

European research in Swiss Universities of Applied Sciences and Universities of Teacher Education

opportunities and challenges

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overview

1. Horizon 2020: which opportunities for Swiss UAS and UTE?
2. A few strategic considerations on how to use them?
3. Future developments

Horizon 2020: which opportunities?



European Research Area and 3 Os



Horizon 2020: €88 billion

FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION (HORIZON 2020) (article 173 and 182 TFEU)		
PART (PRIORITY) I EXCELLENT SCIENCE €24.44 bn	PART (PRIORITY) II Industrial Leadership €17.02 bn	PART (PRIORITY) III SOCIETAL CHALLENGES €29.68 bn
European Research Council (ERC) €13.09 bn: 1. Starting Grant (StG) 2. Consolidator Grant (CoG) 3. Advanced Grant (AdG) 4. Proof of Concept (PoC) 5. Synergy Grants (SyG)	Leadership in Enabling and Industrial Technologies €13.5 bn: 1. ICT 2. nanotechnologies 3. advanced materials 4. biotechnology 5. advanced manufacturing and processing 6. space	1. health, demographic change and wellbeing €7.47 bn 2. food security, sustainable agriculture and forestry, marine and maritime and inland water research and bioeconomy €3.85 bn 3. secure, clean and efficient energy €5.93 bn 4. smart, green and integrated transport €6.33 bn 5. climate action, environment, resource efficiency and raw materials €3.08 bn 6. Europe in a changing world – inclusive, innovative and reflective societies €1.31 bn 7. secure societies – protecting freedom and security of Europe and its citizens €1.69 bn
Future Emerging Technologies (FET) €2.70 bn: 1. FET Open 2. FET Proactive 3. FET Flagships	Access to Risk Finance €2.8 bn: 1. Debt Facility 2. Equity Facility 3. Capacity-Building in Technology Transfer	
Marie Skłodowska-Curie Actions (MSCA) €6.15 bn: 1. Innovative Training Networks (ITN) 2. Individual Fellowships 3. Research and Innovation Staff Exchange (RISE) 4. COFUND	Innovation in SME €0.62bn	
Research Infrastructures (RI) €2.45 bn: 1. developing European RI for 2020 and beyond 2. fostering innovation potential of RI and their human resources 3. reinforcing European RI policy and international cooperation		
SPECIFIC OBJECTIVE PART IIIa Spreading Excellence and Widening Participation (article 184) €0.32 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 COST, 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)		

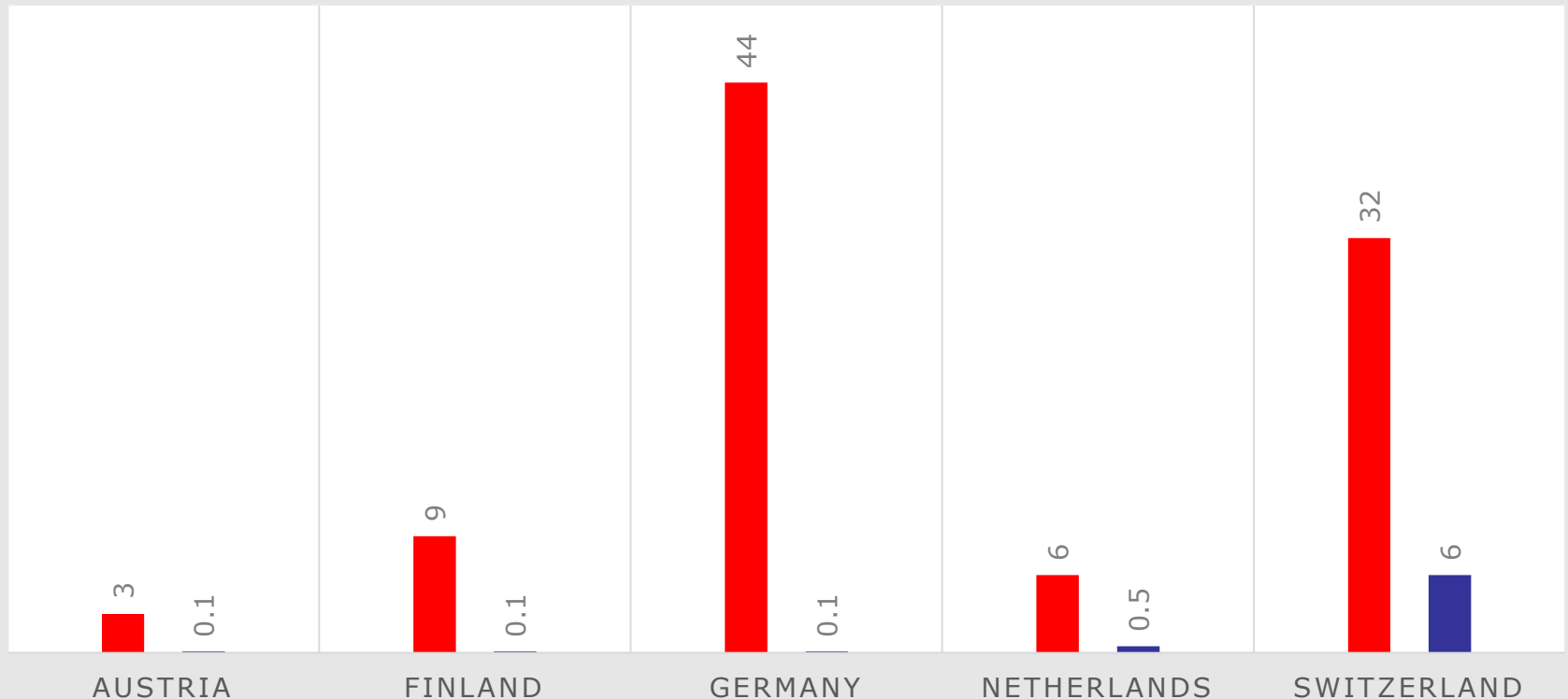
A few strategic considerations



CH UAS: scoring well in EU comparison

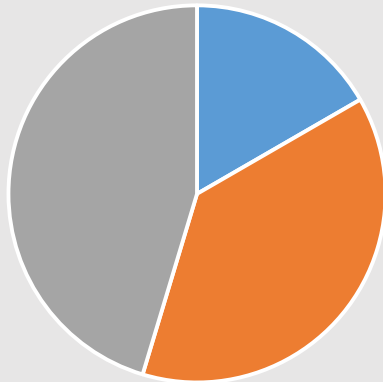
A comparative overview (as illustration)

■ UAS Projects Horizon 2020 ■ Percentage of total UAS H2020 projects in country



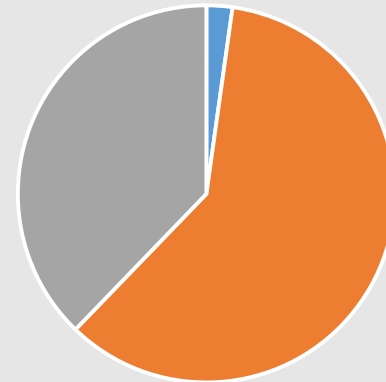
CH UAS: industrial leadership as successful pillar

Swiss UAS H2020 submissions



■ Excellent Science ■ Industrial Leadership ■ Societal Challenges

Swiss UAS H2020 participations



■ Excellent Science ■ Industrial Leadership ■ Societal Challenges

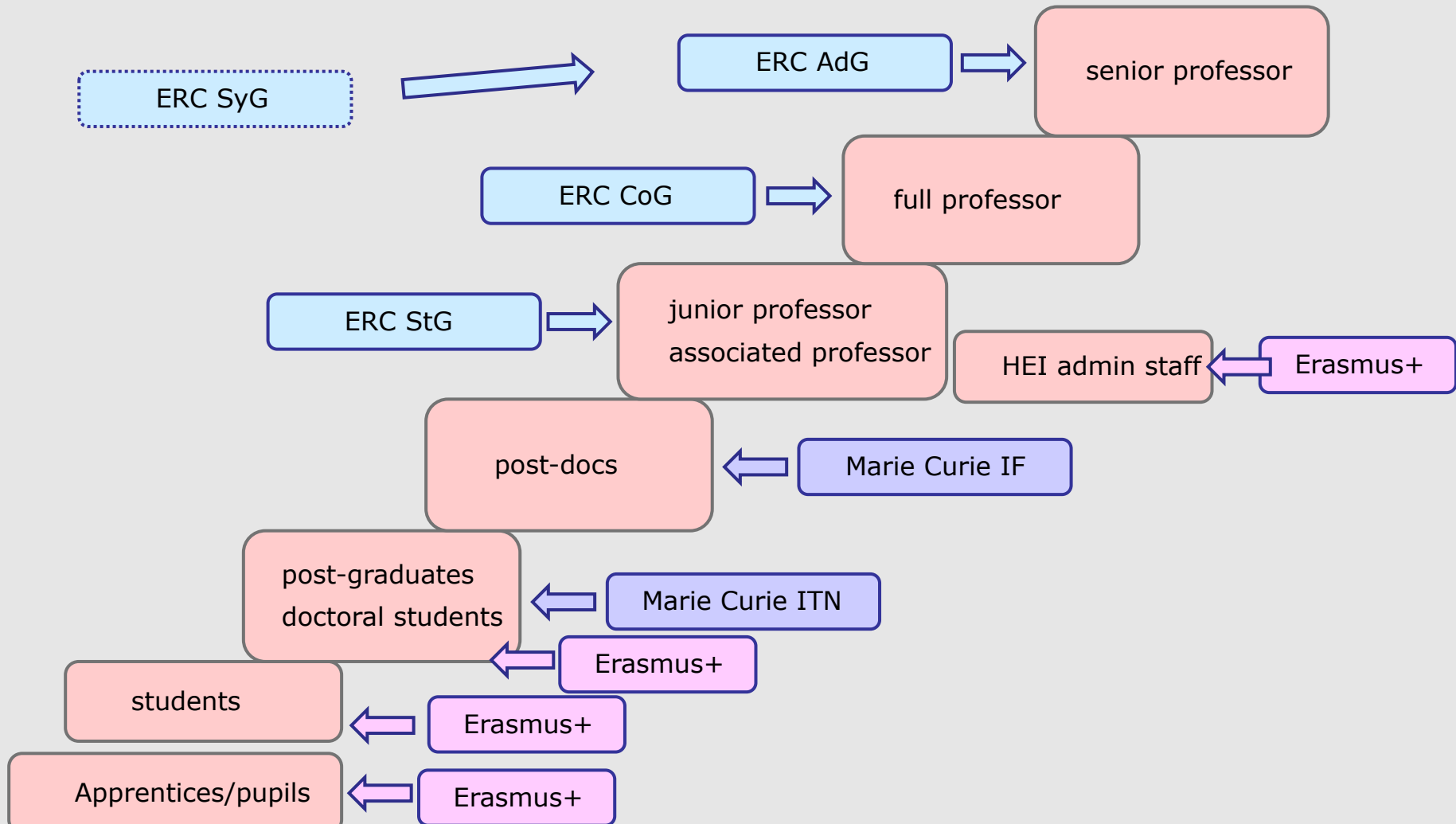
Total submissions/funded: 408/45

- Excellent science: 68/1
- Industrial leadership: 155/27
- Societal challenges: 185/17

Average success rate: 10.1%

- Excellent science: 1.5%
- Industrial leadership: 21.1%
- Societal challenges: 10.1%

mobility opportunities at every step



CH UAS and UTE in Erasmus+

- 9 Strategic Partnerships among which 3 from UAS and 2 from UTE
- Example for UTE: Education for Future (PH Zurich) and *Partenariats d'étudiants et enseignants-chercheurs en réseaux sociaux* (PEERS) (HEP Vaud)



link to institutional strategies

internationalise ERI to support institutional strategy

Pillar 1:

select your focus areas

- define strategic axes
- link to EU funding opportunities

Pillar 2:

optimise project portfolio

- build upon successful projects
- coordinate EU applications
- free researchers and commitment from board

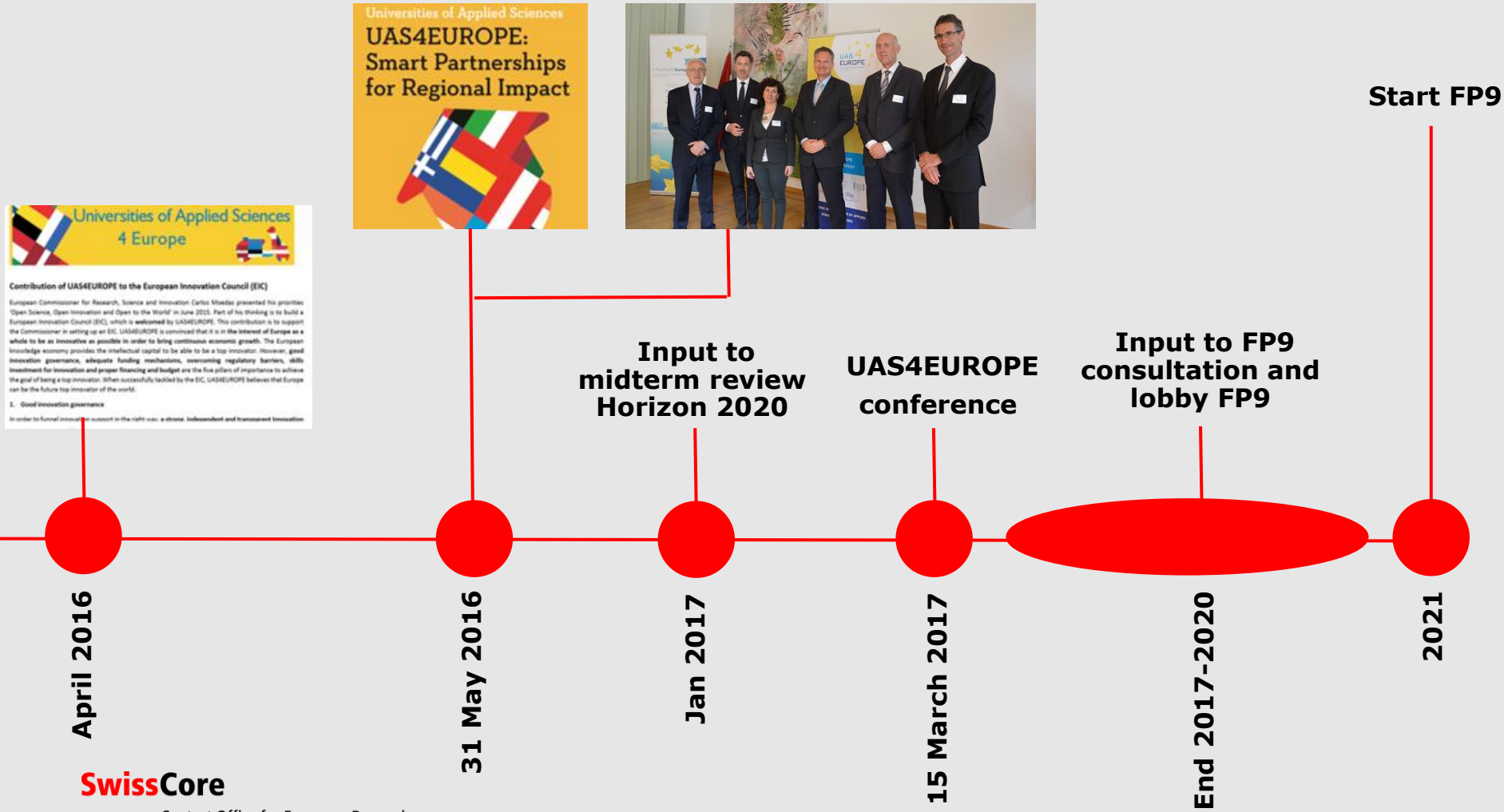
Pillar 3:

position yourself at European level and influence R&I policies

- presence in relevant expert groups
- join relevant clubs in Brussels

Foundation: build upon the institution's strength and mission

UAS4EUROPE

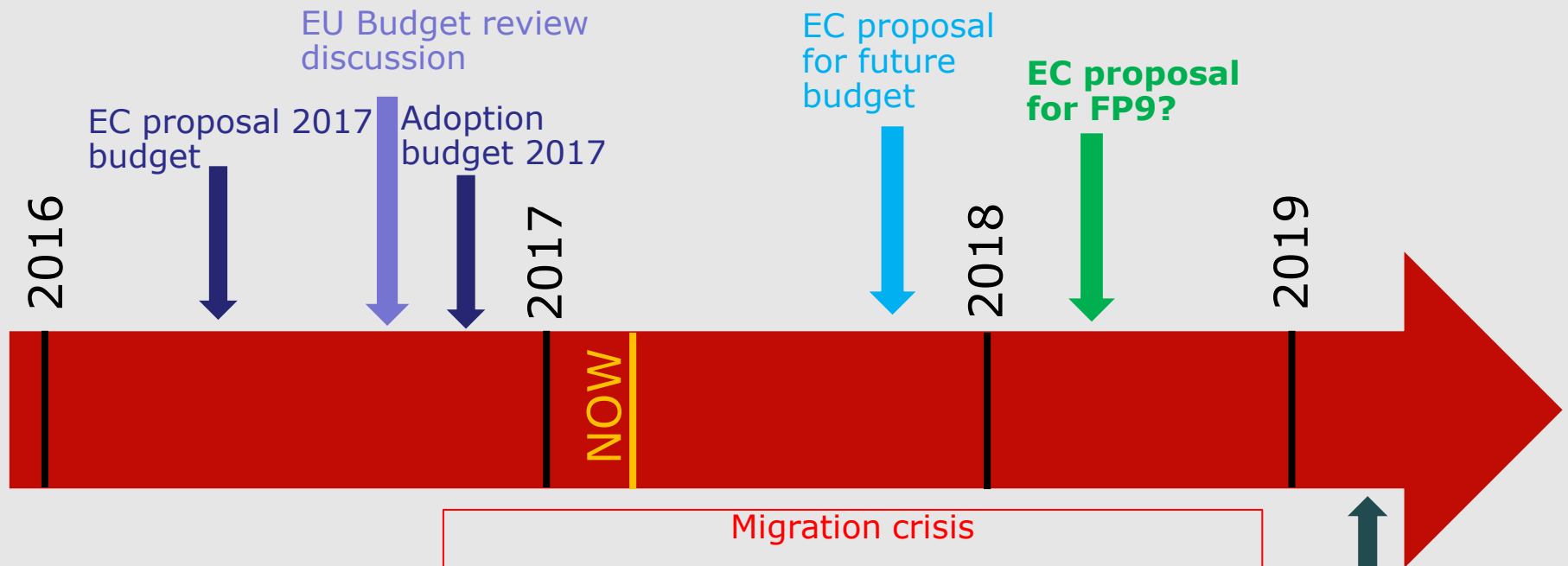


future R&I developments

NÉGOCIATIONS BILATÉRALES AVEC L'EUROPE **LA SUISSE JOUE LA MONTRE**



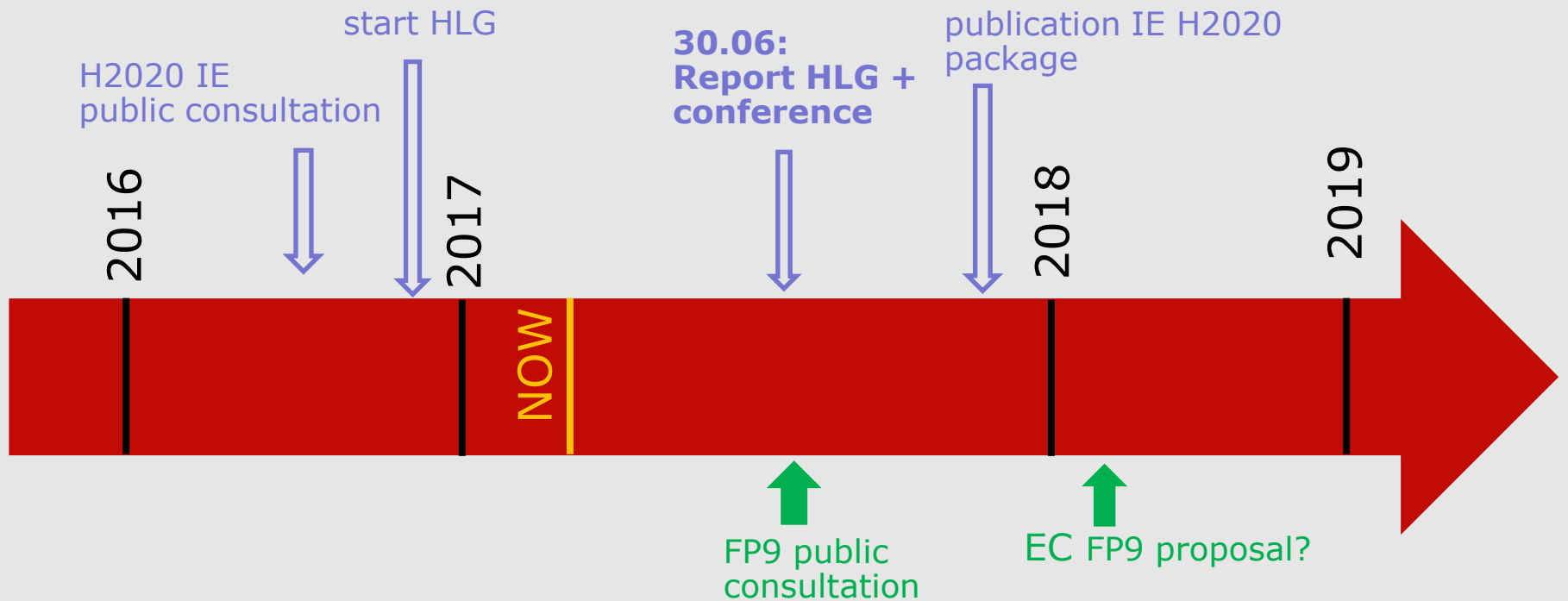
EU budget developments



Migration crisis
Security - Defence research
Juncker's 2nd Investment Plan → increase of financial instruments (e.g. loans vs. grants)?
BREXIT?

→ Influence H2020 and successor (FP9)
→ Influence Erasmus+ and successor

Horizon/FP9 timeline



Excellence, Openess, Impact
European Innovation Council
Social Science and Humanities
Interdisciplinarity
Oversubscription - simplification

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