

ICT research in Switzerland the National Contact Point of View

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Outline

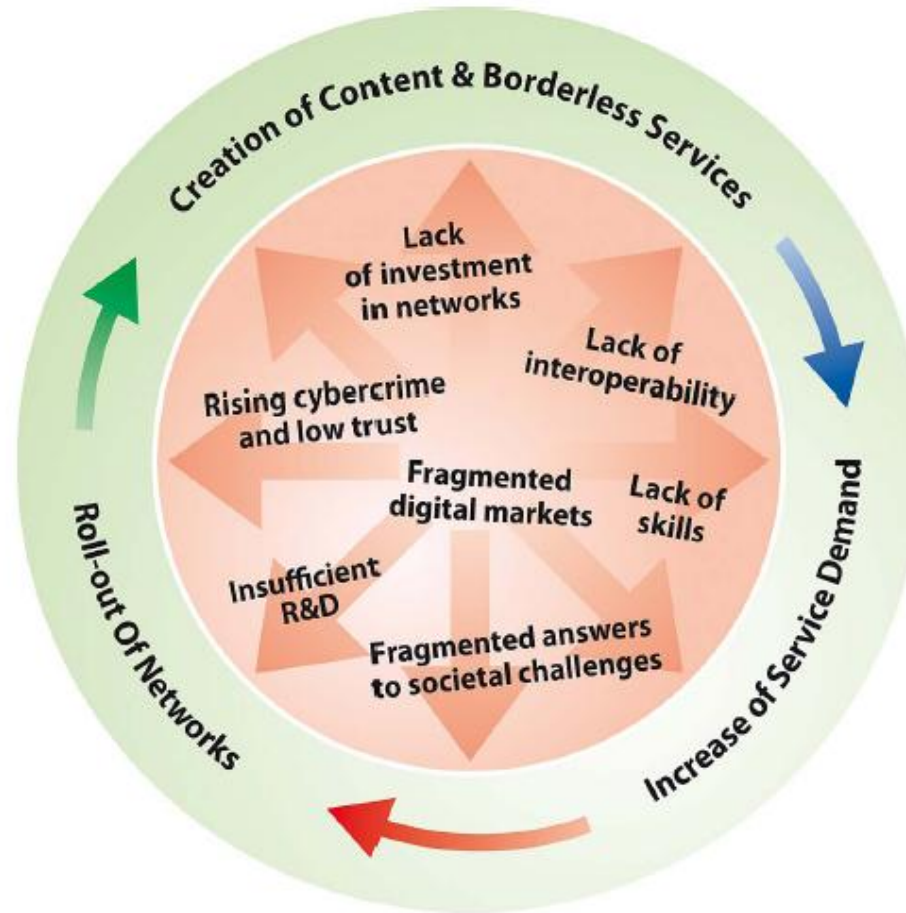
- Funding ICT research
- European Programmes in Switzerland
- The Swiss ICT NCP Support
- Tomorrow's challenges

Funding ICT Research

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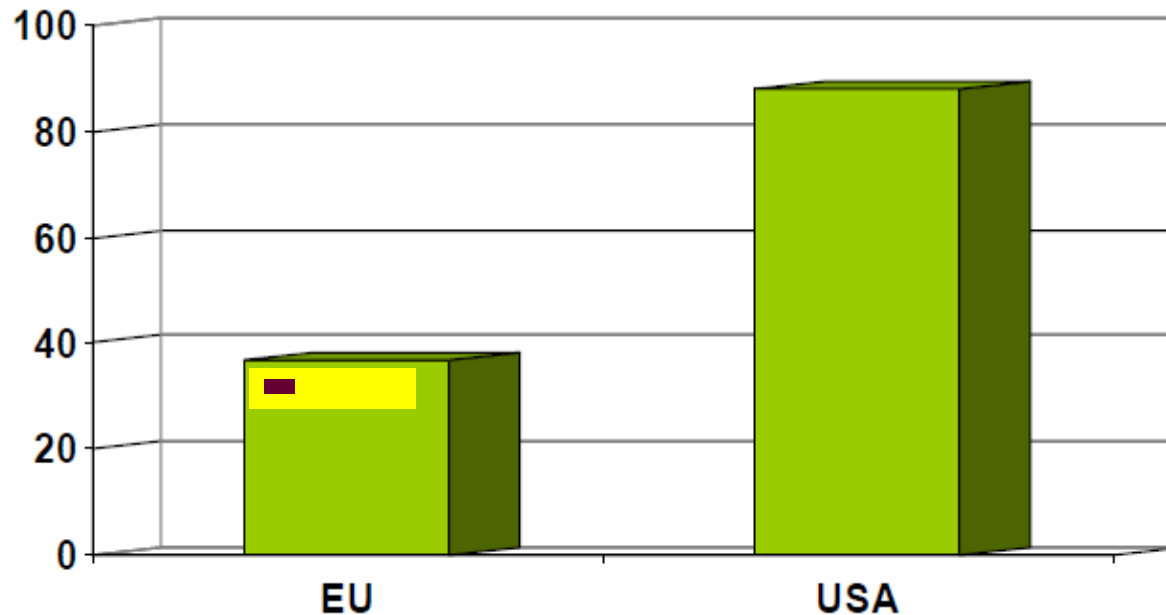
The Digital Economy



Source: Digital Agenda for Europe 2020

ICT R&D Spending

Total spending (data in b€, 2007)



2020 Target: doubling EU ICT R&D spending

Source: Digital Agenda for Europe 2020

European Programmes in Switzerland

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Switzerland in the ICT part of ERA

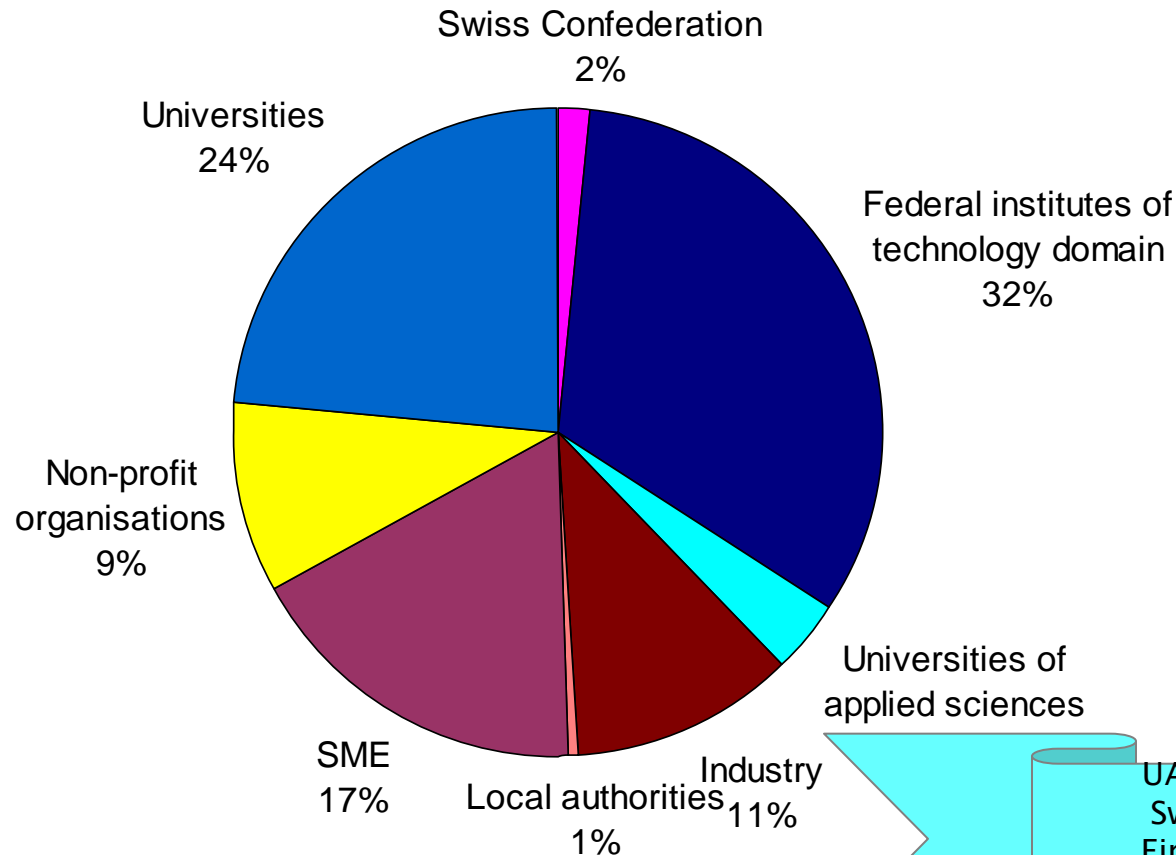
CH associated

- FP7 (fully from 1.1.2004)
- AAL (fully from 1.1.2011)
- Lifelong Learning programme (fully from 1.1.2011)

CH NOT associated to

- The ARTEMIS & ENIAC Joint Technology Initiatives
- ICT-PSP (in CIP), except for [Enterprise Europe Network](#)

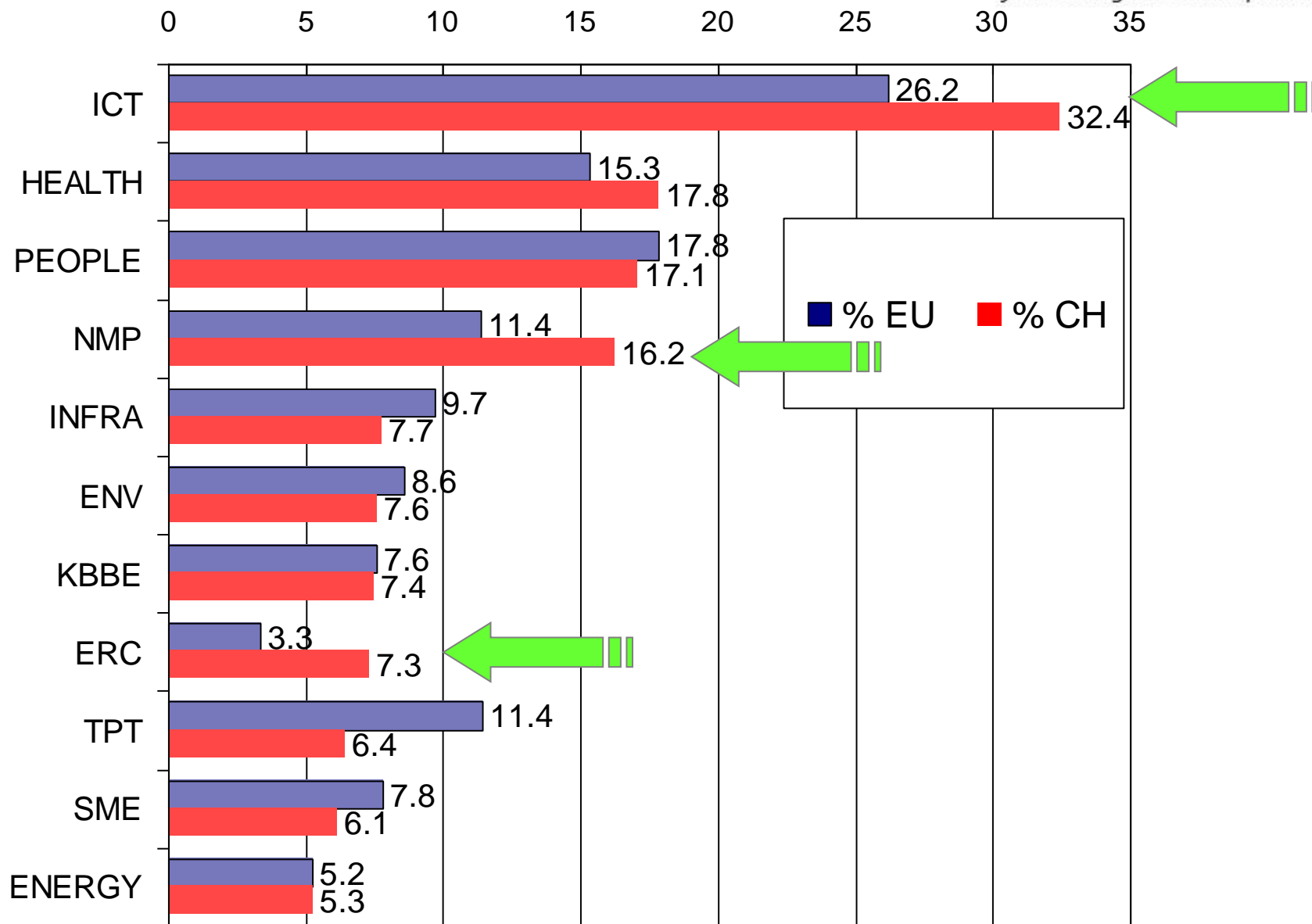
Swiss FP7 Participation by organisation type



Universities of applied sciences

UAS Western Switzerland
First Swiss IP coordinator in FP7
&
Hosted ACM-SAC 2010

Swiss-EU FP7 Contracts Participations



The Swiss ICT NCP Support

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The NCP Core Mission

From the idea to the project



1st Encounter
What is FP7?
How does it work?



Idea Check
Does my idea fit in with FP7? Where?



Preparation
Proposal Writing,
Partner Search
...
Submission



Evaluation
by Independent Experts



Contract Negotiation
Procedural and Legal Aspects



Project Management
Reporting,
Contract Changes etc.



Exploitation, Dissemination of Project Results,
Audits by the EC, etc



Supporting proposers



Ideal-ist



Ideal-IST Service: Your worldwide ICT PartnerSearch Network

- Worldwide (65 countries) ICT NCP network
- Supported > 2000 consortia to find partners
- Organizes international brokerage events
 - FET 2011, 4-6 May 2011
 - Proposers' Day, 19-20 May 2011
- Quality Check of your project idea

www.ideal-ist.net



Information Society
and Media

IDEAL-IST is funded by the European Commission



-  AARIT
-  CNR
-  CRCIM
-  CWI
-  DANAIM
-  FhG
-  FNR
-  FNRS/FWO
-  FORTH
-  INRIA
-  IUA
-  NTNU
-  PLERCIM
-  SARIT
-  SICS
-  SpaRCIM
-  STFC
-  SZTAKI
-  VTT

- *Alain Bensoussan Fellowship Programme (EC Co-Fund)*
- *Working Groups*
- *Cor Baayen Award*
- *ERCIM News*

ERCIM is the
European host of W3C



www.ercim.eu

Tomorrow's challenges

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The ERA ICT Fragmentation



*part of the CIP programme



Example 1 - CHIST-ERA

ERA-Net Challenges in Information and Communication Sciences and Technologies – 1st open call

Quantum Information Foundations and Technologies

(FR, GB, IT, ES, DE, AT, PL, CH, BE) – Swiss Budget 800 k€

- Address 1/more topics:
- Quantum information theory
 - Scalability of quantum processing systems
 - Long distance quantum communication
 - Entanglement-enabled quantum technologies

Beyond Autonomic Systems – the Challenge of Consciousness

(FR, GB, ES, AT, PL, CH) – Swiss Budget 200 k€

- Build a system that
- is aware of its past and present actions
 - has perception of its internal states
 - can plan future actions
 - ...

Deadline for applications: 5th November 2010 <http://www.chistera.eu>

**Driven by unifying goal • Multidisciplinary • Long-term
Foundational • Collaborative
research initiatives
Targeting a visionary S&T breakthrough**

- Able to **generate waves of technological innovation**, with significant impacts on economy and society
- Due to size and level of ambition, **possible only via federated effort** of the European Framework and National research programmes
- Flagships may become a new instrument for shaping ERA (FP8)

Criteria*:
Ambition, Impact, Integration, Plausibility

* *Based on recommendations of the ISTAG report, and currently under refinement by the National ICT Directors*

The ERA ICT Fragmentation



Summary

- ICT R&D funding is scarce...
...a doubling is necessary for FP8
- NCP offer added-value services, e.g.
Networking, partnersearching, project-idea checking, proposal preparation support
- European Research Area gets fragmented
- European Computer Science scene get fragmented too...



Information Society
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Conclusion

- The European Digital Agenda is challenging



Graphics from icoblog.wordpress.com

Further information sources

- Europe 2020

http://ec.europa.eu/eu2020/index_en.htm

- Euraccess, Researchers in Motion

<http://ec.europa.eu/euraxess/>

- Digital Agenda 2020

http://ec.europa.eu/information_society/digital-agenda/index_en.htm

- ICT Research on Europa – background

http://ec.europa.eu/information_society/nav/nav_res/index_en.htm

- ICT Research on CORDIS - foreground

<http://cordis.europa.eu/fp7/ict/>

- ICT Evaluators Database Registration

<https://cordis.europa.eu/emmfp7/index.cfm>

- ICT NCP Network & Partnersearch service:

www.ideal-ist.net