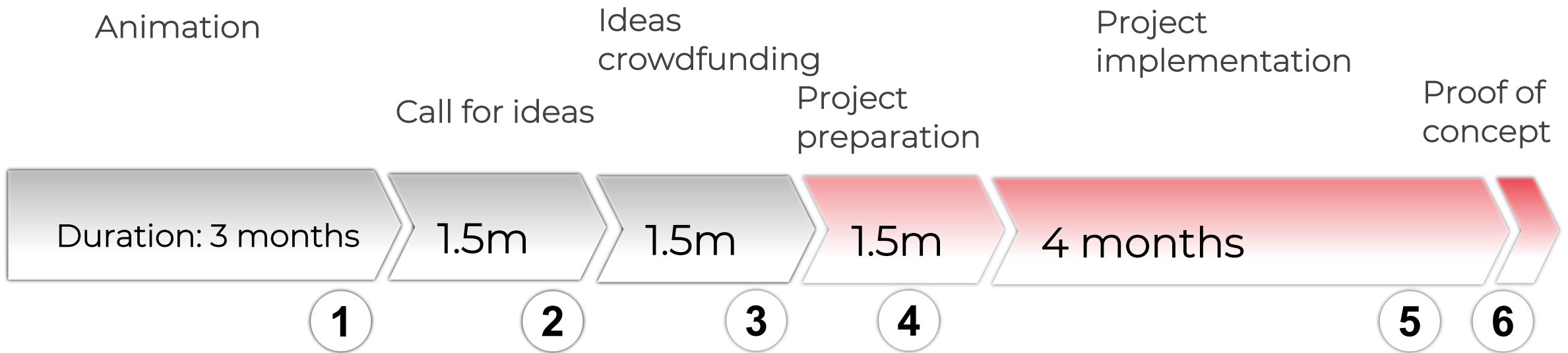
- Specific to the collaboration (formulation)
- Concrete
- Available resources
- PoC in 6 months and measurable
- Sustainable
- Any other ideas? Collaboration?

Collaborative approach – crowdfunding



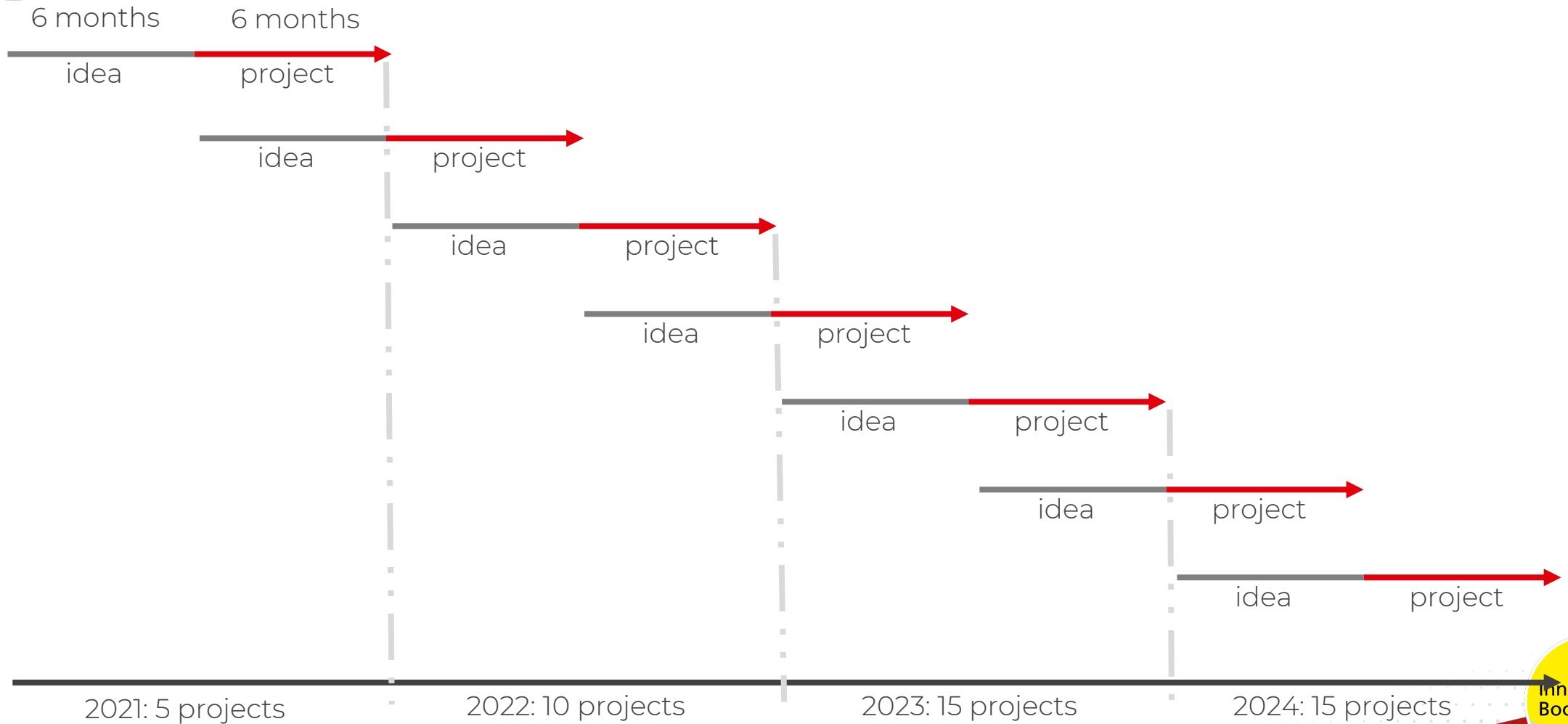


2021-2024: the process in the 7 loops





2021-2024: 7 loops to finance 45 projects



The first loop is running, 5 ideas have been financed

Running



Robot programming by demonstration: draw your task!

by S. Rochat (Haute Ecole...)

Program your robot by drawing the trajectory directly in the workspace. Visualize the result with augmented reality and edit it accordingly.

8

\$ 13500 / 5000 CHF

See

Team

Manager

Sarah Rochat (Professeur at Haute Ecole spécialisée bernoise (BFH))

Team

Grégoire VEBER (Regional NPI and Technology Lead at Jabil) - 1500 CHF
 Fabrice DROZ (Project manager at Tornos) - 1000 CHF
 yvan CHKOUROPADSKY (project leader at Manufactures Cartier Horlogerie, Branch of Richemont International SA) - 2500 CHF
 Arnaud MAÎTRE (CEO at Louis Bélet SA) - 1500 CHF
 Eric SCHNYDER (CEO at Sylvac sA) - 1500 CHF
 Samuel HILGER (COO at Bien-Air Dental SA) - 1500 CHF
 Pierre ROTTET (FANUC Switzerland GmbH at Claudia Scheidegger) - 1500 CHF
 Cyril AMEZ (FANUC Switzerland GmbH at FANUC Switzerland GmbH) - 0 CHF
 Pascal SUTER - 0 CHF
 Johan TELLENBACH (Technicien en automatisation at Sylvac sA) - 0 CHF
 Anthony SCHWAB (CEO at ECONORM AG) - 2500 CHF



Micro-tech environmental impact

by G. delamarliere ()

Establish and validate the basis of a future environmental impact database for the micro-technology and watchmaking industries.

5

\$ 10500 / 5000 CHF

See

Team

Manager

gaylord delamarliere

Team

Bertrand DOLCI (Head of Watch Development and Innovation at La Fabrique du Temps - Louis Vuitton SA) - 2500 CHF
 Julien STERVINO (Head of Sustainable Innovation Lab for Watches & Jewellery at kering sa) - 2500 CHF
 Viennet YOHANN (CEO at Azurea Technologie Horlogerie SA) - 2000 CHF
 Christophe JOUFFRAY (Directeur Démarche de progrès at Manufactures Cartier Horlogerie, Branch of Richemont International SA) - 2500 CHF
 Raphael BROYE (Owner at Panatere) - 1000 CHF
 Liselotte THURING (Project Manager at Panatere) - 0 CHF

Running



High speed femtosecond laser engraving

by B. Boetsch (CPAutomation SA)

Improving speed of femtosecond laser engraving process while keeping high quality results would open markets to this state-of-the-art technology.

4

\$ 8000 / 5000 CHF

See

Team

Manager

Bérangère Boetsch (Application and Innovation Manager at CPAutomation SA)

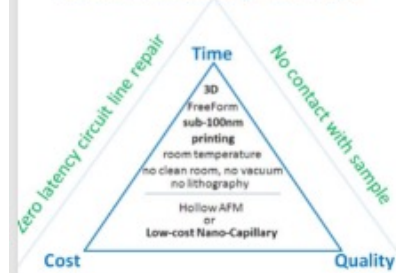
Team

Marc TOSETTI (Head of Production Support & Maintenance at Straumann Villeret SA) - 2000 CHF
 Marcel DUBEY (CEO at CPAutomation SA) - 2500 CHF
 Theurillat YVES (Technique, R&D at Swissmec SA) - 1000 CHF
 David WEBER (Sales Engineer at TRUMPF Schweiz AG) - 2500 CHF
 Laurent HAELLER (Project Manager at Straumann Villeret SA) - 0 CHF
 Beat NEUENSCHWANDER (Head of Institute ALPS at Haute Ecole spécialisée bernoise (BFH)) - 0 CHF

The second loop is on its way with about 15 ideas in competition!

Looking for financing

Additive Manufacturing Iron Triangle



Holy grail for semicon industry, AME and beyond

Down to sub 100nm 3d printing by electrodeposition without any contact to sample

by P. Bradley ()

Scanning over a surface without any contact magically building sub100nm solid metal voxels from a liquid at RT: no clean room, no vacuum, no litho!

👤 0

\$ 0 / 5000 CHF

See

Looking for financing



Use augmented and virtual reality to reduce machine downtime on production lines

by J. Rollier (KAÏNOO Sàrl)

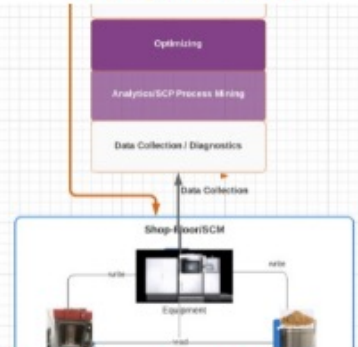
We offer you to study the current AR and VR solutions to support production companies in remote maintenance and remote troubleshooting.

👤 2

\$ 5000 / 5000 CHF

See

Looking for financing



Smart manufacturing and smart productivity diagnostics tool

by H. Hörömpöly (Gravity Pull...)

Smart Productivity Diagnostics Tool for manufacturing companies for continuous process improvement.

👤 0

\$ 0 / 5000 CHF

See

Looking for financing



Microled watch

by G. Stimamiglio (MicroLED watch)

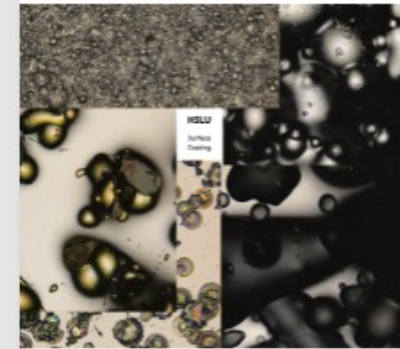
Inventive product for illumination of hands and indexes in wristwatches using ultra-thin film microLEDs

👤 1

\$ 1000 / 5000 CHF

See

Looking for financing



Micro surface coating

by J. Lanter (HSLU)

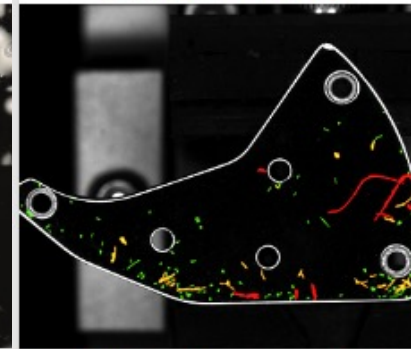
We at HSLU enable KMUs with a new setup and process for coating surfaces on sensors, cutting tools and also enable bonding of different materials.

👤 3

\$ 7000 / 5000 CHF

See

Looking for financing



Symbiotic cleaning and quality control in microengineering production

by Y. Lopez de Meneses (Haute Ecole...)

Fully automated solution for cleaning and quality control of microengineering parts for a closed loop production line

👤 0

\$ 0 / 5000 CHF

See

Opportunities after the feasibility study?

- Innosuisse Project
- Abandonment
- Collaborative project, alone or with a key partner :





Contacts - Questions

We're here to support and encourage you!

Share the news! Be sure to let others know about the Innovation Booster – Microtech!

Contact:

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076 392 92 87

www.microtechbooster.sv



<https://www.innosuisse.ch/ntninnovationbooster>

