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Introduction NTN Inno-Booster Photonics

- Werner Krüsi
- Jörg Güttinger
- Selina Casutt





Goals

Create open innovation culture

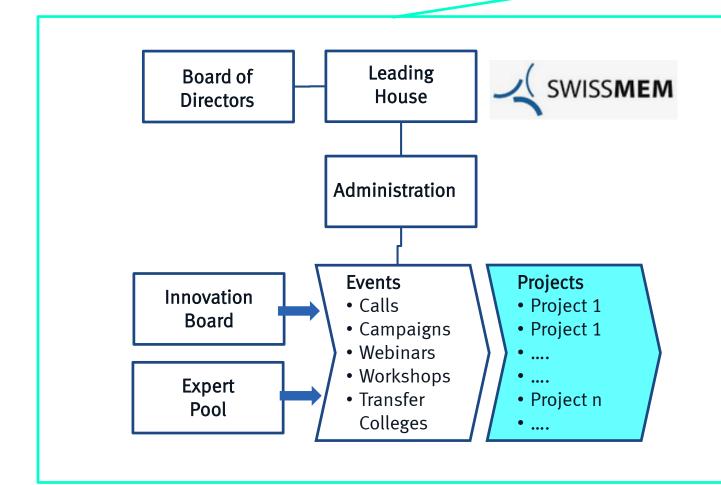
PHOTONICS NTN INNOVATION BOOSTER

- Discuss **future business** areas
- Adress customer needs from start
- Work in interdisciplinary teams
- Develop verifiable innovation ideas
- Promote radical ideas with funding





Events



PHOTONICS NTN INNOVATION BOOSTER







Jörg Güttinger

Werner Krüsi



Larissa Makowski



Nicolas Degen



Robert Rudolph





BOOSTER PROCESS



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Virtual Ideation-





On site Ideation-Workshops

Physically Present Events

More →

Web-based Ideation

Explore our active Channels and running Campaigns.
Contribute your ideas and suggestions. Become part of the virtual Ideation process.

More -

Direct Ideation-Applications

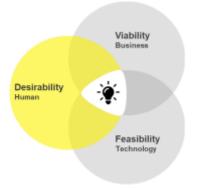
individual, bottom-up

More ightarrow



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INSPIRATION













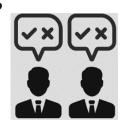
Find Challenges

Build Innovation-Teams



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- •Unmet need?
- •Promising multi-solution approach?
- •Team with adequate skillset profile?
- •Level of innovation?



Evaluation of Mission Statements

> Grant between CHF 10,000 - 25,000



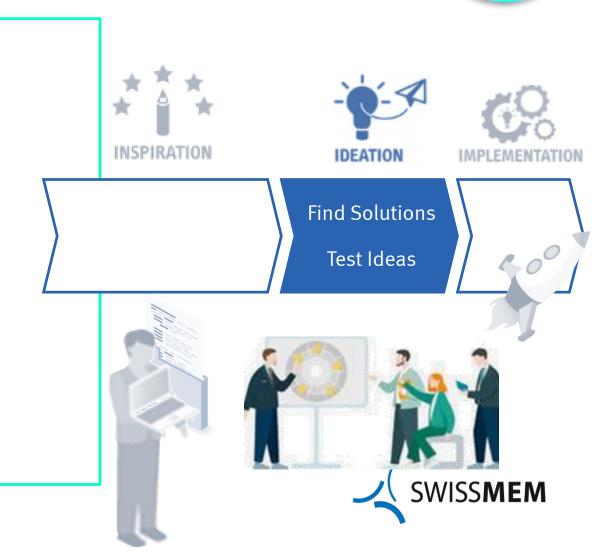


IDEATION

Derive hypotheses

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- Test hypotheses & Idea(s)
- Statement on potential value to pursue the idea(s) as full development Project

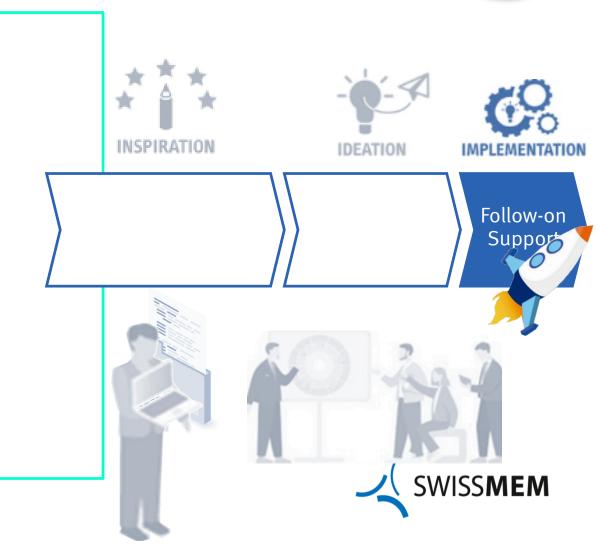




IMPLEMENTATION

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- Idea-test review & controlling
- Lessons learned
- Support for initiation follow-up project



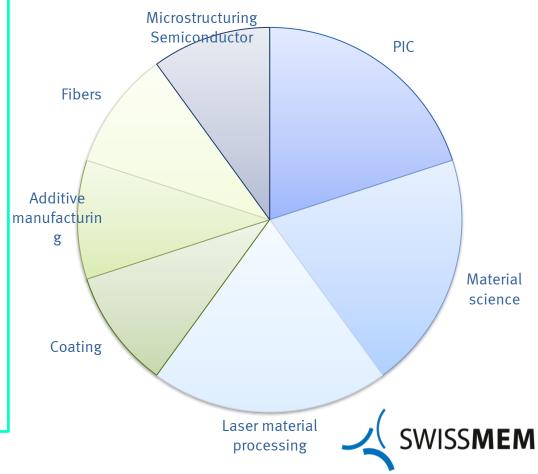
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STATUS PROJECT OVERVIEW

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- ~10 project applications in progress
- Completed: 1 project completed
 -> will be followed by an Innosuisse project and 2 projects
 close to completion
- Target: 12 projects completed / year

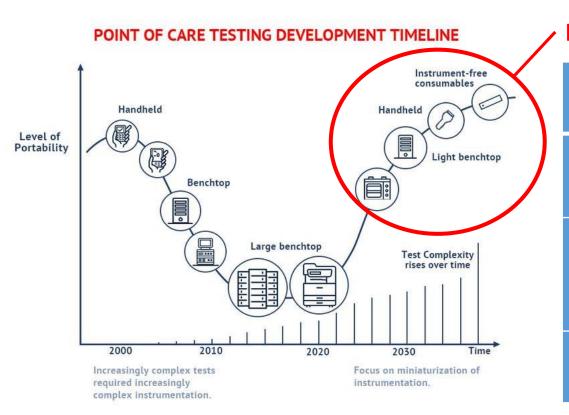
TOPICAL FIELDS





IB Photonics Workshop-Serie on PIC-Integration:

WS #1 – 6 December 2021: Integrated Photonics: Key element for future Point of Care applications



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Potential topics to be discussed

Emitters for POCT in clinical diagnostics enabled by low-cost integrated photonics solution architectures.

Miniaturization of imaging solutions maintaining high sensitivity and spatial resolution @ low system cost

Mixed photonics readout-modalities in clinical diagnostics to achieve low-cost, compact solutions for high degrees of biological multiplexed analytics

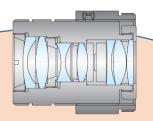
New classes of disposable devices using "green" materials for sustainable, biodegradable and low-cost production.



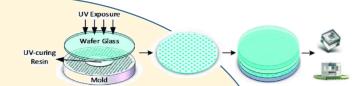
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Workshop announcement: «Microassembly of photonics-components and -modules»

Conventional optics assembly



Microtechnology



- manual assembly
- further miniaturization, low costs, high volumes

- Highly scalable waferlevel based processes
- High level of automatisation

Workshop on December 16th,

Watchmaking industry



- Expertise for small and precise mounting
- Trends regarding automatisation?

High potential for innovation:

- Need: scalable assembly processes in photonics
- Potential approaches: ??



PHOTONICS NTN INNOVATION BOOSTER

Communication and Promotion

Website www.ntnphotonics.ch

Newsletter

Profile on Google Business

Profile Video

NTN IB Photonics Portrait - YouTube







Social Media – Twitter, LinkedIn















INNOVATION BOOSTER

Events

Network



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From concept and design to prototype & testing

www.ntnphotonics.ch



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