

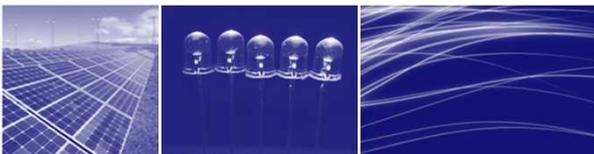
Photonics in Federal European FP7 R&D Program

A review of Photonics-enabled projects in FP7.

General outline

Since 2009, Photonics is featured as one of the "Key Enabling Technologies" (KETs) for Europe. Photonics is recognized as strategic for European industrial companies and the renewal of the EU competitiveness through wide and strong deployments of innovative products and processes.

This report provides a quantitative analysis on the pervasive nature of Photonics technologies by extracting figures from more than 370 Photonics-based projects found in the whole FP7 database. FP7 is the federal tool for R&D investments in European Union. These projects are split up into various themes like Health, Security, Food and industrial Biotechnology, Transport, Environment, Security, Energy... Analyses per theme, per country or per targeted application are given. This reports provides also the distribution of European photonic funding across the value chain, targeted markets and an analysis of industrial and SMEs involvement.



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Key features of the report

- ✓ General introduction of the 7th Framework Program (FP7) and methodology of projects selection
- ✓ Overall funding of Photonics-enabled technologies development in FP7 (between 2007 and 2012) and distribution of funding per theme
- ✓ Most participating countries and key industrial players per country
- ✓ Funding distribution per value chain step and per targeted market

Who should buy this report?

- ✓ Photonics clusters :
 - Monitor participations of their members
 - Help their members participating in European R&D programs
- ✓ Potential participants:
 - Discover how Photonics is funded in FP7
 - Organize strategies to maximize chances of their photonic projects to be funded
- ✓ Public authorities:
 - Benchmark the position of each country in European programs

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1.295 b€ European funding for Photonics-enabled projects

Through the 7th Framework Program (FP7), the European Commission allocated around 29b€ (38.6b\$) to more than 5 000 R&D projects over the five past years (2007-2012). Among this budget, 1 295 b€ have been allocated to 374 Photonics-enabled projects. These projects develop materials, components as well as integrated systems based on Photonics. They are widely spread among the different thematic areas of the FP7 (see Fig.1) which confirms the strong pervasive nature of Photonics in innovation and development of new products.

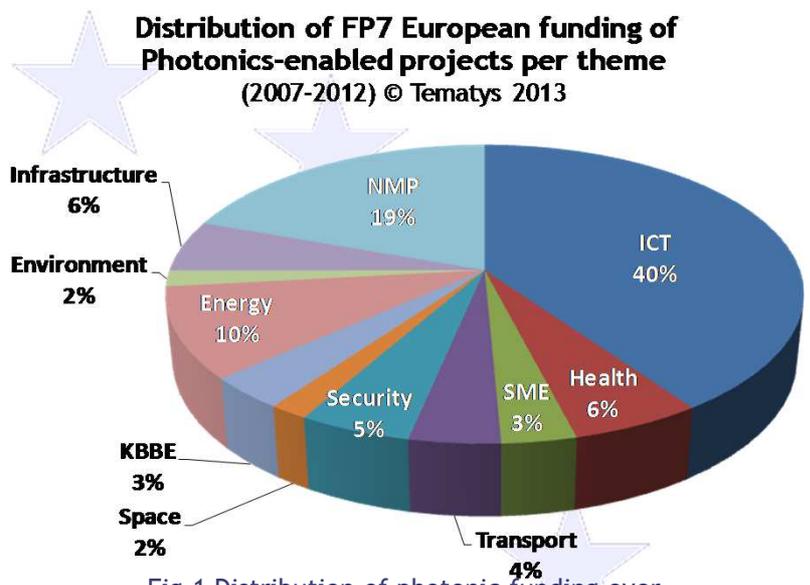


Fig.1 Distribution of photonic funding over the FP7 thematic areas

Top 3 of most participating countries : Germany, France, UK

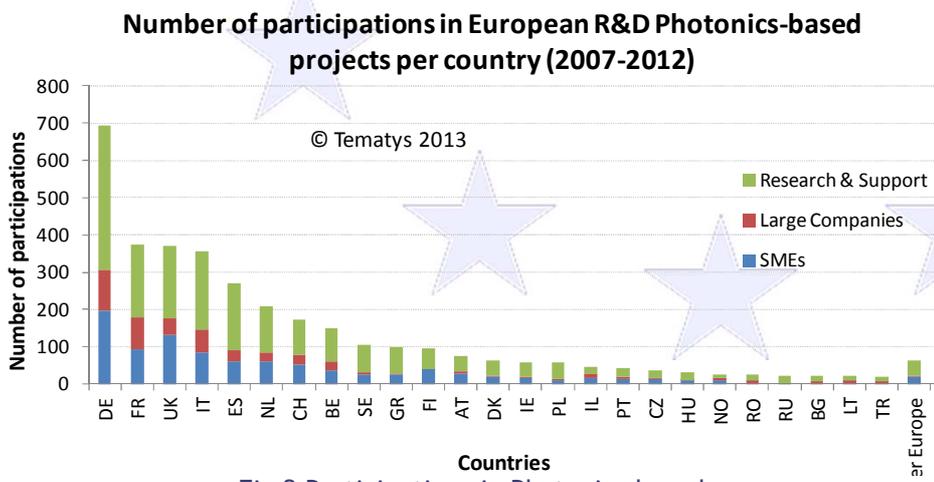


Fig.2 Participations in Photonics-based projects per country

The total number of participations to these Photonics-based projects is 3559. The participants are large companies (475 participations) as well as SMEs (995 participations) or non industrial players (2089 participations).

56 different countries are involved in Photonics-based projects. Most of them are European countries but other countries like US, Australia or Japan also participated in projects. The most participating country is Germany with 692 participations.

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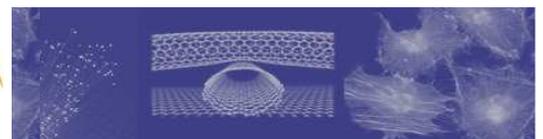
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TERMS AND CONDITIONS OF SALE - 2/2

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