

Call	Topic	Standardization reference	Type of Action	Call Deadline	Call Budget
Societal Challenges Pillar H2020-MG-2015 - MOBILITY FOR GROWTH 2014-2015					
H2020-MG-2015_TwoStages				2015-04-23	€144,500,000
	MG-3.6a-2015: Safe and connected automation in road transport	<u>Scope:</u> Liability and standardisation policy and regulatory framework recommendations could be formulated as appropriate.			
H2020-MG-2015_SingleStage-A				2015-04-23	€21,000,000
	MG-1.10-2015: International cooperation in aeronautics with China MG-1.8-2015: International cooperation in aeronautics with Japan MG-1.9-2015: International cooperation in aeronautics with Canada	Specific challenge: In order to leverage resources, mitigate risks and establish long term relationships, the European aeronautics sector should identify topics of common interest and mutual benefit with other regions of the world, in particular where these address societal challenges such as a worldwide safe and environmental-friendly air transport system, common standards (including for environmental aspects) and win-win situations for technological development.			

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	MG-9.1-2015: Transport societal drivers	<u>The action plan should focus on:</u> Exploring implications for policies, regulations, standards , forms of governance			
H2020-MG-2015-Singlestage-B				2015-10-15	€18,500,000
	MG-3.6b-2015: Safe and connected automation in road transport	<u>Scope:</u> Proposals could be Research and Innovation Actions or Coordination and Support Actions. Research and Innovation Action proposals should address one or more of the following aspects to support gradual progress towards full automation: Liability and standardisation policy and regulatory framework recommendations could be formulated as appropriate.			
	MG-8.3-2015: Facilitating market take up of innovative transport infrastructure solutions	<u>Scope:</u> The work should contribute to the revision /development of relevant standards and regulatory framework, and to study strategies oriented to favour the innovation in transport sector. <u>Expected impact:</u> Build a coherent basis for progressive step changes to regulation, standardisation and public procurement practices fostering innovation and sustainability in transport infrastructure.			

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Societal Challenges Pillar H2020-GV-2015 - GREEN VEHICLES 2015					
H2020-GV-2015 - GREEN VEHICLES 2015				2015-10-15	€30,000,000
	GV-8-2015: Electric vehicles' enhanced performance and integration into the transport system and the grid	<u>Scope:</u> Challenges in safety, security, reliability and robustness, including electro-magnetic compatibility, are to be addressed. Work shall pursue a high degree of standardisation and cover the entire electric vehicle value chain. – Contribution to standardisation of BMS components and interfaces. <u>Expected impact:</u> Proposals will have to contribute to the expected impacts listed below whenever relevant for the selected domain: Contributions to standardisation strengthening the competitiveness of the European industry.			
Societal Challenges Pillar H2020-FCT-2015 - FIGHT AGAINST CRIME AND TERRORISM					
H2020-FCT-2015 - FIGHT AGAINST CRIME AND TERRORISM				2015-08-27	€44,260,000

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	FCT-01-2015: Forensics topic 1: Tools and infrastructure for the extraction, fusion, exchange and analysis of big data including cyber-offenses generated data for forensic investigation	The scope of this topic is threefold: Platforms should also provide users with semi-interactive techniques for understanding and visualizing data, including interdisciplinary approaches based on common, possibly standardized, ontologies and the exploitation of automated reasoning, information retrieval, and filtering tools. Data exchange between LEA and network operators shall be standardized for fast and efficient processing.			
	FCT-02-2015: Forensic topic 2: Advanced easy to use in-situ forensic tools at the scene of crime	<u>Scope:</u> Proposals for this topic should focus on the development methodologies of tools and EU-wide standards for the secure storage, smart visualisation, access and the rapid exchange of forensic data supporting evidence. Specific areas of research could be: - Development of an analysis platform that could be deployed at the scene of the crime and which can be validated against the currently used forensic guidelines and standards.			

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Societal Challenges Pillar H2020-BES-2015 - BORDER SECURITY AND EXTERNAL SECURITY					
H2020-BES-2015				2015-08-27	€20,090,000
	BES-03-2015: Maritime Border Security topic 3: Light optionally piloted vehicles (and sensors) for maritime surveillance	<u>Specific challenge:</u> A particular weakness lies in communications capabilities among the mobile assets and the control centres (in particular in relation to tactical communications, interoperability and standardization). <u>Phase 0:</u> The participating users/buyers of R&D service should agree on common performance levels and associated specifications for the detection, early identification, and tracking of moving targets, as well as on communication specifications, standards and interfaces for information exchanges between platforms (be them surface or airborne). Interoperability to existing systems should be analysed. <u>Phase 2:</u> The research and specification work should lead to at least 3 prototypes, each consisting of a system including communicating airborne and seaborne equipped platform(s). Prototyping should contribute to standardisation, including of naval construction.			
	BES-05-2015: Border crossing points topic 1: Novel mobility concepts for land border security	<u>Expected impact:</u> Harmonization of requirements across Member States and Associated Countries (and standardization) is expected to also automatically greatly improve affordability.			

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	BES-10-2015: Information management topic 1: Civilian humanitarian mission personnel tracking	<u>Scope:</u> The proposed solution should integrate and/or complement seamlessly the communication system in use (either standard or specific) and, if any, the Control and Command system in place (even if abroad).			
	BES-11-2015: Information management topic 2: Information management, systems and infrastructure for civilian EU External Actions	1. <u>Expected impact:</u> the participants' commitment to make the standards , specifications, and all other relevant documents generated in the action available at actual cost of reproduction to any law enforcement or first responder organization established in an EU or EEA country. 2. the participants' agreement to negotiate in good faith and on a case by case basis, licenses to the background necessary for the implementation and use of the contents of the standards , specifications, design, research roadmaps, tender packages or other tender documents generated in the action.			
Societal Challenges Pillar H2020-DRS-2015 - DISASTER-RESILIENCE: SAFEGUARDING AND SECURING SOCIETY, INCLUDING ADAPTING TO CLIMATE CHANGE					
H2020-DRS-2015				2015-08-27	€93,070,000

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	DRS-06-2015: Crisis management topic 6: Addressing standardisation opportunities in support of increasing disaster resilience	Topic is specifically on standardisation			
	DRS-13-2015: Critical Infrastructure Protection topic 2: Demonstration activity on tools for adapting building and infrastructure standards and design methodologies in vulnerable locations in the case of natural or man-originated catastrophes	<u>Specific challenge:</u> One of the responses to be better prepared to crises related to hazards is to adapt building standards and infrastructure in order to limit the risks of demolition, protect critical infrastructure and save human lives in the case of a major event. As a complement to current research in this area, and based on the knowledge of risks (natural or man-originated) in vulnerable areas in Europe, building standards should be developed and tested, applying a number of technological means and design procedures. <u>Scope:</u> The proposal shall develop an EU methodological guide with recommendations and software tools for adapting building and infrastructure standards and design methodologies taking into account vulnerability induced man-made or natural impacts. <u>Expected impact:</u> More effective building standards and design methodologies for infrastructures and households located in vulnerable areas. Enhanced security of citizens and assets in such areas.			

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	DRS-09-2015: Disaster Resilience & Climate Change topic 1: Science and innovation for adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices	<u>Specific challenge:</u> A more standardised basis (including transferable, widely applicable tools and methods) for assessing potential climate change impacts, vulnerabilities, costs, benefits, risks and opportunities;			
	DRS-18-2015: Communication technologies and interoperability topic 1: interoperable next generation of broadband radio communication system for public safety and security	<u>Scope:</u> Further to ongoing standardization efforts the users/potential buyers will have to ensure that manufacturers actually implement the PPDR-specific interoperability functions, and that users and operators test the first version of the systems as well as for their evolutions. 1. <u>Expected impact:</u> the participants' commitment to make the standards, specifications, and all other relevant documents generated in the action available at actual cost of reproduction to any law enforcement or first responder organization established in an EU or EEA country. 2. the participants' agreement to negotiate, in good faith and on a case by case basis, licenses to the background necessary for the implementation and use of the contents of the standards, specifications, design, research roadmaps, tender packages or other tender documents generated in the action.			

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Industrial Leadership Pillar H2020-SMEINST-2015 - HORIZON 2020 DEDICATED SME INSTRUMENT					
H2020-SMEINST-1-2015				2015-12-16	€26,557,000
	PHC-12-2015-1: Clinical research for the validation of biomarkers and/or diagnostic medical devices	<u>Scope:</u> In addition, validation of the clinical performance of new diagnostic devices can be supported, either in combination with the biomarker validation, or against existing standards .			
H2020-SMEINST-2-2015				2015-12-16	€233,701,600
	PHC-12-2015: Clinical research for the validation of biomarkers and/or diagnostic medical devices	<u>Scope:</u> In addition, validation of the clinical performance of new diagnostic devices can be supported, either in combination with the biomarker validation, or against existing standards .			

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Societal Challenges Pillar H2020-WATER-2014-2015 - WATER INNOVATION: BOOSTING ITS VALUE FOR EUROPE					
H2020-WATER-2014-one-stage		No specific reference to standardization in this call		2015-04-21	€21,000,000
H2020-WATER-2014-two-stage				2015-04-21	€75,000,000
	WATER-1b-2015: Demonstration/pilot activities	<u>Scope:</u> Social, institutional, economic and governance aspects ensuring a more rapid uptake of solutions as well as aspects affecting market deployment and uptake, such as, standardisation and regulatory issues, market assessment and business plan, should be considered where appropriate.			
Societal Challenges Pillar H2020-INSO-2015 - NEW FORMS OF INNOVATION					
H2020-INSO-2015				2015-05-28	€13,670,000
	INSO-4-2015: Innovative schemes for open innovation and science 2.0	<u>Expected impact:</u> The actions will also foster the widest possible use of new training provision through standards on inter-operability, quality assurance and recognition of the training modules towards degrees of accredited universities.			

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Societal Challenges Pillar H2020-EE-2015 - ENERGY EFFICIENCY - MARKET UPTAKE					
H2020-EE-2015-4-PDA		No specific reference to standardization in this call		2015-06-04	€18,500,000
H2020-EE-2015-3 MarketUptake				2015-06-04	€40,800,000
	EE-05-2015: Increasing energy performance of existing buildings through process and organisation innovations and creating a market for deep renovation	<u>Specific challenge:</u> The heterogeneity of the construction industry, the large number of companies and the relative lack of quality standards and inspection protocols and guidelines limit the number and impact of large-scale energy efficiency investments and the effective integration of renewable energies. <u>Scope:</u> Development, testing and/or implementation of regulations; property valuation techniques; decision-making tools for renovation strategies; quality standards; and/or inspection and monitoring mechanisms to bridge the gap between expected and actual energy performance.			
	EE-07-2015: Enhancing the capacity of public authorities to plan and implement sustainable energy policies and measures	<u>Scope:</u> Defining and implementing standard energy saving packages for households, public sector and industry in particular under Article 7 of the Energy Efficiency Directive.			

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	EE-14-2015: Removing market barriers to the uptake of efficient heating and cooling solutions	<u>Specific challenge:</u> adaptation and compatibility/connectivity with low energy building standards			
	EE-16-2015: Organisational innovation to increase energy efficiency in industry	<u>Scope:</u> Industrial systems efficiency benchmarking: Devise methods and tools including ICT to compare and benchmark the energy performance of industrial systems, processes and develop guidelines for tailored measures, in particular in energy-intensive industries. Such methods and tools should be based on existing standards where applicable.			
	EE-19-2015: Improving the financeability and attractiveness of sustainable energy investments	<u>Scope:</u> Project proposals and activities should foster dialogue with and between financial market actors, standardisation and valuation entities, industry, public authorities, consumers and property owners. Proposals focusing on the development of frameworks for standardisation and benchmarking of investments, such as labelling and standardisation of sustainable energy investments / portfolios, or valuation techniques integrating the 'green value' of buildings. <u>Expected impact:</u> Reduced uncertainty, increased investors' confidence, trust towards and reliability of energy efficiency investments. Valuation methodologies agreed by the market. Standardised descriptions of sustainable energy investments or measures/contracts.			

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Societal Challenges Pillar H2020-EE-2015-2-RIA - ENERGY EFFICIENCY RESEARCH & INNOVATION					
H2020-EE-2015-2-RIA				2015-06-04	€21,850,000
	EE-06-2015: Demand response in blocks of buildings	<u>Scope:</u> Solutions should be compatible with smart grids and open international standards and with the distribution network infrastructure.			
Societal Challenges Pillar H2020-SC5-2015 - GROWING A LOW CARBON, RESOURCE EFFICIENT ECONOMY WITH A SUSTAINABLE SUPPLY OF RAW MATERIALS					
H2020-SC5-2015-two-stage		No specific reference to standardization in this call		2015-04-21 Stage 2 2015-09-08	€50,000,000
H2020-SC5-2015-one-stage				2015-04-21	€116,000,000
	SC5-02-2015: ERA for Climate Services	<u>Scope:</u> The objective should be to undertake research actions to develop better tools, methods and standards on how to produce and use reliable data, new sets of projections and impact indicators relevant for users' needs and capabilities.			

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Societal Challenges Pillar H2020-SCC-2015 - CALL – SMART CITIES AND COMMUNITIES					
H2020-SCC-2015				2015-05-05	€108,180,000
	SCC-03-2015: Development of system standards for smart cities and communities solutions	<u>Scope</u>: Today the standards are developed for specific components or areas such as smart meters, smart grids, ICT etc. With the development of integrated solutions of Smart Cities and Communities a system approach is needed. Furthermore through standardisation the solutions identified by smart cities and communities can envisage costs reductions. It is expected that this work is carried out by the industries cities and communities contributing to the Smart Cities and Communities European Innovation Partnership in cooperation with the European Standardisation Organisations (CEN, CENELEC, ETSI) as well as other Standard Developing Organisations (SDOs) responsible for technical specifications in the area of Smart Cities. Social acceptance of developed solutions might be considered.			
Societal Challenges Pillar H2020-WASTE-2015 - WASTE: A RESOURCE TO RECYCLE, REUSE AND RECOVER RAW MATERIALS					
H2020-WASTE-2015-one-stage				2015-04-21	€4,000,000

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	WASTE-4d-2015: Raw materials partnerships	<u>Specific Challenge:</u> The complexity and heterogeneity of waste streams require coordination and networking between researchers, entrepreneurs and public authorities to harmonise technologies, processes and services, to profit from benchmarking, sharing best practices, and gender mainstreaming, and to use or develop standards . Dissemination at international level of knowledge on waste management, including environmental regulations and standards , can contribute to turning waste into a resource at global level and to setting up resource efficient waste management systems and technologies and services, particularly in developing countries and emerging economies.			
H2020-WASTE-2015-two-stage				2015-04-21 Stage 2 2015-09-08	€54,000,000
	WASTE-6a-2015: Eco-innovative solutions	<u>Expected impact:</u> Contribution to development of standards , validated by key industrial players, and identifying best available and emerging techniques under the Industrial Emissions Directive.			
	WASTE-7-2015: Ensuring sustainable use of agricultural waste, co-products and by-products	<u>Expected impact:</u> Progress towards regulatory and standard development, in particular with respect to environmental protection and food safety.			

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Societal Challenges Pillar H2020-REFLECTIVE-6-2015 - REFLECTIVE SOCIETIES: CULTURAL HERITAGE AND EUROPEAN IDENTITIES					
H2020-REFLECTIVE-6-2015		No specific reference to standardization in this call		2015-05-28	€10,000,000
Societal Challenges Pillar H2020-YOUNG-SOCIETY-2015 - THE YOUNG GENERATION IN AN INNOVATIVE, INCLUSIVE AND SUSTAINABLE EUROPE					
H2020-YOUNG-SOCIETY-2015		No specific reference to standardization in this call		2015-05-28	€9,450,000
Societal Challenges Pillar H2020-EURO-SOCIETY-2015 - OVERCOMING THE CRISIS: NEW IDEAS, STRATEGIES AND GOVERNANCE STRUCTURES FOR EUROPE					
H2020-EURO-SOCIETY-2015		No specific reference to standardization in this call		2015-05-28	€5,000,000
Societal Challenges Pillar H2020-REFLECTIVE-SOCIETY-2015- REFLECTIVE SOCIETIES: CULTURAL HERITAGE AND EUROPEAN IDENTITIES					
H2020-REFLECTIVE-SOCIETY-2015				2015-05-28	€17,500,000
	REFLECTIVE-4-2015: Cultural opposition in the former socialist countries	Scope: The register should provide a standardized , researchable and reusable dataset and tools should be developed to explore it.			

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Societal Challenges Pillar H2020-LCE-2015 – CALL FOR COMPETITIVE LOW-CARBON ENERGY					
H2020-LCE-2015-2				2015-05-05	€93,000,000
	LCE-03-2015: Demonstration of renewable electricity and heating/cooling technologies	Photovoltaics: PV integrated in the built environment – Building integrated photovoltaic (BIPV) systems will become essential elements in future net zero energy buildings provided a number of challenges are solved, e.g. integration with other functional building components, flexibility in system design, architectural and aesthetic considerations and standardisation, smart interaction with the grid, extension of the lifetime of system components, and cost reduction. <u>Scope:</u> This work package has to demonstrate the business case of the technology solution and has to identify potential issues of public acceptance, market and regulatory barriers including standardisation needs, financing and other supply-side issues of relevance.			
	LCE-12-2015: Demonstrating advanced biofuel technologies	<u>Scope:</u> This work package has to demonstrate the business case of the technology and identify potential issues of public acceptance, market and regulatory barriers, including standardisation needs.			

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H2020-LCE-2015-3				2015-05-05	€175,350,000
	LCE-14-2015: Market uptake of existing and emerging sustainable bioenergy	<u>Scope:</u> Ensuring development and / or implementation of quality and sustainability standards for bioenergy in all its forms;			
	LCE-23-2015: Supporting the community in deploying a common framework for measuring the energy and environmental efficiency of the ICT-sector	<u>Specific Challenge:</u> International standardisation bodies and fora (like the ITU, ETSI, IEC and the GHG Protocol) and the Joint Research Centre of the European Commission had developed over the last years a framework of metrics, methodologies and best practices in measuring the energy and environmental efficiency of the ICT-sector.			
	MG-8.3-2015: Facilitating market take up of innovative transport infrastructure solutions	<u>Scope:</u> The work should contribute to the revision /development of relevant standards and regulatory framework, and to study strategies oriented to favour the innovation in transport sector. <u>Expected impact:</u> Build a coherent basis for progressive step changes to regulation, standardisation and public procurement practices fostering innovation and sustainability in transport infrastructure.			

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H2020-LCE-2015-4				2015-05-05	€10,000,000
	LCE-13-2015: Partnering with Brazil on advanced biofuels	<u>Scope:</u> All proposals have to include a work package on 'the business case' of the technology solution being addressed. That work package has to demonstrate the business case of the technology and identify potential issues of public acceptance, market and regulatory barriers, including standardisation needs.			
Societal Challenges Pillar					
H2020-INT-2015 - EUROPE AS A GLOBAL ACTOR					
H2020-INT-INCO-2015		No specific reference to standardization in this call		2015-05-12	€10,350,000
H2020-INT-SOCIETY-2015				2015-05-28	€25,000,000
INT-08-2015: The European Union and the Eastern Partnership		<u>Scope:</u> Research should include stock-taking of existing bilateral relations between the EU and all countries in the region as well as between these countries inter se. It should explicitly adopt the perspective of the examined countries so as to promote the understanding within the EU of the region and its challenges. Emphasis should be put on the adaptation of economies and societies of the Eastern Partnership countries to European standards .			

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Industrial Leadership Pillar H2020-PROTEC-2015 - PROTECTION OF EUROPEAN ASSETS IN AND FROM SPACE-2015-LEIT SPACE					
H2020-PROTEC-2015		No specific reference to standardization in this call		2015-04-08	€6,500,000
Industrial Leadership Pillar H2020-EO-2015 - EARTH OBSERVATION-2015-LEIT SPACE					
H2020-EO-2015				2015-04-08	€25,000,000
	EO-1-2015: Bringing EO applications to the market	<u>Scope:</u> Application products are expected to adopt open standards for data documentation, data models and services.			
	EO-2-2015: Stimulating wider research use of Copernicus Sentinel Data	<u>Scope:</u> The ability to access diverse space data archives, of large volumes of data, the use of standardised forms of data query, retrieval, formats and data exchange methods will be central to these tasks.			
Industrial Leadership Pillar H2020-COMPET-2015 - H2020-LEIT-SPACE-COMPETITIVENESS OF THE EUROPEAN SPACE SECTOR-2015					
H2020-COMPET-2015		No specific reference to standardization in this call		2015-04-08	€39,000,000

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Industrial Leadership Pillar H2020-Galileo-2015-1 - APPLICATIONS IN SATELLITE NAVIGATION-GALILEO-2015					
H2020-Galileo-2015-1				2015-04-08	€25,000,000
	GALILEO-1-2015: EGNSS applications	<u>Scope:</u> Research and innovation activities within this topic should take into consideration possibility of: Standardisation , certification, legal and societal acceptance, which will foster EGNSS adoption. <u>Expected impact:</u> Proposals should aim at the definition and implementation of pilot projects and development of the EGNSS-enabled applications that are close to the market and driven by user requirements with a high societal benefit and a potential to eventually set common standards in the field of GNSS applications.			
	GALILEO-3-2015: Releasing the potential of EGNSS applications through international cooperation	<u>Scope:</u> Activities under this topic will enable the development of innovative applications within international context and related standards with high international impact, ensuring that the EGNSS services are well known and can be used throughout the world.			

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Industrial Leadership Pillar H2020-LEIT-BIO-2015-1 - BIOTECHNOLOGY					
H2020-LEIT-BIO-2015-1				2015-03-26	€28,840,000 €86,500,000
	BIOTEC-2-2015: New bioinformatics approaches in service of biotechnology	<u>Scope:</u> Proposals should develop innovative bioinformatics approaches to close the gap between data availability and the discovery of new biotechnological applications. Proposals should in particular address the needs of SMEs active in the bioinformatics sector and should take into consideration international activities with the objective of fostering global solutions, standards and interoperability.			
	BIOTEC-6-2015: Metagenomics as innovation driver	<u>Specific challenge:</u> However, in order to expand their potential further, the metagenomic methodologies need to overcome a number of challenges such as those related mainly to standardisation of experimental design, screening, sequencing technologies and bioinformatics relevant techniques. <u>Expected impact:</u> Contribution to the standardisation work in the field at European and international level.			

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Industrial Leadership Pillar H2020-NMP-2015 - CALL FOR NANOTECHNOLOGIES, ADVANCED MATERIALS AND PRODUCTION					
H2020-NMP-ERA-NET-2015		No specific reference to standardization in this call		2015-03-26	€12,750,000
H2020-NMP-CSA-2015				2015-03-26	€2,650,000
	NMP-40-2015: Support for clustering and networking in the micro- & nanofluidics community	<u>Scope:</u> Clustering and networking activities could also include identification and preparation for demonstration and pilot-line activities, as well as other support activities that would be required, e.g. forming of industry alliances, pre-commercial procurement and (formal or industrial) standardisation			
H2020-NMP-PILOTS-2015				2015-03-26	€64,430,000
	NMP-03-2015: Manufacturing and control of nanoporous materials	<u>Scope:</u> The process and the material proposed should support and reflect developing guidance and standards relating to nanomaterials aspects. <u>Expected impact:</u> • Contribution to on-going and future standardisation work in the field[2] [2] See Mandate M/461 addressed by the European Commission to CEN/CENELEC and ETSI. http://www.cen.eu/cen/Sectors/Sectors/Nanotechnologies/Documents/M461.pdf			

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	NMP-06-2015: Novel nanomatrices and nanocapsules	<u>Scope:</u> Nanomatrices or nanocapsules as carriers for targeted delivery could also be addressed. Safety considerations and contribution to standardization should be an integral part of the projects. <u>Expected impact:</u> Identification of gaps in standards, paving the way for future pre-normative activities in the field.			
	NMP-07-2015: Additive manufacturing for tabletop nanofactories	<u>Expected impact:</u> Enabling the identification of future development needs in related fields, e.g. in seamless design-to-manufacturing software and standardization for material and process quality.			
H2020-NMP-2015-two-stage				2015-03-26 Stage 2 2015-09-08	€148,370,000
	NMP-12-2015: Biomaterials for treatment and prevention of Alzheimer's disease	<u>Scope:</u> Standardisation and manufacturing processes can be addressed, including upscaling, good manufacturing practice (GMP), process analytical technology (PAT), and regulatory work in respect of relevant regulations as appropriate.			
	NMP-19-2015: Materials for severe operating conditions, including added-value functionalities	<u>Scope:</u> Standardisation and/or the production of (certified) reference materials may also be addressed as an integrated part of the proposal.			

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	NMP-22-2015: Fibre-based materials for non-clothing applications	<u>Scope:</u> Dedicated multiscale modelling and characterisation, and standardisation or the production of (certified) reference materials may also be addressed.			
Industrial Leadership Pillar H2020-FoF-2015 – CALL FOR FACTORIES OF THE FUTURE					
H2020-FoF-2015				2015-02-04	€143,170,000
	FoF-08-2015: ICT-enabled modelling, simulation, analytics and forecasting technologies	<u>Scope:</u> Projects are expected to stimulate pre-normative or standardisation activities related to aspects such as information/knowledge exchange, data sharing, semantic technologies, tool integration, etc. <u>Expected impact:</u> Increased productivity during design and ramp-up phases and for higher mass customization capacity for big enterprises as well as SMEs through access to on-demand scalable manufacturing process chains and services and through agreed data standards .			
	FoF-11-2015: Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots	<u>Scope:</u> - Standardisation of the communication protocols and data structures fitting the plug and produce philosophy. <u>Expected impact:</u> Strong support for standardisation of communication protocols, data structures and tool connectivity.	Research & Innovation Actions		

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Industrial Leadership Pillar H2020-EeB-2015 - CALL FOR ENERGY-EFFICIENT BUILDINGS					
H2020-EeB-2015				2015-02-04	€62,480,000
	EeB-08-2015: Integrated approach to retrofitting of residential buildings	<u>Scope:</u> Standardisation issues to facilitate integration of system components should be addressed.			
Industrial Leadership Pillar H2020-SPIRE-2015 – CALL FOR SPIRE - SUSTAINABLE PROCESS INDUSTRIES					
H2020-SPIRE-2015				2015-02-04	€75,170,000
	SPIRE-06-2015: Energy and resource management systems for improved efficiency in the process industries	<u>Scope:</u> To facilitate a proper dissemination and use, it is expected that standards -based software for measuring critical footprint issues and relevant data used into the daily routine of the plants/clusters will be developed.			
Industrial Leadership Pillar H2020-EUB-2015 - EU-BRAZIL RESEARCH AND DEVELOPMENT COOPERATION IN ADVANCED CYBER INFRASTRUCTURE					
H2020-EUB-2015				2015-04-21	€7,000,000
	EUB-1-2015: Cloud Computing, including security aspects	<u>Scope:</u> The technologies developed should take into account interoperability and data portability issues and aim towards future standardization . <u>Expected impact:</u> Facilitate the development of cloud enabled applications through robust standardized global technologies. Joint contributions to International Standardization and/or Forum activities.			

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Industrial Leadership Pillar H2020-ICT-2015 – ICT 2015 - INFORMATION AND COMMUNICATIONS TECHNOLOGIES					
H2020-ICT-2015				2015-04-14	€561,000,000
	ICT-08-2015: Boosting public sector productivity and innovation through cloud computing services	<u>Specific challenge:</u> However, the adoption of cloud computing services by the public sector is inhibited by many barriers related to procurement, trustworthiness, technical standards and legal terms of reference, risk of lock-in etc. <u>Scope:</u> This may include standardisation , certification, contract terms and service level agreements for secure and interoperable cloud services.			
	ICT-19-2015: Technologies for creative industries, social media and convergence	<u>Scope:</u> Analysis and development of research agendas and roadmaps, pre-standardisation initiatives and stakeholder coordination in Convergence and Social Media			
	ICT-20-2015: Technologies for better human learning and teaching	<u>Scope:</u> Activities will focus on innovative technologies for learning, on the underpinning interoperability standards and on the integration of different components into smart learning environments. Establishing a technology platform to provide a framework and roadmap for stakeholders, led by industry in collaboration with academia, to develop innovative technologies for learning (adaptive solutions, learning analytics, augmented reality, mobile learning, etc.), address standards for interactive content (covering its composition, re-use and distribution) and its adaptations into learning scenarios.			

Call	Topic	Standardization reference	Type of Action	Call Deadline	Call Budget
	ICT-24-2015: Robotics	<u>Scope:</u> Supporting the European robotics community with respect to networking, education, outreach, public awareness, technology watch, standardisation , and industry-academia collaboration as well as building links to national programmes and initiatives.			
	ICT-25-2015: Generic micro- and nano-electronic technologies	<u>Scope:</u> International cooperation with USA and Asia in the areas of standardisation including in manufacturing (450 mm wafers); improved assessment of the potential impact on workers of the manipulation of nano-materials in the semiconductor fabrication process.			
	ICT-27-2015: Photonics KET	<u>Scope:</u> All RTD actions should address also the related materials, manufacturability, validation of results for the target applications, and standardisation activities, as appropriate.			
	ICT-30-2015: Internet of Things and Platforms for Connected Smart Objects	<u>Scope:</u> Measures for development of ecosystems driven by European players around the platforms e.g. communities of open API developers for low cost applications, networking of stakeholders, contribution to pre-normative activities and to standardisation , development of business models, innovation activities which aim at stimulating platform adoption (e.g. pre-commercial procurement), and activities to increase societal acceptance and foster specific education. <u>Expected impact:</u> Dissemination and availability of results for technology transfer and pre-normative activities e.g. in standardisation fora , open source initiatives and/or relevant bodies like the EIT.			

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	ICT-36-2015: Pre-commercial procurement open to all areas of public interest requiring new ICT solutions	<u>Expected impact:</u> Increased opportunities for wide market uptake and economies of scale for the supply side through the use of joint specifications, wide publication of results and where relevant contribution to standardisation , regulation or certification to remove barriers for introduction of PCP innovations into the market.			
Societal Challenges Pillar H2020-INSO-2015-CNECT - NEW FORMS OF INNOVATION					
H2020-INSO-2015-CNECT		No specific reference to standardization in this call		2015-05-28	€9,200,000
Societal Challenges Pillar H2020-EURO-6-2015 - OVERCOMING THE CRISIS: NEW IDEAS, STRATEGIES AND GOVERNANCE STRUCTURES FOR EUROPE					
H2020-EURO-6-2015		No specific reference to standardization in this call		2015-02-28	€12,000,000
Societal Challenges Pillar H2020-DS-2015-1 - DIGITAL SECURITY: CYBERSECURITY, PRIVACY AND TRUST					
H2020-DS-2015-1				2015-08-27	€50,210,000
	DS-04-2015: Information driven Cyber Security Management	<u>Scope:</u> Taking into account the large variety of IT systems and architectures in use today, the projects should strive to promote interoperability through the use of globally accepted open standards and wider uptake of any proposed solutions.			

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	DS-05-2015: Trust eServices	<u>Scope:</u> Key elements of the initiative will be the differential assessment of technical and organisational standards for trust services, as well as the development of a framework for 'global trust lists'.			
	DS-07-2015: Value-sensitive technological innovation in Cybersecurity	<u>Scope:</u> Drafting standards and guidelines for industry and the public sector to enable consumers to exert a high level of control over devices and services as well as to ensure accountability with respect to the acceptable usage of new digital technologies			
Excellent Science Pillar H2020-FETOPEN-2015-CSA - FET-OPEN - NOVEL IDEAS FOR RADICALLY NEW TECHNOLOGIES - COORDINATION AND SUPPORT ACTIONS 2015					
H2020-FETOPEN-2015-CSA		No specific reference to standardization in this call		2015-09-29	€3,000,000
Societal Challenges Pillar H2020-EE-2015-1-PPP - ENERGY EFFICIENCY - PPP EEB AND SPIRE TOPICS					
H2020-EE-2015-1-PPP		No specific reference to standardization in this call		2015-02-04	€17,000,000

Call	Topic	Standardization reference	Type of Action	Call Deadline	Call Budget
Societal Challenges Pillar H2020-PHC-2015 - PERSONALISING HEALTH AND CARE					
H2020-PHC-2015-single-stage_RTD		No specific reference to standardization in this call		2015-02-24	€88,000,000
H2020-PHC-2015-single-stage				2015-04-21	€104,500,000
	PHC-29-2015: Public procurement of innovative eHealth services	<u>Scope:</u> Wherever possible the work should build on and contribute to relevant standards to ensure interoperability and take into account best practices and relevant standardisation efforts as well as provide appropriate safeguards against relevant ethical and privacy issues;			
	PHC-30-2015: Digital representation of health data to improve disease diagnosis and treatment	<u>Specific challenge:</u> Digital personalised models, tools and standards with application for some specific clinical targets are currently available. The proposed systems should take advantage of the personal medical data accumulated over time. Proposals should include the standardisation of data formats.			
H2020-PHC-2015-two-stage		No specific reference to standardization in this call		2014-10-14 Stage 2 2015-04-21	€306,000,000

Call	Topic	Standardization reference	Type of Action	Call Deadline	Call Budget
Societal Challenges Pillar H2020-HCO-2015 - HEALTH CO-ORDINATION ACTIVITIES					
H2020-HCO-2015				2015-02-24	€29,000,000
	HCO-06-2015: Global Alliance for Chronic Diseases. Prevention and treatment of lung diseases	Scope: The funded researchers should meet annually to discuss their research and share information and data in order to develop approaches to standardise data collection, and wherever feasible to use these standardised approaches in their respective projects.			
Societal Challenges Pillar H2020-BG-2015 - BLUE GROWTH: UNLOCKING THE POTENTIAL OF SEAS AND OCEANS					
H2020-BG-2015-1		No specific reference to standardization in this call		2015-06-11	€2,000,000
H2020-BG-2015-2		No specific reference to standardization in this call		2015-02-03 Stage 2 2015-06-11	€36,000,000
Societal Challenges Pillar H2020-BG-2015 - BLUE GROWTH: UNLOCKING THE POTENTIAL OF SEAS AND OCEANS					
H2020-SFS-2015-1				2015-06-11	€500,000
	SFS-14b-2015: Authentication of food products	Specific challenge: In particular there is a need for the development, validation and pre- as well as co-normative activities followed by the standardization of a method for the assessment of the organoleptic characteristics based on the existing methods, reference materials and already performed research and development work			

Call	Topic	Standardization reference	Type of Action	Call Deadline	Call Budget
H2020-SFS-2015-2				2015-02-03 Stage 2 2015-06-11	€104,000,000
	SFS-13-2015: Biological contamination of crops and the food chain	<u>Expected impact:</u> contribution to legislation and standard setting			

Societal Challenges Pillar

H2020-ISIB-2015 - INNOVATIVE, SUSTAINABLE AND INCLUSIVE BIOECONOMY

H2020-ISIB-2015-1		No specific reference to standardization in this call		2015-06-11	€27,000,000
H2020-ISIB-2015-2		No specific reference to standardization in this call		2015-02-03 Stage 2 2015-06-11	€15,000,000

Societal Challenges Pillar

H2020-CS2-CPW01-2014-01 - CLEAN SKY 2 CALL FOR CORE PARTNERS WAVE 1

H2020-CS2-CPW01-2014-01		No specific reference to standardization in this call		2015-11-05	€206,000,000
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Call	Topic	Standardization reference	Type of Action	Call Deadline	Call Budget
Societal Challenges Pillar H2020-JTI-FCH-2014-1 - FCH2 JU CALL FOR PROPOSALS 2014					
H2020-JTI-FCH-2014-1				2014-11-06	€93,000,000
	FCH-01.1-2014: Standardization of components for cost-efficient fuel cell systems for transportation applications	Topic is specifically on standardisation			
	FCH-01.3-2014: Development of advanced fuel cell systems and system components	<u>Specific challenge:</u> A number of demonstration projects have already provided evidence about the maturity of fuel cell technology but further activities are necessary to fulfil automotive standards and requirements. <u>Scope:</u> These investigations should also include validation of reliability and durability targets envisaged by application of standard industrial methods			
	FCH-01.4-2014: Hydrogen storage standardisation and components optimization for mass production	Topic is specifically on standardisation			

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	FCH-01.6-2014: Engineering studies for large scale bus refuelling	<u>Scope:</u> Where opportunities exist for standardising components or specifications, these should be assessed across the five depots considered. O Establish a forum for exchange of data across the depot design projects on the potential for standardisation of the approach (or specific components)			
	FCH-01.7-2014: Large scale demonstration of refuelling infrastructure for road vehicles	<u>Expected impact:</u> • Comply with requirements of the directive on the deployment of alternative fuel infrastructure package directive (to be imminently published), particularly as regards its standardization requirements.			
	FCH-04.3-2014: Pre-normative research on vented deflagrations in containers and enclosures for hydrogen energy applications	<u>Specific challenge:</u> Nonetheless, the European standard EN 14994 “Gas explosion venting protective systems” has a very limited range of applicability and can hardly be used for vent sizing of hydrogen-air deflagrations. <u>Scope:</u> Conduct pre-normative research on hydrogen-air vented deflagrations in real-scale containers to prepare an International Standard on “hydrogen explosion venting mitigation systems” <u>Expected impact:</u> • Coordinated input to an International Standard on “hydrogen explosion venting mitigation systems” • Safe and successful introduction of hydrogen-energy systems into the market by definition of harmonised and standardised hydrogen vent sizing requirements for installations in enclosures			

Call	Topic	Standardization reference	Type of Action	Call Deadline	Call Budget
Societal Challenges Pillar H2020-JTI-IMI2-2014-01 - IMI2 1ST CALL FOR PROPOSALS 2014					
H2020-JTI-IMI2-2014-01				2014-11-12	€49,260,000
	IMI2-2014-01-01: Translational approaches to disease modifying therapy of Type 1 Diabetes Mellitus (T1DM)	<u>Scope:</u> It is expected that this initiative will significantly progress the molecular understanding of the pathophysiology of T1DM and of the impact provided by standard of medical care upon T1DM patients.			
Societal Challenges Pillar H2020-BBI-PPP-2014-1 - BIO BASED INDUSTRIES PPP					
H2020-BBI-PPP-2014-1				2014-10-15	€50,000,000
	BBI.VC1.D1: Lignocellulosic residues to (di)carboxylic acids, diols and polyols	<u>Scope:</u> Proposals will consider standardisation related activities expected to facilitate the market uptake of the developed bioproducts.			
	BBI.VC1.D2: Chemical building blocks and value-added materials through integrated processing of wood	<u>Scope:</u> The proposal will consider standardisation related activities expected to facilitate the market uptake of the developed bioproducts.			

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	BBI.VC1.R1: Efficient pre-treatment of lignocellulosic feedstock to advanced bio-based chemicals and biomaterials	<u>Specific challenge:</u> Despite the existence of pre-treatment methods already at demonstration plant level, the process itself still requires substantial optimisation towards a sustainable and economically viable standard .			
	BBI.VC2.D3: Advanced products from lignin and cellulose streams of the pulp and paper industry	<u>Scope:</u> Proposals will consider standardisation related activities expected to facilitate the market uptake of the developed bioproducts.			
	BBI.VC2.R3: New products from sustainable cellulose pulp exploitation	<u>Scope:</u> Proposals will consider potential standardisation -related activities expected to facilitate the market uptake of the developed products.			
	BBI.VC2.R4: Fibres and polymers from lignin	<u>Scope:</u> Proposals will consider potential standardisation -related activities expected to facilitate the market uptake of the developed products.			
	BBI.VC3.R6: Fermentation processes to obtain biosurfactants and specialty carbohydrates from agricultural and agro-industrial streams	<u>Scope:</u> Proposals will consider potential standardisation -related activities expected to facilitate the market uptake of the developed products.			

Call	Topic	Standardization reference	Type of Action	Call Deadline	Call Budget
	BBI.VC4.D5: Cost efficient manure valorisation on large scale	<u>Scope:</u> Proposals will consider potential standardisation -related activities expected to facilitate the market uptake of the developed products.			
	BBI.VC4.R9: Valuable products from heterogeneous biowaste streams	<u>Scope:</u> Proposals will consider potential standardisation -related activities expected to facilitate the market uptake of the developed products.			
Industrial Leadership Pillar H2020-SMEINST-2014 - HORIZON 2020 DEDICATED SME INSTRUMENT - PHASE 1 2014					
H2020-SMEINST-1-2014				2014-12-17	€25,102,000
	PHC-12-2014-1: Clinical research for the validation of biomarkers and/or diagnostic medical devices	<u>Scope:</u> In addition, validation of the clinical performance of new diagnostic devices can be supported, either in combination with the biomarker validation, or against existing standards .			
H2020-SMEINST-2-2014				2014-12-17	€220,897,600
	PHC-12-2014: Clinical research for the validation of biomarkers and/or diagnostic medical devices	<u>Scope:</u> In addition, validation of the clinical performance of new diagnostic devices can be supported, either in combination with the biomarker validation, or against existing standards .			

Call	Topic	Standardization reference	Type of Action	Call Deadline	Call Budget
Excellent Science Pillar H2020-FETHPC-2014 - FET-PROACTIVE - TOWARDS EXASCALE HIGH PERFORMANCE COMPUTING					
H2020-FETHPC-2014				2014-11-25	€97,400,000
	FETHPC-1-2014: HPC Core Technologies, Programming Environments and Algorithms for Extreme Parallelism and Extreme Data Applications	<u>Scope:</u> Proposals are expected to include communication and dissemination activities towards relevant standards bodies and research programmes.			
Excellent Science Pillar H2020-FETOPEN-2014-2015-RIA - FET-OPEN - NOVEL IDEAS FOR RADICALLY NEW TECHNOLOGIES - RESEARCH PROJECTS					
H2020-FETOPEN-2014-2015-RIA		No specific reference to standardization in this call		2015-09-29	€154,000,000
Industrial Leadership Pillar H2020-ICT-2014-2 - ICT 2014 - INFORMATION AND COMMUNICATIONS TECHNOLOGIES					
H2020-ICT-2014-2				2014-11-25	€125,000,000

Call	Topic	Standardization reference	Type of Action	Call Deadline	Call Budget
		<u>Scope:</u> Actions may address large scale validation, testing and standardisation in following domains - Analysis of international activities in the relevant 5G domains and identification of international co-operation opportunities, in view of fostering global solutions, standards and interoperability; - Support to standardisation bodies through early identification of promising technologies; <u>Expected impact:</u> - European industry driving the development of 5G standards, at least for the radio part, and to retain control of 5G SEP (standards essential patents), 20% as a minimum. International co-operation with countries having bold R&D initiatives in the field (Korea, Japan, US, China) may be considered on a win-win basis. <u>Support actions</u> The expected impact relates to the PPP management as a strategic European programme including projects cooperation, exploitation of results, dissemination and standardisation, coherent and systematic research approach, support to roadmapping and constituency building.			