Programme

Morning Session

10:30 – 10:45  WELCOME MESSAGE
Lion GUZZELLA Rector of the ETH Zurich

10:45 – 11:00  AT THE TOP OF OUR RESEARCH, INNOVATION & DEVELOPMENT AGENDA
Daniel WYLER Vice President for Medicine and Science of the University of Zurich

11:00 – 12:30  EUROPEAN ROUNDABOUT: LEVERAGING COLLECTIVE INTELLIGENCE FOR
UNPRECEDENTED CHALLENGES
Theodore PAPAZOGLOU European Research Council Executive Agency
Head of Unit “Support to the ERC Scientific Council”
Urs BALTENSPERGER National Research Council Switzerland, President of
the Committee International Co-operation
Philipp LANGER Head EU Framework Programmes Unit SERI

Stephan KUSTER Head of Policy Affairs of Science Europe, Brussels (Moderator)
EUROPEAN ROUNDAABOUT: LEVERAGING COLLECTIVE INTELLIGENCE FOR UNPRECEDENTED CHALLENGES
Panel discussion on the importance of global, proactive, decentralised and democratised scientific research in Switzerland
EUROPEAN ROUNDABOUT
Panelists

Theodore Papazoglou (European Research Council)
Urs Baltensperger (National Research Council)
Philipp Langer (SERI)
Stephan Kuster (Moderator, Science Europe)
The Importance of global, proactive, decentralised and democritised research in Switzerland

Urs Baltensperger
Or:
Why is it important for Switzerland to participate in the Champions League (ERC)?

Urs Baltensperger
ERC Success rate per country
«The best science comes from international collaboration»

**United States**
The country is less internationally collaborative than those in Western Europe.

**United Kingdom**
International collaboration has almost doubled in the past decade.

**Switzerland**
Multinational programmes have led to above-average growth and citations.

*Red curve: domestic % of total papers*
Successful ERC projects and nationality: Switzerland and international comparison

- Nationals in host country
- Non-nationals in host country
- Nationals away from country
With the referendum against mass immigration the role of the SNSF became more difficult.

**Article 1  Objectives**

1. The SNSF promotes scientific research in Switzerland.

2. It promotes the **international competitiveness** and integration of this research as well as its capacity to solve problems.

3. It pays particular attention to the promotion of **young researchers**.
Schedule of the Temporary Backup Schemes, Example for Starting Grants:

Referendum against Mass Immigration: 9 February 2014
⇒ Inception of the Temporary Backup Schemes
Opening of the call: 15 March 2014
(all material available online)
Call deadline: 25 March 2014
Panel meetings 1st stage: June 2014
Information to applicants: Beginning of July 2014
Panel meetings 2nd stage (with interviews): Sep-Oct 2014
Review CTBS: 29 October 2014
Approval Presiding Board: 4 November 2014
Finds international attention...

Swiss Government to Offset ERC Funding Block
13 March 2014 2:30 pm | 0 Comments

Researchers in Switzerland breathed a sigh of relief this week after their government stepped in to replace lost funding opportunities from the European Union. This will ease the effects of a referendum held in Switzerland on 9 February, in which voters agreed to curb mass immigration. The vote indirectly led Switzerland to lose its privileged status as an associated country to Horizon 2020, the European research funding program, and to the higher education program Erasmus+, which both run from 2014 to 2020.

As of 26 February and until further notice, Switzerland is no longer an associated country in Horizon 2020. This means that its institutions are barred from applying for coverage of a group with partners from E.U. member states. Institutions are barred from applying for coverage from the European Research Council (ERC), as well as for Marie Skłodowska-Curie candidates, who were very successful under the European Framework Programme, which ran from 2007 to 2013. All grantee in Switzerland in that period.

Switzerland to provide grants while European funding is on hold
11 Mar 2014 | 11:19 GMT | Posted by Quirin Schiermeier | Category: International Relations, Policy

The Swiss government is stepping in to support individual researchers currently excluded from receiving grants from the European Union.
Challenges

57 disciplines

22 institutions

As of 15 September 2015, Switzerland is again an Associated country for Pillar 1 (only until end of 2016)
Cross-thematic R&I Funding in CH

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<tr>
<td>SNSF</td>
<td>CTI</td>
<td>EUREKA</td>
<td>Int. Org. (CERN, ESO...)</td>
<td>Int. Org. (ESA)</td>
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<tr>
<td>COST</td>
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<td>EUREKA</td>
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<td>Bilat. Programmes</td>
<td>EU Framework Programmes</td>
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Bilateral Promotion Programmes

European Countries
- **Western Europe**: e.g. D-A-CH
- **Central and Eastern Europe**: Sciex, SCOPES, Bilateral Progr. (Poland, Lithuania, Hungary, Romania, Bulgaria), Institutes of Advanced Study (Bucarest and Sofia), Swiss Government Scholarships fellowships

Non-European Countries (Joint Research Projects JRP)
- China
- India
- Russia
- South Africa (incl. Côte d'Ivoire, Tanzania)
- Japan
- South Korea
- Brazil
CH in International Organisations

- **ESA**: European Space Agency
- **CERN**: European Organization for Nuclear Research
- **ESRF**: European Synchrotron Radiation Facility
- **ILL**: Institute Max von Laue - Paul Langevin
- **ITER / EURATOM**: European Atomic Energy Community
- **ESO**: European Southern Observatory
- **X-FEL**: European XFEL
- **ESS**: European Spallation Source
- **EMBO/EMBL**: European Mol. Biology Conference/Laborat.
- **HFSPO**: Human Frontier Science Program Organization
- **CIESM**: Commission intern. pour l'exploration scientifique de la mer Méditerranée
### Programme

**Afternoon Session**

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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| 14:00 – 15:00 | HORIZON 2020: PARTICIPATION AND FUNDING IN SWITZERLAND  
On the participation possibilities and the funding modalities of Swiss researchers in Horizon 2020 projects.  
Philipp **LANGER** Head EU Framework Programmes Unit SERI |
| 15:00 – 15:45 | INNOVATE! HOW TO LOBBY IN BRUSSELS NOW  
David **BOHMERT** Head of SwissCore Brussels |
| 15:45 – 16:00 | SHORT BREAK WITH REFRESHMENTS & FRESH AIR                                                         |
| 16:00 – 17:00 | PARALLEL BREAKOUT SESSIONS  
Open calls, new opportunities, Swiss challenges in the areas ERC, FET & HEALTH |
Horizon 2020: Participation and Funding in CH

Horizon 2020 & CH: Thinking Ahead
Philipp Langer
# Cross-thematic R&I Funding in CH

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State Secretariat for Education, Research and Innovation SERI – Philipp LANGER 2
Components of the Horizon 2020-package («FPs»): Non dissociable...

- **Horizon 2020** (FP; CH associated 2004-2013)

- **Euratom-Programme** (Euratom; agreement since 1978)

- **ITER Project** (ITER, agreement since 1978)
Budget of the Horizon 2020-package («FPs»)

Horizon 2020 (94%)

Euratom (3%)

ITER (3%)
Timeline Swiss Association to the Horizon 2020-package

FP7 (2007-2013)
Budget: 54 Mia €
CH: Assoziiert seit 1.1.2007 (rückwirkend)

Horizon 2020
(2014-2020)
Budget: 80 Mia €
CH: z.Zt. Drittstaat

Vorber. COM
Präsentation 30.11.2013
Horizon 2020
Diskussion und Adoption durch Rat und Parlament
Verabschied. 12.2013

Redaktion Botschaft

Behandlung Parlament

State Secretariat for Education, Research and Innovation SERI – Philipp LANGER
History 2014: CH and Horizon 2020 (I)

- February 2014: Negotiations blocked

- 26 February 2014: CH := «Third State»
  - MEDIA, Erasmus+, Horizon 2020

- March/April 2014: Decisions by Federal Council for **Transition Measures**
  (5 Scenarios, Principle)

- 30 April 2014: Communication Federal Council and EC regarding **Croatia**
10 July 2014: Meeting EC-CH in Geneva

24 July 2014: Paraphed Agreement for Partial Association

Content: 1st Pillar and Widening

Timing: Provisional Application of Agreement as of 15 September 2014
History 2014: CH and Horizon 2020 (III)

- 25 June 2014: Decision Federal Council on Transition Measures (Distribution of Money with 3 Scenarios)
- 12 September 2014: Decision Federal Council on Ordinance (Regulation)
- 1 October 2014: Entry into force
- 19 September 2014 / Winter Session: Money SERI > SNSF for Temporary Backup Schemes (ERC-like instrument)
What is Funded by SERI (Ordinance):

- Payments to Horizon 2020, Euratom, ITER
- Accompanying Measures (Information/Advice, Experts, Evaluation)
- Support for Project Submissions (CHF 8’000.-): SMEs and Coordinators
- Horizon 2020-Substitutions in Initiatives, Programmes and Projects: COST, Art 185/187 TFEU: AAL, Eurostars, IMI, ...
- Direct Project Funding of H2020 projects (as EC, including Coordination Costs)
Who is Funded by SERI (Ordinance):

- **Institutions**: Universities, Universities of Applied Sciences, Academic Institutions, Non-Academic Non-Commercial Research Institutions, further Non-Commercial Institutions

- **Firms** registered in Switzerland

- *(Not: Individual Persons)*

- *(Variably: Federal Offices...)*
Excellent Science (24.4 B €)
- European Research Council (13.1 B €)
- Future and Emerging Technologies (2.7 B €)
- Marie Skłodowska-Curie Actions (6.1 B €)
- Research Infrastructures (2.5 B €)

Industrial Leadership (17 B €)
- LEIT = Leadership in enabling and industrial technologies
  - ICT
  - Nano, new materials
  - Biotechnology
  - Space (13.5 B €)
- Access to Risk Finance (2.9 B €)
- Innovation in SMEs (0.6 B €)

Societal Challenges (29.7 B €)
- Health (7.5 B €)
- Food (3.9 B €)
- Energy (6 B €)
- Transport (6.3 B €)
- Climate (3 B €)
- Inclusive Societies (1.3 B €)
- Security (1.7 B €)

Spreading Excellence (0.8 B €)

Science for Society (0.5 B €)

EIT (2.7 B €)

JRC (1.9 B €)

Euratom (1.6 B €)
Situation as of 15.9.2014

- Single recipient projects:
  - Participation
  - Funding
  - EC
  - Risk Financing
  - SME
Situation as of 15.9.2014

- Cooperation projects:
  - Participation: ✔
  - Funding: ✗
  - EC

- Industries
- Utilities
- EV manufacturers
- Municipalities
- Universities and research institutions
- EV technology institutions
How to Get Funding from SERI (I)

- **Submit** your Horizon 2020 Collaborative Project to the EC
- **Await** positive evaluation and selection for funding by EC
- Get in touch with your Euresearch office ([www.euresearch.ch](http://www.euresearch.ch))
- Prepare and sign grant agreement (GA) on EU-side
How to Get Funding from SERI (II)

- Go to the SERI website [www.h2020.ch](http://www.h2020.ch) (online as of yesterday)
- Follow the instructions (fill in form)
- Send off the form
- Preliminary Check, Iterations and OK by Euresearch
- Submit the form to SERI
- Sign and return funding contract with SERI
Swiss Transitional Measures for Horizon 2020

Welcome to the platform for Switzerland's project-by-project participation in Horizon 2020 and its transitional funding scheme. On this page, the State Secretariat for Education, Research and Innovation (SERI) provides you with all the details you need to submit funding requests for Switzerland's third country participation in collaborative research projects under Horizon 2020 – the 8th Research and Innovation Framework Programme of the European Union.

Background information on the latest political developments, about the conditions for...
Project-by-project funding in Horizon 2020

Guideline for Swiss participants
Each Swiss participant in a project needs to fill out the web form.

Login

Username: [Enter]
Password: [Enter]

Please use the login credentials that were sent to you by e-mail.
If you have no login credentials yet, please register first.

Login Register
Thank you!

Philipp Langer, PhD
Head EU Framework Programmes

State Secretariat for Education, Research and Innovation SERI

Tel. +41 58 462 96 93, Philipp.Langer@sbfi.admin.ch
INNOVATE!
HOW TO LOBBY IN BRUSSELS NOW

Horizon 2020 and Switzerland: Thinking Ahead
Zurich, 6 November 2014
David Bohmert (Head of Office)
Overview intervention

PART I
Opportunities in Horizon 2020 until end 2016

PART II
What and how influencing Horizon 2020?

PART III
How to create opportunities post 2016?

PART IV
Questions and answers
PART I
Opportunities in Horizon 2020 until end 2016

SwissCore
Contact Office for European Research
Innovation and Education
### FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION (HORIZON 2020) (article 173 and 182 TFEU): €77bn

<table>
<thead>
<tr>
<th>PART (PRIORITY) I</th>
<th>EU EXCELLENT SCIENCE</th>
<th>PART (PRIORITY) II</th>
<th>INDUSTRIAL LEADERSHIP</th>
<th>PART (PRIORITY) III</th>
<th>SOCIETAL CHALLENGES</th>
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<tbody>
<tr>
<td></td>
<td>€24.44 bn</td>
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<td>€17.02 bn</td>
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<td>€29.68 bn</td>
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<tr>
<td>European Research Council (ERC)</td>
<td>€13.09 bn</td>
<td>Leadership in Enabling and Industrial Technologies (LEIT)</td>
<td>€13.56 bn</td>
<td>1. health, demographic change and wellbeing €7.47 bn</td>
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<tr>
<td>Future Emerging Technologies (FET)</td>
<td>€2.70 bn</td>
<td>FET Flagships</td>
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<td>2. food security, sustainable agriculture and forestry, marine and maritime and inland water research and bio-economy €3.85 bn</td>
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<tr>
<td>Marie Skłodowska-Curie Actions (MSCA)</td>
<td>€6.16 bn</td>
<td>Access to Risk Finance</td>
<td>€2.84 bn</td>
<td>3. secure, clean and efficient energy €5.93 bn</td>
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<tr>
<td>Research Infrastructures (RI)</td>
<td>€2.49 bn</td>
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<td>4. smart, green and integrated transport €6.33 bn</td>
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<td>5. climate action, environment, resource efficiency and raw materials €3.08 bn</td>
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<td>6. Europe in a changing world – inclusive, innovative and reflective societies €1.31 bn</td>
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<td>7. secure societies – protecting freedom and security of Europe and its citizens €1.69 bn</td>
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### SPECIFIC OBJECTIVE PART IIIa Spreading Excellence and Widening Participation (article 184) €0.82 bn

### SPECIFIC OBJECTIVE PART IIIb Science with and for Society €0.46 bn

### European Institute for Innovation and Technology (EIT) (article 173) €2.71 bn

### CROSSCUTTING ISSUES
- Complementarity with other Union policies and programmes, including European Structural and Investment Funds (ESI), Common Agricultural Policy, Programme for the Competitiveness of Enterprises and SMEs (COSME), Erasmus+ and Life+
- Complementarity to 185-Joint Programming Initiatives and 187-Joint Undertakings
- Synergies with the European Structural and Investment Funds (ESI)
Concrete opportunities Instruments

<table>
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<tr>
<th>INSTRUMENTS IMPLEMENTING HORIZON 2020 FROM FINANCIAL REGULATION</th>
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<tbody>
<tr>
<td><strong>GRANTS (TITLE VI FR):</strong></td>
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<tr>
<td>Coordination and Support Action (CSA)</td>
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<tr>
<td>Research and Innovation Actions</td>
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<td>Innovation Actions</td>
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<tr>
<td>SME Instrument</td>
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<td>SME Voucher</td>
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<tr>
<td>Fast Track to Innovation (FTI) (pilot)</td>
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<tr>
<td><strong>PRIZES (TITLE VII FR)</strong></td>
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<tr>
<td><strong>FINANCIAL INSTRUMENTS (TITLE VIII FR)</strong></td>
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<tr>
<td>Debt Facility</td>
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<td>Equity Facility</td>
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<td><strong>PROCUREMENT (TITLE V FR):</strong></td>
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<tr>
<td>Pre-commercial Procurement</td>
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<td>Public Procurement of innovative solutions</td>
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<tr>
<td><strong>INTERVENTION SCHEMES:</strong></td>
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<tr>
<td>ERAnet</td>
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<tr>
<td>contractual Public-Private Partnership (PPP)</td>
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</table>
Opportunities in collaborative projects

CH institutions **CAN (!)** participate in multi-beneficiary projects, i.e. Research & Innovation Actions (RIA), Innovation Actions (IA) and Coordination and Support Actions (CSA):

- provided minimum eligibility conditions are met (at least three participants from three different MS/AC)
- funded directly by Swiss Confederation
- CH institutions can coordinate projects
- if contribution of Swiss partner is “deemed essential for carrying out the action”, it is funded by EU (exception)
- no discrimination in evaluation of proposals with Swiss participants/coordinators
- **time-to-grant is set to 8 months with no more grant negotiation**: proposals are evaluated as they are
PART II
What and how influencing Horizon 2020?

SwissCore
Contact Office for European Research
Innovation and Education
programming forces on Horizon 2020

**EUROPE 2020**

- **Part I:** Excellent Science
- **Part II:** Industrial Leadership
- **Part III:** Societal Challenges

---

**Strategic Programme**

- top-down (political) programming
- bottom-up (expert) programming

---

**FOCUS AREAS**

1. **TOPICS**
   - BI-ANNUAL WP/ANNUAL CALL
      - (TECHNICAL) ROADMAPS

2. **10 STRATEGY & YEARLY PRIORITIES**

---

**SwissCore**

Contact Office for European Research Innovation and Education
Europe 2020: 10 year policy cycle with yearly priorities

Horizon 2020: 7 year programme cycle

Strategic Programme: 3 year cycle

WP: 2 year

Strategic Programme: 3 year cycle

WP: 2 year

WP: 2 year

WP: 1 year

call: 2014
call: 2015
call: 2016
call: 2017
call: 2018
call: 2019
call: 2020
Strategic Programme 2014-2016

12 Focus Areas based on societal challenges:

• personalising health and care
• sustainable food security
• blue growth: unlocking the potential of the oceans
• smart cities and communities
• competitive low-carbon energy
• energy efficiency
• mobility for growth
• waste
• water innovation: boosting its value for Europe
• overcoming the crisis
• disaster-resilience
• digital security
influence on Strategic Programme

DGs from research family headed by DG RTD → DRAFT
ADOPT → STRATEGIC PROGRAMME → ADVISE

HLEG: RISE
EIP
JPI
ETP
Work Programme cycle: calls 2016 & 2017

1. external/internal consultation
   December - February

2. drafting
   January - May

3. adoption
   June - July

4. call 2016 autumn 2015

5. budget call 2017

6. call 2017 autumn 2016

Strategic Programme 2016-2018
   December 2015

Advisory Group reports
other documents
feeding into EC scoping
papers 2016-2017
autumn 2015

SwissCore
Contact Office for European Research
Innovation and Education
influence on Work Programme

1. DRAFT
2. ADVISE
3. GIVE OPINION
4. ADOPT

BI-ANNUAL WORK PROGRAMMES

DGs
SCIENTIFIC COUNCIL ERC

15 ADVISORY GROUPS
SCIENTIFIC PANEL FOR HEALTH
CONNECT ADVISORY FORUM

14 PROGRAMME COMMITTEES

Evaluators, Coordinators & Partners

FEEDBACK
Summary lobbying Brussels

... is welcome when pro-active, constructive and transparent
... is (mainly) about giving and (then) benefiting
... can really help make your voice heard
... contributes to shape European Research Area
... National lobbying is political, European lobbying is technical
PART III
How to create more opportunities in Horizon 2020?
What next?

Confederation still intends to get fully associated to Horizon 2020 and Erasmus+. Therefore a settlement on free movement of persons with EU and signing and ratification of Croatia protocol by CH are needed.

But:

- 30-11-2014: popular vote on ECOPOP
- 05-12-2014: formal *signature of partial association* agreement between Confederation and EU expected
- 2015: popular vote on Croatia Protocol?
- 2015: elections in Switzerland
- 2016: *Umsetzung*?
- 2016: *Schweizer Recht vor fremdem Recht*?
- 01-01-2017: full association to Horizon 2020 and Erasmus+?
Remember 1993? ... nothing new ...

«Wenn aus dem Sumpfe unserer politischen Journalistik Leidenschaften hervortauuchen, die, gewähnen sie die Oberhand, das geistige Leben unserer Hochschule verkümmern und so ihre Existenz erschüttern müssten, wenn dadurch die wissenschaftliche und kulturelle Errungenschaft, die Zürich im Laufe der Zeiten und namentlich auch durch die Regeneration der 30ger Jahre erworben, in Frage gestellt wird, dann ist es wohl an der Zeit, dass auch diejenigen, die bis anhin als müßige Zuschauer dem Zeitungskampfe ferne gestanden, in die Schranken treten, um die gefährdeten Güter zu wahren.»

Alfred Escher am 28. Februar 1844 in der Neuen Zürcher Zeitung
Thank you for your attention!

Questions?

David Bohmert
bohmert@swisscore.org
### Breakout Sessions

**Open Calls, New Opportunities, Swiss Challenges**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>NCP Name</th>
<th>Organization</th>
<th>Participants</th>
<th>Location</th>
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<tbody>
<tr>
<td>16:00 – 17:00</td>
<td>IDEASLAB: THE HEALTH ECONOMY</td>
<td>Sasha HUGENTOBLER</td>
<td>ETH Zürich</td>
<td>Sabine WERNER</td>
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<td>16:00 – 17:00</td>
<td>IDEASLAB: THE EUREKA EFFECT OF THE ERC</td>
<td>Katja WIRTH</td>
<td>ETH Zürich</td>
<td>Salvador PANÉ i VIDAL</td>
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<td>16:00 – 17:00</td>
<td>IDEASLAB: FET AS AN INNOVATION ECOSYSTEM</td>
<td>Francesco KIENZLE</td>
<td>University of Zurich</td>
<td>Stefano BATTISTON</td>
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IDEASLAB: THE HEALTH ECONOMY

In Conversation

Sasha Hugentobler
(NCP Health)

Sabine Werner
(ETH Zurich)
Horizon 2020

Funding for Health/ Life Sciences research

Dr. Sasha Hugentobler
National Contact Point Health
Euresearch Head Office
sasha.hugentobler@euresearch.ch
+41 31 380 6006
What is Horizon 2020?

The EU’s 2014-20 programme for research & innovation (over 70.2 billion Euros)

A core part of Europe 2020, Innovation Union & European Research Area

- Responding to the economic crisis to invest in future jobs and growth
- Addressing people’s concerns about their livelihoods, safety and environment
- Strengthening the EU’s global position in research, innovation and technology

http://ec.europa.eu/research/horizon2020

Sasha Hugentobler • Funding for Health/Life Sciences Research in Horizon 2020 • 6th November 2014 • www.euresearch.ch
Sasha Hugentobler

Funding for Health/Life Sciences Research in Horizon 2020

6th November 2014

www.euresearch.ch

SEFRI

Health/life sciences research

Excellent Science (EUR 24.4bn)
- European Research Council EUR 13.1bn
- Future and Emerging Technologies EUR 2.7bn
- Marie-Sklodowska-Curie Actions EUR 6.1bn
- Research Infrastructures EUR 2.5bn

Industrial Leadership (EUR 17bn)
- LEIT = Leadership in enabling and industrial technologies
  - ICT
  - Nano, new materials
  - Biotechnology
  - Manufacturing and processing
  - Space EUR 13.5bn
- Access to Risk Finance EUR 2.9bn
- Innovation in SMEs EUR 0.6bn

Societal Challenge (EUR 29.7bn)
- Health EUR 7.5bn
- Food EUR 3.9bn
- Energy EUR 6bn
- Transport EUR 6.3bn
- Climate EUR 3bn
- Inclusive Societies EUR 1.3bn
- Security EUR 1.7bn

Spreading Excellence (EUR 0.8bn)

Science for Society (EUR 0.5bn)

European Institute of Innovation and Technology (EIT) EUR 2.7bn

Joint Research Centre (JRC) EUR 1.9bn

Euratom EUR 1.6bn

Switzerland’s participation in Horizon 2020 (As of: 15.09.2014)

CH Association (Sept. 2014 - Dec. 2016)
- CH participation as third country
- No CH participation

SEFRI
Societal Challenges

Principle:

- Tackle global and societal challenges & concerns of citizens & society
- Address political priorities of the EU
- Inter-sectorial and multidisciplinary collaborative research & innovation
- Emphasis on innovation, with continuing support for R&D
- Promising solutions need to be tested, demonstrated and scaled up
- Cross-cutting issues mainstreamed (e.g. social sciences and humanities (SSH), gender, international cooperation)
Horizon 2020 - Societal Challenge 1

- Translating science to benefit citizens
- Improve health outcomes
- Support a competitive health & care sector
- Test and demonstrate new health & care models, approaches and tools
- Promote healthy and active ageing
Basic Rules

- The EU Commission has identified the problems
- You provide together with your international consortium of experts the best solution to the identified problem
- One can only submit a proposal to a challenge in an open call
How to find the Health Call and topics?

Dr. Sasha Hugentobler
National Contact Point Health
Euresearch Head Office
sasha.hugentobler@euresearch.ch
+41 31 380 6006
How to find the Health Call and topics

Open Health Topics
(the last topics after 3 deadlines passed already)

Dr. Sasha Hugentobler
National Contact Point Health
Euresearch Head Office
sasha.hugentobler@euresearch.ch
+41 31 380 6006
From "omics" ... to prevention

Finding the cure ...  
and evaluating existing treatments

- Clinical research on regenerative medicine 
  (2015; € 4-6 m) (overcome the gap from basic knowledge into the clinic. 
  Focus on regenerative medicines therapies which are ready for clinical in patient research. 
  Research on safety, repeatability and efficacy of new treatments needed. SME!)
Adding more life to our years

- Early risk detection and intervention with ICT (2015; € 3-4 m) (ICT based solutions which support active and healthy ageing by enabling early detection and minimisation of risks associated with ageing, incl cognitive impairment, frailty, depression and falls)
The citizen in the centre

- **ICT systems & services for integrated care (2015; € 3-5 m)** (re-design health and care systems to develop integrated care models that are more closely oriented to the needs of older patients. Address chronic diseases and co-morbidities)

- **Self-management of health and disease & decision support systems based on predictive computer modelling used by the patient (€ 3-5 m)** (predictive systems based on computer modelling and develop decisions support systems that will be used by the individual. Improve the participation of the patient in the care process)
Big Data for research

- **Digital representation of health data to improve diagnosis and treatment (2015; € 3-5 m)** (new decision support systems based on a complex integration of heterogeneous data sources and subject specific computer models. The use of DSS by healthcare professionals for personalised prediction and decisions in prevention, diagnosis, and treatment)

- **New approaches to improve predictive human safety testing (2015; € 10-15 m)** (understand complex biological pathways of toxicological relevance and identify early markers predictive of toxicological effects in humans. More effective, faster, cheaper toxicological testing. Reduction of lab animals in safety testing)
Upcoming Health Call
2016- 2017

Dr. Sasha Hugentobler
National Contact Point Health
Euresearch Head Office
sasha.hugentobler@euresearch.ch
+41 31 380 6006
WP 2016 outlook

Based on the report of the advisory group for societal challenge health

8 strategic priorities:
1. Ageing at large
2. Personalised medicine
3. ICT for health
4. Population health and health promotion
5. Infectious diseases
6. Early development
7. Sustainable health and care systems
8. Environment and health challenge
Award criteria
(Evaluation criteria)

1. Excellence
   - Ground-breaking nature (e.g. beyond the state-of-the-art, novel approach, addresses challenge.. )
   - Clarity of objectives, credibility of approach
   - Sound concept; trans-disciplinarily considered, innovation potential...

2. Impact [...] extent to which project outputs contribute to:
   - The expected impacts listed in the work programme under the relevant topic;
   - Enhancing innovation capacity and integration of new knowledge;
   - Strengthening competitiveness & growth.; environmental & socially important impacts
   - Effectiveness of the proposed measures to communicate the project, disseminate and/or exploit the project results, and appropriate management of IPR.

3. Quality and efficiency of implementation
   - Effectiveness of the work plan, including appropriateness of the allocation of tasks and resources;
   - Competences, experience and complementarity of the individual participants, as well as of the consortium as a whole;
   - Appropriateness of the management structures and procedures, including risk management
Thank you for your time
IDEASLAB: THE EUREKA EFFECT OF THE ERC

In Conversation

Katja Wirth (NCP ERC)

Salvador Pané i Vidal (ETH Zurich)
IdeaLab ERC

Horizon 2020 and Switzerland: Thinking Ahead

Dr. Katja Wirth
National Contact Point ERC
Euresearch Head Office
katja.wirth@euresearch.ch
+41 (0)31 380 60 18
# ERC Call Overview

<table>
<thead>
<tr>
<th></th>
<th>Starting Grant</th>
<th>Consolidator Grant</th>
<th>Advanced Grant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Call identifier</strong></td>
<td>ERC-2015-StG</td>
<td>ERC-2015-CoG</td>
<td>ERC-2015-AdG</td>
</tr>
<tr>
<td><strong>Call Opens</strong></td>
<td>7 October 2014</td>
<td>13 November 2014</td>
<td>10 February 2015</td>
</tr>
<tr>
<td><strong>Deadline(s)</strong></td>
<td>3 February 2015</td>
<td>12 March 2015</td>
<td>2 June 2015</td>
</tr>
</tbody>
</table>
# The Proposal

| PART A – online forms  
To complete in PPSS |
|----------------------|
| PART B1 - submitted as pdf  
Section 1  
a) Extended synopsis  5 p.  
b) CV  2 p.  
c) Early achievements track record  2 p. |
| Annexes – submitted as pdf  
Letter of HI  
PhD certificate (incl. supporting documents if applicable)  
Ethical self-assessment and documentation (if appl.) |
| PART B2 – submitted as pdf  
Scientific proposal  15 p. |
Do’s and don’ts

- Write first the proposal, then the synopsis, then the abstract.
- Your main objective should be present on the very first page.
- Come quickly to the point.
- Independence is important.
- Be explicit: Where is your research project ground breaking? What is novel?
- Explain: What, why, when, how, why you, why now.
Evaluation

- 25 evaluation panels
- Panel descriptions: Annex I of «Information for applicants»
- Panels chairs published before call deadline; panel members after call deadline
- Two sets of evaluation panels alternate
- Two-step evaluation
- Step 1: proposal part B1 (Synopsis, CV and track-record) by panel members
- Step 2: proposals part B1 and B2 (full proposal) by panel members and external reviewers
Links

- Euresearch
- ERC Work Programme
- Information for Applicants (Guidelines for ERC proposal)
- Self-evaluation form
- ERC website
- ERC funded projects
Euresearch Services

- Applicant Trainings:
  - ZH: 27 November
  - BE: 6 January
  - FR: 8 January
  - Lugano: 13 January

- Guides, templates
- Support with budget
- Review of mature proposal draft
- Advice
IDEASLAB: FET AS AN INNOVATION ECOSYSTEM

In Conversation
IDEASLAB:  
FET AS AN INNOVATION ECOSYSTEM  

Zurich, 6.11.2014

Francesco Kienzle  
National Contact Point Future and Emerging Technologies  
Francesco.kienzle@euresearch.ch

Prof. Stefano Battiston  
University of Zurich  
Department of Banking and Finance
Agenda

- Future Emerging Technology in Horizon 2020
- Horizon 2020 and Switzerland
- FET structure and open calls
- Question / Answer to Prof. S. Battiston
- Your Questions
## Horizon 2020

<table>
<thead>
<tr>
<th>Excellent Science</th>
<th>Industrial Leadership</th>
<th>Societal Challenges</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Research Council (ERC)</td>
<td>Leadership in Enabling and Industrial Technologies (LEIT)</td>
<td>Health, Demographic Change and Wellbeing</td>
</tr>
<tr>
<td><strong>Future Emerging Technologies (FET)</strong></td>
<td>Access to Risk Finance</td>
<td>Food Security, Sustainable Agriculture, etc.</td>
</tr>
<tr>
<td>Marie Sklodowska Curie Actions (MSCA)</td>
<td>Innovation in SMEs</td>
<td>Secure, Clean and Efficient Energy</td>
</tr>
<tr>
<td>European Research Infrastructures</td>
<td></td>
<td>Smart, Green and Integrated Transport</td>
</tr>
<tr>
<td><strong>2.7 B€</strong></td>
<td></td>
<td>Climate Action, Resource Efficiency and Raw Materials</td>
</tr>
<tr>
<td>6.1B€</td>
<td></td>
<td>Inclusive, Innovative and Reflective Societies</td>
</tr>
<tr>
<td>2.4B€</td>
<td></td>
<td>Secure Societies</td>
</tr>
<tr>
<td><strong>13B€</strong></td>
<td><strong>Budget ~ €24.4 billion</strong></td>
<td><strong>Budget ~ €17 billion</strong></td>
</tr>
<tr>
<td><strong>Budget ~ €24.4 billion</strong></td>
<td><strong>Budget ~ €17 billion</strong></td>
<td><strong>Budget ~ €30 billion</strong></td>
</tr>
</tbody>
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European Institute of Innovation & Technology (EIT) • Joint Research Centre (JRC) • Spreading Excellence and Widening Participation • Science with and for Society
FET in Horizon 2020

FET is aiming at «[...] provides a unique combination of high-risk, long-term, multidisciplinary and collaborative, research with the structuring of more mature ideas and communities. It involves fostering radically new technologies by exploring novel and high-risk ideas. Thus, it should prepare for the conversion of novel proofs of concepts into mainstream research and innovation and ultimately industrial applications and systems. [...]»

Introduction to Horizon 2020:

© Euresearch
**FET Structure: FET Flagship**

**Open, light and agile**

**FET Open**
- Early Ideas
  - Individual research projects
- Exploring novel ideas

**FET Proactive**
- Exploration and Incubation
  - Topical clusters of research projects
- Developing topics and communities

**FET Flagship**
- Large-Scale Partnering Initiatives
- Common research agendas
- Addressing Grand challenges

© Euresearch
FET Structure: FET Proactive

Open, light and agile

FET Proactive

Exploration and Incubation

Topical clusters of research projects

Developing topic communities

FET Open

Early Ideas

Individual research projects

Exploring novel ideas

FET Flagships

Large-Scale Partnering Initiatives

Common research agendas

Addressing grand challenges

FET Structure: FET Proactive
FET Structure: Open, Proactive, Flagship

FET Open
- Early Ideas
  - Individual research projects
  - Exploring novel ideas

FET Proactive
- Exploration and Incubation
  - Topical clusters of research projects
- Developing topics & communities

FET Flagships
- Large-Scale Partnering Initiatives
- Common research agendas
- Addressing grand challenges

Roadmap based research
FETOPEN1: Research Projects

- **Specific challenge**
  - Supporting a large set of *early stage*, high *risk visionary* science and technology collaborative research projects

- **Project size:** 2 to 4 M€
  - Collaborative Project: 3 legal entities in different member state or associate country
  - 1 step submission and evaluation of a 16 pages proposal
  - Proposals are not anonymous

- **Budget:** 154 M€

<table>
<thead>
<tr>
<th>Deadlines</th>
<th>30/09/2014</th>
<th>31/03/2015</th>
<th>29/09/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget</td>
<td>77 M€</td>
<td>38,5 M€</td>
<td>38,5 M€</td>
</tr>
</tbody>
</table>
DOLFINS - the FET-Proactive context

- Submitted to FET-Proactive topic «Global System Science»

- Goal of topic: «[...] improve the way scientific knowledge can help inform and evaluate policy and societal responses to global challenges [...]»
Contact Information for Questions related to Future and Emerging Technologies

**Francesco Kienzle, PhD**
National Contact Point FET & ICT
francesco.kienzle@euresearch.ch
031 380 60 07
https://www.euresearch.ch

**Euresearch Regional Office Zürich**
http://grantsaccess.ethz.ch/

**Euresearch Regional Offices**
https://www.euresearch.ch/en/about-euresearch/contacts

Your Questions
Proposal structure

- Part A: Administrative part

- Part B: Scientific part
  - 16 pages – core proposal
    - Cover page
    - Section 1: Sci. & Tech Excellence
    - Section 2: Impact
    - Section 3: Implementation

- Additional information
  - Section 4: Members of consortium (legal entity, CV, subcontract, 3rd party)
  - Section 5: Ethics and Security (ethic self-assessment & supporting documents, security checklist)

Strict limit to 1 page
Strict limit to 15 pages
# Criteria for FET-OPEN

<table>
<thead>
<tr>
<th>Excellence</th>
<th>Impact</th>
<th>Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Clarity of targeted <strong>breakthrough</strong> and its specific science and technology contributions towards a long-term vision.</td>
<td>- Importance of the new technological outcome with regards to its transformational impact on technology and/or society.</td>
<td>- Quality of the <strong>workplan</strong> and clarity of intermediate targets.</td>
</tr>
<tr>
<td>- <strong>Novelty</strong>, level of ambition and <strong>foundational</strong> character.</td>
<td>- Quality of measures for achieving impact on science, technology and/or society.</td>
<td>- Relevant <strong>expertise</strong> in the consortium.</td>
</tr>
<tr>
<td>- Range and added value from <strong>interdisciplinarity</strong>.</td>
<td>- Impact from <strong>empowerment</strong> of new and high potential actors towards future technological <strong>leadership</strong>.</td>
<td>- Appropriate <strong>allocation</strong> and justification of <strong>resources</strong> (person-months, equipment, budget).</td>
</tr>
<tr>
<td>- <strong>Appropriateness</strong> of the research <strong>method</strong>.</td>
<td></td>
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</tbody>
</table>

**Threshold:** 4/5  
**Weight:** 60%  

**Threshold:** 3,5/5  
**Weight:** 20%  

**Threshold:** 3/5  
**Weight:** 20%
Tipp & Tricks

• Attractive Abstract & easy to read (make it read to a non specialist)
• Excellent Team
• Vision: European Context
  ▪ European Technology Plattforms
  ▪ FET Projects Compendium
Tipp & Tricks

- Open Access: REF
- Open DATA:

<table>
<thead>
<tr>
<th>Proposal ID</th>
<th>SEP-210172898</th>
<th>Acronym</th>
<th>FET-OPEN-TEST1</th>
<th>Go to</th>
</tr>
</thead>
</table>

5 - Call specific questions

Open Research Data Pilot in Horizon 2020

If selected, all applicants will participate in the [Pilot on Open Research Data in Horizon 2020](#), which aims to improve and maximise access to and re-use of research data generated by actions. Participating in the Pilot does not necessarily mean opening up all research data. Actions participating in the Pilot will be invited to formulate a Data Management Plan in which they will determine and explain which of the research data they generate will be made open.

Applicants have the possibility to opt out of this Pilot and must indicate a reason for this choice.

Participation in this Pilot does not constitute part of the evaluation process. Proposals will not be evaluated favourably because they are part of the Pilot and will not be penalised for opting out of the Pilot.

<table>
<thead>
<tr>
<th>We wish to opt out of the Pilot on Open Research Data in Horizon 2020.</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>


**Data management activities**

The use of a Data Management Plan (DMP) is required for projects participating in the [Open Research Data Pilot in Horizon 2020](#), in the form of a deliverable in the first 6 months of the project.

All other projects may deliver a DMP on a voluntary basis, if relevant for their research.

<table>
<thead>
<tr>
<th>Are data management activities relevant for your proposed project?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>
Info sources

- Participant portal:

- FET Work Programme call text:

- FET Proactive Infoday - Jan 20, 2014:

- Twitter: @FET_EU

- Project Partner: NCPs Support Network for ICT

- Open Access:
  - OpenAIRE project: [https://www.openaire.eu/](https://www.openaire.eu/)

- Data Management: