

**ORGANIC AND LARGE AREA
ELECTRONICS (OLAE) TECHNOLOGIES
IN HORIZON 2020 WORK PROGRAMME 2014 – 2015**

Extracts from the Horizon 2020 Work Programme 2014-2015

5. *Leadership in enabling and industrial technologies*
 - i. *Information and Communication Technologies*

The official LEIT ICT WP 2014-15 is available at:

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-leit-ict_en.pdf

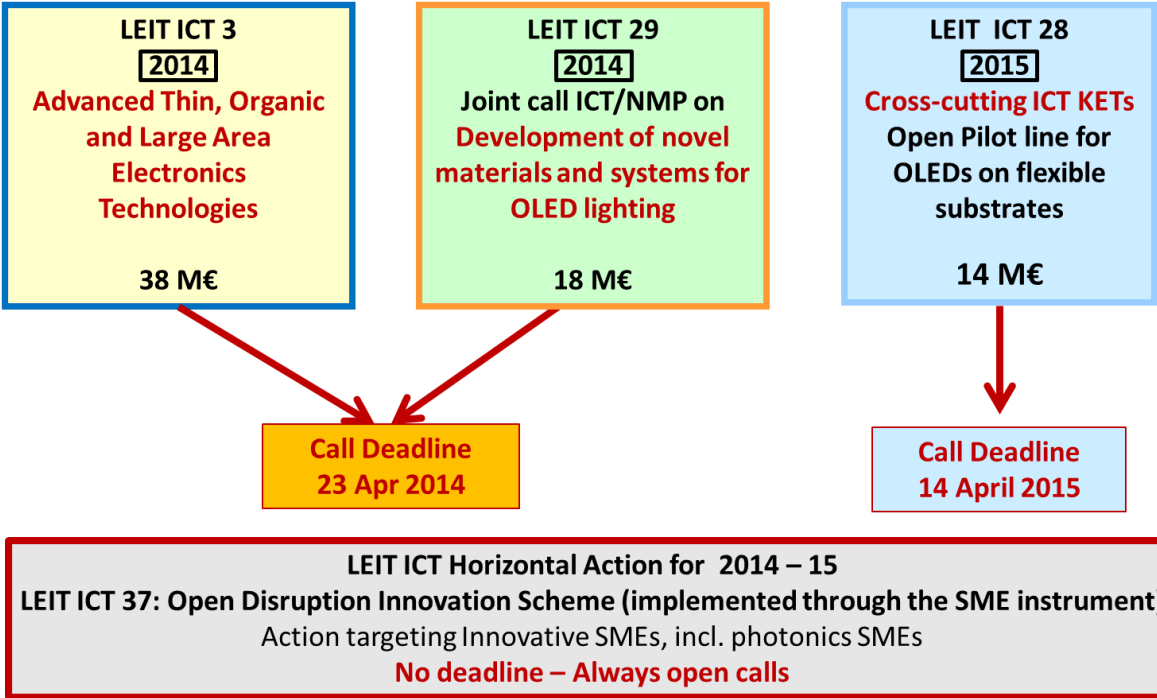
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DG CONNECT

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Overview of OLAE in Horizon 2020 – ICT in the LEIT Priority



2014 Calls

Proposals are invited against the following topics:

Topic ICT 3 – 2014: Advanced Thin, Organic and Large Area Electronics (TOLAE) technologies

Specific Challenge: TOLAE is an emerging technology and is the basis for advanced products in large area electronics that are thin, light weight, flexible and/or stretchable, suitable for large market sectors such as the textile, automotive, health, paper, plastic, advertising or construction industries.

Today however, most of the existing products are limited in functionality and performance and are suitable only to a few niche markets. Further efforts are needed to address the main technology barriers of TOLAE, in particular the lack of more efficient and stable materials and of more complex TOLAE circuitry and functionalities. The performance of components and the integration level should also be increased, connectivity should be enhanced and the route to manufacturability improved in terms of reproducibility and yield. Overall, the TOLAE value chain needs to be further developed and become more application-driven while paying attention to recyclability issues.

Scope:

a. Research & Innovation Actions¹ – Budget 17 M€

To advance the state of the art of TOLAE technologies and manufacturing processes and increase the performance, functionality and complexity of TOLAE devices suitable for smart systems. Focus is on conformable/flexible/stretchable substrates and on the development of advanced material, technologies and scalable manufacturing processes for achieving more functionality, better performance, longer lifetimes, higher mobility/conductivity, more uniformity and better encapsulation of TOLAE devices.

Actions may include related work on design tool development, modelling and design styles/rules. They could also include hybrid integration of micro/nano-electronics, photonics and organic electronics or specific needs for fibre and textile electronics.

All actions should demonstrate strong industrial and user commitment and be driven by user requirements. They should include standardisation, validation of results for the target applications and address the supply chain, as appropriate.

b. Innovation Actions² – Budget 15.5 M€

To develop and demonstrate novel, innovative products enabled by TOLAE technologies in smart packaging, advertisement and sensing by using suitable manufacturing options (sheet-to-sheet and/or roll-to-roll, printed and/or deposited) with the right balance between performance and volume. Each action should build a dedicated innovation value chain (preferably covering the full value chain). Proposals should contain prototype development and demonstration and may include small scale pilot manufacturing.

All actions should be driven by concrete business cases, and by a thorough attention to user needs and target medium- to high-volume markets. They should include business

1 Research & Innovation actions on OLEDs are addressed under ICT 29 as a joint LEIT ICT and NMP action.

2 Manufacturing of predominantly OLED products is addressed under ICT28.

plans for the targeted products with strong commitment to industrialise and manufacture them in Europe³.

c. Technology Take-up and Innovation Support actions – Budget 3 M€

Access services⁴ to industry, enabling the wider adoption and deployment of TOLAE technologies in innovative products, in particular by SMEs and driven by concrete user requirements and business cases. The action should be led by the TOLAE excellence centres and innovation clusters. It could include activities for improving skills development in TOLAE and for promoting TOLAE to young people, entrepreneurs and the general public.

Close synergies should be sought with existing similar actions and regional / national research and innovation strategies for smart specialisation.

d. Innovation support through pre-commercial public procurement actions – Budget 2.5 M€

Enabling the take-up and deployment of electronic and photonic textile technology developments for health care applications.

Expected impact:

a. Research & Innovation Actions

- Reinforced industrial leadership in advanced TOLAE technologies and products addressing high-impact, high-volume applications.
- Demonstrable break-through innovations in TOLAE functionality or performance and/or in TOLAE manufacturability with high reproducibility and yield.
- Improved business opportunities and value creation in Europe by reinforced cooperation along the value chain.

b. Innovation Actions

- Effective market introduction of new and highly competitive TOLAE products targeting high impact markets/applications in smart packaging, advertisement and sensing.
- Overcoming the "valley of death" and building advanced manufacturing capabilities and first exploitation opportunities in Europe.

c. Technology Take-up and Innovation and support Actions

- Reinforced innovation effectiveness of TOLAE excellence centres and innovation clusters in particular towards SMEs.
- Broad take-up of TOLAE technologies in innovative products by at least 40 SMEs substantially improving their innovation capacity and time-to-market and with demonstrable revenue growth.
- Increased awareness and education and training skills in TOLAE.

d. Innovation support through pre-commercial public procurement actions

- Wide diffusion of innovative and cost-effective electronic and photonic textile technology developments by pre-commercial procurement at the hospital or the point of care, enabling significant patient's care improvement while boosting productivity and employment.

3 Wherever appropriate, they 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 public financing should include a concrete financial plan detailing the use of these funding sources for the different parts of their activities.

4 Access services provide fast access to knowledge, training, prototyping, testing, manufacturing, design or engineering services for first users and early adopters, in particular SMEs.

Types of action:

- a. Research & Innovation Actions: Budget 17 M€, project proposals requesting a *Small contribution* (i.e., 2 – 4 M€) are expected – 100% EU funding
- b. Innovation Actions: Budget 15.5 M€, project proposals requesting a *Large contribution* (i.e., 5 – 8 M€) are expected – 70% EU funding
- c. Research & Innovation Actions: Budget 3 M€, One proposal requesting a *Small contribution* (i.e., 2 – 4 M€) is expected to be selected – 100% EU funding
- d. Pre-Commercial Procurement (PCP) Cofund actions; Budget 2.5 M€, any remaining funds will be transferred to types of action a and b.

➔ Call opening on 11 December 2013 and closing on 23 April 2014 at 17:00 Brussels time.

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

Topic ICT 29 – 2014: Development of novel materials and systems for OLED lighting⁵

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.
- Improved business opportunities and value creation in Europe in lighting by reinforced cooperation along the value chain.

Type of Action:

⁵ This topic is jointly supported by LEIT ICT and NMP.

Research & Innovation Actions – Project *Proposals requesting a Small contribution* (i.e., 2-4 M€) are expected - 100% EU funding, with 18 M€ budget: 9 M€ from LEIT ICT and 9 M€ from LEIT NMP.

→ Call opens 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 Calls:

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€

(...)

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 Europe⁶. 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:**
(...)
- **Pilot line for PIC fabrication on III-V and/or dielectric based platforms**

⁶ 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 – Budget: 1 M€

(...)

Expected impact:

a. Innovation actions

- (...)

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.
- Effective market introduction of new and highly competitive OLEDs and MIR sensing products.
- (...)
- Improved value creation in Europe through stronger value and supply chains involving relevant industrial stakeholders.

c. Coordination and Support actions

- (...)

Types of action:

a. Innovation Actions (...)

b. Innovation Actions, TRLs 5-7 (please see part G of the General Annexes). Budget: 42 M€. 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.

Specific Activities for Innovative ICT SMEs (including OLAE 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:

ICT37 [SME instrument]	Phase 1	Phase 2	Phase 1	Phase 2
Open call cut-off dates	18/06/2014	09/10/2014	[18/03/2015	[18/03/2015
	24/09/2014	17/12/2014	17/06/2015	17/06/2015
	17/12/2014		17/09/2015	17/09/2015
			16/12/2015]	16/12/2015]

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

Conditions for these calls

1. ICT LEIT CALL:

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 01/03/2014⁷ for phase 1 and phase 2 and topic ICT14 that opens on 15 July 2014.

Deadline(s) ^{8 9}: at 17.00.00 Brussels time on the following dates

ICT3 ICT29	23 April 2014			
ICT37 [SME instrument] Open call cut-off dates	Phase 1 18/06/2014 24/09/2014 17/12/2014	Phase 2 09/10/2014 17/12/2014	Phase 1 [18/03/2015 17/06/2015 17/09/2015 16/12/2015]	Phase 2 [18/03/2015 17/06/2015 17/09/2015 16/12/2015]

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.

<i>All single stage</i>		2014 EUR million	2015 EUR million
Advanced Thin, Organic and Large Area Electronics (TOLAE) technologies	ICT3.a	17	
	ICT3.b	15.5	
	ICT3.c	3	
	ICT3.d	2.5	
Development of novel materials and systems for OLED lighting	ICT29	18 ¹⁰	
Open Disruptive innovation Scheme (ODI)	ICT37 [SME instrument]	45 of which 4.5 for phase1 39.6 for phase2 0.9 for mentoring & coaching support and phase 3.	45 of which 4.5 for phase1 39.6 for phase2 0.9 for mentoring & coaching support and phase3.
	Single stage for both phase 1 and phase 2 The budget available for phase 1 and phase 2 will be divided equally between each cut-off date.		

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:

ICT37 [SME instrument]	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.
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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:

¹⁰ EUR 9M from the LEIT-ICT part 2014 budget and EUR 9M from the LEIT-NMP part 2014 budget

ICT37 [SME instrument]	<p>Proposals will be evaluated individually when they arrive. They will be ranked after the respective cut-off dates.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Applicants can provide during the electronic proposal submission up to three names of persons that should not act as an evaluator in the evaluation of their proposal for potential competitive reasons¹¹.</p>
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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:

	Information on the outcome of the evaluation (<i>single or first stage</i>)	Information on the outcome of the evaluation (<i>second stage</i>)	Indicative date for the signing of grant agreements
All topics except ICT37 (SME instrument)	Maximum 5 months from the final date for submission	-	Maximum 3 months from the date of informing applicants
ICT37 [SME instrument]	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.		One month from the date of informing applicants in phase 1 and two months from the date of informing applicants in phase 2.

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.

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 2014¹²

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

For all topics	[14 April 2015] ¹³
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<i>All single stage</i>		2015 EUR million
Cross-cutting ICT KETs	ICT28.a	13
	ICT28.b	42
	ICT28.c	1

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	<u>Evaluation criteria, scoring and threshold</u> : 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 <ul style="list-style-type: none"> • 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. Impact¹⁴ The extent to which the outputs of the project could contribute at the European and/or

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.

¹⁴ The score for the criterion "impact" will be multiplied by 1.5.

	<p>International level to:</p> <ul style="list-style-type: none"> • 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. <p>3. Quality and efficiency of the implementation</p> <ul style="list-style-type: none"> • 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. <p>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.</p> <p>Operational Capacity (selection criteria)</p> <p>* 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.</p>
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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:

	Information on the outcome of the evaluation (<i>single or first stage</i>)	Information on the outcome of the evaluation (<i>second stage</i>)	Indicative date for the signing of grant agreements	
All topics	Maximum 5 months from the final date for submission	-	Maximum 3 months from the date of informing applicants	

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.