The official Work Programmes 2014-15 are available at:


LEIT-ICT:


LEIT – NMP:


Societal Challenge 3 (Secure, clean and efficient energy):


11 December 2013
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Overview of Photonics in HORIZON 2020

HORIZON 2020 is the new EU Framework Programme for Research & Innovation for the period 2014-2020 for a total budget of 78.6 billion Euro (in current prices). It consists of three priorities as shown in the picture below. Photonic technologies are featuring in each one of the priorities.

In the Industrial Leadership (LEIT) priority, photonic technologies are explicitly called for in specific topics under the ICT Theme, with different call deadlines in 2014 and 2015. An overview of these topics with the respective budgets and call deadlines is presented in the following figure. These topics are further elaborated in the remainder of this document by extractions from the LEIT-ICT workprogramme 2014-15:
Apart from these topics, photonics technologies are also (sometimes implicitly) concerned in other topics in any of the three HORIZON 2020 priorities (see next picture), some of which are also elaborated further in the document by insertion of the respective extractions from the relevant Horizon 2014-15 workprogrammes.
1. Photonics in LEIT – Information and Communication Technologies

2014:

**Topic ICT 26-2014: Photonics KET**

**Specific Challenge:** Europe's photonics industry is facing fierce global market competition and has to cope with a very high speed of technological developments in the field. Further major S&T progress and research and innovation investments are required for sustaining Europe's industrial competitiveness and leadership in photonic market sectors where Europe is strong (communications, lighting, laser-based manufacturing, medical photonics, or safety & security) and to exploit new emerging market opportunities.

Moreover, Europe is experiencing the existence of many fragmented and rather uncoordinated developments between many different national and regional players. Europe suffers also from a slow innovation process for turning many good R&D results achieved into innovative products (‘Valley of Death’). Finally, Europe needs to better exploit the large enabling potential of photonics in many industrial sectors and in solutions addressing major societal challenges such as health and well-being, energy efficiency or safety.

**Scope:**

a. **Research & Innovation Actions** – Budget: 28 M€

   **Application driven core photonic technology** developments for a new generation of photonic devices (including components, modules and sub-systems): Actions should also address the related materials, manufacturability, validation of results for the target applications, and standardisation activities, as appropriate. They should demonstrate strong industrial commitment, be driven by user needs and concrete business cases supported by strong exploitation strategies, and cover the value/supply chain as appropriate. Focus is on the following topics:

   - **Biophotonics for screening of diseases:** Mobile, low-cost point-of-care screening devices for reliable, fast and non- or minimally-invasive detection of diseases (such as cardiovascular, cancer, neurodegenerative, skin or lung diseases, etc.). Actions should be driven by medical end-user needs and include a validation in real settings. Clinical trials are excluded.

   - **Sensing for safety and civil security:** Breakthrough advances in cost-effective, high-performance, multi-band optoelectronic devices (including sources) for near- and mid-infrared sensing applications (spectral range of 0.7 to 50 μm) representing high-volume markets. Device cost in volume production should not exceed 10 times the related cost of devices for the visible domain.

   - **Disruptive approaches in sensing:** Proof-of-concept for photonic sensing devices offering breakthrough advances in sensitivity or specificity enabled by new technology, new device concepts (e.g. based on quantum optics or quantum technologies, plasmonics, metamaterials, or non conventional wavefront shaping), new materials or non-conventional light-matter interaction from the research lab. Actions should demonstrate the feasibility of industrially relevant devices through a functional prototype.

b. **Innovation Actions** – Budget: 8 M€

   **Open system architectures for Solid State Lighting (SSL):** Development and validation in real settings of new open system architectures (hardware and software level) for SSL based intelligent lighting systems. Actions should address specific lighting requirements in relation to the intelligent system control network, cost-effective installation (easy
commissioning), safety and security issues, as well as the development of related electronic/photonic devices. Proposed architectures should allow interchangeability of the lighting modules with focus on the standardisation of interfaces. Actions should involve microelectronic and SSL manufacturers or suppliers and include strong commitment for industrialising targeted products in Europe.

c. **Coordination and support actions** – Budget: 5 M€
   Actions driven by the key stakeholders in photonics and targeting:
   - Strategic coordination and networking of Photonics21 stakeholders and other relevant communities for strategic technology road-mapping and for coordination with national and regional photonics activities.
   - The wide uptake of SSL technologies\(^1\): Bringing together European cities to share information, testing facilities and procurement and deployment experiences on SSL; networking European SSL test facilities to ensure LED product quality in the European market place; training the public procurers in SSL technologies.
   - EU-wide outreach for promoting photonics to young people, entrepreneurs and the general public.

d. **ERA-NET Cofund Action** – Budget: 6 M€
   A joint call for proposals on a photonics topic of strategic interest, to be funded through an ERA-NET Cofund action between national and regional grant programmes.

**Expected impact:**

a. **Research & Innovation Actions**
   For application driven core photonic technology developments:
   - Secured and reinforced industrial technology leadership and substantially increased market presence in diagnostics and in safety & security.
   - Improved business opportunities and value creation in Europe by reinforced cooperation along the value chain.
   - Substantially improved screening of diseases for a more effective treatment.
   - Substantially improved sensing solutions for high-volume safety and security markets.
   For disruptive approaches in sensing:
   - Secured industrial technology leadership in novel sensing systems targeting applications of high industrial and/or societal relevance.

b. **Innovation Actions**
   - Reinforced industrial leadership in intelligent lighting systems and related devices fabricated in Europe.
   - Major benefits for the users through the wide market introduction of intelligent lighting systems based on open system architectures and standardised interfaces.

c. **Coordination and support actions**
   - Reinforced value chains and deployment of photonics technologies by closer cooperation of key photonics stakeholders and users in areas of common interest.
   - Demonstrable improvement of awareness, and support of EU cities for widely deploying solid-state lighting with measurable benefits for the citizens.
   - Demonstrable increased awareness and recognition of photonics by the wide public.

\(^1\) These actions are in line with the Green Paper “Lighting the Future”, COM(2011) 889 final.
d. ERA-NET Cofund action

Closer cooperation and greater pooling of resources between regional, national and EU-wide research programmes in strategic photonics Research & Innovation areas.

Types of action:

a. Research & Innovation Actions – Budget: 28M€, small projects (2-4M€), 100% EU funding.
b. Innovation Actions – Budget: 8M€, one large project (8M€), 70% EU funding.
c. Coordination and Support Actions – Budget: 5M€, 100% EU funding.
d. ERA-NET Cofund Action – Budget: 6M€, any remaining funds will be transferred to action type a. above.

Call opens on 11 December 2013 and closes on 23 April 2014 at 17:00 Brussels time.

The conditions related to this topic are provided at the end of this document and in the General Annexes.

**Topic ICT 29 - 2014 Development of novel materials and systems for OLED lighting**

**Specific Challenge:** In the last 10 years, European industry (both SMEs and large companies) has made significant investments in OLED technologies, i.e., materials, devices and manufacturing processes. However, major S&T progress and research and innovation (R&I) investments are required in OLEDs, in particular for the realisation of flexible, high brightness light sources over large areas. The further technological development of OLEDs is expected to give Europe a leading position on the world general lighting market and create new manufacturing jobs for novel consumer products. Moreover, the move to OLEDs would help in reducing the amount of electricity consumed by lighting and limiting carbon dioxide emissions.

**Scope:**

Research & Innovation Actions should focus on materials, process and device technology for OLED lighting. The aim is to realise OLED devices over larger surfaces, with higher brightness, larger uniformity and longer lifetimes. A demonstrator should be provided at the end of every project. A specific target for OLED lighting is energy efficacy of above 100 lm/W, considering also improved out-coupling efficiency. The materials have to allow for a competitive lifetime for all colours and white light (lifetime of several hundred hours at 97% of the original intensity). Attention should be paid to recyclability issues and the environmental impact of the materials and systems as appropriate. Proposals should involve material suppliers, OLED manufacturers or suppliers and OLED system integrators.

**Expected impact:**

- Cost performance breakthroughs - lighting systems with production costs of 1€/100 lm.
- Secured and reinforced industrial technology leadership and substantially increased market presence in lighting.

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2This topic is jointly supported by LEIT ICT and NMP.
Improved business opportunities and value creation in Europe in lighting by reinforced cooperation along the value chain.

Type of Action:
Research & Innovation Actions – Budget: 18 M€ (9 M€ from LEIT ICT and 9 M€ from LEIT NMP), small projects (2-4M€), 100% EU funding.

Call opens on 11 December 2013 and closes on 23 April 2014 at 17:00 Brussels time.

The conditions related to this topic are provided at the end of this document and in the General Annexes.

2015:

Topic ICT 27 - 2015: Photonics KET

Specific Challenge: Further major S&T progress and R&I investments are required for sustaining Europe's industrial competitiveness and leadership in photonic market sectors where Europe is strong. Europe needs also to strengthen its manufacturing base in photonics to safeguard the further potential for innovation and value creation and to maintain jobs. Finally, Europe needs to better exploit the innovation capacity of the more than 5000 existing photonics SMEs and the innovation leverage potential of the more than 40 existing innovation clusters and national platforms.

Scope:

a. Research & Innovation Actions - Budget: 30 M€

Application driven core photonic technology developments for a new generation of photonic devices (including components, modules and sub-systems). Focus is on the following topics:

- **Optical communication for data centres**: Low-cost, energy-efficient photonic devices supporting radically new system and network architectures driven by the emergence of exa-scale cloud datacentres. Actions should focus on optical inter- and intra-data centre transmission, switching and interconnects facilitating Tb/s interface speeds and Pb/s network throughput.

- **High-throughput laser-based manufacturing**: High-power, high-efficiency laser sources (both continuous wave and pulsed); novel technologies and devices for beam delivery and for processing of multiple beams from laser source arrays; high-performance optical devices and systems; fast synchronisation of laser source and high-speed scanning devices.

**PIC technology**: Device, circuit and fabrication technology for PICs (Photonics Integrated Circuits), suited for cost-effective volume manufacturing on semiconductor or dielectrics based photonic integration platforms. Actions may cover also electronic-photonic integration, as well as heterogeneous and hybrid integration technologies for PIC-based high-performance or high-density modules.

All RTD actions should address also the related materials, manufacturability, validation of results for the target applications, and standardisation activities, as appropriate. They should demonstrate strong industrial commitment, be driven by user needs and concrete
business cases supported by strong exploitation strategies, and cover the value/supply chain as appropriate.

b. **Innovation support through public procurement actions** – Budget: 5 M€

Pilot deployment of software-defined optics in backbone networks: Equip the networks of Public network operators (e.g., NRENs) with novel Software Defined Optical Networking technologies (from component level to system and network level) using first commercial hardware and software to transport high traffic volumes to demanding customers in a dynamic way.

c. **Coordination and Support actions** – Budget: 3 M€

Actions driven by the key stakeholders in photonics and targeting:

- Open access of Researchers and SMEs to advanced design, fabrication and characterization facilities fostering the development of novel photonics solutions through the use of new materials, unconventional approaches and light-matter interaction.
- Cooperation of photonic clusters and national technology platforms to stimulate the innovation potential of SMEs, based on business cases demonstrating a clear potential for sales and deployment growth.

Actions should link with on-going support actions providing access to advanced R&I services and capabilities with the aim to make them also accessible to researchers or to establish a network of innovation multipliers providing a broader technological, application, innovation, and regional coverage of such services and capabilities in order to address the needs of SMEs.

d. **ERA-NET Cofund action** – Budget: 6 M€

A joint call for proposals on a photonics topic of strategic interest, to be funded through an ERA-NET Cofund action between national and regional grant programmes.

**Expected impact:**

a. **Research & Innovation Actions**

- Improved business opportunities and value creation in Europe by reinforced cooperation along the value chain.
- Secured and reinforced industrial technology leadership and substantially increased market presence in high-bitrate optical communications for data centres and in laser-based manufacturing of high-quality products.
- At least 10-factor reduction of power consumption and cost in communication technologies for (exa-scale) data centres.
- Significant productivity increase and substantial leverage effects to many industries using laser-based manufacturing.
- Measurable productivity increase in the manufacturing of complex PICs and sustained break-through innovations in new photonic products fabricated in Europe.

b. **Innovation support through public procurement actions**

- Faster and wider roll-out and deployment of software defined optical networking technologies and deployment of value-added services and applications in Europe.

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Wherever appropriate, actions could seek synergies and co-financing from relevant national / regional research and innovation programmes, e.g. structural funds addressing smart specialisation. Actions combining different sources of financing should include a concrete financial plan detailing the use of these funding sources for the different parts of their activities.
c. **Coordination and Support actions**
   - Demonstrable value generation of novel photonics approaches by researchers and SMEs through enhanced access to advanced fabrication and characterisation facilities.
   - Reinforced innovation effectiveness of cluster networks in particular towards SMEs with measurable value creation for SMEs in terms of number of business collaborations stimulated, penetration of new markets and/or new application areas close to the market, etc.

d. **ERA-NET Cofund action**
   - Closer cooperation and greater pooling of resources between regional, national and EU-wide research programmes in strategic photonics R&I areas.

**Types of action:**

a. Research & Innovation Actions – Budget: 30 M€, small projects (2-4M€), 100% EU funding.

b. Public Procurement of Innovation (PPI) Cofund actions; any remaining funds will be transferred to action type a. above. Budget: 5 M€.

c. Coordination and Support Actions. Budget: 3 M€.

d. ERA-NET Cofund Action; any remaining funds will be transferred to action type a. above. Budget: 6 M€.

Call opens on 15 October 2014 and closes on 14 April 2015 at 17:00 Brussels time.

*The conditions related to this topic are provided at the end of this document and in the General Annexes.*

**Topic ICT 28 - 2015: Cross-cutting ICT KETs**

**Specific Challenge:** Europe is facing fierce global competition to maintain its technological leadership in KETs. However, while Europe has excellent R&D results in individual KETs, it often fails to turn those timely into highly innovative products. In particular, Europe fails to bring stakeholders from the different KETs together around new value chains and new business collaborations. These will create value above and beyond the mere addition of individual technologies and are essential for Europe to develop multi-disciplinary technological capabilities and bring into the market new, high value-added products that are manufactured in Europe. By investing more on innovation and in particular on KET deployment projects and integration platforms as well as on KET pilot lines, in particular around micro-nano-electronics, photonics and manufacturing, there will be a direct impact on Europe's global competitiveness – in particular for the SMEs – as well as on Europe's capability to offer new solutions for some of the major societal challenges it faces.

**Scope:**

a. **Innovation Actions** – Budget: 13 M€

   **ICT-KET integrated platforms for the healthcare and food sectors:** Further development and validation in real settings of reliable, low-cost micro-nano-bio and bio-photonics systems driven by users. Actions should target the health sector for early or fast diagnosis or monitoring of disease and patient status (clinical trials are excluded) or the food sector for quality, safety and process control. They should include substantiated
business cases for the targeted products with strong commitment to industrialise them in Europe.

b. **Pilot lines for advanced KET products** – Budget: 42 M€

Set-up and validation of pilot production for advanced products. Actions may include also the development of fabrication processes, process qualification, and further process engineering. They should be open access and be driven by the key stakeholders able to set-up and run such pilot lines. Proposals should also include business plans for the further industrialisation of the production processes and, if applicable, for specific planned products, with strong commitment to manufacturing in Europe⁴. Actions should address the following topics:

- **Pilot line for OLEDs on flexible substrates**: Focus is on introducing volume fabrication (sheet to sheet, roll to sheet and roll to roll) of reliable OLEDs on flexible substrates with low material utilisation. Actions may include also the upgrading of current research pilot lines.

- **Pilot line for analytical mid-infrared (MIR) micro-sensors**: A pilot line providing foundry services targeting in particular SME needs. Focus is on fabricating processed wafers and mounted / packaged chips for MIR micro-sensor systems addressing high-impact applications, and introducing lower-cost, more reliable and efficient MIR materials in the fabrication process. Open access should be facilitated through appropriate support services and tools, to be validated through pre-commercial pilot runs for external users.

- **Pilot line for PIC fabrication on III-V and/or dielectric based platforms** providing foundry services for the fabrication of complex PICs (Photonic Integrated Circuits) based on generic fabrication processes. The foundry offer should meet in particular the needs of SMEs. Open access should be facilitated through appropriate support services and tools (e.g. design support, design kits and tools; PIC characterisation and packaging). The foundry offer should be validated through pre-commercial pilot runs for external users.

c. **Coordination and Support actions** – Budget: 1 M€

Cooperation of scientists, technology developers and providers, and end users for accelerating the deployment of bio-photonics and micro-nano-bio solutions in the health sector.

**Expected impact:**

a. **Innovation actions**

- Measurable progress in the effectiveness, cost-performance and speed of medical diagnosis, the monitoring of disease and patient status, the prevention and treatment of major diseases and/or the quality controls in the food sector.

- Wide market introduction of micro-nano-bio and bio-photonics systems for healthcare and food quality, safety and processing.

b. **Pilot lines for advanced KET products**

- Cost-performance breakthroughs for OLEDs, making OLED competitive with existing LED based solutions; for reliable MIR sensing products; or for reliable PIC fabrication.

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⁴ Wherever appropriate, actions could seek synergies and co-financing from relevant national / regional research and innovation programmes, e.g. structural funds addressing smart specialisation. Actions combining different sources of financing should include a concrete financial plan detailing the use of these funding sources for the different parts of their activities.
• Effective market introduction of new and highly competitive OLEDs and MIR sensing products.
• Measurable productivity increase in PIC manufacturing; and, measurable new, high added-value product propositions in a wide range of photonics market segments enabled by advanced manufacturing capabilities and/or added value services in PICs.
• Improved value creation in Europe through stronger value and supply chains involving relevant industrial stakeholders.

c. **Coordination and Support actions**
• Reinforced value chains and accelerated deployment of micro-nano-bio and bio-photonics solutions in the health sector through closer cooperation of the key stakeholders and users.

**Types of action:**

a. Innovation Actions, TRL 5 and 6 (please see part G of the General Annexes) – Budget: 13 M€, small projects (2-4M€), 70% EU funding.

b. Innovation Actions, TRLs 5-7 (please see part G of the General Annexes). Budget: 42 M€, 70% EU funding. Minimum one pilot line per area is expected to be selected for funding. The Commission considers that proposals requesting a contribution from the EU of up to EUR 14 million each would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

c. Coordination and Support Actions – Budget 1 M€.

Call opens on 15 October 2014 and closes on 14 April 2015 at 17:00 Brussels time.

*The conditions related to this topic are provided at the end of this document and in the General Annexes.*
Horizontal ICT Innovation actions

**Topic ICT 34 – 2015: ICT contribution to pilot for co-investments by business angels in innovative ICT firms**

This is a contribution from the ICT in LEIT to a pilot scheme that will co-finance investments by business angels in innovative SMEs and small midcaps that are aiming to commercialise new ICT-related products and services. Potential co-investors with business angels can include family offices and equity crowd-funders. The domains of photonics, microelectronics, microsystems and robotics, and also the ICT-related creative industries, will receive particular attention. The scheme might operate through a fund set up as a dedicated investment vehicle. Co-financed investments, made as a rule on the basis of an equal sharing of risks and rewards, will take the form of equity and, potentially, other forms of risk capital. ICT-related investments should represent at least 50% of the total investments made. The Commission will incentivise the entity entrusted with implementing the pilot to make a particular effort, including targeted awareness-raising, to ensure that a significantly higher proportion of investments are ICT-related.

**Expected impact:**
Development of co-investments and cross-border investments by business angels, and improved access to risk finance by innovative ICT firms. Indicators and targets will be set during negotiations with the entrusted entity who may potentially implement the pilot scheme.

**Indicative timetable:**
This instrument is likely to be available in 2015.

**Selection procedure:**
Under discussion with the entity who may be entrusted with implementing the pilot scheme.

**Indicative budget:**
EUR 15 million from ICT in LEIT contributing to a total of EUR 30.0 million from the 2015 budget.

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5 EUR 15.00 million from the budget line for ‘Access to Risk Finance’, and EUR 15.00 million from the budget line for ‘Leadership in Enabling and Industrial Technologies / ICT’. These amounts will be included in the financial decision for 2015. If there is a significant lack of take-up by 30 June 2015, remainder funds will be reallocated to these budget-lines.
Specific Activities for Innovative ICT SMEs (including photonics SMEs):

**Topic ICT 37 - 2014-15: Open Disruptive Innovation Scheme (implemented through the SME instrument)**

**Specific Challenge:** The challenge is to provide support to a large set of early stage high risk innovative SMEs in the ICT sector. Focus will be on SME proposing innovative ICT concept, product and service applying new sets of rules, values and models which ultimately disrupt existing markets.

The objective of the ODI is threefold:

- Nurture promising innovative and disruptive ideas;
- Support their prototyping, validation and demonstration in real world conditions;
- Help for wider deployment or market uptake.

Proposed projects should have a potential for disruptive innovation and fast market up-take in ICT.

In particular it will be interesting for entrepreneurs and young innovative companies that are looking for swift support to their innovative ideas.

The ODI objective will support the validation, fast prototyping and demonstration of disruptive innovation bearing a strong EU dimension.

**Scope:** ODI will be implemented through the SME instrument consists of three separate phases and a coaching and mentoring service for beneficiaries. Participants can apply to Phase 1 with a view to applying to Phase 2 at a later date, or directly to Phase 2.

**In phase 1**, a feasibility study must be developed verifying the technological/practical as well as economic viability of an innovation idea/concept with considerable novelty to the industry sector in which it is presented (new products, processes, services and technologies or new market applications of existing technologies). The activities could, for example, comprise risk assessment, market study, user involvement, Intellectual Property (IP) management, innovation strategy development, partner search, feasibility of concept and the like to establish a solid high-potential innovation project aligned to the enterprise strategy and with a European dimension. Bottlenecks in the ability to increase profitability of the enterprise through innovation must be detected and analysed during phase 1 and addressed during phase 2 to increase the return in investment in innovation activities. The proposal should contain an initial business plan based on the proposed idea/concept.

The proposal should give the specifications of the elaborated business plan, which is to be the outcome of the project and the criteria for success.

Funding will be provided in the form of a lump sum of EUR 50,000. Projects should last around 6 months.

**In phase 2**, innovation projects will be supported that address the specific challenge ODI and that demonstrate high potential in terms of company competitiveness and growth underpinned by a strategic business plan. Activities should focus on innovation activities such as demonstration, testing, prototyping, piloting, scaling-up, miniaturisation, design, market replication and the like aiming to bring an innovation idea (product, process, service etc) to industrial readiness and maturity for market introduction, but may also include some research. For technological innovation a Technology Readiness Levels of 6 or above (or similar for non-technological innovations) are envisaged; please see part G of the General Annexes.
Proposals shall be based on an elaborated business plan either developed through phase 1 or another means. Particular attention must be paid to IP protection and ownership; applicants will have to present convincing measures to ensure the possibility of commercial exploitation ('freedom to operate').

Proposals shall contain a specification for the outcome of the project, including a first commercialisation plan, and criteria for success.

The Commission considers that proposals requesting a contribution from the EU of between EUR 0.5 and 2.5 million would allow phase 2 to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts. Projects should last between 12 and 24 months.

In addition, in phase 3, SMEs can benefit from indirect support measures and services as well as access to the financial facilities supported under Access to Risk Finance of this work programme.

Successful beneficiaries will be offered coaching and mentoring support during phase 1 and phase 2. This service will be accessible via the Enterprise Europe Network and delivered by a dedicated coach through consultation and signposting to the beneficiaries. The coaches will be recruited from a central database managed by the Commission and have all fulfilled stringent criteria with regards to business experience and competencies. Throughout the three phases of the instrument, the Network will offer to complement the coaching support by providing access to its innovation and internationalisation service offering. This could include, for example, depending on the need of the SME, support in identifying growth potential, developing a growth plan and maximising it through internationalisation; strengthening the leadership and management skills of individuals in the senior management team and developing in-house coaching capacity; developing a marketing strategy or raising external finance.

Expected impact:

- Enhancing profitability and growth performance of SMEs by combining and transferring new and existing knowledge into innovative, disruptive and competitive solutions seizing European and global business opportunities.
- Market uptake of ICT innovations.
- Increase of private investment in innovation, notably through private co-investments and/or follow-up investments in successfully supported SMEs.
- The expected impact should be clearly substantiated in qualitative and quantitative terms (e.g. on turnover, employment, market seize, IP management, sales, return on investment and profit).

Types of action:

SME Instrument (70%) – Budget: 45 M€ in 2014 and 45 M€ in 2015.

Call opens on 1 March 2014 and closes at 17:00 Brussels time on the following date:

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<tr>
<th>ICT37 [SME instrument] Open call cut-off dates</th>
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The conditions related to this topic are provided at the end of this document and in the General Annexes.
2. Photonics in LEIT - NMP (Factories of the Future PPP):

**Topic FoF 1 – 2014: Process optimisation of manufacturing assets**

**Specific Challenge:** Today's manufacturing is increasingly challenged by uncertainties of continuously and rapidly changing market conditions and increasingly shorter time-to-market requirements. Manufacturing value chains are distributed and dependent on complex information and material flow requiring new approaches inside and outside the factory both on process and product lifecycle level. They have to respond faster and more efficiently to higher complexity and frequently changing designs. Actions must include validation/demonstration elements and involve stakeholders covering the whole value chain.

**Scope:**

a. **R&I Actions:** proposals are expected to cover at least one of the three themes identified below.

**CPS-based process optimisation (Cyber-Physical Systems) ...**

**Collaborative and mobile manufacturing:** ...

**Towards zero-failure laser-based manufacturing:** Fast and accurate process monitoring systems allowing feedback control of laser process parameters in highly dynamic manufacturing processes. Actions should cover in particular the development of (in-line) process monitoring sensors, measurement and non-destructive testing tools including the related high speed data processing and reduction. The Commission considers that proposals requesting a contribution from the EU between EUR 2 and 4 million would allow this area to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

b. **Support Actions**

   (...) concept and roadmap building in relation to smart and safe workspaces for laser-based manufacturing.

**Expected impact:**

- (…)
- Strengthened market position of European producers of laser-based manufacturing equipment, their suppliers and of the users of the equipment.
- Reinforced capacity to manufacture high-quality and innovative products and to penetrate new application areas.

**Types of action:**

a. Research & Innovation Actions, small projects (2-4 M€), 100% EU funding.
b. Coordination and Support Actions, up to 1 M€, 100% EU funding.

Call opens on 11 December 2013 and closes on 20 March 2014 at 17:00 Brussels time.  
*The conditions related to this topic are provided at the end of this document and in the General Annexes.*
3. Photonics in Societal Challenge 3: Energy (Smart Cities and Communities)

**Topic SCC 1 – 2014/2015: Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) projects**

*Specific Challenge:* The EU policy and regulatory framework in the sectors of energy, transport and ICT supports the development of sectoral solutions, i.e. solutions with a limited degree of integration. However, for successful and accelerated implementation in real environments such as urban ones - that also have to take into account local specificities the test of integrated measures will pave the way for faster market roll-out of technologies. The key challenges for Smart Cities and Communities are to significantly increase the overall energy efficiency of cities, to exploit better the local resource both in terms of energy supply as well as through the demand side measures. This will imply the use of energy efficiency measures optimising at the level of districts, the use of renewables, the sustainability of urban transport and the needed drastic reduction of greenhouse gas emissions in urban areas - within economically acceptable conditions - while ensuring for citizens better life conditions: lower energy bills, swifter transport, job creation and as a consequence a higher degree of resilience to climate impacts (e.g. urban heat islands effects) etc.

*Scope:* To identify, develop and deploy replicable, balanced and integrated solutions in the energy, transport, and ICT actions through partnerships between municipalities and industries. These solutions at the intersection of the three sectors will have a holistic approach and are still facing first mover risk. These will be the lighthouse projects as identified by the Communication on Smart Cities and Communities. Lighthouse projects will target primarily large scale demonstration of replicable SCC concepts in city context where existing technologies or very near to market technologies (TRL 7 and more, see part G of the General Annexes) will be integrated in an innovative way.

The proposals should address the following main areas:

- *(...)*

- *Integrated Infrastructures:* through the integration of physical infrastructures such as core networks, street scenes, *lighting*, industrial sites etc to create new forms of value through re-use and repurposing. This should lead to quantifiable benefits such as reduction of capital /operational expenditure as well as reduced carbon / energy footprints. This might also imply exploitation of synergies between requirements for smart grids, broadband infrastructures and in general poly networks (eg district heating and cooling).

- *(...)*

The proposed proposals should address in addition to the main areas presented above a strategy that addresses appropriate enabler actions to support the commercial exploitation of the proposal. This includes (indicative list): commitment of authorities (even if changes of politicians/ majority, in the course of the project); citizens' engagement and empowerment; optimising policy and regulatory frameworks; open, consistent data and performance measurements; dissemination and unlocking the market potentials worldwide.
According to the Communication on Smart Cities and Communities the light house projects should look for creating partnerships between industries, academics and cities, empower citizens and ensure the replicability of the solutions, ensure the funding from various sources. Therefore each project should:

- Be realised in 2 - 3 cities or communities (light house cities or communities)
- include industry, city planning authorities which should also reflect the view of the consumer organisations, research community, local Small and Medium Size Companies (SMEs).
- In addition each project should co-involve 2 - 3 follower cities i.e. cities willing to contribute to the process though the replication of solutions at the end of the project and having access to the knowhow and results of the project and a privileged contact with the project's partners. The involvement of the follower cities should be relevant (e.g. participating in definition of user requirements and methodology of transferability of solutions, data collection etc.). The follower cities should aim at improving their energy performance or the share of use of renewables (e.g. 60% reduction of primary energy for buildings, 20 - 30% RES use for electricity as well as for heating and cooling). EU geographical coverage conditions should be also applied.
- Ensure that all proposed activities are a part of ambitious urban plan. These activities should also lead to the development of integrated urban plans. For the lighthouse cities or communities these plans should be finalised (e.g. those compiled for the Covenant of Mayors, Sustainable Energy Action Plans, plans committed under the Green Digital Charter etc., but without limiting to this list of initiatives). The urban plan shall integrate buildings planning, energy networks, ICT, transport/mobility planning; additional issues may be addressed as well if relevant for the city. These plans shall be submitted with the proposal as a supporting document(s).
- In order to ensure the success of the lighthouse projects, the funding for the other parts of the programme or initiative in which the lighthouse projects are embedded should be secured from other sources, preferably private ones, but also other EU funding sources (European Structural and Investment (ESI) funds for example), national or regional funding.
- Projects should demonstrate and validate attractive business plans that allow large scale replication of fast economic recovery in cities of varying degrees of economic conditions (from very poor to very rich), varying sizes but significant urban areas and varying climatic conditions to ensure high impact and replication potential.
- The industrial partners and municipality authorities should engage in replicating successful demonstration in their own and other cities, notably 'follower cities'; the replication plans are compulsory and are part of the evaluation.
- Consortia must have a clearly defined structure with roles and responsibilities properly spelled out for all involved entities.

Besides economic sustainability, proposals must also commit to scientific and technical requirements in support to reliability:

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6 C(2012)4701 final
• Open and consistent data and interoperability of solutions in order to avoid locked –in customers.

• Contribution to common data collection systems (e.g. as those developed by European Commission under SCC2 of this Work Programme), measurement and disclosure methodology, in order to facilitate a common footprint calculation methodology and other metrics (especially for energy saving; CO2 reductions, financial savings, number of jobs created, environmental impact etc.).

• The performance monitoring should last for a period of at least 2 years. Longer term commitment (e.g. 5 years) will give an added value to the proposal. Consortia should develop an integrated protocol for monitoring energy, infrastructure, mobility and governance practices in the lighthouse projects, enabling documentation of improved performance over short and long term periods. The monitoring protocol should be robust and viable also after the end of the project, supporting and increasing municipal capacity over time. Participants may be asked to introduce performance data into existing data bases (CONCERTO technical monitoring data base).

The grant will be composed of a combination of the reimbursement of eligible costs, and flat rate financing determined on the basis of unit costs only for the building-related demonstration activities.

The building components of the proposals will be supported through the unit cost/m².

The Commission considers that proposals requesting a contribution from the EU of between EUR 18 to 25 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

**Expected Impact:**

The proposals are expected to have the impacts described below:

• deploy wide-scale, innovative replicable and integrated solutions in the energy, transport, and ICT,

• trigger large scale economic investments with the repayment of implementation costs in acceptable time lines (to facilitate the bankability of the projects),

• increase the energy efficiency of districts and of cities and foster the use of renewables and their integration energy system and enable active participation of consumers

• increase mobility efficiency with lower emissions of pollutants and CO2,

• reduce the energy costs,

• decarbonise the energy system while making it more secure and stable,

• create stronger links between cities in Member States with various geographical and economical positions through active cooperation.

It is envisaged that the proposals will also bring societal benefits:

• reduction of energy bills for all actors and especially for citizens and public authorities,

• Increase quality of life by creating local jobs (that cannot be delocalised) in cities,

• Increase air quality.
Type of action: Innovation Actions

Call opens on 11 December 2013 and closes on 7 May 2014 at 17:00 Brussels time.

The conditions related to this topic are provided at the end of this document and in the General Annexes.
Conditions for these calls

1. LEIT ICT Calls:
For all topics within the two ICT calls, the following apply:

If indicated in the specific challenge description, the Commission considers that proposals requesting a contribution in the brackets indicated below for Small or Large would allow the specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts:

- Small contribution: Contribution from the EU of between EUR 2 million and EUR 4 million
- Large contribution: Contribution from the EU of between EUR 5 million and EUR 8 million

The projects funded under this area will participate in the Pilot on Open Research Data in Horizon 2020 in line with Commission's policy on open access to research data. Further information on the Open Research Data Pilot can be found here: [link to the future Guidelines on Open Access in Horizon 2020].

H2020-ICT-2014
Publication date: 11 December 2013.
Opening: 11 December 2013 except topic ICT37 that opens on 01/03/2014 for phase 1 and phase 2 and topic ICT14 that opens on 15 July 2014.
Deadline(s)\(^7\)\(^8\)\(^9\): at 17.00.00 Brussels time on the following dates

<table>
<thead>
<tr>
<th>ICT26.a-d ICT29</th>
<th>23 April 2014</th>
</tr>
</thead>
</table>

\(^7\) The Director-General responsible may delay this date by up to two months.

\(^8\) The Director-General responsible may delay this deadline by up to two months.

\(^9\) The deadlines provided in brackets are indicative and subject to a separate financing decision for 2015.
### All single stage

<table>
<thead>
<tr>
<th>Photonics KET</th>
<th>2014 EUR million</th>
<th>2015 EUR million</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICT26.a</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>ICT26.b</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>ICT26.c</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>ICT26.d</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Development of novel materials and systems for OLED lighting</th>
<th>2015 EUR million</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICT29</td>
<td>18(^{10})</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Open Disruptive innovation Scheme (ODI)</th>
<th>2015 EUR million</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICT37 [SME instrument]</td>
<td>45</td>
</tr>
<tr>
<td>of which</td>
<td></td>
</tr>
<tr>
<td>4.5 for phase1</td>
<td></td>
</tr>
<tr>
<td>39.6 for phase2</td>
<td></td>
</tr>
<tr>
<td>0.9 for mentoring &amp; coaching support and phase 3.</td>
<td></td>
</tr>
<tr>
<td>of which</td>
<td></td>
</tr>
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<td>0.9 for mentoring &amp; coaching support and phase 3.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>2015 EUR million</th>
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</thead>
<tbody>
<tr>
<td>Single stage for both phase 1 and phase 2</td>
<td></td>
</tr>
<tr>
<td>The budget available for phase 1 and phase 2 will be divided equally between each cut-off date.</td>
<td></td>
</tr>
</tbody>
</table>

**Eligibility and admissibility conditions:** The conditions are described in parts B and C of the General Annexes to the work programme, with the following exceptions:

<table>
<thead>
<tr>
<th>ICT37 [SME instrument]</th>
<th>Proposals for phase 1 are not required to provide a draft plan for exploitation and dissemination. A proposal for phase 2 shall include a first commercialisation plan.</th>
</tr>
</thead>
</table>

**Evaluation criteria, scoring and threshold:** The criteria, scoring and threshold are described in part H of the General Annexes to the work programme, with the following exceptions:

<table>
<thead>
<tr>
<th>ICT37 [SME instrument]</th>
<th>Proposals will be evaluated individually when they arrive. They will be ranked after the respective cut-off dates.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The criterion Impact will be evaluated first, then Excellence and Implementation. If the proposal fails to achieve the threshold for a criterion, the evaluation of the proposal will be stopped.</td>
</tr>
<tr>
<td></td>
<td>For phase 1 the threshold for individual criteria will be 4. The overall threshold, applying to the sum of the three individual scores, will be 13.</td>
</tr>
<tr>
<td></td>
<td>For phase 2 the threshold for the criterion Impact will be 4. The overall threshold, applying to the sum of the three individual scores, will be 12.</td>
</tr>
<tr>
<td></td>
<td>The final consensus score of a proposal will be the median of the individual scores of the individual evaluators; and the consensus report will comprise a collation of the individual reports, or extracts from them. Where appropriate, a Panel Review will be organised remotely.</td>
</tr>
<tr>
<td></td>
<td>Applicants can provide during the electronic proposal submission up to</td>
</tr>
</tbody>
</table>

\(^{10}\) EUR 9M from the LEIT-ICT part 2014 budget and EUR 9M from the LEIT-NMP part 2014 budget
three names of persons that should not act as an evaluator in the evaluation of their proposal for potential competitive reasons.

Evaluation procedure: The procedure for setting a priority order for proposals with the same score is given in part H of the General Annexes.

The full evaluation procedure is described in the relevant guide associated with this call.

- Indicative timetable for evaluation and grant agreement:

<table>
<thead>
<tr>
<th>Information on the outcome of the evaluation (single or first stage)</th>
<th>Information on the outcome of the evaluation (second stage)</th>
<th>Indicative date for the signing of grant agreements</th>
</tr>
</thead>
<tbody>
<tr>
<td>All topics except ICT37 (SME instrument)</td>
<td>Maximum 5 months from the final date for submission</td>
<td>Maximum 3 months from the date of informing applicants</td>
</tr>
<tr>
<td>ICT37 [SME instrument]</td>
<td>Two months after the corresponding cut-off date set out above for phase 1 and four months after the corresponding cut-off date set out above for phase 2.</td>
<td>One month from the date of informing applicants in phase 1 and two months from the date of informing applicants in phase 2.</td>
</tr>
</tbody>
</table>

Consortia agreements: In line with the Rules for Participation and the Model Grant Agreement, participants in Research and Innovation Actions, in Innovation Actions and, in the case of two or more SMEs submitting a proposal, also participants to SME Instruments proposals are required to conclude a consortium agreement prior to grant agreement.

H2020-ICT-2015

Publication date: 15 October 2014

Deadline(s): at 17.00.00 Brussels time on the following dates:

For all topics [14 April 2015]

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11 If any of the persons identified is an independent expert participating in the evaluation of the proposals for the call in question, they may be excluded from the evaluation of the proposal concerned, as long as it remains possible to have the proposal evaluated.

12 The Director-General responsible for the call may publish it up to one month prior to or after the envisaged date of publication.

13 The deadlines provided in brackets are indicative and subject to a separate financing decision for 2015.
All single stage

<table>
<thead>
<tr>
<th>Photonics KET</th>
<th>2015 EUR million</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICT27.a</td>
<td>30</td>
</tr>
<tr>
<td>ICT27.b</td>
<td>5</td>
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<tr>
<td>ICT27.c</td>
<td>3</td>
</tr>
<tr>
<td>ICT27.d</td>
<td>6</td>
</tr>
</tbody>
</table>

Cross-cutting ICT KETs

| ICT28.a       | 13               |
| ICT28.b       | 42               |
| ICT28.c       | 1                |

ICT contribution to pilot for co-investments by business angels in innovative ICT firms

| ICT34         | 15               |

Eligibility and admissibility conditions: The conditions are described in parts B and C of the General Annexes to the work programme.

Evaluation criteria:

all topics except ICT28.b

Evaluation criteria, scoring and threshold: The criteria, scoring and threshold are described in part H of the General Annexes to the work programme.

ICT28.b

Proposals will be evaluated in line with the relevant guide associated with this call.

Criteria are:

1. Excellence
   - Clarity and importance of the objectives;
   - Soundness of the concept, including trans disciplinary considerations;
   - Credibility of the proposed approach;
   - Readiness of the technology for implementing the pilot;
   - Progress beyond the state of the art in production;

2. Impact
   The extent to which the outputs of the project could contribute at the European and/or International level to:
   - The expected impacts listed in the work programme under the relevant topic;
   - Soundness of the business cases and business plans and commitment to first exploitation / manufacturing;
   - Evidence of the market potential and of the competitive technology advantage that will be gained through the pilot line;
   - Potential of creating jobs in Europe
   - Effectiveness of the proposed measures to communicate the project, and disseminate the project results, including appropriate management of IPR;
   - Contribution, where appropriate, to standards and to skills and educational training.

3. Quality and efficiency of the implementation

14 The score for the criterion “impact” will be multiplied by 1.5.
• Coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources;
• Coverage of the value chain (RTOs, materials, equipment and technology suppliers and end-users);
• Competences, experience and complementarity of the individual participants, as well as of the consortium as a whole;*
• Appropriateness of the management structures and procedures, including risk management.

Evaluation scores will be awarded for the criteria, and not for the sub-criteria. Each criterion will be scored out of 5. The threshold for individual criteria will be 3. The overall threshold, applying to the sum of the three individual scores, will be 10.

**Operational Capacity (selection criteria)**
* As a separate step in the evaluation, experts must indicate whether the members of the consortium possess at least the minimum competences needed to carry out the proposed work.

**Evaluation procedure:** The procedure for setting a priority order for proposals with the same score is given in part H of the General Annexes.

The full evaluation procedure is described in the relevant guide associated with this call.

- **Indicative timetable for evaluation and grant agreement:**

<table>
<thead>
<tr>
<th>Information on the outcome of the evaluation (single or first stage)</th>
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<th>Indicative date for the signing of grant agreements</th>
</tr>
</thead>
<tbody>
<tr>
<td>All topics</td>
<td>Maximum 5 months from the final date for submission</td>
<td>Maximum 3 months from the date of informing applicants</td>
</tr>
</tbody>
</table>

**Consortia agreements:** In line with the Rules for Participation and the Model Grant Agreement, participants in Research and Innovation Actions or in Innovation Actions are required to conclude a consortium agreement prior to grant agreement.
2. LEIT NMP (FACTORIES OF THE FUTURE) CALLS:
CONDITIONS FOR CALL FOF 1 – 2014: PROCESS OPTIMISATION OF MANUFACTURING ASSETS

Publication date: 11 December 2013\(^{15}\)
Deadline(s):\(^{16,17}\)

<table>
<thead>
<tr>
<th>Topic identifier</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>FoF-1-2014</td>
<td>20 March 2014</td>
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<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Topic identifier</td>
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<td>EUR Million</td>
</tr>
<tr>
<td>FoF-1.a-2014</td>
<td>32.00</td>
<td></td>
</tr>
<tr>
<td>FoF-1.b-2014</td>
<td>2.00</td>
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</table>

Evaluation criteria:

<table>
<thead>
<tr>
<th>Topic identifier</th>
<th>Evaluation criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>FoF-nn-2014/15</td>
<td>The standard evaluation criteria apply, described in part H of the General Annexes to the Work Programme, with the following exceptions: The threshold for the criteria Excellence and Impact will be 4. The overall threshold, applying to the sum of the three individual scores, will be 12. In case of equal overall scores in the ranked list, the priority order of proposals will be established in accordance with part H of the General Annexes, except that proposals will be ranked on the basis of individual scores for the Impact criterion before the Excellence criterion.</td>
</tr>
</tbody>
</table>

Evaluation procedure:

- Indicative timetable for evaluation and grant agreement\(^\text{18}\):

<table>
<thead>
<tr>
<th>Topic identifier</th>
<th>Information on the outcome of the evaluation (single stage)</th>
<th>Indicative date for the signing of grant agreements</th>
</tr>
</thead>
<tbody>
<tr>
<td>FoF-1-2014</td>
<td>Maximum 5 months from the final date for submission</td>
<td>Maximum 3 months from the date of informing applicants</td>
</tr>
</tbody>
</table>

Consortia agreements: Signature of consortia agreements will be compulsory before the signature of the Grant Agreement for all Collaborative Projects, and for SME instrument projects with more than one participant.

Standard sentence on climate change and/or sustainable development [to be added as necessary]

\(^{15}\) The Director-General responsible for the call may publish it up to one month prior to or after the envisaged date of publication.

\(^{16}\) The Director-General responsible may delay this deadline by up to two months.

\(^{17}\) The deadlines provided in brackets are indicative and subject to a separate financing decision for 2015.

\(^{18}\) Should the call publication postponed, the dates in this table should be adjusted accordingly.
3. CALLS IN THE ENERGY SOCIETAL CHALLENGE:
CONDITIONS FOR CALL SCC1 – 2014/15: SMART CITIES AND COMMUNITIES

Publication date: 19 December 2013

Deadlines: 20, 21

| Topic 1 | 7 May 2014 |

Indicative budget:

<table>
<thead>
<tr>
<th></th>
<th>2014 EUR million</th>
<th>2015 EUR million</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic SCC1</td>
<td>EUR 90.32 million</td>
<td>EUR 106.18 million</td>
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<tr>
<td></td>
<td>All single stage</td>
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</tr>
</tbody>
</table>

Eligibility and admissibility conditions: The conditions are described in parts B and C of the General Annexes to the work programme.

Evaluation criteria, scoring and threshold: The criteria, scoring and threshold are described in part H of the General Annexes to the work programme.

Evaluation procedure: The procedure for setting a priority order for proposals with the same score is given in part H of the General Annexes.

The full evaluation procedure is described in the relevant guide associated with this call.

- Indicative timetable for evaluation and grant agreement:

<table>
<thead>
<tr>
<th>SCC1</th>
<th>Information on the outcome of the evaluation (single or first stage)</th>
<th>Information on the outcome of the evaluation (second stage)</th>
<th>Indicative date for the signing of grant agreements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum 5 months from the final date for submission</td>
<td>Maximum 3 months from the date of informing applicants</td>
<td></td>
<td></td>
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</tbody>
</table>

Consortia agreements: In line with the Rules for Participation and the Model Grant Agreement, participants in Research and Innovation Actions or in Innovation Actions are required to conclude a consortium agreement prior to grant agreement.

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19 The Director-General responsible for the call may publish it up to one month prior to or after the envisaged date of publication.
20 The Director-General responsible may delay this deadline by up to two months.
21 The deadlines provided in brackets are indicative and subject to a separate financing decision for 2015.