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STREAM

Work Package 6: Valorization



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ECONOMICS AND BUSINESS

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Work Package name

- ▶ Valorization

Work Package goal

- ▶ Work Package 6 aims at identifying, evaluating, and exploiting commercially attractive applications to STREAM technologies.

Work Package team

- ▶ Peter Keinz (Work Package leader)
- ▶ ESR 16: Shtefi Mladenovska replacing Evgeniia Filippova
- ▶ ESR 17: Barbara Mehner



Why a Work Package on valorization?



Relevant stakeholders expect us to think about KTT.

Formal “requirement”

- ▶ The EC regards KTT as an integral part of ITNs

CERN’s mandate to do KTT

- ▶ *“Knowledge transfer is an inherent component of CERN’s mission and culture: it fuels scientific collaboration and great technological endeavors alike; it drives innovation, motivates future generations of scientists, and makes the general public aware of the impact of basic science on their lives.”*

Deliverables and Milestones

Work Package 6 comprises two formal deliverables.

Innovation management and entrepreneurship training (D6.1)

June 2017

Valorization projects (MS10)
October 2017 to June 2018

Project end

t48

STREAM Tec2App roadmap (D6.2)

Report on valorization potential and market entry strategies

December 2018

Project start to (today)

PARTICLE DETECTOR

BUMP BONDS

ELECTRONICS

THERMAL INTERFACE

SILICON COOLING MICROCHANNELS

AS THE COLD FLUID CIRCULATES IN THE MICROCHANNELS, IT TAKES AWAY THE HEAT FROM THE HOT ELECTRONICS AND

THE FLUID ENTERS COLD IN THE MICROCHANNELS

Project end

t48

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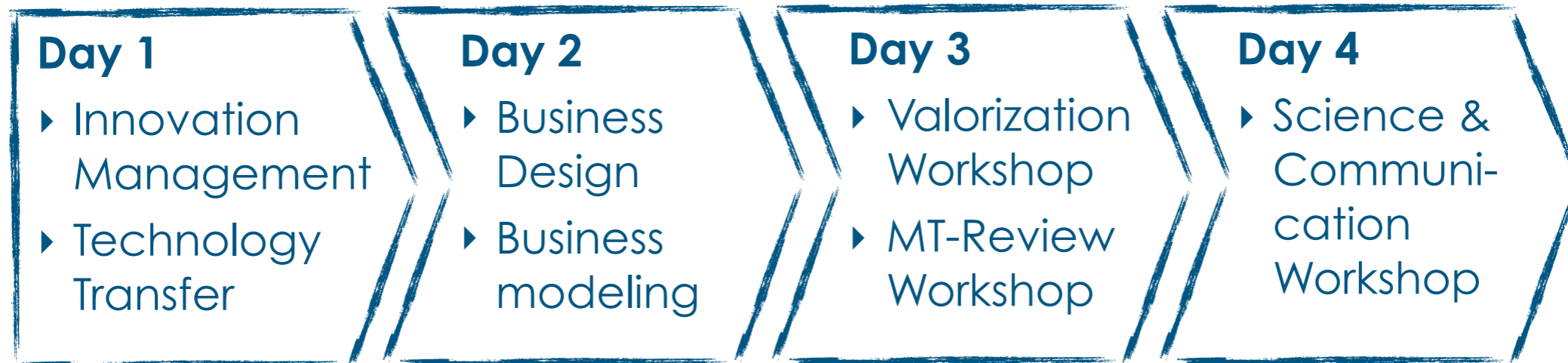
December 2018

Overview - STREAM Summer School

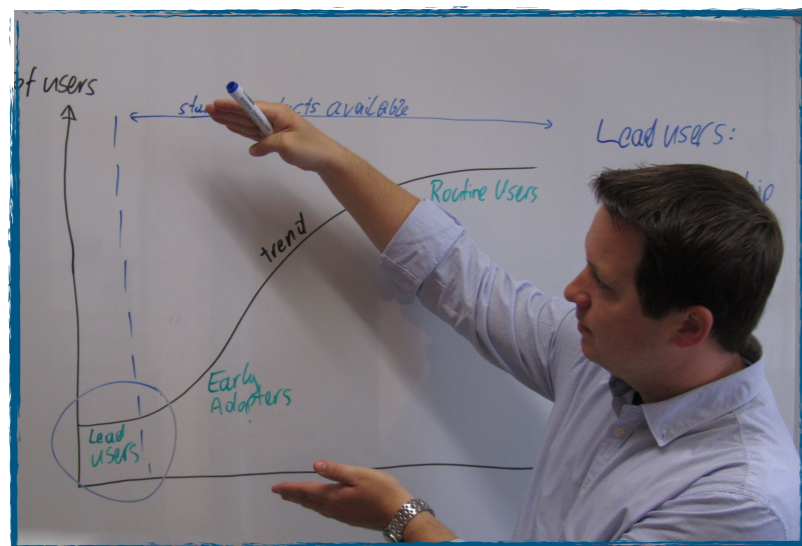


The training consisted of a four-days workshop including theory input and case studies.

Structure



Didactical concept

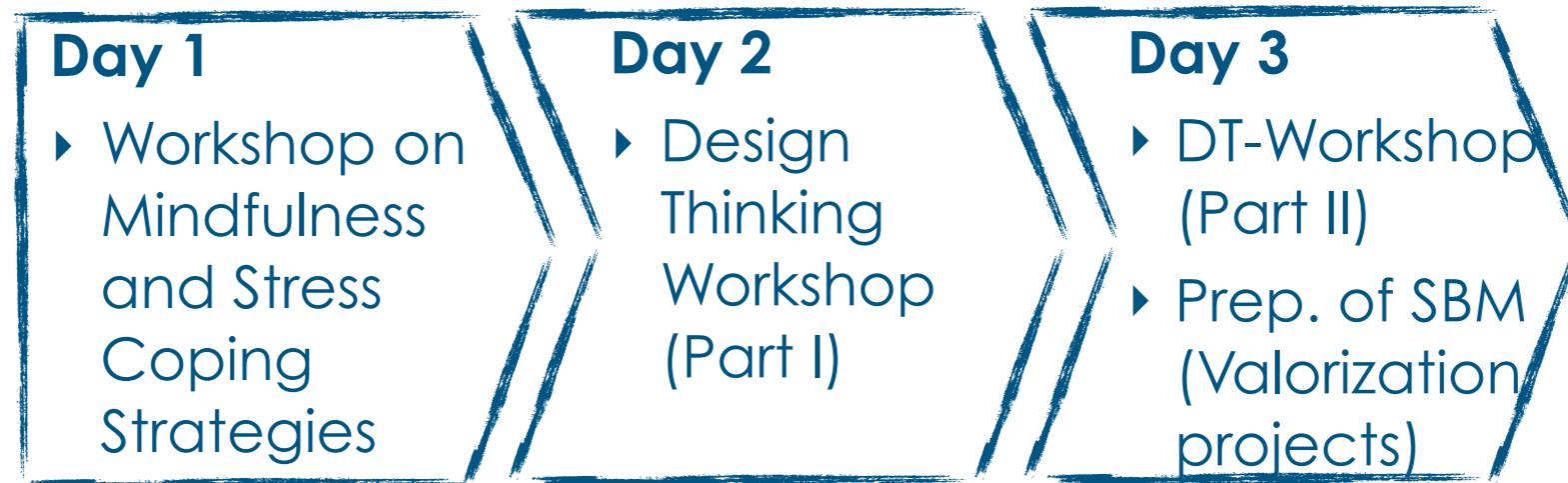


Overview - STREAM Winter School

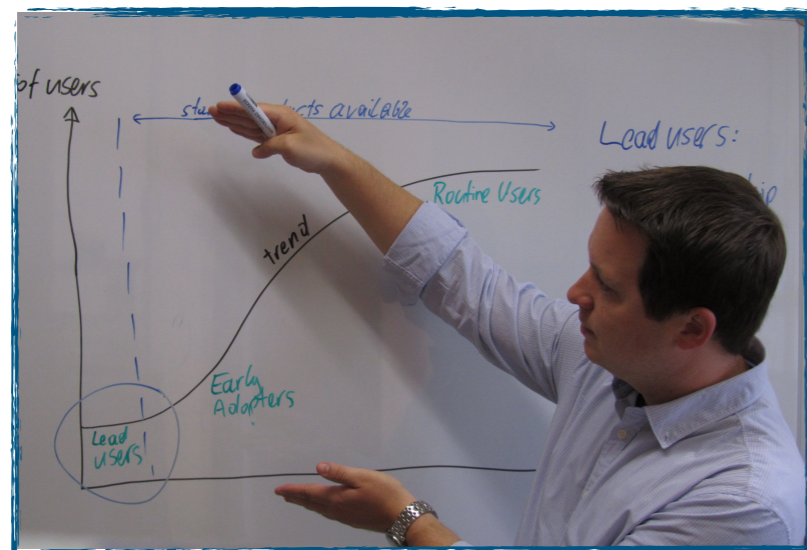


The training consisted of a three-days workshop including theory input and case studies.

Structure



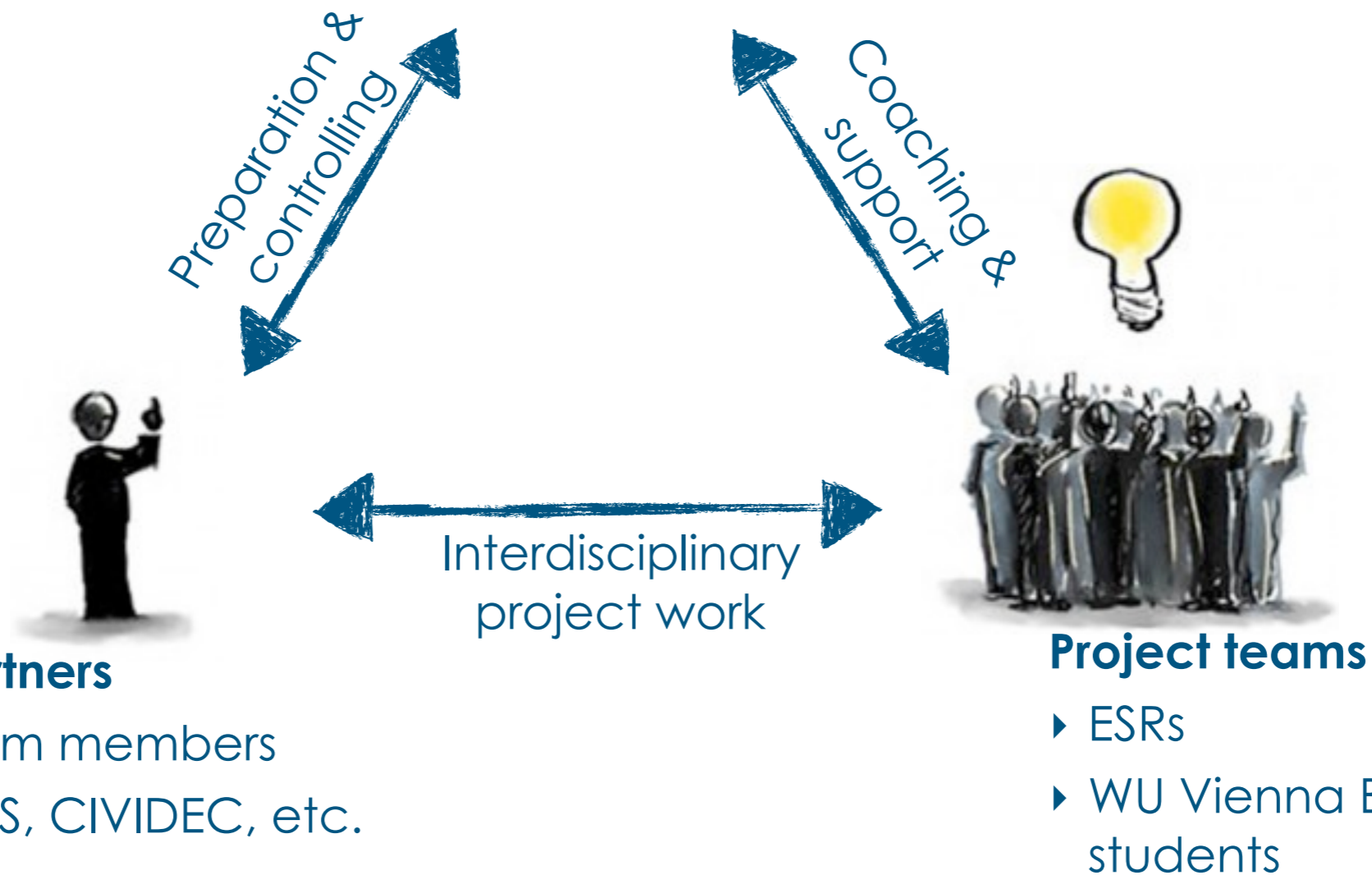
Didactical concept



The ESRs have participated in real-life KTT projects hosted at WU Vienna and conducted by and together with business students.

Coaches

- ▶ WU Vienna lecturers
- ▶ Business consultants



Valorization projects - content

The course was structured along the „entrepreneurial process“.



Core method: Technological Competence Leveraging



Technological Competence Leveraging is a proactive KTT approach utilizing the knowledge and creativity of the „crowd“ of current and potential users.



- ▶ use experience
- ▶ no functional fixedness



- ▶ market intelligence
- ▶ no need for disclosure

And this is what hard work at WU looked like...



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Work in progress



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ESR 16 will start on March 1, 2019.

Shtefi Mladenovska:

- ▶ from Macedonia
- ▶ Master of Consumer Affairs, Specialization in Sustainable Consumption (Technical University Munich)
- ▶ Junior Business Developer for Germany and Austria, BTO Research, International Research Center on IT & Digital
- ▶ Co-founder of StartHub Africa, Kampala, Uganda
- ▶ Internships with Infineon Technologies, Cypress Semiconductor Corporation, Porsche, etc.

We'll organize a Hackathon for the STREAM final conference in September 2019.

Facts:

- ▶ Time and location:

3 days in the period from September 16 to 20, CERN
Idea Square

- ▶ Goal:

Development of product/service concepts based on
STREAM technologies and promising application
fields (as identified during the real-life KTT projects)

- ▶ Participants:

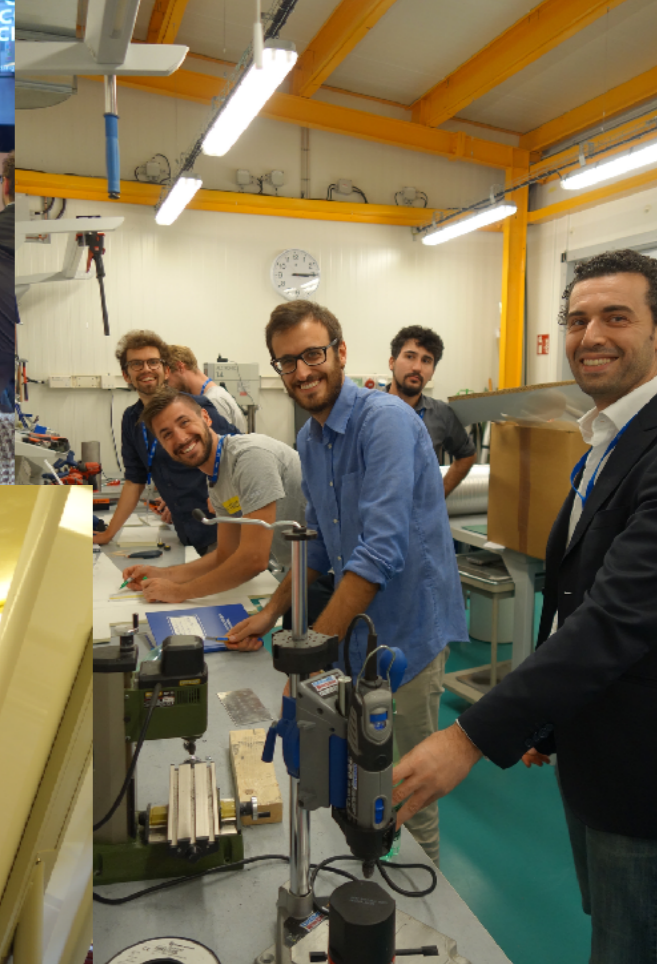
ESRs, business students, (potential) partners from
industry, and tech experts

There has already been organized a similar event at CERN in September 2019

CERN Idea Square | September 22-24, 2017
**SUPERCONDUCTOR
HACKATHON**



CONNECTING
TECHNOLOGY
& BUSINESS



Thank you!

**In case of any questions and/or ideas, please contact
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