

Waste: a resource to recycle, reuse and recover raw materials					
no	Topic	Scope	Call	Project type/funding rate	Participants interested
1	Innovative solutions for waste material flow management	Research should focus on the development of innovative systemic and costeffective solutions, including ICT tools for waste traceability, for waste material flowmanagement which will enable a clear estimate of the availability, composition and quality of waste in support of recycling and material recovery and leading to a monitoring system for the market of secondary raw materials. SME participation is considered essential.	Call 1 - 2014	Collaborative project (100%) Two stage	
2	A systems approach for the reduction, recycling and reuse of food waste	Proposals should both address approaches to reduce food waste and packaging materials generated at relevant stages of the food system and investigate ways to convert food waste into high quality, value-added by-products, using ICT solutions. Partnerships with industry/SMEs are encouraged and civil societiy organisations are supposed to be key players of the consortium.	Call 1 - 2014	Collaborative project (100%) One stage	A. Voinov
3	Demonstrating eco-innovative technologies for waste treatment	Projects should focus on the demonstration of innovative technologies for waste treatment, including urban waste, enhancing collection and recycling and the recovery of high-grade valuable materials from waste. The proposed solutions should demonstrate at an appropriate pilot scale an eco- innovative approach to waste treatment, which is building on the results of previous research (FP7, CIP). Industry participation is considered essential.	Call 1 - 2014	Collaborative project (70%) Two stage	

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4	Tackling waste sector fragmentation in Europe	Creation of a European network for the waste sector to foster synergies between all relevant stakeholders, e.g. research, industry, SME, public authorities and sectoral associations, to overcome the existing fragmentation of the waste sector and to exploit new market opportunities, also taking into account the role of citizens and education.	Call 1 - 2014	Coordination Action Single stage	
5	International knowledge transfer for waste management	The coordination action should support cooperation between the EU and developing countries and emerging economies on innovative waste management systems and technologies. The participation of partners from African countries is desirable.	Call 1 - 2014	Coordination Action Single stage	
6	Roadmap for electronic waste	The action will take a coordinated and far reaching approach to develop a European roadmap for the treatment of electronic waste from the ICT sector. Behavioural, social, political, cultural and institutional aspects should be taken into account in the development of the roadmap. Representatives across the whole ICT sector, standardisation organisations, waste management and recycling companies, public authorities/regulators) will be addressed.	Call 1 - 2014	Coordination Action Single stage	
7	Preventing, reducing, reusing and recycling waste materials along the production value chain	Multidisciplinary projects will target innovative industrial processes and services, that will enhance the recyclability of products, increase product life-spans, enable material reuse, recycling, recovery and reduce generation of waste along product chains and trigger sustainable behaviour among people. In the context of social innovation, gender differences in behaviour and the impact of public policy on waste management will be considered. Industry participation is considered essential. Civil society involvement is considered desirable.	Call 2 - 2015	Collaborative project (100%) Two stage	

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8	Reaching a circular economy through industrial symbiosis	Research will focus on technologies, business models for the establishment of industrial symbiosis and related economic and political aspects, in particular in the context of process industries, including other relevant sectors. It will demonstrate how industrial symbiosis can contribute to reducing waste generation, establishing materials closed loops, increasing competitiveness and preserving the environment. Clear benefits in terms of material/energy efficiency and potential for market uptake must be demonstrated. Industry participation is considered essential.	Call 2 - 2015	Collaborative project (100%) Two stage	
9	Urban metabolism: novel concepts and mechanisms to reconcile urban and natural resources management	Multi-disciplinary research and innovation approaches integrating the concept of 'ecosystem services' and 'green infrastructure' should investigate the relationship between use and consumption of social, economic and natural resources, address innovative approaches for waste management and analyse and characterize the flows of materials and energy arising from urban socio-economic activities and the links between urban development, environmental quality, lifestyles and metabolic flows.	Call 2 - 2015	Collaborative project (100%) Two stage	V. Jetten; A. Voinov; A. Skidmore
10	Ensuring sustainable use of agricultural waste and by-products	Research should focus on some or all of the following areas: Nutrient recovery from manure, in line with zero discharge objectives; Improve knowledge on environmental impact of manure, further developing measurements and GMP good manufacturing practices, minimising impact on water and air quality (emissions and odours); Sanitary implications of pathogens that can be transmitted from manure. Possible control options could be also considered; Management chains, from processing to transport and	Call 2 - 2015	Collaborative project (100%) One stage	
11	Recycling of raw materials from	This action focuses on recycling of complex end-of-life products and buildings. In particular it aims at: Developing innovative technological	Call 2 - 2015	Collaborative project (100%) One stage	

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12	Converting biodegradable wastes into high added value products in biorefineries applying a cascading approach	The conversion should take place in biorefineries and involve a cascading approach. The cascading approach is in line with the waste hierarchy. It implies that the biowaste is used for the highest added value application (e.g. bio-based products over incineration for energy) and that by-products/waste streams from the production processes are again used as a raw material for other purposes. The project should make use of life cycle assessments (LCAs).	Call 2 - 2015	Collaborative project (70%) One stage	
13	Inducement Prize	Subject to the outcome of the ongoing study undertaken by RTD/C, which includes an item on Challenge 5.			

Water Innovation: boosting its value for Europe					
No	Topic	Scope	Call	Project type/funding rate	Participants interests
1	Interactions and trade-offs between sustainable energy, land use, water resources and climate change	To develop tools and methodologies for integrating agriculture, forestry, climate change impacts and adaptation with climate-energy-economic models and land-use models, using a multi-disciplinary approach. Research should investigate the potential role, contribution and limits of mitigation options, such as bioenergy technologies, bioenergy with CCS (carbon capture and storage) and energy and resource efficiency in future mitigation pathways. Societal, political, institutional and behavioural aspects of the land-use and water systems and the possible mitigation options, should be taken into account. International cooperation is encouraged.	Call 1 - 2014	Collaborative project (100%) Two stage	A. Vrieling; T. Filatova; C.A. de Bie; P.W. Gerbens-Leenes; A. van der Veen; A. Skidmore; V. Jetten; M. Booij; P. van Oel

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No	Topic	Scope	Call	Project type/funding rate	Participants interests
2	Supporting the implementation needs of various EU water related policies	The aim of this action is to support the implementation needs and gaps of current EU water policies, tackling over-allocation of water, increasing water efficiency, reducing vulnerabilities to floods and droughts, and ensuring the integration of water policy objectives into other relevant policy areas. Proper attention to the socio-economic dimension of water resources management issues should be given. Consideration should be given to research gaps identified through the WFD Common Implementation Strategy/Science-Policy activity (CIS-SPI) as well as through relevant European Technology Platforms. Actions to establish river basin networks will be also supported.	Call 1 - 2014	Collaborative project (100%) Two stage	A. van der Veen
3	Market replication of eco-innovative water solutions	This action aims to support projects concerned with the first application or market replication of eco-innovative water technologies, products, services or practices of EU added value, which have already been technically demonstrated with success but which, owing to residual risks, have not yet penetrated the market in the priority areas identified in the 1st SIP of the EIP Water. Where appropriate, social and economic issues aiming to ensure a more rapid uptake of innovative solutions should be also considered. The participation of SMEs is considered to be essential.	Call 1 - 2014	Collaborative project (70%) Two stage	

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4	Harnessing EU water research and innovation results for industry, policy makers and citizens	The aim of this action is to promote the dissemination and exploitation of EU funded activities to ensure wider application of innovative solutions and further demonstrate their potential to solve water related challenges. Actions aiming to raise public awareness and further promote the role of science and technology in society will also be supported. Dissemination of innovative forms of governance in both the public and private water sector and support actions with a view to developing innovative financial instruments for water research and innovation will be promoted, as well as activities to promote innovation, and business development and help clustering of ecoinnovative companies in the field of water.	Call 1 - 2014	Coordination Action Single stage	
5	Strengthening partnerships with China, India and other emerging economies to enhance market uptake of water solutions	The objective of this action is to promote the creation of networks of companies (including SMEs), entrepreneurs and funding actors to create business opportunities harnessing successful research results from previous EU-funded international cooperation water-related RTD projects that have been successfully implemented by endusers. This action also aims to help create more strategic co-operation on water research between Europe and the rest of the world. Priority will be given to on-going international activities and partnerships where the EU and Member States are jointly committed to providing a more coherent approach to research and innovation (e.g. EU/MS-India research and innovation partnership on water, China Europe Water Platform).	Call 1 - 2014	Coordination Action Single stage	v. Jetten ; A. van der Veen ; A. Voinov ; Z. Su

Water Innovation: boosting its value for Europe					
No	Topic	Scope	Call	Project type/funding rate	Participants interests
6	Stepping up EU R&I cooperation in the water area	This action will support the priorities identified in the Strategic Research Agenda of the Water JPI. The main aim of this action is to pool the necessary financial resources from the participating national (or regional) research programmes and the European Union with a view to implementing a single joint call for proposals for research projects in the field of robust, smart and cost-effective technological solutions for water distribution and measurement, wastewater treatment and reuse, desalination and valorisation of sewage sludge.	Call 1 - 2014	ERA-NET Single stage	
7	Increasing confidence in seasonal-to-decadal predictions of the water cycle	The aim is to maximise the reliability of predictions of rainfall changes (frequency, severity) and of water cycle variability at local/regional scales in Europe. Research should quantify the uncertainty in precipitation projections and predictions at both regional and EU level; it should hence focus on linking different types of models (climate, hydrological, impact) that should be routinely coupled to improve estimates of the effects of future changes on the water cycle and their socio-economic consequences. Particular attention should be given to the downscaling of global models and the development/validation of regional climate models that will more accurately simulate the impacts of climate change on water resources.	Call 2 - 2015	Collaborative project (100%) Two stage	M. Booij; A. Vrieling; Z. Su

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8	Laying foundations for a Water Information System, (INSPIRE compliant)	The action should aim to take first steps towards finding new solutions to achieve interoperability between existing systems and develop new connectivity standards and to develop ontologies and new interoperable solutions linked to the applications used in the water sector. Topics to be addressed: ontologies, semantic interoperability, GIS, business modelling, DSS, and management tools.	Call 2 - 2015	Collaborative project (100%) Two stage	P. van Oel; A. Voinov; Z. Su
9	Strengthening international R&I cooperation in the field of water	The objective of this action is to support joint collaborative research and innovation actions for the demonstration of water supply and sanitation technology, systems and tools and methodologies to manage risks associated with water supply and sanitation, as well as cross-boundary water management issues and integrated water resources management systems for sustainable agriculture and food security, sustainable environment protection and economic growth. Action will focus on [the EU's neighbouring countries,] the non-EU Mediterranean countries and Africa.	Call 2 - 2015	Collaborative project (100%) Two stage	A. van der Veen; M. Booij; Z. Su
10	Integrated water reuse in process industries	This action [is direct support to the objectives of the SPIRE PPP, and] aims at the development and implementation of innovative solutions to help European process industries move towards the sustainable use of water. This action is also in line with the related priorities of the Strategic Implementation Plan of the EIP 'Water'. Innovative solutions should address systems and tools for water quantity and quality control, flexible and adaptable solutions to cope with water scarcity, the combination of real time monitoring tools, sensors and systems, waste separation processes, and integrate water and energy efficiency measures. The participation of SMEs is considered essential.	Call 2 - 2015	Collaborative project (70%) Two stage	Z. Su

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No	Topic	Scope	Call	Project type/funding rate	Participants interests
11	Development and deployment of eco-innovative water solutions	This action will support demonstration projects bringing together business, academic communities, policy makers and end-users to test innovative approaches that can address the scale and complexity of challenges, with a view to maximising knowledge exchange and optimising business growth and in line with the priorities identified in the 1st Strategic Implementation Plan (SIP) of the EIP 'Water'. Demonstration of advanced ICT solutions for water resources management will be also considered. Projects should ensure that they feed into the Exchange of Information process aimed at identifying best available techniques and emerging techniques under the Industrial Emissions Directive. The participation of SMEs is considered essential.	Call 2 - 2015	Collaborative project (70%) Two stage	
12	Fostering small businesses in the water sector	The objective of this action is to help research performing SMEs in the water sector to convert new technologies and services for waste water treatment and reuse for drinking water and agriculture into market products.	Call 1 & 2- 2014 & 2015	SME instrument	P. van Oel; A. Voinov
13	Accompanying measures to gradually link the water sector into smart cities	The action will aim at developing a coordinated approach to the integration of water and waste sectors in the 'Smart Cities' EIP, identifying research needs which could lead to future research actions, promoting exchanges and best practises between public authorities and the stakeholders involved (notably representatives across the whole water and waste, ICT sectors, standardisation organisations, but also energy and transports stakeholders), and increasing preparedness and planning capacities of all the relevant actors. Exchange of experience, coordination, collaboration and long-term cooperation between EU funded activities will be also considered.	Call 2 - 2015	Coordination Action Single stage	

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No	Topic	Scope	Call	Project type/funding rate	Participants interests
14	Africa, water and global change: vulnerabilities, risks and costeffective adaptation measures	The goal of this activity is the development of a platform in which scientists, decision makers, practitioners and other key stakeholders may regularly convene throughout the duration of Horizon 2020. The platform should identify opportunities and constraints for the sustainable management of water and other natural resources and ecosystems, and for the development of cost-effective adaptation measures. Links with opportunities and strategies for mitigation options may be also explored. Participation of African institutions/organisations is highly recommended.	Call 2 - 2015	Coordination Action Single stage	V. Jetten; A. Vrieling; A. van der Veen; C.A. de Bie; P. van Oel; A. Voinov; R. Zurita Milla; Z. Su
15	Stepping up EU R&I cooperation in the water area	This action will support the priorities identified in the Strategic Research Agenda of the Water JPI. The main aim of this action is to pool the necessary financial resources from the participating national (or regional) research programmes and the European Union with a view to implementing a single joint call for proposals for research projects in the field of improving water use efficiency for a sustainable agriculture reducing soil and water pollution.	Call 2 - 2015	ERA-NET Single stage	

Climate action, resource efficiency and raw materials					
No	Topic	Scope	Call	Project type/funding rate	Participants interests
1	Development and validation of next generation high resolution climate models	This initiative should develop a new generation of advanced climate models and sophisticated climate related prediction systems for the EU. A coordinated international effort needed to provide to government, business and society in general state-of-the-art scientific input to climate risk assessments over various time scales at the highest spatial resolution. Relevant physical, chemical and biological Earth-system processes as well as socio-economic aspects need to be adequately incorporated into the climate predictions.	Call 1 - 2014	Collaborative project (100%) Two stage	V. Jetten
2	Science in Support of Climate Services for Europe	The aim is to launch a joint call to develop better tools, methods and joint standards on how to produce and use reliable data, new sets of simulations and impact indicators relevant for users' needs. These are required to assess impacts of future climate variability and extreme conditions for specific regions, sectors and time periods at regional and local scale and the links with existing and evolving risk management and policy instruments. The ERANET should promote a wide representation of EU Member States.	Call 1 - 2014	ERA-NET Single stage	Y. Zeng; R. Zurita Milla; Z. Su
3	Strengthening international cooperation in the field of climate change action and sustainable development	International collaborative research on climate change actions and the links with sustainable development. It aims to further understanding of: the levels of climate change that could be considered dangerous or undesirable at national, regional and trans-national scales; the development and emission pathways that will help to avoid different levels of climate change; and the technological and socio-economic feasibility of such pathways in the context of wider sustainable development goals. Research groups from both industrialised and major emerging and developing countries should be involved.	Call 1 - 2014	Collaborative project (100%) Two stage	A. van der Vee; R. Zurita Milla

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No	Topic	Scope	Call	Project type/funding rate	Participants interests
4	Causalities between changes in biodiversity, ecosystems and ecosystem services	Through a systemic and inter-disciplinary approach develop a robust knowledge base for: linking variability at different dimensions and scales of biodiversity to ecosystem functions and ecosystem resilience, and in turn to ecosystem service provision and the human well-being; predicting effects of multiple dynamic drivers on the relationship between biodiversity and ecosystem functions and services at various management-relevant spatial-temporal scales; quantifying synergies and trade-offs among ecosystem services and their interactions with human well-being; and developing innovative and harmonised indicators to monitor changes in ecosystem status and their services.	Call 1 - 2014	Collaborative project (100%) Two stage	A. Skidmore; P. van Oel; A. van der Veen
5	Capitalising on EU-wide experiences to make ecosystem restoration more effective	The scope of this action will cover restoration activities on land and sea and in urban, peri-urban and rural areas and at different scales and over different time frames. Techniques, technologies and processes will be assessed in relation to their potential to be scaled up across scales and regions in Europe and to the economic, social and environmental benefits that they can deliver. Stakeholder involvement is essential.	Call 2 - 2015	Collaborative project (100%) Two stage	A. Skidmore
6	Drivers of environmental change and effects on biodiversity status and trends	Holistic socio-economic-ecological framework research will 1) assess the impacts of direct, indirect and emerging drivers of change, singly and in combination, on status and trends of biodiversity at all relevant scales; 2) predict current and future variation in drivers of change, also in relation to policy interventions; 3) develop sound, cost-effective biodiversity indicators that capture all the relevant dimensions of biodiversity and are applicable across spatial scales.	Call 2 - 2015	Collaborative project (100%) Two stage	A. Vrieling; A. Skidmore; C.A. de Bie; T.A. Groen

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No	Topic	Scope	Call	Project type/funding rate	Participants interests
7	Preparing and promoting innovation procurement for soil decontamination	The aim of this action is to establish and promote a network of public procurers to raise awareness, share knowledge, debate common procurement needs and draw up common specifications, taking into account longer-term public sector requirements, in the area of soil decontamination/remediation. It will investigate the feasibility of launching a joint or coordinated pre-commercial procurement (PCP) to find common solutions in the field.	Call 1 - 2014	Coordination Action for Pre-Commercial Procurement (PCP) Single stage	
8	Consolidating the European Research Area on biodiversity and ecosystem services	The action should establish a pan-European network of funding agencies and other key players in Europe, building on previous experience and avoiding overlaps with other initiatives. It should scope existing national funded research activities on biodiversity and ecosystem services, and develop a joint vision and common strategic research agenda for activities to be implemented through a joint call, in cooperation with non-EU countries where relevant and appropriate, and by developing links with relevant research infrastructures.	Call 1 - 2014	ERA-NET Single stage	A. Skidmore
9	New solutions for sustainable production of primary raw materials	This action focuses at developing new industrially viable technological solutions and also alternative approaches for mining of small or difficult to access mineral deposits. The scope could cover actions in areas such as: cost-effective and environmentally sound concepts and solutions for exploitation of small mineral deposits with pre-processing and refining capacities in their vicinity, using the assets of a larger mine or flexible and mobile mining technologies; or safe and environmentally sound alternative or hybrid techniques.	Call 1 - 2014	Collaborative project (100%) Single stage	

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10	Innovative and sustainable solutions leading to substitution of raw materials	The overall aim is to set the framework to develop innovative and sustainable solutions for the appropriate substitution of critical and scarce raw materials. Substitution should be targeted appropriately towards applications involving CRMs. This action focuses at developing innovative materials substitutes for electronic devices.	Call 1 - 2014	Collaborative project (100%) Single stage	
11	New solutions for sustainable production of raw materials	One of the two following challenges should be addressed: a) Deep mining on continent and in sea-bed: This action focuses at developing new industrially viable highly-automated technological solutions for deep mining on the continent and in the sea bed to avoid exposure of workers underground with in-situ processing of minerals, drastically reducing the amount of waste rock to be transported. b) Flexible processing and metallurgy: This action focuses at developing new industrially viable technological solutions for sustainable processing and refining of raw materials.	Call 2 - 2015	Collaborative project (100%) Single stage	
12	Innovative and sustainable solutions leading to substitution of raw materials	The overall aim is to set the framework to develop innovative and sustainable solutions for the appropriate substitution of critical and scarce raw materials. Substitution should be targeted appropriately towards selected applications involving Critical Raw Materials (CRMs). Choices and combinations of approaches must be made between increasing production of a critical raw material, recycling of the material and some form of substitution or dematerialisation. It makes most sense to target materials and applications that are difficult to recycle, and where there are limited prospects to increase primary supply within Europe.	Call 1 - 2014	Collaborative project (100%) Single stage	

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13	Preparing and promoting innovation procurement for resource efficiency	The aim of this action is to establish networks of public procurers in order to overcome the fragmentation of demand for eco-innovative solutions in Europe and to share the additional risks and costs of buying and using eco-innovative solutions allowing for significant resource efficiency. Networks will prepare for a joint or coordinated procurement (including needs assessment, market consultation involving the supply chain, drafting of specifications, risk management plan) by creating a buyers' group responsible for drawing common specifications and will investigate the feasibility of launching a joint or coordinated public procurement of innovation (PPI) to find common solutions in the field.	Call 1 - 2014	Coordination Action for Public Procurement for Innovation (PPI) Single stage	
14	Reducing industrial feedstock materials and emission of harmful substances	The research will focus on close-to-market eco-innovative solutions that enable the uptake of resource efficient systems, processes and technologies. The proposed solutions should demonstrate through pilot or market replication applications the capability of reducing the feedstock materials and emission of harmful substances. Research will also support the implementation and evaluation of technology verification schemes such as EU Environmental Technology Verification (ETV) pilot programme. SME participation is considered essential.	Call 1 - 2014	Collaborative project (70%) Two stage	
15	Strengthening the European Research Area by bringing together national and regional research and innovation programmes on Earth Observation	The ERA-NET will launch a joint call on the observing and monitoring of changes affecting the Earth's atmosphere, oceans and landscapes with human activities being a major driver of these changes in the domain of climate, energy, food security, natural hazards, health, and natural resources. The ERA-NET will address the issue of the coherence of European participation within GEO and provide a research and innovation component to the Copernicus programme.	Call 2 - 2015	ERA-NET Single stage	A. Skidmore; T.A. Groen; Z. Su

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16	Making Earth Observation Data usable for ecosystem modelling and services.	Actions should focus on recovering existing data, supporting new measurements and observations and making all data available to scientists, stakeholders, policy makers and citizens concerned to provide a full picture of the state and temporal evolution of ecosystems in internationally recognised protected areas. Pilot actions in selected protected areas are needed to test the further development of the Global Earth Observation System of Systems (GEOSS) and a developmental knowledge base for the Copernicus initiative.	Call 1 - 2014	Collaborative project (100%) Two stage	Y. Zeng; R. Zurita Milla; A. Vrieling; A. Skidmore; C.A. de Bie; T.A. Groen; A. Voinov; Z. Su
17	Developing 'next-generation' in-situ community observatories	The focus of this topic is to conduct suitable prototyping and pilot phase activities to test and validate the concept of 'next-generation' in-situ community observatories and the direct transfer of environmental knowledge for policy, industrial, research and societal use. In this context a strong engagement of the industrial sector, in particular SMEs, in the activities undertaken will be needed. The data collected will complement those from existing systems (e.g. the Copernicus land service) and surveys.	Call 2 - 2015	Collaborative project (100%) Two stage	Y. Zeng; R. Zurita Milla; A. Skidmore; A. Voinov; Z. Su
18	Coordinating and supporting climate action, resource efficiency and raw materials research and innovation	Creation of European networks to facilitate dialogue among the relevant scientific communities and funding bodies in Europe throughout the duration of Horizon 2020. Actions should cover activities such as clustering, co-ordinating and creating synergies between international, European and nationally funded research and innovation actions, developing joint programmes and projects, creating links with related international programmes, foresight activities to establish emerging needs, communication and dissemination activities for an improved science-policy interface, and aligning research with decision-making requirements.	Call 1 - 2014	Coordination action Single stage	

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19	Coordinating and supporting international cooperation for climate action, resource efficiency and raw materials research and innovation	Creation of networks to facilitate dialogue among the relevant scientific communities in Europe and beyond throughout the duration of Horizon 2020. Actions should cover activities such as clustering, co-ordinating and creating links and synergies between international and European research and innovation programmes and other initiatives in the area of climate action, resource efficiency and raw materials, and communication and dissemination activities for an improved science-policy interface in response to decision-making requirements.	Call 1 - 2014	Coordination action Single stage	
20	Support actions to improve the sustainable supply of raw materials	This action will support the objectives of the Strategic Implementation Plan of the European Innovation Partnership on Raw materials.	Call 2 - 2015	Coordination action Single stage	