Objective 3.5:

Core and Disruptive Photonic Technologies

DG INFSO Photonics Unit

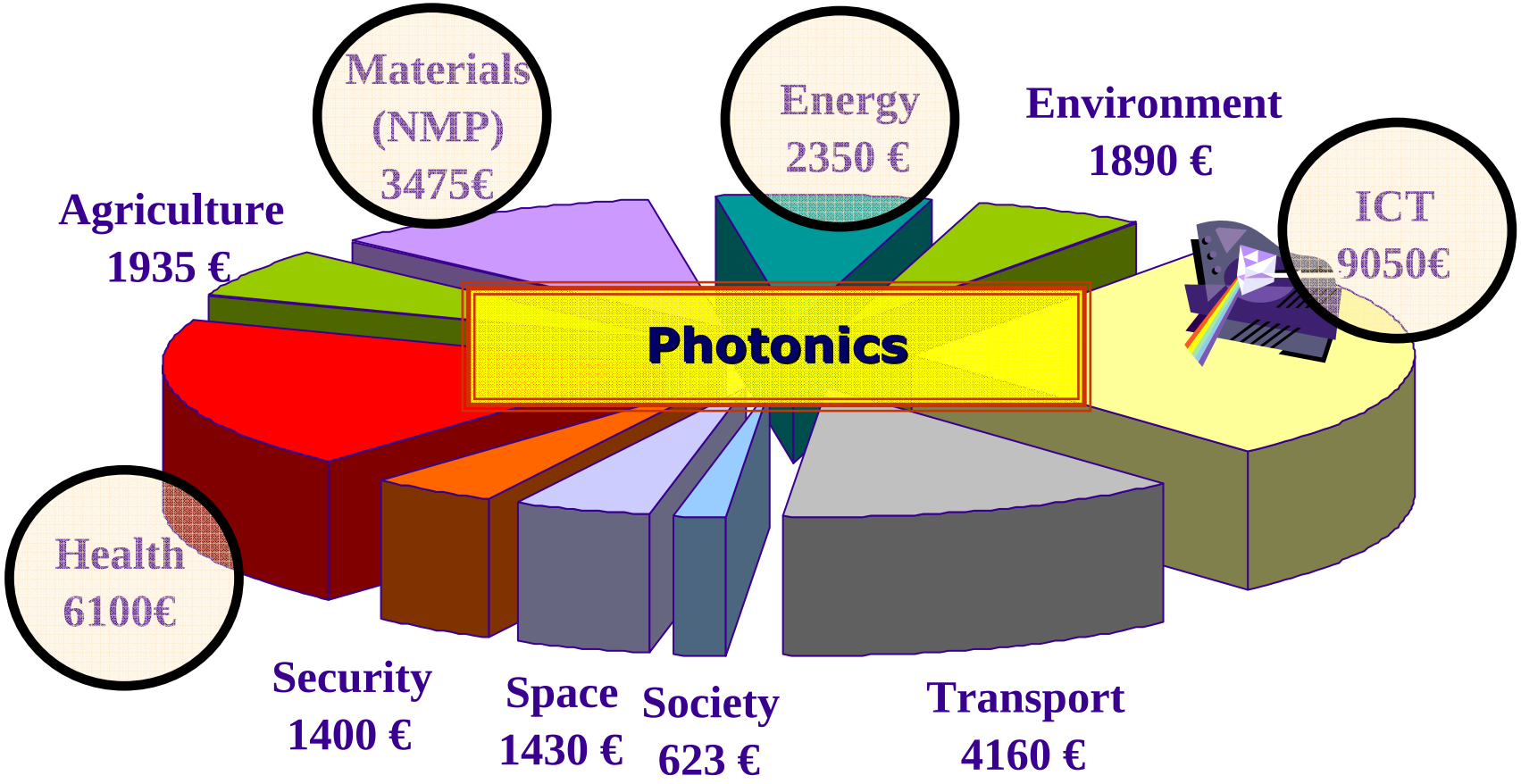
Bart Van Caenegem

Project Officer

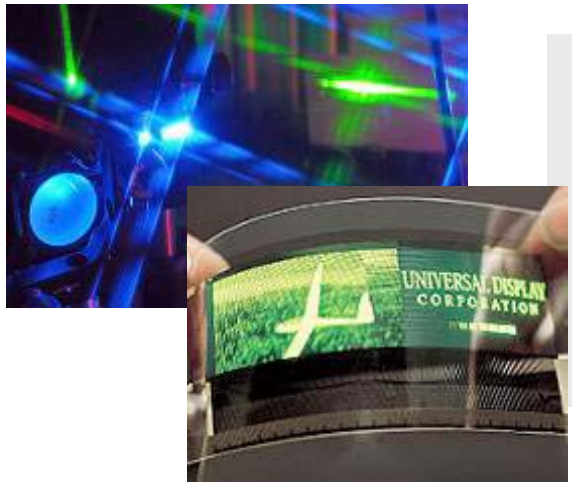
Photonics Research in the EU

FP7: cordis.europa.eu/fp7

Budget for 10 thematic areas in the cooperation programme (2007-2013): 32,4 B€



ICT WP 2011-2012
Priorities for Photonics and OLAE



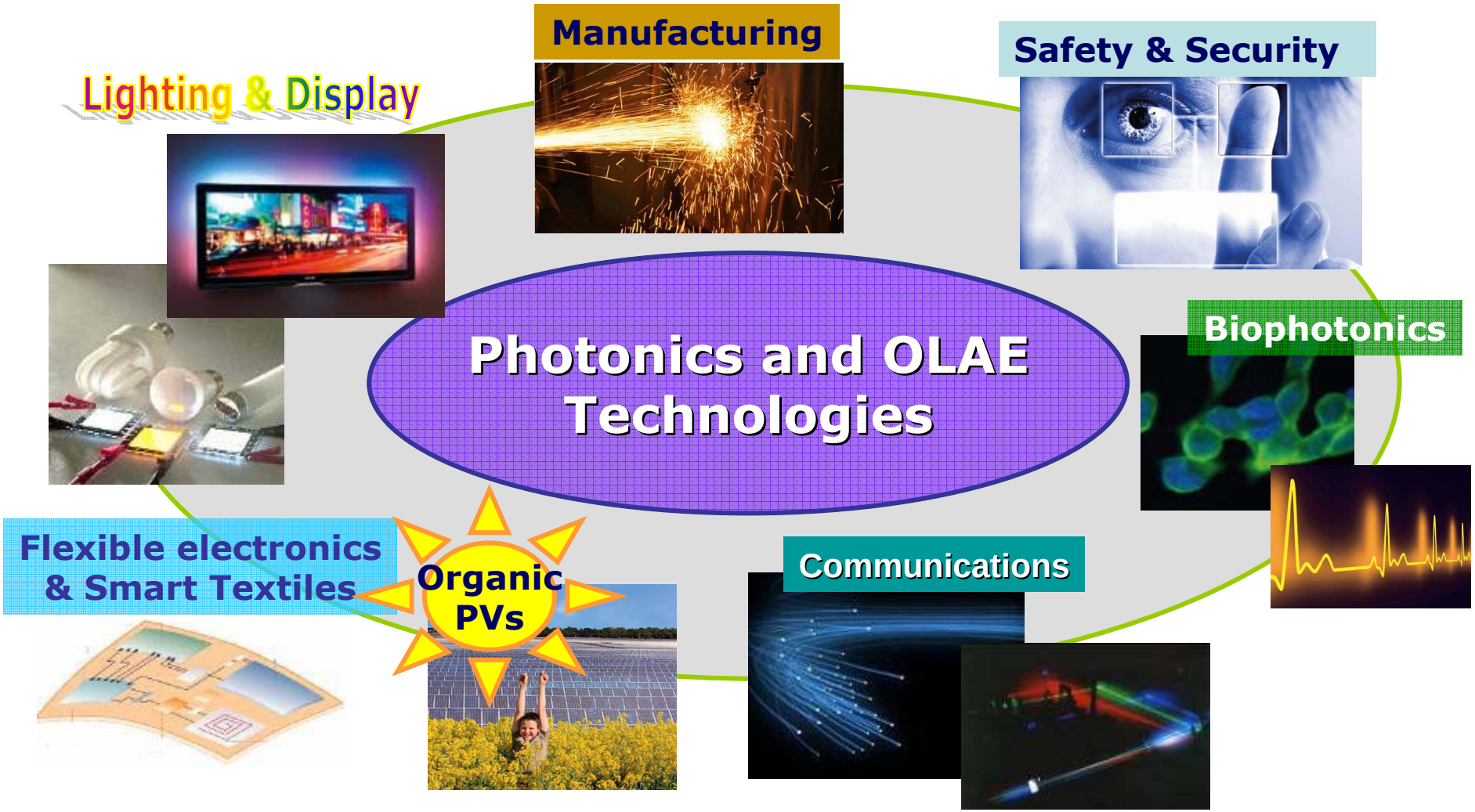
- Reinforce European strengths in key application sectors and technologies
- Create breakthrough advances for new products and markets

Supplemented by actions to:

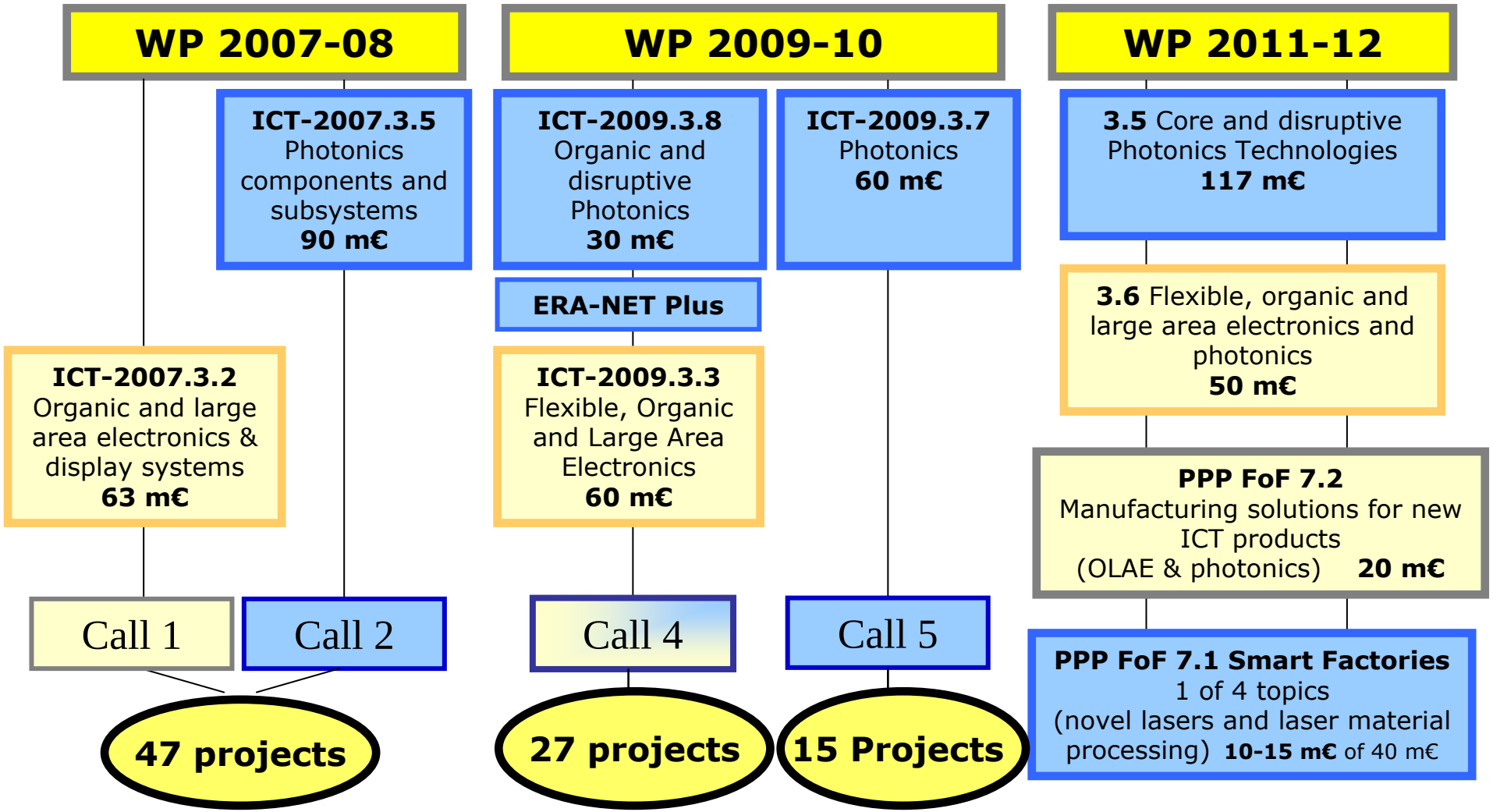
- Foster cooperation with Member States and support coordination of innovation clusters, national platforms and Photonics21 ETP
- Support SMEs, and training & education leading to a competitive advantage of European photonics and OLAE industry

Photonics and OLAE in FP7:

89 R&D currently running projects
Budget 300 M€



Photonics and Organic & Large Area Electronics: FP7 budget evolution



ICT WP 2011-12 Challenge 3
Objective 3.5 "Core and Disruptive Photonic Technologies"

Call 8, opens 20 July 2011, closes 17 Jan 2012, 79 M€

a) Core photonic technologies

Application-specific photonic components & subsystems for:

1. Optical data communications
2. Biophotonics for early, fast and reliable medical diagnosis of diseases
3. Imaging & sensing for safety and security
4. Lighting and displays

Cross-cutting technology:

5. Photonics integration platforms

IP

Call 8, 2011
IP + STREP
79 M€

b) Disruptive photonic technologies → Call 7, 2010, STREP, 20 M€

c) ERANET-Plus action → Call 8, 2011, EN+, 10 M€

d) Pre-Commercial Procurement action → Call 8, 2011, CP-CSA, 3 M€

e) Coordination and Support actions → Call 7, 2010, CSA, 5 M€

Objective 3.5
d) Pre-Commercial Procurement (PCP)

NEW

Call 8, opens 20 July 2011, closes 17 Jan 2012, 3 M€

PCP action in Photonics

CP-CSA

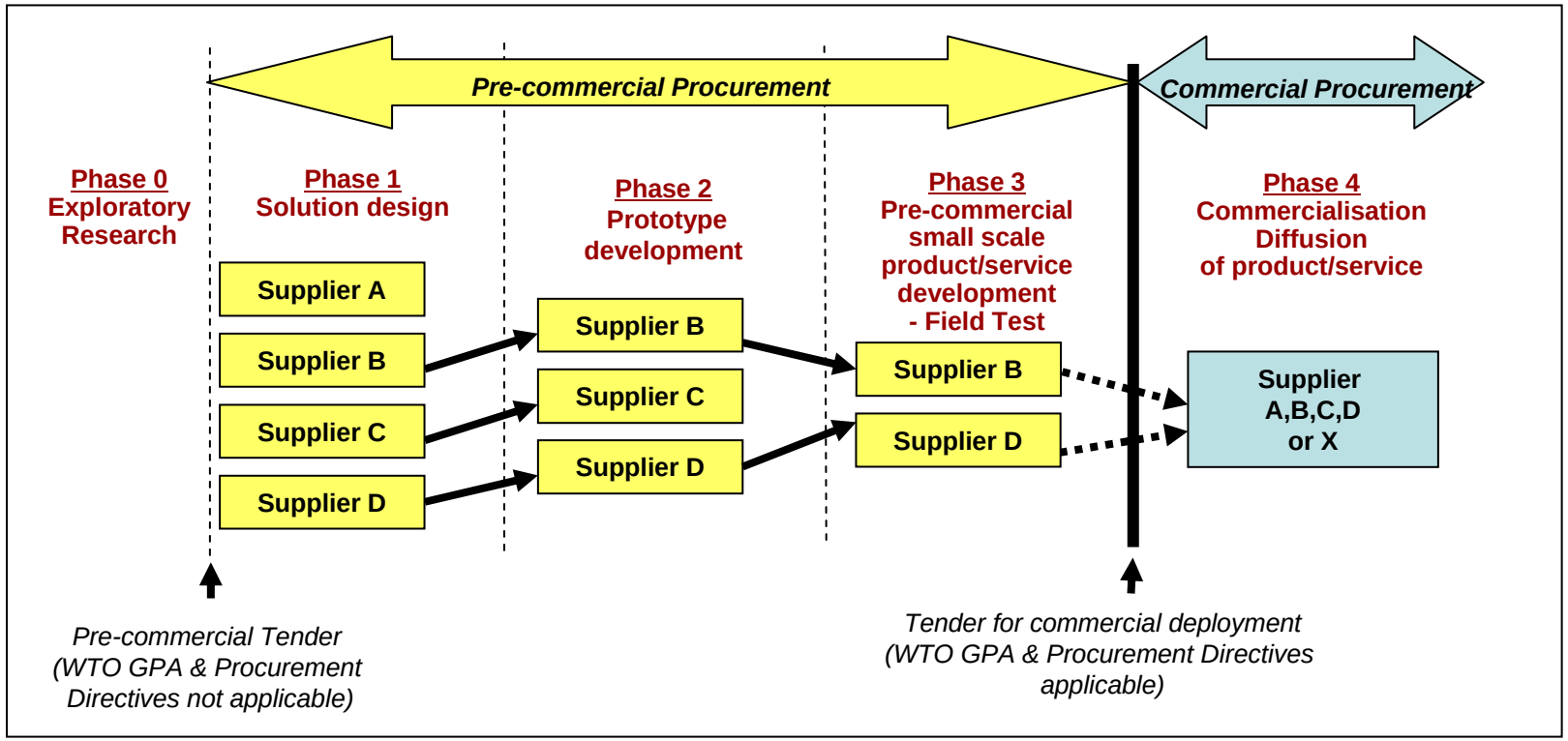
Aim: To achieve significant quality and/or efficiency improvements to public sector challenges through innovative photonics-based solutions

Expected Impact: accelerate the introduction of advanced photonic technologies and applications on the European market

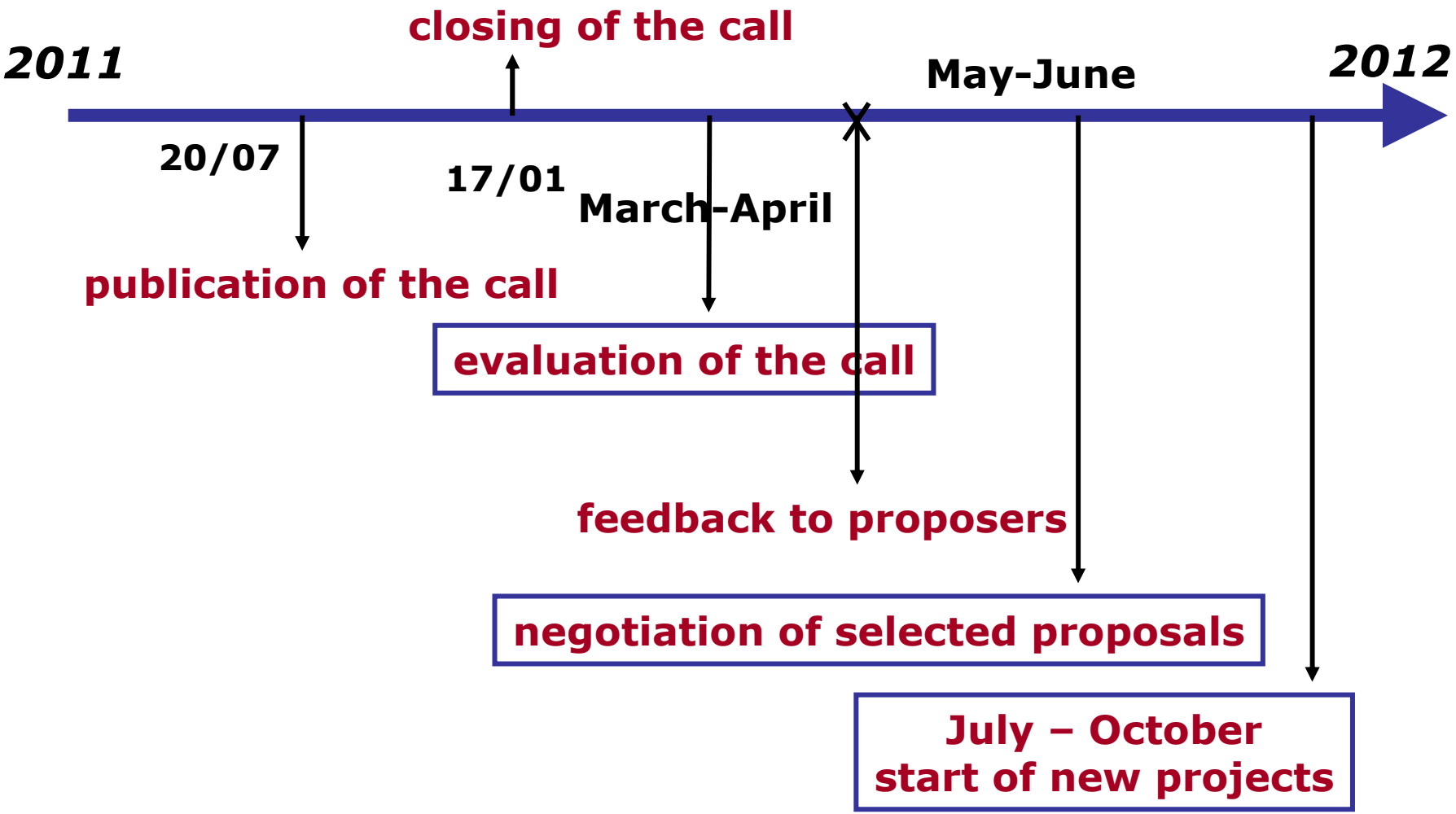
A PCP action supports cooperation between public sector bodies to define together the mid-to-long term solution requirements and to procure **R&D services**, ensuring:

- Benefit and risk sharing between procurers and suppliers
- Competition and transparency in the procurement process
- Compliance with legal framework without entailing State Aid

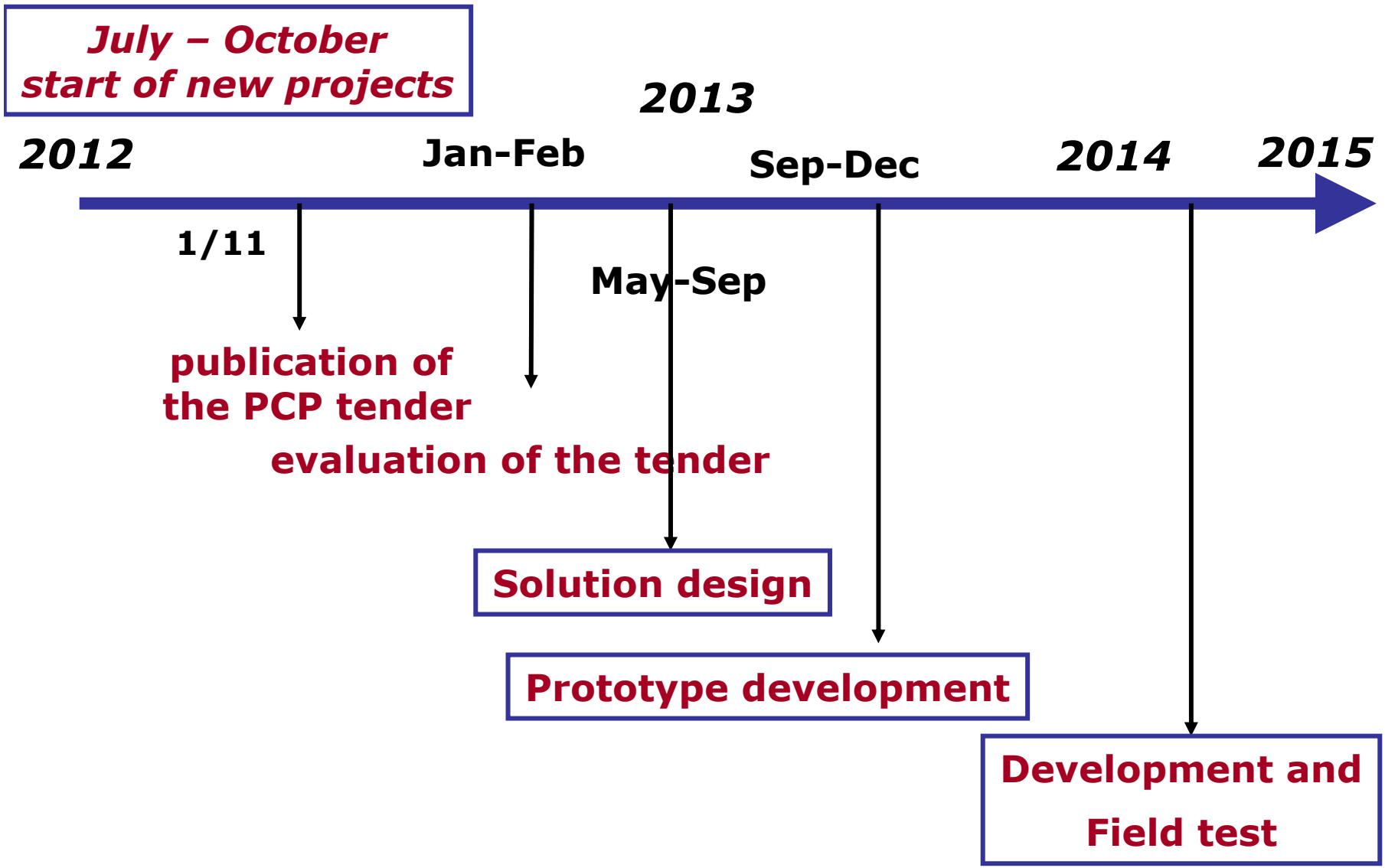
Objective 3.5
d) Pre-Commercial Procurement (PCP) (2)



Tentative timing of call 8



Possible timing of a PCP action



Potential application areas for a PCP action

Here are some potential areas or ideas for an action. However, don't be constrained by these examples!

- SSL lighting for an improved learning/school environment

2. High-bandwidth energy efficient broadband access networks

3. Biophotonics for food safety (reliable/fast detection of crop/animal diseases)

4. Environmental / weather monitoring

Photonics 21 and the Mirror Group scope for extra funding

- ***European Technology Platform Photonics21*** **bringing EU key photonics stakeholders together (>1800 members, 50% industry);**
- **Updated strategic research agenda (SRA) for photonics delivered in January 2010**
- **European share in Global Market increasing**

European Photonics industry leader in several key photonics sectors: communications, lighting, health, manufacturing, security

- **http://www.photonics21.org/**

Photonics 21 and the Mirror Group scope for extra funding

Objectives

- **Support the implementation of the Photonics21 strategic research agenda**
- **Exchange best practice and promote photonics in national research programmes**
- **Create better alignment and co-operation between European and national R&D programmes**

Participants

- **Representatives from government ministries and funding bodies from Austria, Belgium, Czech, Finland, France, Germany, Hungary, Ireland, Israel, Italy, Latvia, Netherlands, Norway, Poland, Spain, Sweden, UK**

More information on objective 3.5

- General information about the calls:
  - On Cordis FP7 homepage:
    http://cordis.europa.eu/fp7/home_en.html
- Specific information on the photonic calls:
  - On Cordis Photonics homepage/calls:
    http://cordis.europa.eu/fp7/ict/photonics/calls_en.html
- Presentation «How to write a good proposal»:

  See Cordis Photonics homepage/calls