

comparis.ch

Not Geri Baudinot

Thilo Stadelmann
Head of ZHAW Datalab
Member of the board of Data+Service

thilo.stadelmann@zhaw.ch 058 934 72 08 www.zhaw.ch/~stdm





Swiss Alliance for Data-Intensive Services



Three funding areas

Start-up and Entrepreneurship

Training modules, Coaching, Start-up Label

Projects

Joint projects companies - higher education institutions, innovation cheque, innovation voucher

KTT Support

National Thematic Networks Innovation mentors Platforms

KTT-Support KTT-Support

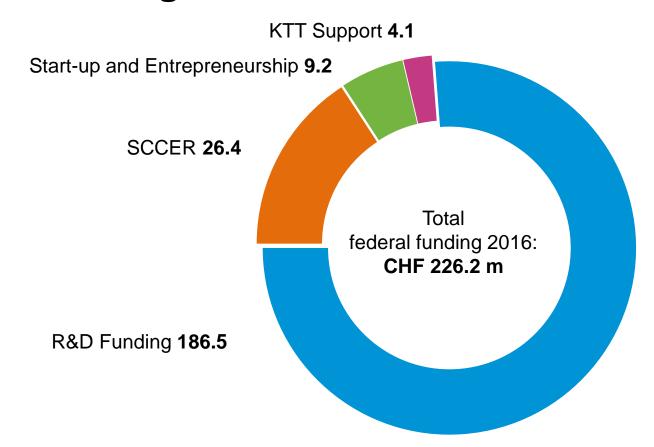
e.g.,

Swiss Alliance for Data-Intensive Services



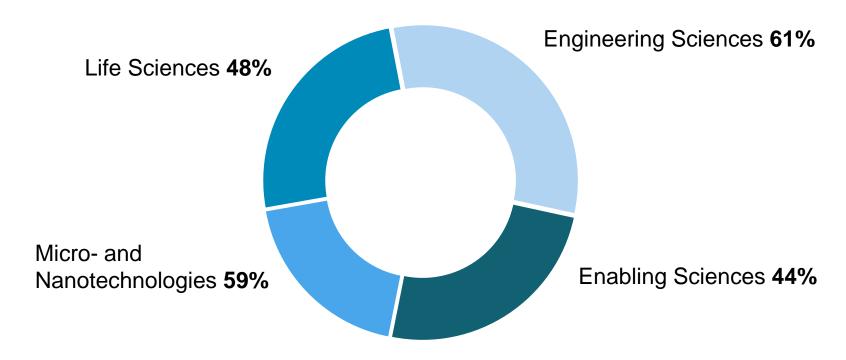


CTI funding areas





Applications approved by funding area



Total no of projects approved in 2016: 539



How CTI projects are run?

15% of the funded staff costs is added as overhead

Higher education

- Scientific know-how
- Infrastructure

Max. 50% funding (CTI funds)

Businesses

- Entrepreneurial know-how
- Market access, 10% cash contribution

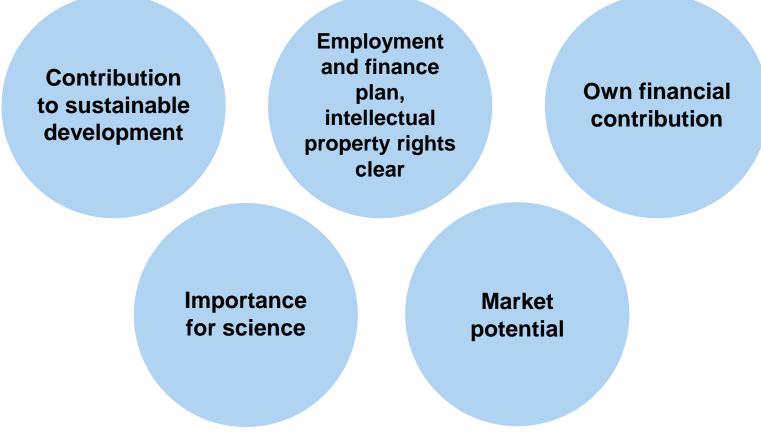
Min. 50% funding

R&D project

Market influence



What are the selection criteria?



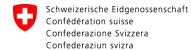
Example R&D project



History

- Q1/2014: First contact after a talk
- Until early fall: Several ideation workshops to evaluate pains & ideas
 - Audio segmentation
 - Social media analytics
 - Search
 - Print media segmentation
- Q1/2015: Successful grant acquisition
- Q3/2015-Q3/2017: Agile project management
- Q3/2016: Enhancement by Master students













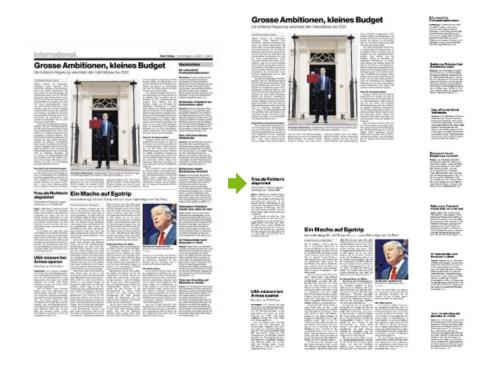


Zürcher Fachhochschule

The project: real time print media monitoring



- Automatic article segmentation
- Identification of article parts (title, sub-title, ...)

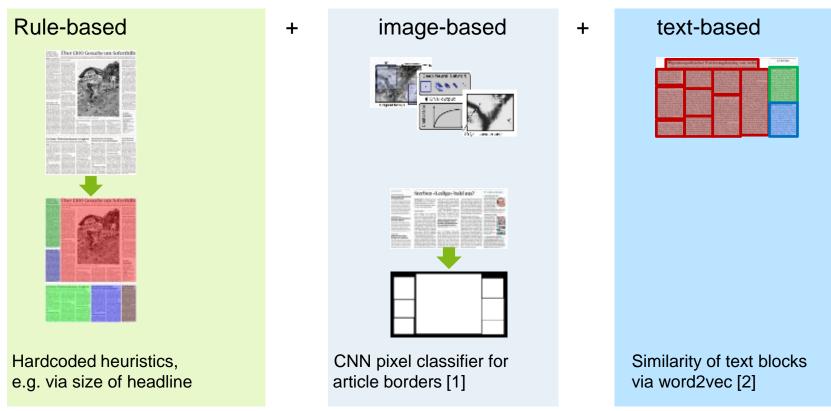


Zürcher Fachhochschule

12

A 3-fold approach





[1] D. C. Ciresan, A. Giusti, L. M. Gambardella, und J. Schmidhuber. Deep neural networks segment neuronal membranes in electron microscopy images. In NIPS, pages 2852–2860, 2012. [2] T. Mikolov, K. Chen, G. Corrado, und J. Dean. Efficient Estimation of Word Representations in Vector Space. In Proceedings of Workshop at ICLR, 2013.

Zürcher Fachhochschule



Thank you for listening!

Commission for Technology and Innovation CTI Innovation Promotion Agency Einsteinstrasse 2 CH-3003 Bern



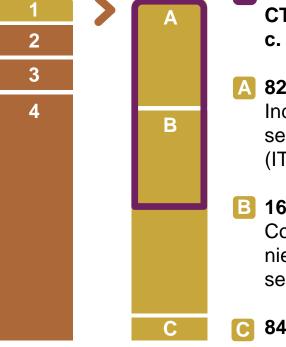
Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra

Swiss Confederation



Focussing on less

- 1 25,264 Innovation-intensive businesses
- 29,042 businesses with little innovation in innovation-intensive sectors
- 31,815 sectors with little innovation
- **235,551** small businesses with < 5 employees with little innovation



- Potential clients CTI KTT Support: c. 15,000 SMEs (5%)
- A 8291
 Industrial SMEs,
 service providers,
 (IT, R&D etc)
- B 16,132
 Construction companies and other service providers
- **841** large companies



Innovation mentor's tasks

- 1. Contact implementation partners
 - 2. Understand need for innovation
 - 3. Find research partners
 - 4. Indicate funding possibilities
 - 5. Support project applications



A national network of innovation mentors





Frequently funded areas

Engineering Sciences

- Machine engineering
- Productions technologies
- Material technologies
- Mechanical and Thermal Engineering
- Electrical Engineering
- Civil Engineering
- Chemical Engineering
- Environment technologies

Enabling Sciences

- Information and communication technologies
- · Business leadership
- Spatial plannung, tourism, public administration
- Logistics, integrated production, e-business
- Architecture, design

Micro- and Nano- technologies

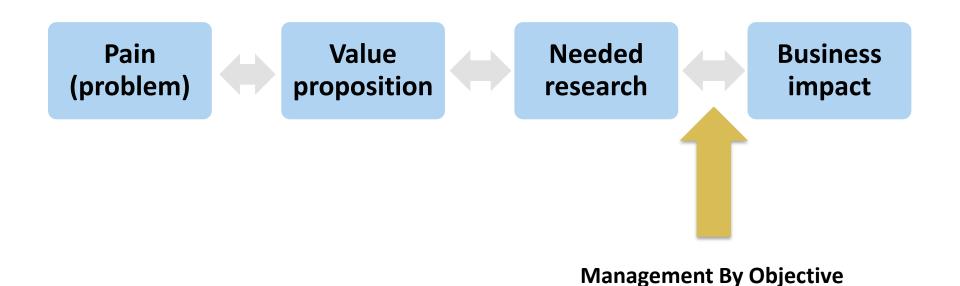
- Electronics,
 Optoelectronics,
 Sensor electronics
- Microsystem technology
- Nanotechnologies
- Miniature systems engineering
- Microelektronics
- Sensors and actuators

Life Sciences

- Medical technology
- Biotechnology, Biochemistry, Pharmacology



What is the project pattern?





CTI brings together businesses and higher education institutions

Science needs

- Market closeness
- Knowledge of market

SMEs need

- Resources for own research
- Contact with higher education
- Access to infrastructure

CTI supports joint research projects between companies and higher education institutions



Higher education institutions receive funding for applied research

Innovative products make companies more competitive



How to apply for CTI project funding?

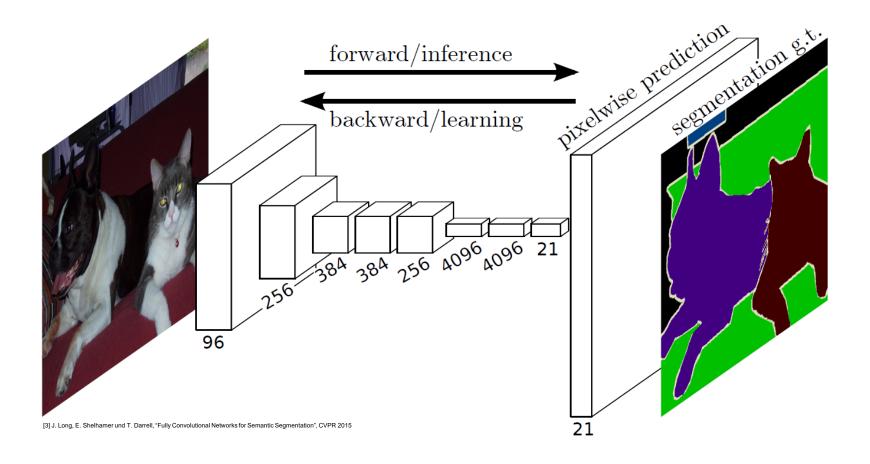
- 1. Come up with an idea
- 2. Find a research partner
- 3. Research partner writes application, company provides details of business goals, implementation concept, benefits (3–4 weeks)
- **4. Project assessed by CTI experts** (6–8 weeks)
- 5. Contracts, interim and final reports

All info on www.kti.admin.ch

Contacts: mirco.nano.technologies@kti.admin.ch, life.sciences@kti.admin.ch, enabling.sciences@kti.admin.ch, engineering@kti.admin.ch

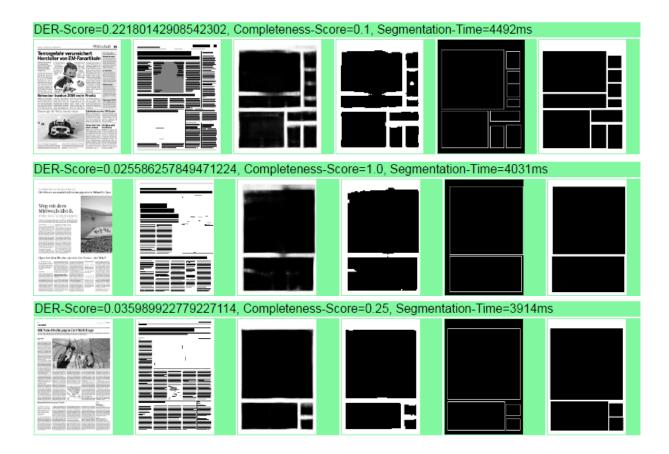
Extension: semantic segmentation





Preliminary results





Zürcher Fachhochschule