



H2020 Biophotonics ICT calls in 2016/17

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Presentation outline

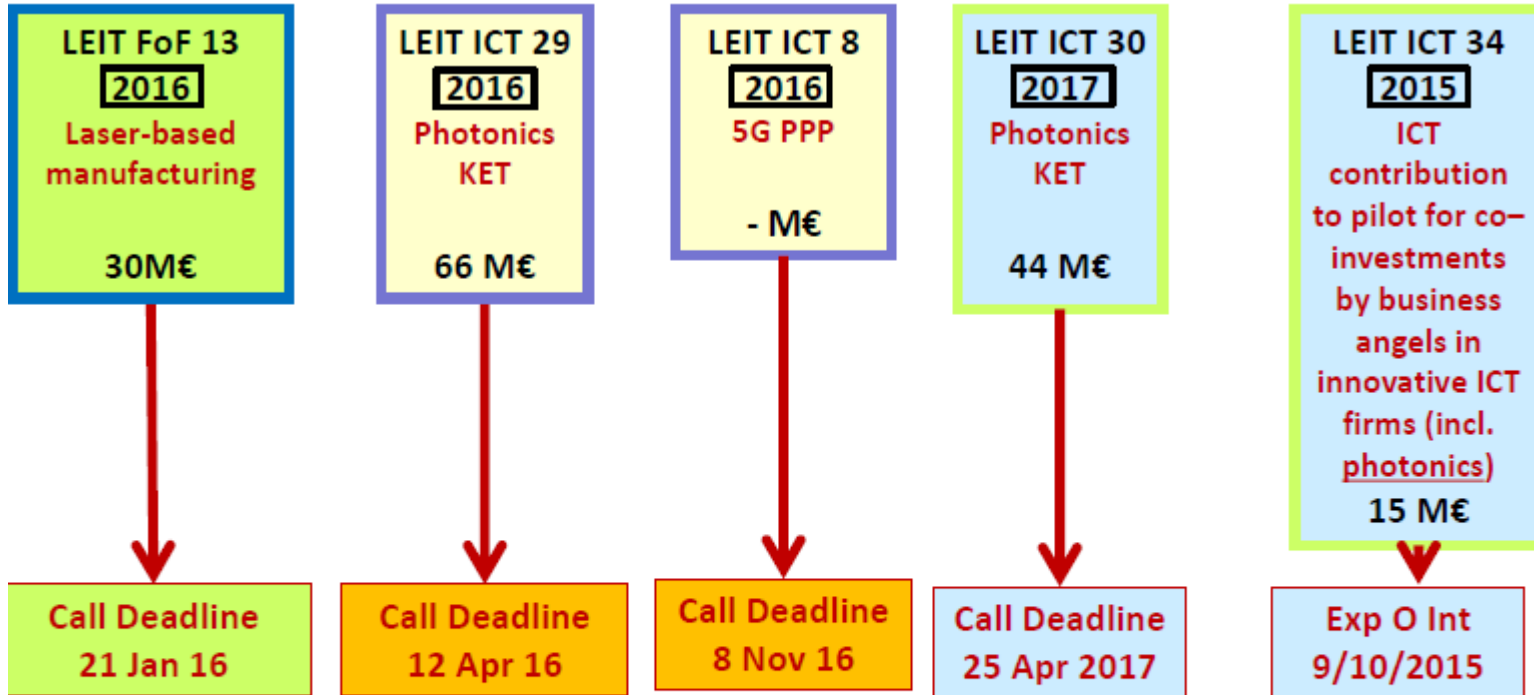
- Photonics ETP and PPP
- Overview of calls related to the Photonics PPP under Industrial Leadership (LEIT) priority
- Work Programme 2016-17:
 - Photonics in LEIT/ICT priorities in 2016
 - Photonics in LEIT/ICT draft priorities for 2017
- ICT 29 – 2016 Biophotonics RIA overview: Advancing imaging for in-depth disease diagnosis
 - Scope
 - Expected impact
- Follow-up: ICT 30 – 2017 Biophotonics IA

Photonics ETP and PPP



- Launch of the Photonics PPP on 17 December 2013 (Brussels);
- Photonics21 Platform:
 - More than 2500 members (representing >1000 affiliations) from all over Europe;
 - Balanced share of Industry, universities, RTOs, Associations, Clusters, National Technology Platforms;
 - Membership is free of charge & open to all;
 - Open, transparent and democratic structure and decision-making.

H2020 Industrial Leadership (LEIT) priority: Overview of Calls related to the Photonics PPP



H2020 Horizontal Action for 2016
FTIPilot-01-2016: Fast Track to Innovation Pilot
Action targeting Industry; 100M€
deadlines – 15 March, 1 June, 25 Oct 2016

WP 2016-17: Photonics in LEIT/ICT priorities in 2016



Photonics KET 2016: 66 M€		2016
Research & Innovation (40 M€)	<i>Biophotonics</i> : advancing imaging for in-depth disease diagnosis	
	Breakthrough in miniaturisation of <i>SSL light</i> engines and systems	
	Pervasive high-specificity and high sensitivity <i>sensing</i> for a safer environment	
Innovation (23 M€)	Microdisplay-based immersive, augmented and virtual reality <i>visualisation systems</i>	
	Pilot Line for Assembly and Packaging	
Coordination & Supp (3 M€)	Coordination of regional photonics strategies	
	Photonics enhanced MakerLabs	
PPP Factories of the Future 2016: 30 M€		2016
RIA (15 M€)	"From design to piece" –Excellence in laser-based additive industrial manufacturing	
Innovation (15 M€)	Rapid individualised laser-based production	
PPP 5G in 2016: part of 40 M€		2016
Innovation (part of 40 M€)	Ubiquitous 5G access leveraging optical technologies	

WP 2016-17: Photonics in LEIT/ICT draft priorities for 2017



Photonics KET 2017: 87 M€		2017
Research & Innovation (41 M€)	Agile Petabit/s Optical Core and Metro Networks	
	Photonic integrated circuit (PIC) technology	
	Disruptive approaches to optical manufacturing by 2 and 3 D opto-structuring	
Innovation (43 M€)	An Innovation Incubator for SMEs	
	Biophotonics: imaging systems for in-depth disease diagnosis	
	Sensing for process and product monitoring and analysis	
Coordination & Supp (3 M€)	Supporting the industrial strategy for photonics in Europe	

ICT 29 – 2016 Biophotonics RIA: Advancing imaging for in-depth disease diagnosis



SCOPE:

- The objective is to develop innovative, compact, easy to operate non- or minimally invasive **functional imaging** systems that are multi-band and multimodal (including photonics in combination with non-photonics techniques) to support the **in vivo diagnosis** of age and life-style related diseases like cancer, cardiovascular, osteoarticular, eye diseases and various neuro-pathologies, **after a positive screening**
- The imaging system must be either **label-free or based on already/rapidly safety-approved labels**, and should either address **unmet medical needs** or support a diagnostic approach which is significantly superior to existing approaches.

ICT 29 – 2016 Biophotonics RIA: Advancing imaging for in-depth disease diagnosis



EXPECTED IMPACT:

- Substantially improved in-depth diagnosis and more effective treatment of age and life-style related diseases;
- Secured and reinforced industrial leadership in the biophotonics related market for Analysis and Diagnostic Imaging Systems.

ICT 30 – 2017 Biophotonics IA: Core photonics devices integrated in imaging systems for in-depth disease diagnosis



- Follow-up of ICT 29 – 2016 Biophotonics RIA
- TRL 7-8, closer to the market
- 6-8M€, 70 % subvention + 30% private financing
- Business plan should be more detailed and mature

Questions?



<http://www.pole-optitec.com>

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