

# Innovation opportunities in H2020 for developing partnerships between industrial providers and synchrotrons

---

S. Niessen & J.P. Caminade

Ministry for Education, Higher Education and Research

DGRI-Department of Large Scale Research Infrastructures



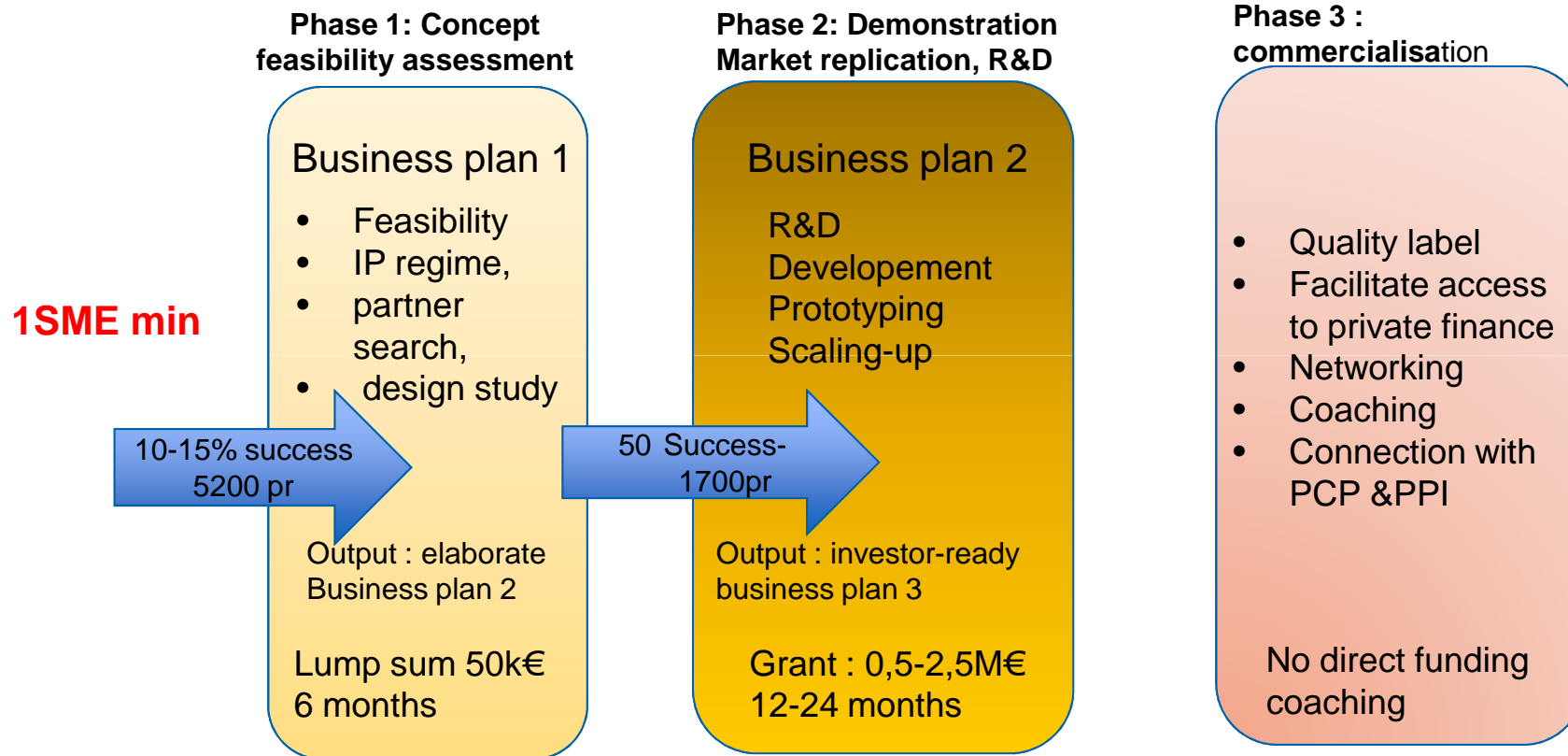
# Summary

- Instruments for innovation in H2020
- RI call on PCP-PPI in H2020 (RI-WP 14-15)
- Guidelines for the RI-WP 16-17

## Instruments for innovation in H2020

Tool	Sector	Pot Budget	Type of partners	Funding rate
Projects	All	/	all	70-50% (innovation) 100% (non profit org)
SME Instr	Societal Chal, LEITs	2,8 b€	SME (labs in subcontracting)	70%
FTI	Societal Chal, LEITs	100M€ (2015)	All (major private sector)	70% (co-fund) 100% (CSA)
PCP PPI	e-Health, ICT, security, Infra E-Health, ICT, transport, Infrastructures	130-140M€ (2014-2015)	Public procurers & labs	70% (Co-fund) 20% (Co-fund)
EuroStars II Eureka	All	1,14b€ Label	All	National rules
InnovFIN	All	24b€	Private sector	National rules

# SME Instrument : business innovation support from idea to market



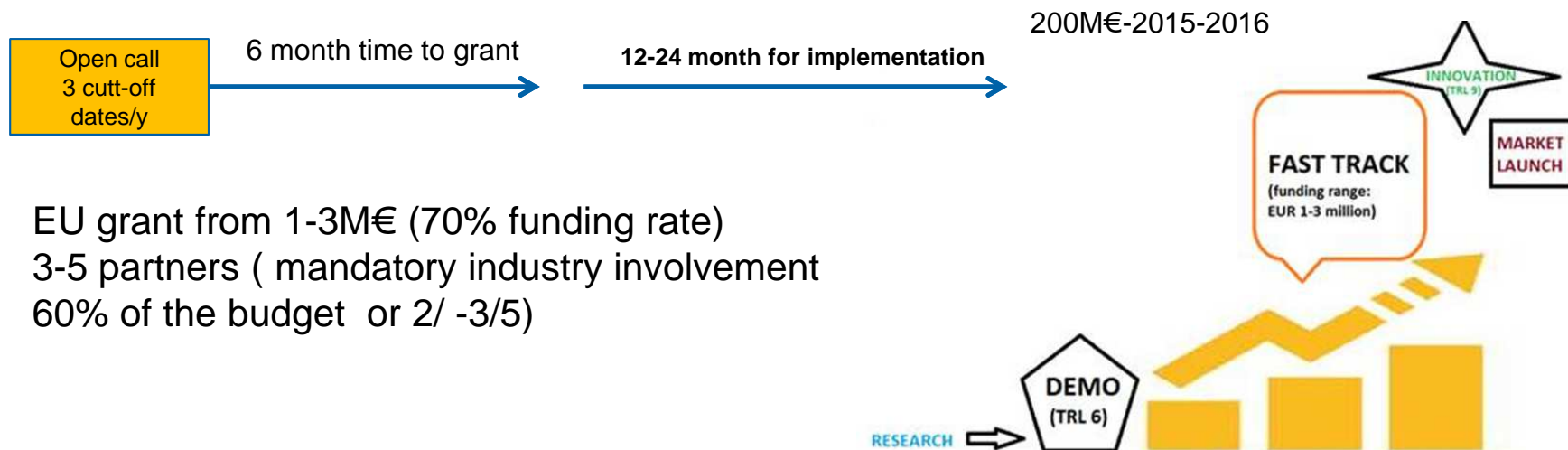
Open call (4 cutt-off dates) in SC & LEITs not allowed in INFRA

## SME instrument: Useful links

- Participant Portal :  
[http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/ftags/sme\\_instrument.html](http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/ftags/sme_instrument.html)
- Workprogramme: <http://ec.europa.eu/research/sme-techweb/pdf/SME%20Instrument%20in%20WP%202014-2015.pdf>
- EASME Executive Agency for Small and Medium-sized Enterprises  
<http://ec.europa.eu/easme/sme/> (Bernt Reichert)
- SME Techweb: <http://ec.europa.eu/research/sme-techweb>

# Fast Track to Innovation (FTI)

- Provides funding for bottom-up proposals for close-to-market innovation activities in any area of technology or application
- The aim is to:
  - reduce time from idea to market,
  - stimulate the participation of first-time applicants to EU research funding, and
  - increase private sector investment in research and innovation.



## FTI : Useful links

- Participant Portal:

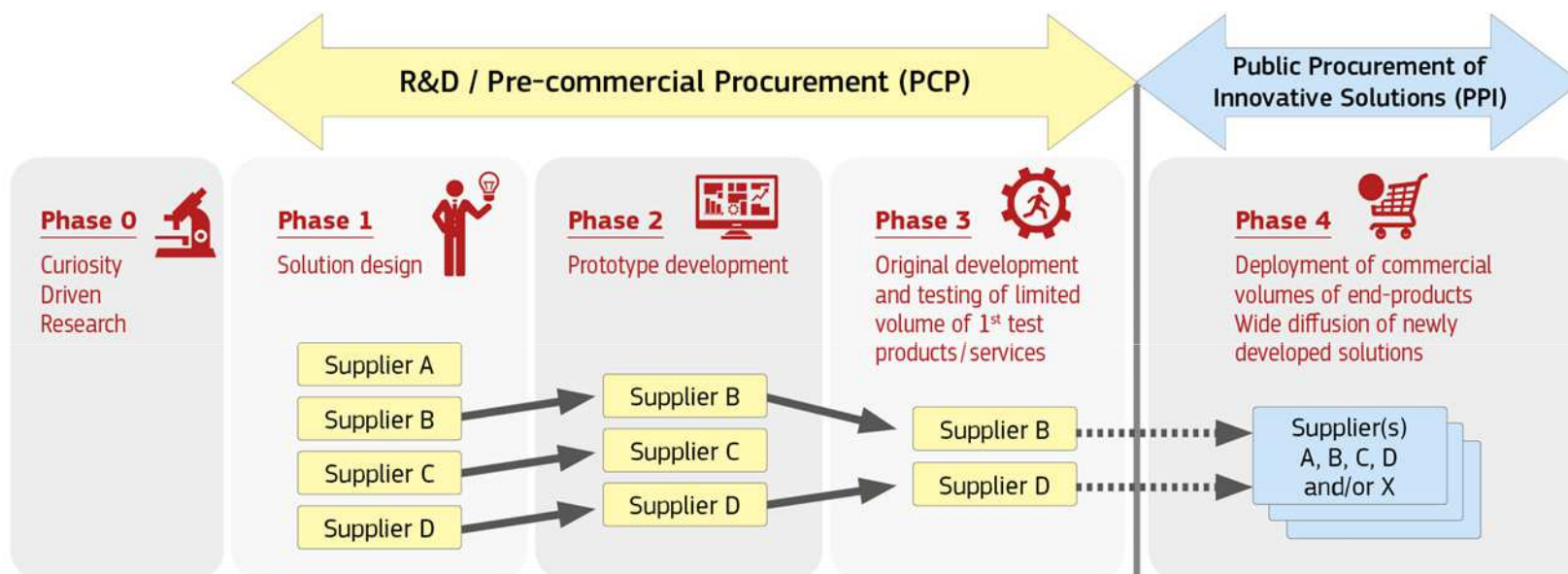
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/9096-ftipilot-1-2015.html>

- Work Programme:

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/main/h2020-wp1415-fast-track\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-fast-track_en.pdf)

- Contact point: [samuel.maenhout@ec.europa.eu](mailto:samuel.maenhout@ec.europa.eu)

# Pre-commercial Procurement (PCP), Public Procurement of Innovative solutions (PPI)



PCP : public procurement of R&D services to steer the development of solutions towards concrete public sectors needs

PPI: public procurement of innovative solutions/products, acting as launching customer/first buyer of innovative commercial end-solution newly arriving on the market



## PCP-PPI: 2014-2015 Horizon 2020 /budget 130-140 M€

- 9 areas have calls to cofund **PCPs** (1 in e-Health, 6 in ICT, 1 in security, 1 in research infrastructure)-cofund Actions (70% funding rate)
- 6 areas have calls to cofund **PPIs** (1 in e-Health, 3 in ICT, 1 in Transport, 1 in research infrastructure) cofund Actions (20% funding rate)
- 11 areas have calls to support networks of public procurers preparing future PCPs/PPIs (1 in bio-economy, 4 in Energy, 2 in Climate, 2 in ICT, 1 in security, 1 in research infra (CSA-100% funding rate)
- 3 independent legal entities /3 member states (or associated) - min 2 public procurer from 2 countries)

## WP- 14-45: INFRASUPP 2: Innovative procurement pilot in the field of scientific instrumentation (deadline 21 /04/2015)

### a. Feasibility studies (CSA)

- focus on analysing /exploring the use of PCP /PPI for common purchasing operations of a set of research infrastructures.
- can include analysis of the state of the art and of the market offer.

### b. Pre-commercial procurement in the field of scientific instrumentation (PCP cofund )

- define requirements and terms of reference for common procurement of scientific instrumentation
- organize joint PCP action encouraging R&D and validation of breakthrough solutions that can bring radical scientific and efficiency improvements in RI services.

### c. Public procurement of innovative scientific instrumentation (PPI cofund )

- organizing joint procurement by RI

**Budget: 14M€**

## PCP-PPI: Useful links

- <http://www.innovation-procurement.org/>
- <https://procurement-forum.eu/>
- Where can I find PCP-PPI calls? <http://ted.europa.eu>  
or national tender platforms

### Examples

Networks : Sustainable cities (<http://www.sci-network.eu>)

Happi- Healthy Ageing ( <http://www.happi-project.eu>)

PCP: CHARM Traffic management :

[http://www.rws.nl/en/about\\_us/business\\_opportunities/charm\\_pcp/index.aspx](http://www.rws.nl/en/about_us/business_opportunities/charm_pcp/index.aspx)

PPI : Silver economy: Stop&Go ( <http://stopandgoproject.eu>)

## Eurostars II

- Promotes transnational market-oriented innovation of R&D performing SMEs
- Consortia: at least 2 participants from 2 Eurostars countries (34)
- Leader SME + other private or public partners
- Funding on national basis (see website)
- <https://www.eurostars-eureka.eu/>

## INNOVFIN

- EIB Group : European Investment Bank (EIB) and the European Investment Fund (EIF)
- EIB: SME guaranties, loans
- EIF : guaranties , Venture capital
- EU access to finance portal : <http://europa.eu/youreurope/business/funding-grants/access-to-finance/>

# Coming next

## ■ 2016 and 2017 WP for RI

(from the draft proposed by the EC on 13 March 2015)

## Strategic orientations for the RI WP 2016-17 : what's new ?

- A **strategic approach** with more attention to the **contribution to the current political priorities**, including **to the Juncker agenda** for Jobs, Growth, Fairness and Democratic Change
- More **integration** with **other parts of Horizon 2020**, in particular the Societal challenges, to exploit synergies and complementarities, and address their identified gaps
- New and reinforced **emphasis on innovation, sustainability and data exploitation** throughout all programme, in particular in actions for advanced communities and established pan-European research infrastructures
- Support to **large scale initiatives for innovation**
- **New approach** for **integrating activities** with different processes for Starting and Advanced Communities
- **a budget cut of € 105 million (from 2,488 to 2,383) due to the Juncker Plan**

# Research Infrastructures calls on WP 2016-2017

## *5 lines of Calls*

1. Long term sustainability of pan-European RIs (140M€)
2. Integrating and Opening RIs of European Interest (200M€)
3. *e-Infrastructures (221M€)*
4. Support to Innovation (30M€)
5. Policy and International cooperation (11M€)

## Call 1 - Long term sustainability of new pan-European RIs

To facilitate and support preparation & implementation of the ESFRI and other world-class RIs, which will help Europe to respond to grand challenges in science, industry and society.

*Emphasis on long-term sustainability, efficient operation, data management and on fostering the innovation potential*

1. Design studies
2. Preparatory Phase of ESFRI projects
3. Individual support to ESFRI projects and other WCI
4. Support to a European Research and Science Cloud

**Deadlines: 30/03/16 (2+3), 22/06/16 (4), 29/03/17 (1) 140M€**



## Call 2 - Integrating and opening RIs of European interest: *Integrating Activities*

To open up **key** national and regional research infrastructures to all European researchers and to ensure their optimal use and joint development:

- **Advanced Communities:** RIs showing an advanced degree of coordination gained through previous IA grants

*One stage call. Targeted approach based on a Multi-Annual Plan (MAP)*

*Emphasis on **innovation** aspects (e.g. knowledge and technology transfer, knowledge sharing through co-creation, i.e. joint development of high-tech components and solutions, promotion of RI use by industrial researchers), on **widening** trans-national and virtual **access** provision, and, **in particular for "super advanced" communities (= those which have had at least 3 previous contracts)**, on addressing the **sustainability** of the integrated RI services provided at European level through, e.g., the **involvement of funders and the preparation of a business plan beyond the end of the project.***

- **Starting Communities:** never supported for their RI integration under EU-FP

*Two-stage call. Bottom-up, mentioning gaps identified by other parts of H2020  
Emphasis on **networking**, **standardisation** and **common access procedure***

**Deadlines : 30/03/16 (AC and SC first stage) 200M€**

## Call 3 - e-infrastructures

- **Integration and consolidation of e-infrastructure platform supporting European policies and research and education communities**
- **Prototyping innovative e-infrastructure platforms and services for research education communities, industry and citizen at large**
- **Support to policies and international cooperation**
- **GEANT Partnership projects (FPA)**
- **Computing /storage e-infra for the Human Brain Project FET**
- **Prize for e-infrastructures service innovation**

**Deadlines not yet available**

**221M€**

## Call 4 – Fostering the innovation potential of Research Infrastructures

Support **PCP/PPI** or other financial co-funding scheme that would effectively enable synergies amongst the RI, academia and industry (inc. SMEs) through co-innovation.

- **1/ Pilot initiative** for fostering co-innovation for future detection and imaging technologies addressing medicine, manufacturing, aerospace & engineering activities in Europe (up to 20M€);
  - Identify wide spectrum of techno opportunities
  - Support techno and innovation transfer
  - Enabling best conditions for full exploitation by industrial partners
- **2/ Support actions (~half a dozen ?) devoted to the coordination and networking of technological infrastructures which :**
  - Provide R&D platforms on key technology for future worldwide RIs
  - Allow to develop a partnership with industry and SMEs
  - Set strategic priorities for each key technology.

**Call deadlines : 29/03/2017 20M€ (1), 10M€ (2)**

# Timetable towards the adoption of the Work programme 2016-2017

## 2015

Jan – May	<b>Preparation of draft WP parts</b>
13 March	<i>Draft RI WP text, including the MAP</i>
26 March	<i>Deadline for RI PC Members' initial feedback</i>
15 April	<i>New version before next PC meeting</i>
30 April	<i>Discussion at the PC meeting</i>
4 May	<b>Final Draft WP parts submitted to coordination Unit</b>
June	<b>Inter-service consultation</b>
July	<b>Opinions of PC configurations</b>
September	<b>Preparation of written procedure for the adoption</b>
End of September	<b>Adoption of the WP for 2016-2017 + publication of the calls for proposals</b>



■ Thank you for your attention

Any questions?

# Additional slides

## Call 5 - Policy and International cooperation

- **Coordination of national bodies/agencies involved in the evaluation of RIs; promotion of joint work to exchange best practises, develop guidelines for ex-post evaluation and monitoring mechanisms as well as to foster joint evaluation exercises, synchronising funding cycles**
- *Support the development of a sustainable and comprehensive database targeted at policy-makers on Research Infrastructures of more than national relevance in Europe (?)*
- **INCO actions** in areas selected taking into account the INCO strategy incl. science diplomacy (e.g. SESAME, global research infrastructures)