ICT PSP Information day
28 February 2011

Objective 1.1: Innovative lighting systems based on Solid State Lighting (SSL)

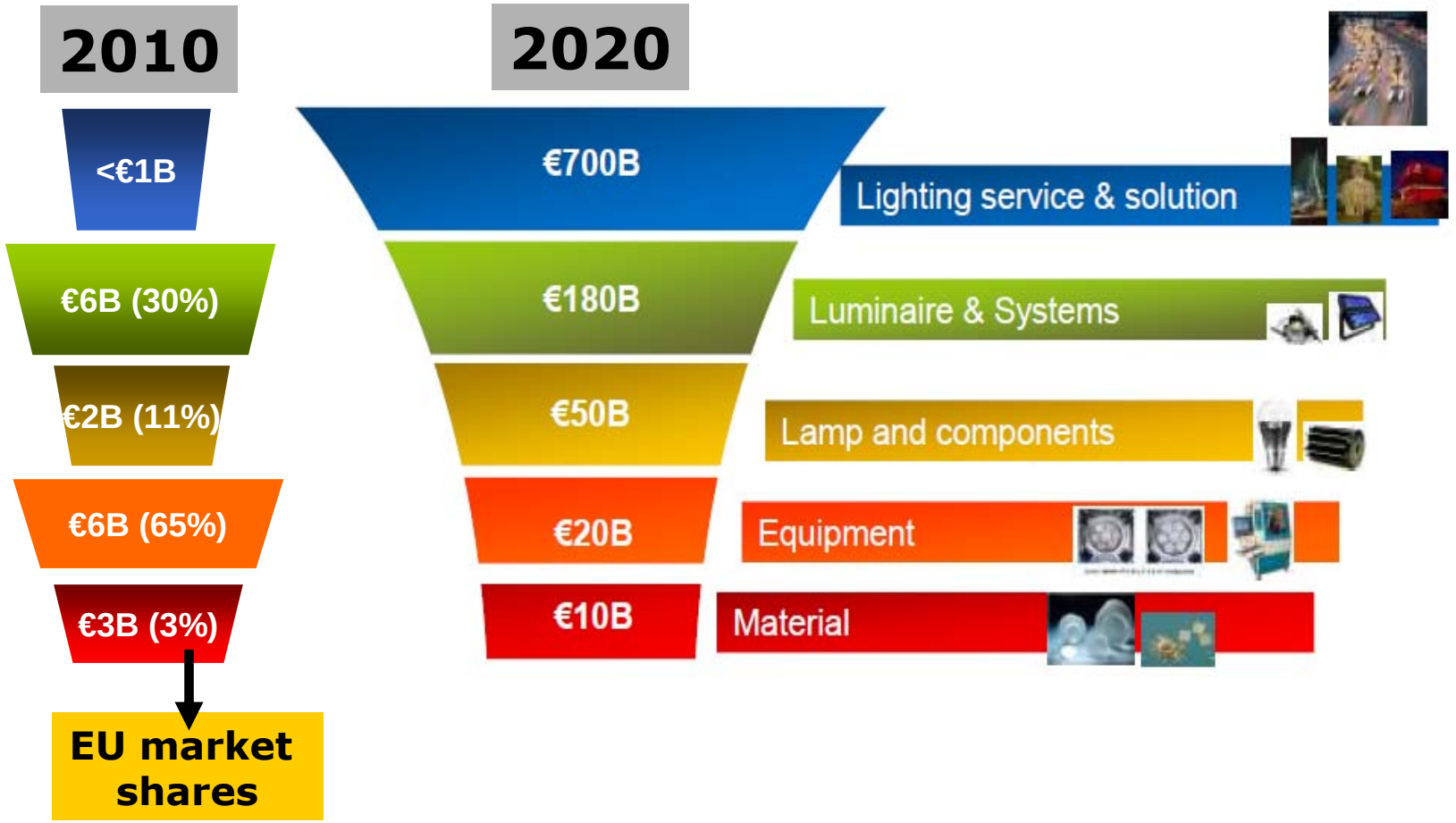
John Magan / Gabriella Leo
Photonics Unit,
European Commission

Digital Agenda for Europe

Why SSL pilots?

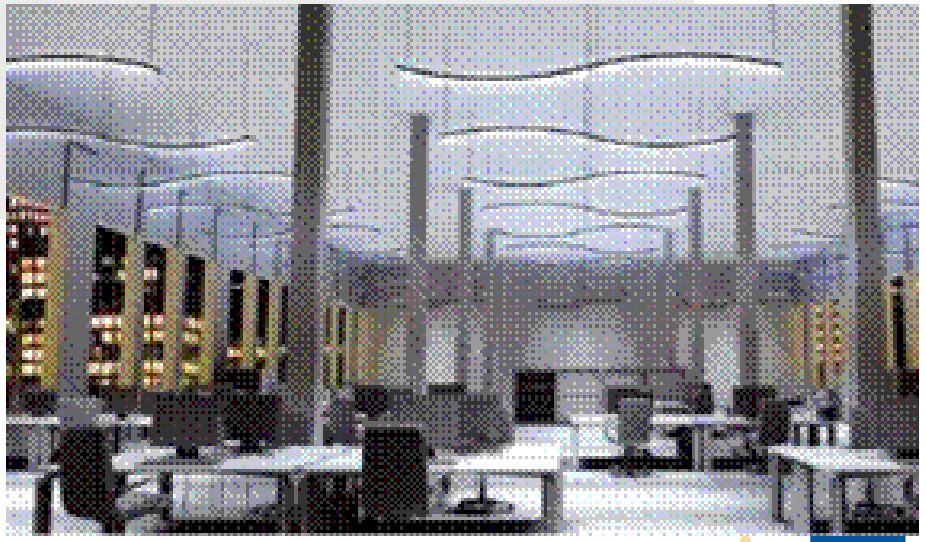
Strengthening the Value Chain

SSL Global Markets in 2010 and 2020



Solid State Lighting - Objective 1.1 under the ICT PSP Workprogramme 2011

- **Pilot Actions for stimulating innovation and competitiveness and for developing EU-wide markets**
- **Actions → technology deployment and demonstration (not research!)**
- **Target → user communities!**



2 to 3 pilot actions for up to 10M€ EU contribution in total

SSL pilot actions – what?

Characteristics:

- A broad range of general lighting applications
- Reliable data on energy and economic savings
- large scale demonstration in different environments and settings
- maximise impact and visibility to European citizens
- 2-3 demonstration projects is preferred to a single large one
- Network between these projects for broad EU-wide awareness and maximum impact.
- Involve relevant SSL players in the full value chain, including end-users.
- refurbishment of existing infrastructure, rather than installation in new buildings.
- Focus on commercial/non-residential sector rather than domestic.
- Address BOTH improved energy efficiency AND better light quality.
- Showcase of the full exploitation potential of SSL technology, including its integration with intelligent lighting systems.
- test the performance of state-of-the art SSL products and intelligent light management systems in terms of total life-cycle costing, reliability, interoperability with facility management of buildings, etc.

SSL pilot actions – where?

Where should they take place?

- Anywhere in Europe necessary to achieve the requirements of the action. Given the expected scale and scope, and to maximise impact and visibility, possible locations include:
  - Airports
  - Public buildings
  - Museums
  - Commercial centres (e.g. shopping malls)
  - Retail outlets
  - Offices
- Pilots could address more than one of these in more than one location
- Each pilot should showcase or demonstrate a variety of SSL applications (e.g. in the main spaces, shops, restaurants, cafeterias, bars, parking)
- Signage or indication functions could also be incorporated.

SSL pilot actions – who?

Who can apply?

- All relevant players in the SSL "food chain": lighting and luminaire industry, architects and lighting designers, contractors/installers and end-users, including stakeholders and end-users from the public sector as appropriate.
- National and regional energy agencies should be involved in the dissemination of the results.
- The consortium must include at least four mutually-independent legal entities from four different Member States or ICT PSP Associated countries to be eligible for Pilot Type B.
- Non-MS/AS, Intl. Orgs. are not eligible for funding.

SSL pilot actions – expected size and duration

- Total costs 4M€ - 8M€ per pilot action (2M€ - 4M€ funding).
- The EC funding is up to 50% of the eligible implementation costs, to cover:
  - the additional initial cost of an SSL installation over a lighting installation based on non-SSL technology,
  - the validation of the energy savings and carbon footprint reduction realized,
  - the dissemination of the project outcome beyond today's standard practice, involving installers, citizens and users.
- Research activities are not funded; although, when needed, technical adaptation and integration work in order to achieve the objectives may be covered,
- Typical duration 3 years (but can be longer), including the design, installation and assessment phases, although the generation of longer-term data or results (on real energy savings, user perception etc.) should continue after that time. At least 1 year should be operational.

Smart lighting in public buildings: Objective 1.1 or Objective 1.2?

Objective 1.2: "ICT for energy efficiency in public buildings" could also address smart lighting. The correct Objective depends on the focus of the proposed pilot:

- If the main emphasis is on SSL and in showcasing its benefits when compared to traditional lighting,, then it should be submitted to **Objective 1.1**.
- If it includes smart lighting together with many other energy saving technologies (such as smart metering, power electronics, energy micro-generation, etc.) then it should be submitted to **Objective 1.2**.

ICT PSP 2011 - Timetable

- **28 Feb 2011: ICT PSP Call for proposals; infoday**
- **7 April 2011: SSL pilots workshop (Brussels)***
- **1 June 2011: Call closes**
- **End 2011: projects start; to run 2012 ~ 2015**

** register at infso-SSL@ec.europa.eu*

European Commission
Information Society and Media

For further information:

john.magan@ec.europa.eu **gabriella.leo@ec.europa.eu**

http://cordis.europa.eu/fp7/ict/photonics/cip_en.html (for FAQs, etc.)

Newsletter: INFSO-PHOTONICS@ec.europe.eu