



# EPFL Photonics-related EU projects at EPFL

## Portfolio and learnings

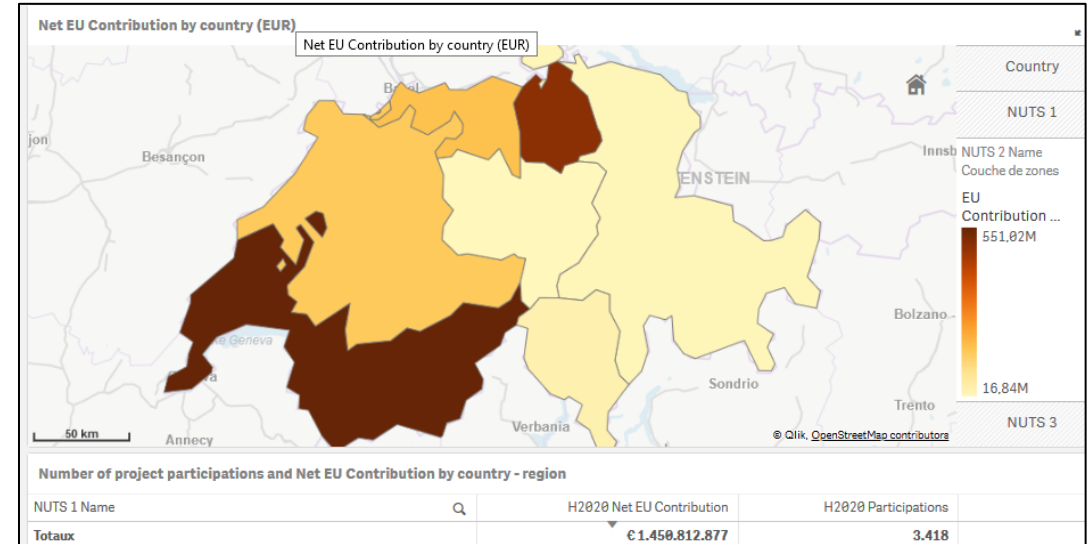
Pierre-Yves Fonjallaz  
Research Office – EPFL & Swissphotonics

# Some Figures from Horizon 2020

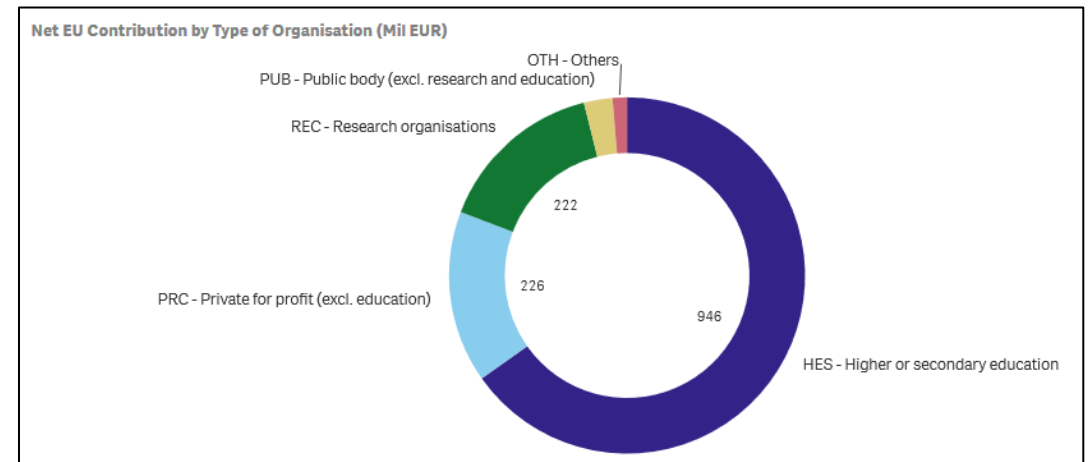
From the [H2020 Dashboard](#)

(as per Dec. 1, 2019):

- Total grant H2020: 46,77 B€
- Total grant CH: 1,45 B€ (3.1%)



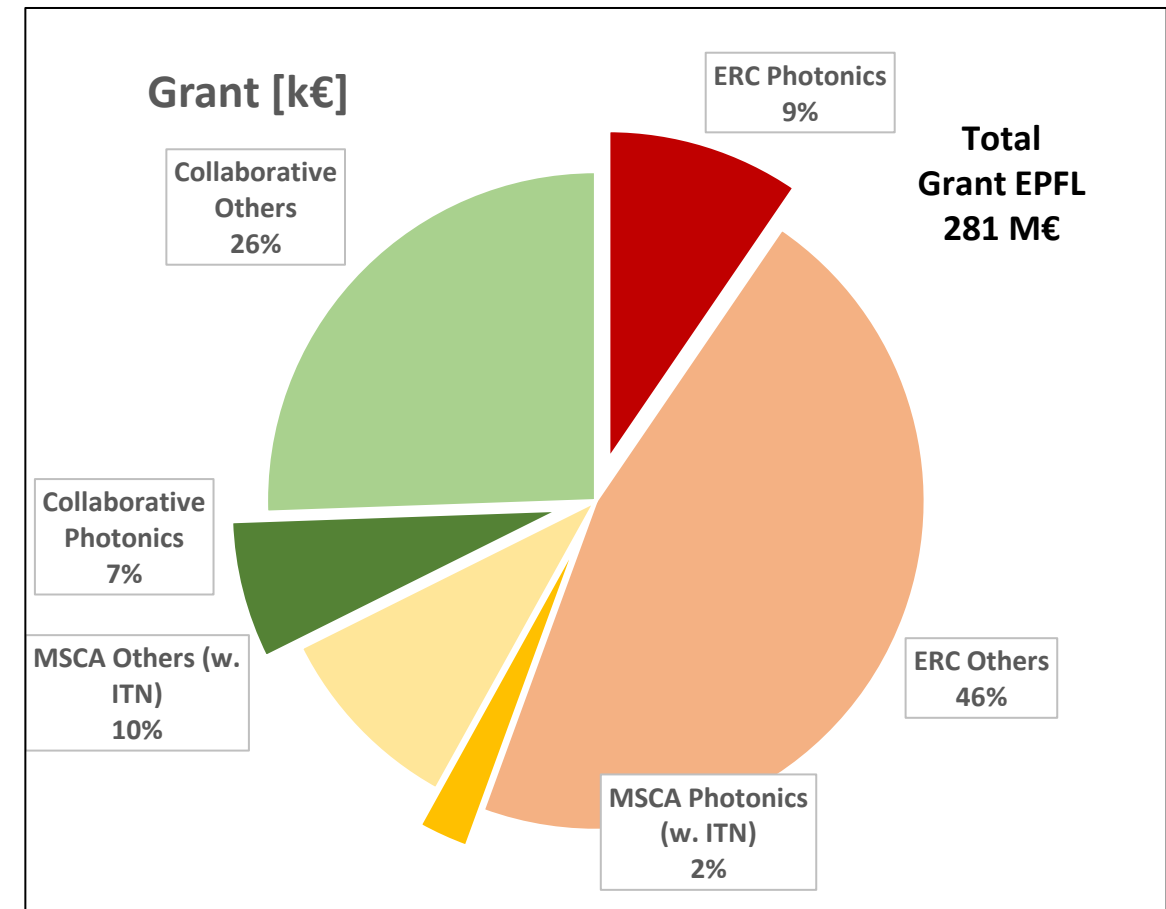
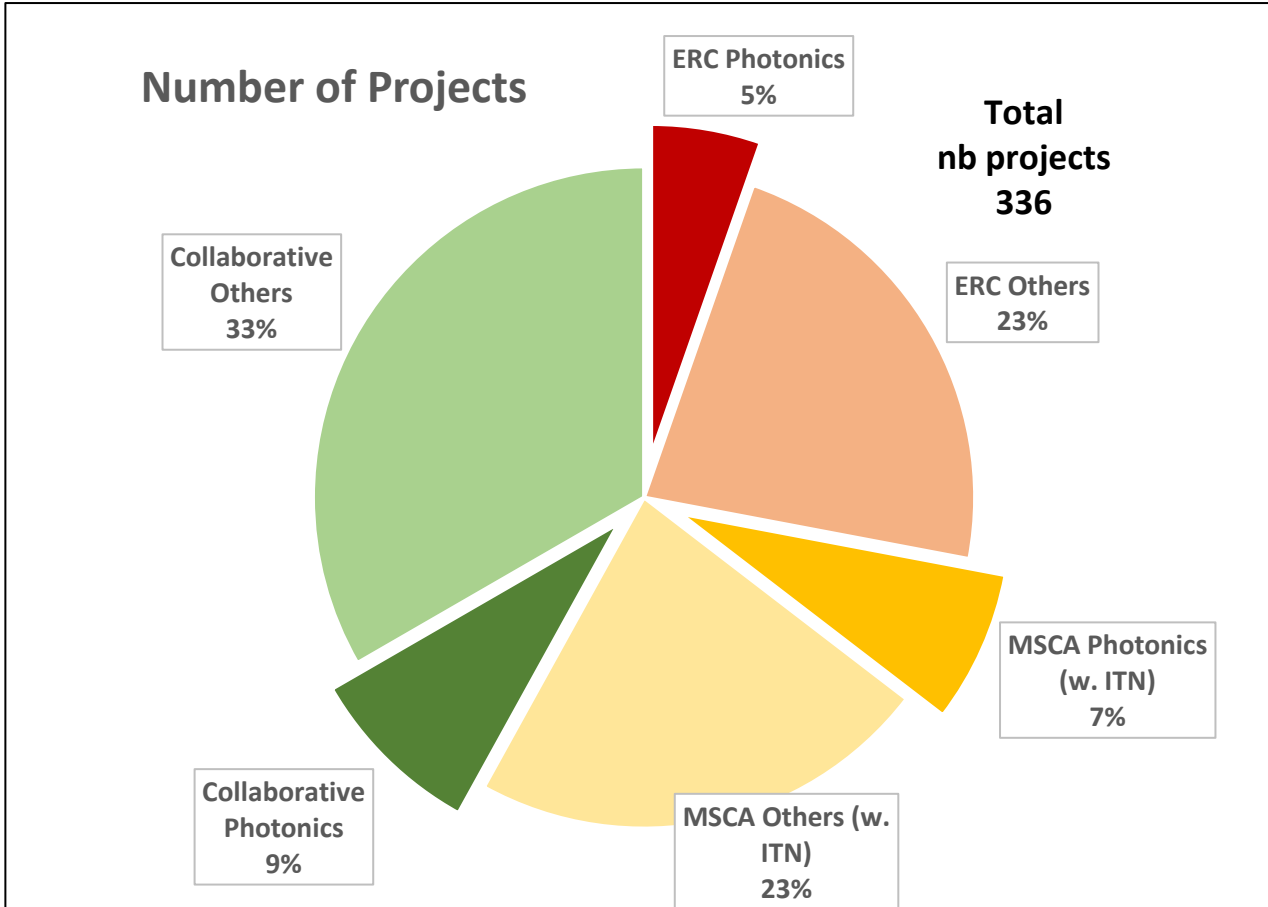
	Total grant	% of total CH grant	EU League	Turnover
ETHZ	284 M€ *(~ 20 M€ SERI)	19,7%	8 <sup>th</sup>	950 MCHF
EPFL	281 M€ (~ 20 M€ SERI)	19,5%	9 <sup>th</sup>	1800 MCHF



# Photonics H2020 Projects @EPFL

**Definition of Photonics project:** Development of Photonic Technology (including photovoltaic) or Extensive Use of Photonics as KET

**18% of total grant for Photonics projects**



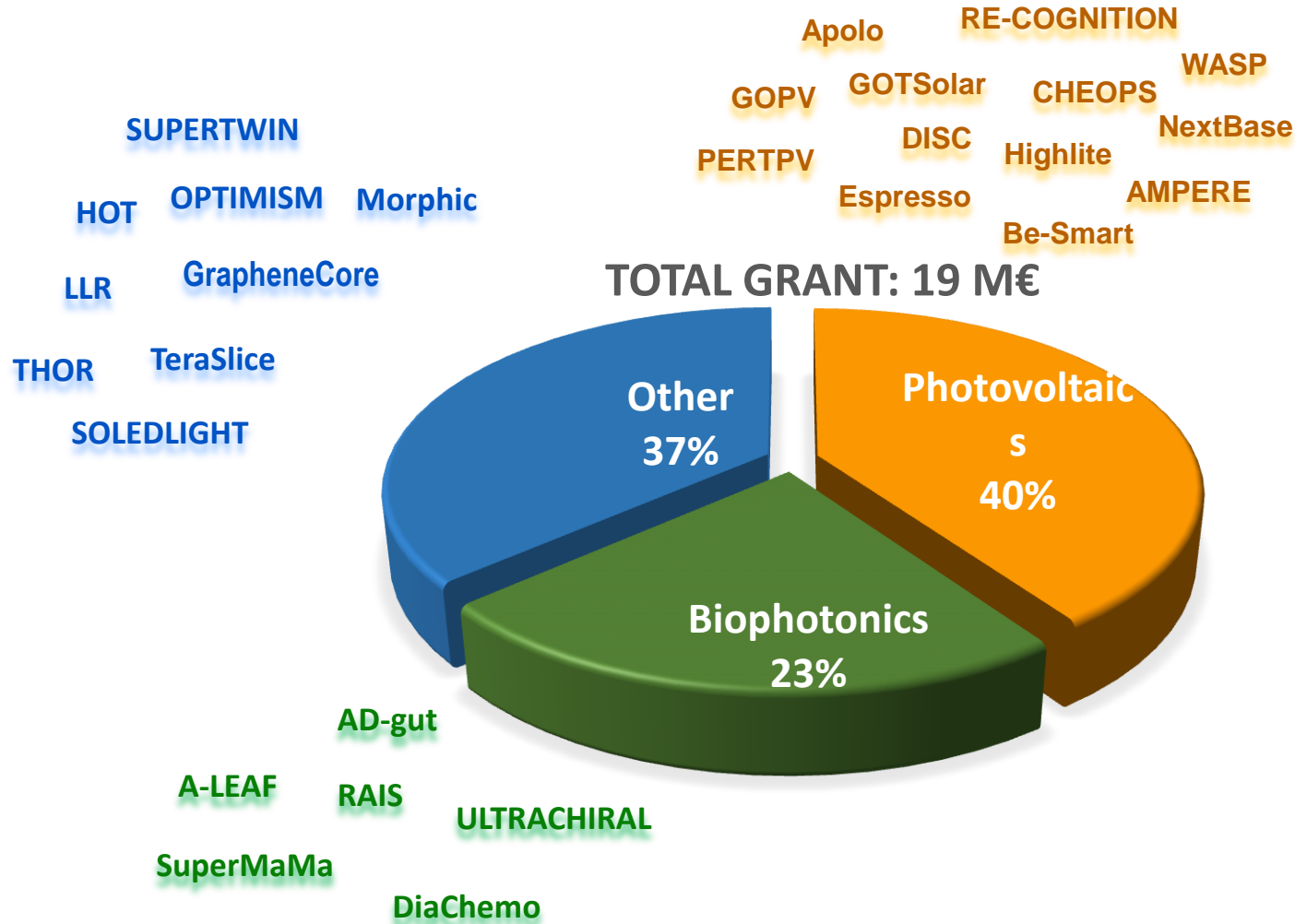
**21% of projects related to Photonics**



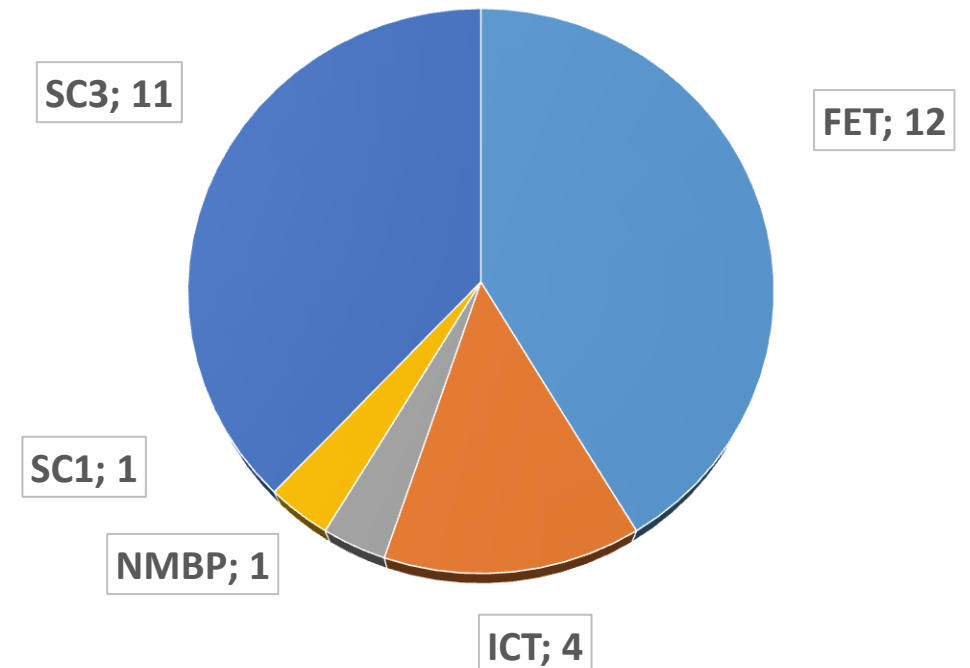
# Photonics H2020 Projects @EPFL

## Collaborative Projects

**Definition of Photonics project:** Development of Photonic Technology (including photovoltaic) or Extensive Use of Photonics as KET



Number of Projects



Of which only 2 from Photonics21 Call( text)s!

# Photonics in Horizon2020 analysed by Tematys

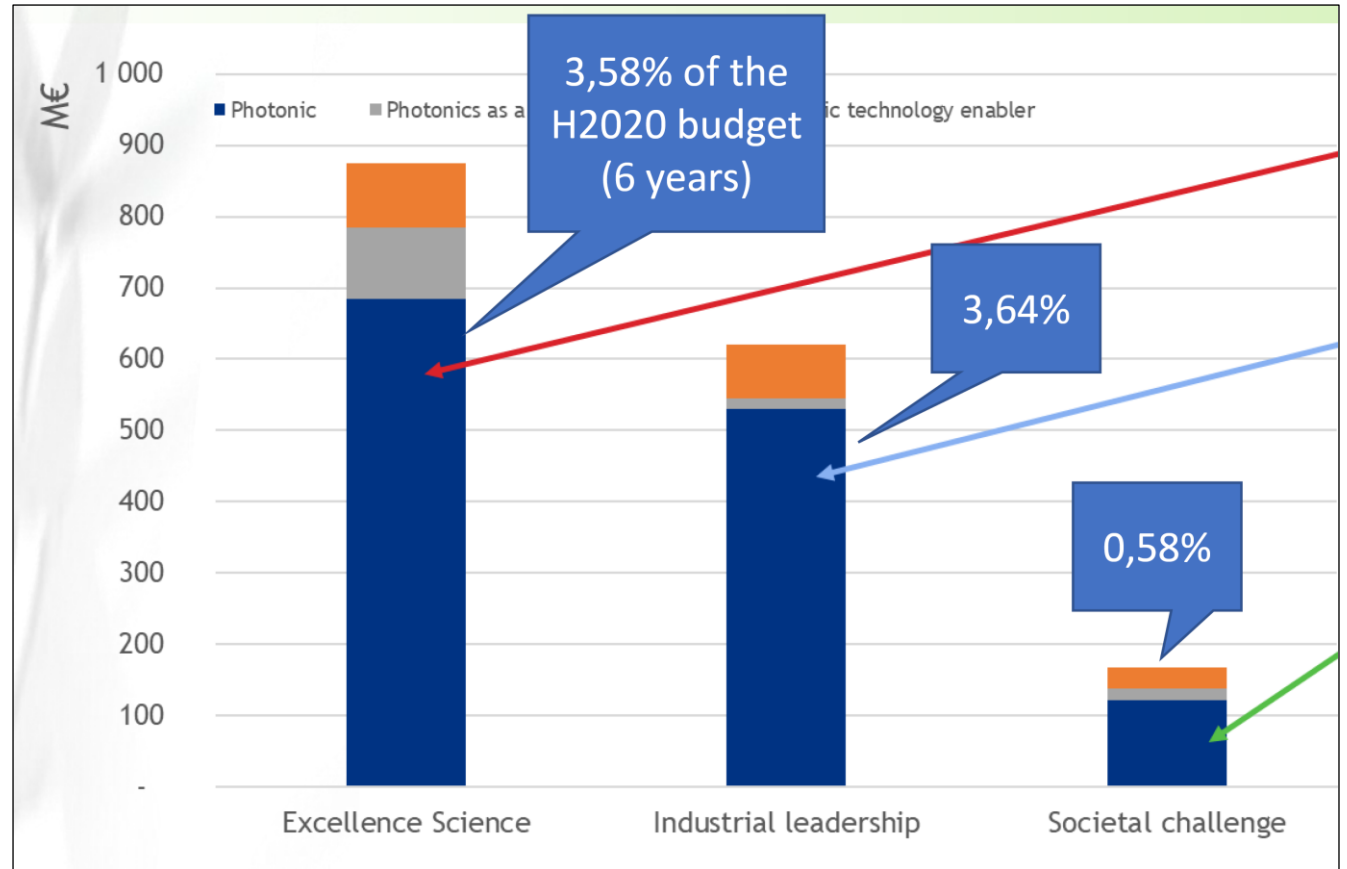


**Study realised in 2017**

- Last modified: May 19, 2017
- Grant allocated: ~ 23 B€  
→ 30% of total





Third pillar  
Societal Challenge is  
underexploited by the  
Photonics field



# Photonics in Horizon Europe

## Proposed Partnerships for Horizon Europe related to Photonics (out of 44)

	Horizon Europe Partnership	Type	Pillar II (Cluster)	Similar in H2020
9	Key Digital Technologies	A187**, CP*	1,2,4,5	
12	<b>Photonics Europe</b>	CP*	1,2,4,5,6	
15	Made in Europe	CP*	1	Factory of the Future

\*CP (Co-programmed); \*\*Article 187 of the Treaty of Functioning of the EU

Partnership apparently not proposed for HE: ETIP PV - The European Technology and Innovation Platform for Photovoltaics



Spreading of Photonics outside ICT more official



Even more emphasis put on innovation



More opportunities for Photonics SMEs

# Conclusions

1. ETHZ and EPFL: Big players of Horizon 2020!
2. Photonics is present in about 20% of H2020's portfolio of EPFL!
3. Although not really true for EPFL, Societal Challenges are still largely underexploited by Photonics.
4. More opportunities for Photonics AND for SMEs in Horizon Europe
5. The participation of Photonics SMEs could be increased thanks to ETHZ and EPFL (together with Euresearch and Swissphotonics)

# THANKS!

SWISS PHOTONICS

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**EPFL**

**EPFL turns 50!**

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20% Swissphotonics