

**CORSO IN PROGETTAZIONE GESTIONE E
CONTROLLO DEI PROGRAMMI DELL'UNIONE
EUROPEA
HORIZON 2020 e la nuova programmazione
europea. Sfide e opportunità**

HORIZON 2020

Paolo Cesàro

SMARTH AND INCLUSIVE GROWTH

- **Titolo spesa 1a: Competitività per crescita e occupazione**
- **Titolo spesa 1b: Coesione economica, sociale e territoriale**

SMARTH AND INCLUSIVE GROWTH

Titolo 1a: Competitività per crescita e occupazione

Cosa ci troviamo?

Programmi per contribuire al raggiungimento **Strategia Europe 2020**

- Promozione della ricerca, dell'innovazione e dello sviluppo tecnologico (**H2020**);
- Azioni specifiche in favore della competitività delle imprese e delle PMI (nuovo **strumento SME**);
- Investire nell'educazione e nelle capacità umane attraverso il programma **ERASMUS** per tutti;
- Sviluppare l'agenda sociale;
- Risorse per le infrastrutture digitali (**Connecting Europe Facility**), Digital Service Infrastructures (DSI) per PA e banda larga;
- ma anche tre grossi progetti per infrastrutture come Galileo, ITER e GMES; e il sostegno per la dismissione di 3 centrali nucleari.

SMARTH AND INCLUSIVE GROWTH

Titolo 1b: Coesione economica, sociale e territoriale

Cosa ci troviamo?

- **Fondo Europeo Sviluppo Regionale (FESR)**
- **Fondo Sociale Europeo Social Fund (FSE)**
- **Fondo Coesione(FC)**

- **Obiettivi:**
 - **Crescita e occupazione** da sostenere con tutti i **tre Fondi** l'investimento negli Stati Membri e nelle regioni;
 - **Cooperazione territoriale Europea** da sostenere con **FESR**;
 - **Ambiente e reti trasporto trans-Europee** finanziati con **Fondo Coesione**;
 - **Sviluppo capitale umano** viene assicurato da una parte importante del **FSE** nella politica di coesione.

SMARTH AND INCLUSIVE GROWTH

Titolo 1a: Competitività per crescita e occupazione

Horizon 2020	79 401,83 M€
Connecting Europe Facility	21 936,76 M€
Transport	14 945,08 M€
Erasmus+	14 774,52 M€
Galileo	7 071,73 M€
Energy	5 850,08 M€
Copernicus (GMES)	4 291,48 M€
ITER	2 985,62 M€
COSME	2 298,24 M€
Agencies before transfer	2 293,13 M€
Nuclear safety + decommissioning	1 643,09 M€
o/w: nuclear safety	198,49 M€
o/w decommissioning	969,26 M€
ICT	1 141,60 M€
Social Change and Innovation	919,47 M€
Fiscals-Customs-Anti Fraud	908,01 M€
Other	2 003,45 M€
Margin	2 078,00 M€

HORIZON 2020

- Sostituisce FP7 (50mld€), FP6 (17mld€), FP5 (15mld€), FP4 (13mld€), FP3 (6,6 mld€)
- Periodo: **2014-2020**
- Budget: **79.4 mld€**
- Programma integrato che finanzia tutta la ricerca e innovazione

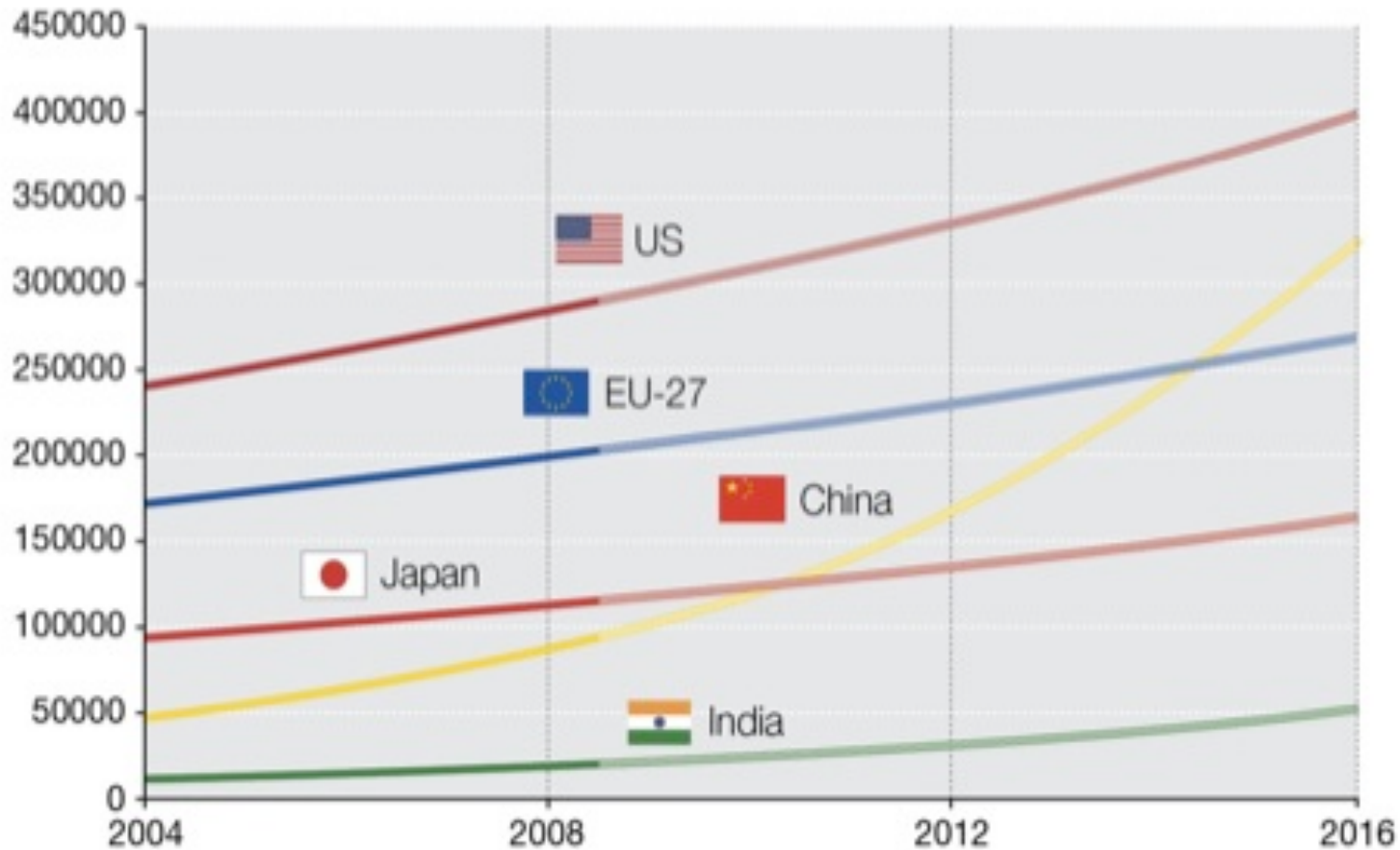
HORIZON 2020

Perche un programma quadro di ricerca?

- La **ricerca** ad alti livelli è sempre più **costosa**
- I confini fra **discipline** meno netti, + **coordinamento**
- E' necessario mobilitare '**massa critica**'
- **Investimento SM** in RTD insufficiente e sbilanciato

HORIZON 2020

Evoluzione spesa mondiale per R&S in termini reali in M € ai prezzi anno 2000 (fonte EC)



HORIZON 2020

Obiettivi generali politica ricerca e innovazione

- Portare investimento **al 3% del PIL** entro il 2020 (ai livelli di USA e Giappone)
- Promuovere **l'investimento di industria** in RS
- Contribuire allo **Spazio Europeo della Ricerca**, libera circolazione di saperi, ricercatori e tecnologie
- Rafforzare la posizione dell'**UE come leader** mondiale nella scienza

HORIZON 2020

Obiettivi generali politica ricerca e innovazione

- Contribuire a fare dell'Europa un luogo più attraente per investire in ricerca e innovazione
- Portare i **risultati di ricerca** eccellente **verso il mercato** con benefici per cittadini (sanità, trasporti, sicurezza, servizi..)

H2020 – REGOLE PARTECIPAZIONE

TRE OBIETTIVI PRINCIPALI DA FP7 A H2020

**Innovation,
Simplification
and Coherence**



H2020 – REGOLE PARTECIPAZIONE

COSA RESTA

- Sovvenzione (*grants*) come forma principale di finanziamento
- Standard collaborative actions
- Coordination and support actions
- Uso di “Grant Agreements”
- Actual costs

H2020 – REGOLE PARTECIPAZIONE

COSA È NUOVO :

- Sovvenzioni per lo strumento PMI (SME instrument)
- Sovvenzioni per il Programma COFUND actions (Cofinanziamento di programmi regionali, nazionali e internazionali)
- Disposizioni specifiche per l'innovazione:
 - *pre-commercial procurement*,
 - *procurement of innovative solutions*,
 - *inducement prizes*.
- Uso rafforzato di “*lump-sums*”, *flat rates* e *unit costs*.

H2020 – REGOLE PARTECIPAZIONE

PROCEDURE SPECIFICHE: SME instrument

- Realizzato attraverso una struttura di gestione centralizzata (EASME)
- Approccio bottom-up
- Bando sempre aperto (open call) + cut-off
- Solo PMI elegibili

H2020 – REGOLE PARTECIPAZIONE

CONDIZIONI MINIME DI PARTECIPAZIONE

- *Standard collaborative actions*
 - Almeno **tre** entità legali stabilite ognuna in uno stato membro diverso o in un Paese Associato
- ERC, SME instrument, programma CO-FUND, coordination and support actions, training and mobility actions:
 - **Una** entità legale stabilita in uno Stato Membro o in un Paese Associato

H2020 – REGOLE PARTECIPAZIONE

COOPERAZIONE INTERNAZIONALE

Partecipazione

- Aperta a tutte le entità legali stabilite in paesi terzi e alle organizzazioni internazionali
- Restrizioni nel WP per:
 - Ragioni di reciprocità
 - Ragioni di sicurezza

Finanziamento

- Paesi terzi identificati nel WP (Annex A)
- Partecipazione nell'azione ritenuta essenziale dalla COM o quando all'interno di un accordo bilaterale scientifico/tecnologico

H2020 – REGOLE PARTECIPAZIONE

TASSO UNICO DI COFINANZIAMENTO

FP7

H2020

Maximum reimbursement rates	Research and technological development activities (*)	Demonstration activities	Other activities
Network of excellence	50% 75% (**)		100%
Collaborative project(****)	50% 75% (**)	50%	100%
Coordination and support action			100% (***)

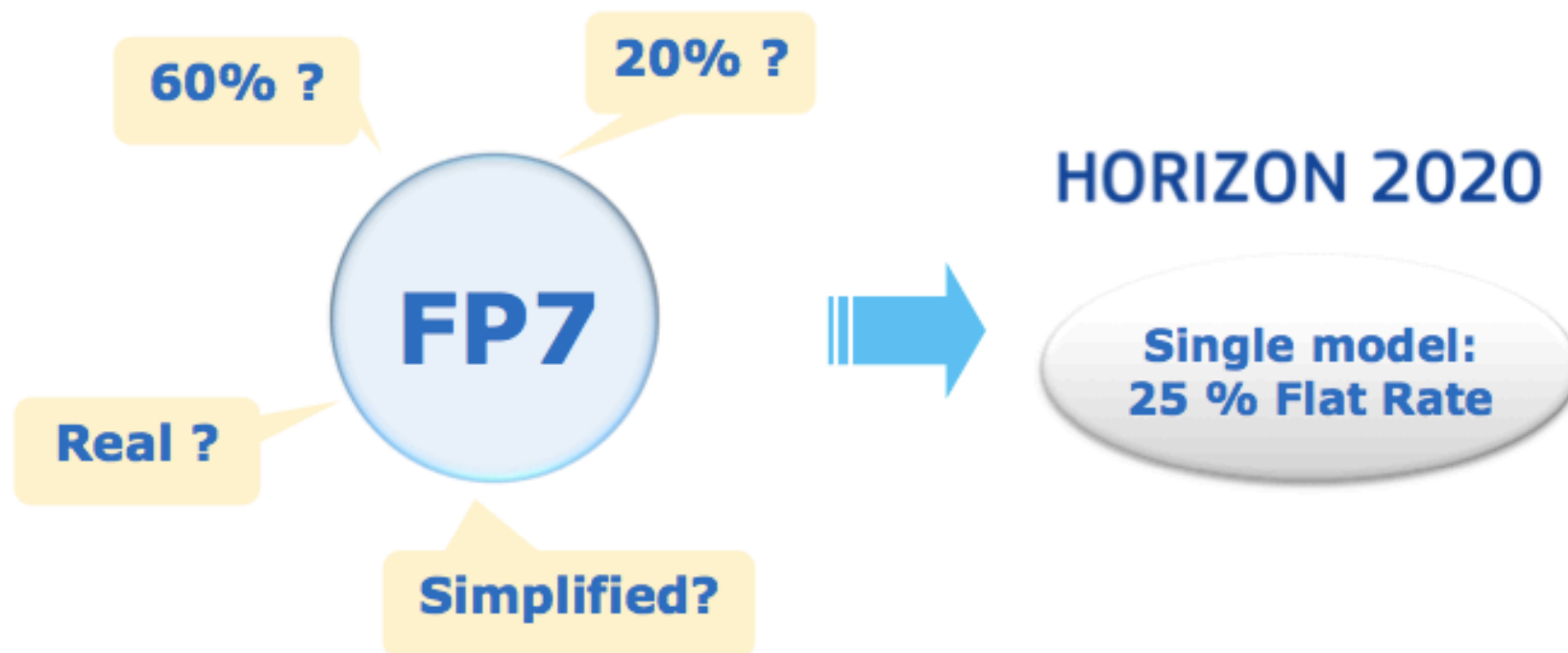
(*) Research and technological development includes scientific coordination.
(**) For beneficiaries that are *non-profit public bodies*, secondary and higher education establishments, *research organisations* and *SMEs*.
(***) The reimbursement of indirect eligible costs, in the case of coordination and support actions, may reach a maximum 7% of the direct eligible costs, excluding the direct eligible costs for subcontracting and the costs of resources made available by third parties which are not used on the premises of the beneficiary.
(****) Including research for the benefit of specific groups (in particular SMEs)

Un progetto = un tasso
Per **tutti i beneficiari** e tutte le attività della sovvenzione

- Definito nel WP:
 - Fino a 100 % dei costi eleggibili
 - Ma limitato a max 70 % per progetti di innovazione (eccezione per non-profit max 100%)

H2020 – REGOLE PARTECIPAZIONE

MODELLO UNICO COSTI INDIRETTI



H2020 – REGOLE PARTECIPAZIONE

COSTI DEL PERSONALE

- Accettazione più ampia dei costi medi del personale
- Accettazione di pagamenti supplementari (organizzazioni non-profit fino a 8000 €/anno/persona)
- Partecipazione semplificata per PMI
- **Meno requisiti** per registri **tempo** impiegato (man/day)
- e più nel Grant Agreement di H2020

H2020 – REGOLE PARTECIPAZIONE

CONTROLLI E AUDIT

Financial viability → ristretta ai coordinatori progetti ≥ 500 k€

CFS (Certificate for Financial Statements)

→ solo per pagamenti finali/per beneficiario/per costi attuali $\geq 325\ 000$ €

→ certificati opzionali su costi medi personale

Ex post audits (dettagli regolamento H2020)

→ Fino a due anni dopo il pagamento a bilancio

→ Strategia di audit centrata su rischio e prevenzione frode

H2020 – REGOLE PARTECIPAZIONE

PROPRIETA INTELLETTUALE

RESTA

- Appartenenza (ownership) per partecipante o joint-ownership (part./COM) solo in circostanze particolari
- Protezione
- Sfruttamento
- Disseminazione

NUOVO

- Obblighi aggiuntivi di sfruttamento/disseminazione
- Open access: obbligo di pubblicazione scientifica e di ricerca dati (settori specifici)
- Diritti di accesso per UE e per SM (secure societies)

H2020 – REGOLE PARTECIPAZIONE

TEMPI DI EROGAZIONE (Time to Grant)

A maximum TTG of 8 months

5 months
for informing all applicants
on scientific evaluation

3 months
for signature of GA

H2020 – REGOLE PARTECIPAZIONE

TEMPI DI EROGAZIONE: come accorciare tempi

- ✓ **No detailed negotiations:**
each proposal evaluated 'as it is',
not as 'what could be';
- ✓ **Legal entity validated in parallel.**
- ✓ **No more paper:**
e-communication & e-signature of grants.

The image shows a screenshot of the 'Welcome to the Research and Innovation Participant Portal' page. The page is divided into two main sections: 'About the Participant Portal' and 'Using the Participant Portal'. The 'About' section describes the portal as an entry point for the electronic administration of EU-funded research and innovation projects, listing the 7th Framework Programme for Research and Technological Development (FP7) and the Competitiveness and Innovation Framework Programme (CIP). The 'Using the Portal' section provides instructions for guest users (searching for funding opportunities, downloading documents, and searching for PIC codes) and registered users (accessing personalized services for proposal submission, negotiation, and project management). Below the main content, there is a navigation bar with six icons and labels: 'WHATS NEW', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE?', 'WORK AS AN EXPERT', 'ACCESS MY PERSONAL AREA', and 'INFORMATION AND SUPPORT'.

H2020 – PARTICIPANT PORTAL

BANDI H2020

Tutti i bandi e i documenti sono qui

[http://ec.europa.eu/research/participants/portal/
page/home](http://ec.europa.eu/research/participants/portal/page/home)

H2020 – PARTICIPANT PORTAL

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RESEARCH & INNOVATION
Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT LOGIN REGISTER

Welcome to the Research and Innovation Participant Portal

About the Participant Portal:

The Participant Portal is your entry point for the electronic administration of EU-funded research and innovation projects. It hosts services for managing proposals and projects throughout their lifecycle.

The Participant Portal supports activities funded mainly by the following EU programmes:

- 7th Framework Programme for Research and Technological Development (FP7)
- Competitiveness and Innovation Framework Programme (CIP)

Using the Participant Portal:

As a guest user, browse the public pages to:

- search for funding opportunities
- download guidance and legal documents
- search for the participant identification code (PIC) of an organisation
- contact the FP7 support services and browse the FAQ for guidance on the Participant Portal tools

As a registered user, benefit from personalised services for proposal submission, negotiation, and project management.

WHAT'S NEW FUNDING OPPORTUNITIES HOW TO PARTICIPATE? WORK AS AN EXPERT ACCESS MY PERSONAL AREA INFORMATION AND SUPPORT

RESEARCH ON EUROPA CORDIS OLAF

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H2020 – PARTICIPANT PORTAL

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RESEARCH & INNOVATION
Participant Portal

BETA VERSION 4

European Commission > Research & Innovation > Participant Portal > Funding Opportunities

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

LOGIN REGISTER

Calls

- Horizon 2020
- COSME

Search Topics

Call Updates

Other Funding Opportunities

Previous Framework Programmes (FP7 & CIP)

Funding Opportunities FUNDING GUIDE

Find the European Union Funding opportunities and search for new or closed calls, grouped by the following programmes:

- Horizon 2020 - EU research funding from 2014
- Seventh Framework Programme (FP7)
- Competitiveness and Innovation Framework Programme (CIP)
- other research and innovation programmes

Horizon 2020

Horizon 2020 is the new EU funding programme for research and innovation running from 2014 to 2020 with a €70 billion budget. The first calls for proposals for Horizon 2020 are envisaged for **December 2013**. Its simplified rules and submission and grant management tools should facilitate participants' tasks. For practical guidance, see the [H2020 Funding Guide](#).

H2020 supports **SMEs** with a new **Instrument** that runs throughout various funded research and innovation fields, so it should be easy for SMEs to find opportunities in many calls.

H2020 also aims to enhance EU **international research cooperation** so there are more opportunities for Third Country participation.

Having built H2020 around the main societal challenges like an ageing population, food security, energy efficiency, the EU attaches high importance to embed **socio-economic sciences and humanities** into the work programme.

Another important priority of the Commission is to ensure **gender** is embedded in the design of Horizon 2020 project proposals.

FP7 and CIP – previous programmes

FP7 and CIP are previous instruments to fund research and innovation activities in Europe for the period 2007 to 2013. You can view closed calls information of these programmes.

COSME

Programme for the Competitiveness of Enterprises and SMEs (COSME) will run from 2014 to 2020, with a planned budget of €2.3bn. It will facilitate SME access to finance, create supportive environment for business creation, help small businesses operate outside their home countries and improve their access to markets.

Other calls

This page lists additional research activities, initiatives executed by several Member States or joint programmes, co-funded calls, thematic opportunities, and intergovernmental actions.

Call updates

The page displays the latest updates to the calls, like change of deadlines.

Search

The call search tool has several filtering options to help you select funding opportunities that are most relevant to your activities.

Stay informed

- RSS feed
- iCal
- Email notification

RESEARCH ON EUROPA CORDIS OLAF

H2020 – PARTICIPANT PORTAL

The screenshot displays the H2020 Participant Portal interface. At the top, there is a navigation bar with the European Commission logo, the text "RESEARCH & INNOVATION Participant Portal", and a "BETA VERSION 4" badge. Below this is a secondary navigation bar with links for "HOME", "FUNDING OPPORTUNITIES", "HOW TO PARTICIPATE", "EXPERTS", and "SUPPORT". A "LOGIN" button and a "REGISTER" button are also present.

The main content area is titled "HORIZON 2020 CALLS" and shows "66 results". A "FUNDING GUIDE" button is located to the right. Below the title, there are "Filter options" including "Specific Programme" (with checkboxes for Excellent Science, Industrial Leadership, Societal Challenges, Spreading excellence and widening participation, and Science with and for society) and "Type" (with checkboxes for Calls for proposal and Calls for tender). There is also a "Status" section with radio buttons for Open calls, Closed calls, and Forthcoming calls.

Below the filters, there is a "Sort by:" section with radio buttons for "Publication date" (selected), "Deadline", "Title", and "Call ID".

The results are displayed in a grid of cards. Each card includes the call title, a brief description, the call ID, and the publication and deadline dates. The cards are color-coded by programme: Excellent Science (red), Industrial Leadership (yellow), and Societal Challenges (purple).

On the left side, there is a "Calls" sidebar with a "Horizon 2020" button and a "COSME" button. Below this are sections for "Search Topics", "Call Updates", "Other Funding Opportunities", and "Previous Framework Programmes (FP7 & CIP)".

At the bottom left, there is a "Stay informed" section with links for "RSS feed", "iCal", and "Email notification".

At the bottom right, there are links for "RESEARCH ON EUROPA", "CORDIS", and "OLAF".

H2020 – PARTICIPANT PORTAL

The screenshot displays the H2020 Participant Portal interface. At the top right, there are links for (A-Z), Sitemap, About this site, Contact, Legal Notice, and a language dropdown set to English. The main header features the European Commission logo and the text "RESEARCH & INNOVATION Participant Portal". A prominent orange stamp in the top right corner reads "BETA VERSION 4". Below the header is a breadcrumb trail: "European Commission > Research & Innovation > Participant Portal > Funding Opportunities". A navigation bar includes "HOME", "FUNDING OPPORTUNITIES", "HOW TO PARTICIPATE", "EXPERTS", and "SUPPORT", along with "LOGIN" and "REGISTER" buttons.

The main content area is divided into two columns. The left column contains a "Calls" section with buttons for "Horizon 2020" and "COSME", a "Search Topics" section with a blue header and buttons for "Call Updates" and "Other Funding Opportunities", and a "Previous Framework Programmes (FP7 & CIP)" button. The right column features a "SEARCH TOPICS" section with a "FUNDING GUIDE" button. Below this is a search bar with the text "Search keywords: climate change" and a "Search" button. Underneath the search bar, a box titled "Horizon 2020 predefined criteria:" lists several criteria with external link icons: "Cross-cutting Key-Enabling Technologies (KETs)", "International cooperation", "EBA-NET", "SME Instrument", "Gender", and "Socio-economic science and Humanities".

H2020 – PARTICIPANT PORTAL

The screenshot shows the H2020 Participant Portal search results for the keyword 'climate change'. The page features a navigation bar with 'HOME', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'EXPERTS', and 'SUPPORT'. A 'BETA VERSION 4' badge is visible in the top right. The search results are displayed in a list format, showing three results. Each result includes a topic title, a brief description, the call title, status, and call identifier. The first result is 'SFS 7 - 2014: Optimising external nutrient inputs in intensive crop production systems in Europe'. The second is 'WATER 2 - 2014/2015: Integrated approaches to water and climate change'. The third is 'WATER 5 - 2014/2015: Strengthening international R&I cooperation in the field of water'. The page also includes a 'SEARCH TOPICS' section with a search bar and a 'FUNDING GUIDE' button. A sidebar on the left contains navigation links for 'Calls', 'Search Topics', and 'Stay informed'.

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RESEARCH & INNOVATION
Participant Portal

European Commission > Research & Innovation > Participant Portal > Funding Opportunities

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

LOGIN REGISTER

Calls

- Horizon 2020
- COSME

Search Topics

- Call Updates
- Other Funding Opportunities
- Previous Framework Programmes (FP7 & CIP)

SEARCH TOPICS FUNDING GUIDE

Search keywords: climate change Search

Horizon 2020 predefined criteria:

- [Cross-cutting Key-Enabling Technologies \(KETs\)](#)
- [International cooperation](#)
- [EBA-NET](#)
- [SME Instrument](#)
- [Gender](#)
- [Socio-economic science and Humanities](#)

3 results Filter options: Open calls Closed calls Forthcoming calls Sort by: Publication date Deadline Title Call ID

Topic: SFS 7 - 2014: Optimising external nutrient inputs in intensive crop production systems in Europe
European crop production is facing more and more difficulties in remaining competitive in the global market for many reasons. One of these reasons is certainly the high cost of external nutrient inputs necessary [More...](#)
Call title: Sustainable Food Security
Status: **Open** Call identifier: **H2020-SFS-2014/2015**

Topic: WATER 2 - 2014/2015: Integrated approaches to water and climate change
The rising demands of a growing world population for food, water, materials and energy will put increasing pressures on land use, water resources and ecosystems. Energy consumption is expected to increase, [More...](#)
Call title: Water Innovation: Boosting its value for Europe
Status: **Open**
Call identifier: **H2020-WATER-2014/2015** Deadline: **2014-03-18**

Topic: WATER 5 - 2014/2015: Strengthening international R&I cooperation in the field of water
Developing countries, especially in Africa, are facing serious challenges for sustaining its development. Sustainable water supply and sanitation is fundamental to the food security, health, survival [More...](#)
Call title: Water Innovation: Boosting its value for Europe
Status: **Open**
Call identifier: **H2020-WATER-2014/2015** Deadline: **2014-03-18**

Stay informed

- RSS feed
- iCal
- Email notification

H2020 – PARTICIPANT PORTAL

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RESEARCH & INNOVATION
Participant Portal

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HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT LOGIN REGISTER

Calls

Horizon 2020

COSME

Search Topics

Call Updates

Other Funding Opportunities

Previous Framework Programmes (FP7 & CIP)

HORIZON 2020 CALLS

FUNDING GUIDE

WATER INNOVATION: BOOSTING ITS VALUE FOR EUROPE

H2020-WATER-2014/2015

Publication date:	2013-12-11	Deadline Date:	2014-03-18 +17:00:00 (Brussels local time)
Budget:	€65,000,000	Stage 2:	2014-05-22 +17:00:00 (Brussels local time)
Status:	Open	Specific programme:	Societal challenges
		OJ reference:	OJ C2020.11 of December 2013

Call summary

Water is an invaluable resource for human health, food security, sustainable development and the environment, and is an economic sector of growing importance for Europe. However, water resources are constantly under pressure from climate change, urbanisation, pollution, overexploitation of freshwater resources and increasing competition between various user groups, and the improvement of the state of water resources will trigger substantial economic benefits. [More...](#)

Topics

- ▶ [WATER 1 – 2014/2015: Bridging the gap from innovative water solutions to market replication](#)
- ▶ [WATER 2 – 2014/2015: Integrated approaches to water and climate change](#)
- ▶ [WATER 3 – 2014/2015: Stepping up EU research and innovation cooperation in the water area](#)
- ▶ [WATER 4 – 2014: Harnessing EU water research and innovation results for industry, policy makers and citizens](#)
- ▶ [WATER 5 – 2014/2015: Strengthening international R&I cooperation in the field of water](#)

Latest info Call documents Submission Service Get support Subscribe to Notification

H2020 – PARTICIPANT PORTAL

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European Commission

RESEARCH & INNOVATION
Participant Portal

European Commission > Research & Innovation > Participant Portal > Funding Opportunities

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT LOGIN REGISTER

Calls

Horizon 2020

COSME

Search Topics

Call Updates

Other Funding Opportunities

Previous Framework Programmes (FP7 & CIP)

Stay informed

RSS feed ⓘ

iCal ⓘ

Email notification ⓘ

HORIZON 2020 CALLS FUNDING GUIDE

Call: [Water Innovation: boosting its value for Europe](#)

Topic: **Bridging the gap from innovative water solutions to market replication** WATER 1 – 2014/2015

Topic Description Topic Conditions Call Documents Submission Service

Specific challenge: One of the main factors hampering the market uptake of innovative solutions in the field of water is the lack of real scale demonstration of their long term viability. In addition, highly promising and advanced eco-innovative water technologies, processes, products and services often do not reach the market due to pre-commercialisation challenges and the residual risk linked to scaling-up. The first Strategic Implementation Plan of the European Innovation Partnership (EIP) on Water has identified as priority areas: water reuse and recycling; water and wastewater treatment, including recovery of resources; water and energy integration; flood and drought risk management; and the role of ecosystem services in the provision of water related services.

Scope: Actions should address one or more of the following:

- demonstration/pilot activities of new or improved innovative water solutions (technologies, processes, products and/or services) in a real environment
- the first application and market replication of near commercial water solutions.

They should focus on the priorities identified in the first Strategic Implementation Plan of the European Innovation Partnership (EIP) on Water, and/or helping process industries become less water dependant while ensuring efficient management of other resources (e.g. raw materials and energy), and/or exploiting untapped potential of ICT by developing and deploying advanced ICT solutions for water resources management in agriculture and urban areas.

Expected impact: Wide and fast deployment of eco-innovation in the water sector in line with the priority areas of the EIP "Water". Support to the objectives of the Sustainable Process Industries Public-private Partnership (SPIRE PPP), in particular helping process industries to view water as a highly valuable asset rather than a consumable. Market penetration, long-term application and sustained use of successful solutions by various end-users, and creation of new market opportunities both inside and outside Europe. Increased resource efficiency and environmental performance of the water sector, through synergies between public water authorities, water utilities, various economic sectors, big companies, SMEs and research organisations.

Type of action: Innovation actions (70%)

RESEARCH ON EUROPA CORDIS OLAF

H2020 – PARTICIPANT PORTAL

Horizon 2020 calls – Topic details: submission service

The screenshot displays the Horizon 2020 Participant Portal interface. At the top, there is a navigation bar with the European Commission logo, the text 'RESEARCH & INNOVATION Participant Portal', and a 'BETA VERSION 4' badge. The main navigation menu includes 'HOME', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'EXPERTS', and 'SUPPORT'. A 'LOGIN' button and a 'REGISTER' button are also present. The left sidebar contains a 'Calls' section with 'Horizon 2020' and 'COSME' buttons, and other options like 'Search Topics', 'Call Updates', and 'Other Funding Opportunities'. The main content area is titled 'HORIZON 2020 CALLS' and features a 'FUNDING GUIDE' button. The selected call is 'Call: Water innovation: boosting its value for Europe' under the topic 'Bridging the gap from innovative water solutions to market replication' and 'WATER 1 – 2014/2015'. Below the call title are buttons for 'Topic Description', 'Topic Conditions', 'Call Documents', and 'Submission Service'. The 'Submission Service' section provides instructions on how to access the Electronic Submission Service and existing draft proposals. At the bottom, there is a dropdown menu with 'Wateri-...' selected and a 'START SUBMISSION' button. A link to the 'user guide' is also provided.

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RESEARCH & INNOVATION
Participant Portal

European Commission

European Commission > Research & Innovation > Participant Portal > Funding Opportunities

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

LOGIN REGISTER

Calls

Horizon 2020

COSME

Search Topics

Call Updates

Other Funding Opportunities

Previous Framework Programmes (FP7 & CIP)

HORIZON 2020 CALLS

FUNDING GUIDE

Call: [Water innovation: boosting its value for Europe](#)

Topic: **Bridging the gap from innovative water solutions to market replication** WATER 1 – 2014/2015

Topic Description Topic Conditions Call Documents **Submission Service**

Submission Service

To access the Electronic Submission Service of the call, please select the **type of action** that is most relevant to your proposal from the list below. You will then be linked to the correct entry point.

To access **existing draft proposals** for this call, please login to the Participant Portal and select the **My Proposals** page of the My Area section.

Wateri-... **START SUBMISSION**

Download the [user guide](#) of the Participant Portal Submission Service.

H2020 – PRESENTAZIONE PROPOSTE

SISTEMA PRESENTAZIONE ELETTRONICO

- Accessibile da ogni pagina web di una call
- ECAS (European Commission Authentication Service)
- ECAS password
- PICs (Participant identification code) per tutti i partner
- Preparare la proposta cv
 - On-line per Part A strutturata
 - Caricare Part B – file pdf
- Invio proposta
- Controllo validazione
- Completare invio entro deadline 17h

Submission failure rate in the past = \pm 1%

Only reason for failure; waiting till the last minute

Technical problems

Panic-induced errors (uploading the wrong proposal)

Too late starting upload, run out of time

H2020 – PRESENTAZIONE PROPOSTE

European
Commission

Part A – online

Section 1

- *Title, acronym, objective etc.*
- *Fixed and free keywords*
- *2000 character proposal abstract*
- *previous/current submission*
- *Declarations*

Section 2 (one form per partner)

- *Participant Identification Code (PIC) compulsory!*
- *Department*
- *Dependences*
- *Contact information*
- *Other contact information*

A screenshot of the European Commission proposal submission form. The form is titled 'Proposal Submission Form' and includes sections for 'General information', 'Keywords', 'Abstract', and 'Declarations'. The 'Abstract' section has a 2000-character limit. The 'Declarations' section includes a checkbox for 'I am a small or medium-sized enterprise (SME)'. The form is overlaid with a large, semi-transparent watermark that reads 'visional 1/2'.

H2020 – PRESENTAZIONE PROPOSTE

European
Commission

Part A – online

Section 3

- *Cost and requested grant details*

3 - Budget

Participant	(A) Direct personnel costs/€	(B) Other direct costs/€	(C) Sub-contracting costs/€	(D) Costs of providing financial support to third parties/€	(E) Costs of contributions provided by third parties which are not used on the beneficiary's premises/€	(F) Indirect Costs/€ (=0.25(A+B-E))	(G) Total estimated eligible costs/€ (=A+B+C+D+F)	(H) Reimbursement rate	(I) Max amount of the grant / € (=G*H)	(J) Requested amount of the grant / €
	0	0	100%	0		0	0	100%	0	
Total	0	0	0	0		0			0	

Section 4

- *Ethics' questionnaire*

Section 5

- *Call related questionnaire, e.g. for clinical trials*

2/2
visional

H2020 – PRESENTAZIONE PROPOSTE

European
Commission

Part B - pdf file(s)

Based around evaluation criteria:

Excellence

- Eg. Objectives, concept, progress beyond state-of-art...

Impact

- Eg. Potential impact (*incl. with reference to WP*);
measures to maximise impact (*dissemination,
communication, exploitation*)

Implementation

- Including **work packages descriptions**
- Information on third parties and subcontractors

Template supplied by the submission system (.rtf)

Provisional

HORIZON 2020

Tre aree di H2020

- *Excellent science*
- *Industrial leadership*
- *Societal challenges*

HORIZON 2020

Tre aree di H2020: distribuzione budget

The budget distribution (in percentage) for Horizon 2020 is foreseen as follows:

I. Excellent Science:	31.73 %
1. European Research Council	17.00
2. Future and Emerging Technologies	3.50
3. Marie Curie actions	8.00
4. Research infrastructures	3.23
II. Industrial Leadership:	22.09 %
1. Leadership in enabling and industrial technologies	17.60
2. Access to risk finance	3.69
3. Innovative small and medium-size enterprises	0.80
III. Societal Challenges:	38.53 %
1. Health, demographic change and wellbeing	9.70
2. Food quality and marine research	5.00
3. Energy	7.70
4. Transport	8.23
5. Climate action, resources and raw materials	4.00
6. Inclusive societies	1.70
7. Secure societies	2.20
Spreading excellence and widening participation	1.06 %
Science with and for society	0.60 %
European Institute of Innovation and Technology (EIT)	3.52 %
Joint Research Centre: non-nuclear direct actions	2.47 %
Total	100 %

Source: The Council
of the European Union
Agreement on Horizon 2020
(17 July 2013 press release)

HORIZON 2020 – Excellent science

Budget 31, 73% (EUR 24 441 M €) / 4 obiettivi/temi:

- *European Research Council* (ERC): contributi ricercatori (17%)
- *Future and emerging technologies* (FET): ricerca collaborativa cross-disciplinare su idee radicalmente nuove ad alto rischio (3,5%)
- Azioni Marie Skłodowska-Curie (8%)
- Infrastrutture di ricerca (compreso e-infrastructures) rafforzare potenziale innovativo e capitale umano

HORIZON 2020 – Industrial leadership

Budget 22,09 % (17.016 M €) / 3 obiettivi/temi:

- **Leadership in enabling and industrial technologies:** contributi per ricerca, sviluppo e dimostrazione, standardizzazione e certificazione (17,60%) su: ICT, nanotecnologie, materiali avanzati, biotecnologie, processi e sistemi di produzione avanzati e spazio
- **Access to risk finance:** accesso a finanza per imprese e progetti di R&D e innovazione. Insieme a Competitiveness of Enterprises e **COSME** per creare sistema di venture capital UE (3,69%)
- **Innovation in SMEs:** sostegno mirato per PMI, (0,80%) > **SME Instrument**

HORIZON 2020 – Societal challenges

Budget 38,53 % (29.679 M€) / 7 obiettivi/temi :

- **Health, demographic change and wellbeing (9,7%)**
- Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy (5%)
- **Secure, clean and efficient energy (7,70%)**
- **Smart, green and integrated transport (8,23%)**
- Climate action, environment, resource efficiency and raw materials (4%)
- Europe in a changing world - inclusive, innovative, reflective societies (1,70%)
- Secure societies - protecting freedom and security of EU and its citizens (2,20%)

HORIZON 2020 – Excellent science

FET

European
Commission

Excellent Science pillar in H2020

- European Research Council (13B€)
- Marie Skłodowska-Curie actions (6,1B€)
- **Future and Emerging Technologies**
- Research infrastructures programme (2,4B€)

FET: 2,7 B€

*"**Future and emerging technologies** shall support collaborative research in order to extend Europe's capacity for advanced and paradigm-changing innovation. It shall foster scientific collaboration across disciplines on radically new, high-risk ideas and accelerate development of the most promising emerging areas of science and technology as well as the Union wide structuring of the corresponding scientific communities."*

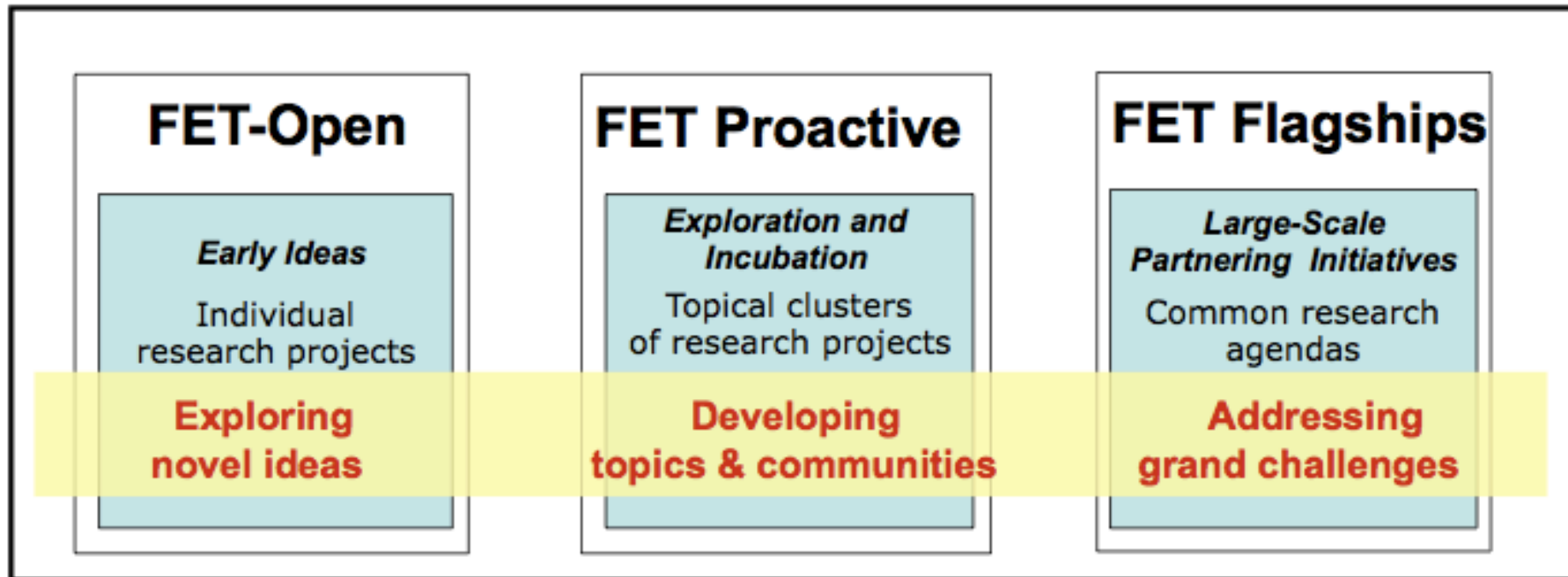
HORIZON 2020 - THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION (2014-2020)

Pathfinding Europe's technological future

HORIZON 2020 – Excellent science

FET

European
Commission



HORIZON 2020 – Industrial leadership SME Instrument

STRUMENTO PMI (Area 2 – Industrial leadership)

- Novità assoluta di H2020
- Strumento dedicato per PMI
- Un solo proponente possibile
- Gestione programma EASME – Executive Agency for SMEs (<http://ec.europa.eu/easme/>)

HORIZON 2020 – SME Instrument

PMI forza motrice crescita e occupazione in UE

- 20,35 milioni di PMI
- 85% nuovi posti di lavoro
- 58% valore aggiunto lordo

Barriere per PMI

- Accesso inadeguato a finanza d'impresa
- Accesso inadeguato conoscenza/competenze
- Poco *networking*/cooperazione (*open innovation*)
- Mancanza internazionalizzazione

HORIZON 2020 – SME Instrument

Approccio integrato al sostegno per PMI: 20% target di budget per PMI in *LEITs** e *Societal Challenges*

Collaborative
projects 13%

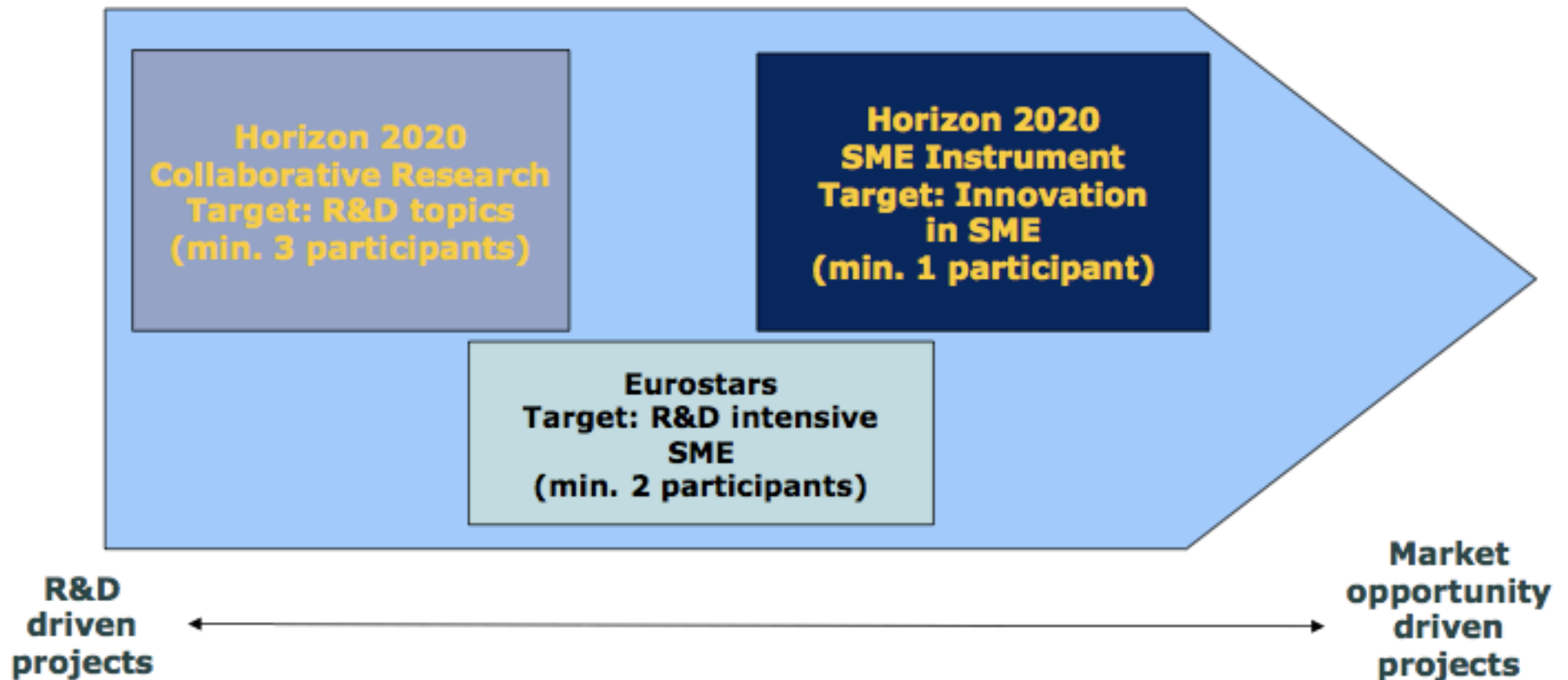
SME Instrument 7%

Eurostars II
Enhancing Innovation capacity
Market-driven Innovation

Access to Risk Finance

* Leadership in enabling and
industrial technologies

HORIZON 2020 – SME Instrument



HORIZON 2020 – SME Instrument

PROFILO PMI

- PMI innovative con ambizione di svilupparsi, crescere e avere impatto internazionale
- Possibile sostegno a singola PMI
- Presentazione continua
- Nessuna obbligo a coprire le 3 fasi (suggerito)

HORIZON 2020 – SME Instrument

TRE FASI

- **FASE 1 - Concept & Feasibility Assessment**
- **FASE 2 – Innovation Project**
- **FASE 3 – Commercialisation**

HORIZON 2020 – SME Instrument

FASE 1 - Concept & Feasibility Assessment

- **50.000 € finanziamento:** *lump sum (forfait)*, equivale a 75% co-finanziamento, senza rendicontazione
- Attività finanziata: Studio fattibilità per verificare realizzabilità del concetto o della *disruptive innovation* proposta
- Proposta iniziale di 10 pag. di business plan
- Attività di 6 mesi

HORIZON 2020 – SME Instrument

FASE 2 – Innovation Project

- **Finanziamento UE:** tra 0.5 M€ e 2.5 M€
- Attività finanziata: sviluppo del progetto attraverso una strategia di innovazione
- Proposta più sviluppata, 30 pagine di business plan
- Attività di 1-2 anni

HORIZON 2020 – SME Instrument

FASE 3 – Commercializzazione

- Nessun finanziamento diretto UE
- Sostegno e *coaching*
- Accesso facilitato a *risk finance*
- Ulteriore sostegno e possibilità *netwotking* (EEN)

HORIZON 2020 – SME Instrument

TIMELINE

- 3 Marzo 2014: apertura candidature
- 1 Aprile 2014: inizio valutazione proposte
- Cut-off per Fase 1: 18/6/14, 24/9/14, 17/12/14
- Cut-off per Fase 2: 9/10/14 e 17/12/14

HORIZON 2020 – SME Instrument

13 TEMI PER 2014-2015

- High risk ICT innovation
- Nanotech, or other advanced tech for manufacturing and materials
- Space research and development
- Diagnostics devices and biomarkers
- Sustainable food production and processing
- Blue growth
- Low carbon energy systems
- Greener and more integrated transport
- Eco-innovation and sustainable raw material supply
- Urban critical infrastructure
- Biotechnology-based industrial processes
- Mobile e-government applications (2015 only)
- SME business model innovation (2015 only)

HORIZON 2020 – SME Instrument

PROCESSO VALUTAZIONE

- Valutazione a distanza
- Nessun *consensus meetings*
- Valutazione scritta: corto e standard feedback
- Nessuna negoziazione
- Solo una domanda per PMI possibile per ogni fase

HORIZON 2020 – SME Instrument

CRITERI DI VALUTAZIONE

- Possibile impatto economico
- Eccellenza nell'innovazione
- Potenziale nella commercializzazione
- Potenziale PMI nel raggiungere risultati previsti

HORIZON 2020 – Societal challenges

Budget 38,53 % (29.679 M€) / 7 obiettivi/temi :

- **Health, demographic change and wellbeing** (9,7%)
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H2020 - Health, demographic change and wellbeing

Budget 2014-2020 7.472 M€

- **7 focus areas**
- Work programme 2014-2015
 - Bando “personalising health and care” (PHC)
 - 34 argomenti (15 in 2014, 17 in 2015, 2 in entrambi)
 - Bando “co-ordination activities”
 - 15 argomenti (10 in 2014, 5 in 2015)

H2020 - Health, demographic change and wellbeing

7 focus areas

- Understanding health, ageing & disease
- Effective health promotion, disease prevention, preparedness and screening
- Improving diagnosis
- Innovative treatments and technologies
- Advancing active and healthy ageing
- **Integrated, sustainable, citizens-oriented care**
- **Improving health information, data exploitation and providing an evidence base for health policies and regulation**

H2020 - Health, demographic change and wellbeing

Come leggere una call

PHC 2 – 2015: Understanding diseases: systems medicine

Specific challenge: The development of new improved understanding of the often very complex (bio) medicine approaches have the potential to take advantage of a variety of biological and medical research data. A collaborative approach is required to assemble the data from biology, medicine, mathematics, computational science and systems medicine approaches.

Scope: Proposals should focus on new avenues for understanding phenotypes in multifactorial diseases and/or development/optimisation and/or application of systems medicine of biomedical and clinical data to produce or refine computational and mathematical approaches. The approaches should be validated in well-phenotyped patient cohorts, taking their potential thoroughly investigated.

The Commission considers that proposals requesting up to EUR 4 and 6 million would allow this specific challenge. Nonetheless, this does not preclude submission of proposals for larger amounts.

Expected impact: This will provide:

- Leverage of existing investments in Europe
- New directions for better disease detection and diagnosis
- Systems medicine tools and approaches to improve patient care which represent an improvement over current practice

Type of action: Research and Innovation action

'PHC 2 – 2015': Understanding diseases..

'Specific challenge'

'Scope'

'Expected impact'

'Type of action'

H2020 - Health, demographic change and wellbeing

Integrated, sustainable, citizens-oriented care (1)

- New models for prevention oriented health and care systems (2014)
- Piloting personalised medicine in health and care systems (2015)
- Self-management of health and disease:
 - citizen engagement and m-Health for disease management (2014)
 - patient empowerment supported by ICT (2015)
 - based on predictive computer modelling (2015)

H2020 - Health, demographic change and wellbeing

Integrated, sustainable, citizens-oriented care (2)

- Public procurement of innovative eHealth services (2015)
- ICT systems for integrated care (2015)
- eHealth sectorial inducement prize (2015)

H2020 - Health, demographic change and wellbeing

Improving health information, data exploitation and providing an evidence base for health policies and regulation

- Digital representation of health data to improve diagnosis and treatment (2015)
- Foresight for health policy development and regulation (2014)
- Advancing bioinformatics for clinical needs (2014)
- Improve predictive human safety testing (2015)
- eHealth interoperability (2014)

H2020 - Secure, Clean and Efficient Energy

Ridurre consumo energia e emissioni

Low-cost, low-carbon electricity supply

Alternative fuels and mobile energy sources

A single, smart European electricity grid

New knowledge and technologies

Robust decision making and public engagement

Market uptake of energy and ICT innovation

H2020 - Secure, Clean and Efficient Energy

Energy Efficiency

Efficienza energetica opzione senza ritorno per UE da raggiungere con policy di breve e di lungo termine
Ridurre progressivamente consumo di energia entro 2020 e 2030.

Progetti di ricerca e attività dimostrative, focus su edifici, industria, sistemi riscaldamento e raffreddamento, PMI e prodotti/servizi energetici, integrazione di ICT e cooperazione con settore telecom

H2020 - Secure, Clean and Efficient Energy

Low Carbon Technologies

Sviluppare e **portare sul mercato soluzioni tecnologiche** convenienti, *cost-effective* e efficienti nell'uso di risorse per de-carbonizzare sistema energetico modo sostenibile, **approvvigionamento energetico sicuro** e completare **mercato interno energia**.

Attività di ricerca focus su: **Fotovoltaico**, sistemi a concentrazione **solare**, energia **eolica**, *Ocean Energy*, energia idroelettrica, geotermica, **risorse rinnovabili per riscaldamento e raffreddamento**, sistemi accumulo energia, biocarburanti e carburanti alternativi, cattura e stoccaggio di carbonio

H2020 - Secure, Clean and Efficient Energy

Smart Cities & Communities

Sviluppo sostenibile aree urbane richiede tecnologie e servizi nuovi, efficienti, e user-friendly, in particolare nei settori energia, trasporti e ICT.

Queste soluzioni hanno bisogno di approccio integrato sia in termini di R&S soluzioni tecnologiche avanzate, che nel loro uso.

Focus su tecnologie per *smart cities* risulterà da **soluzioni su scala commerciale** con elevato **potenziale di mercato**

H2020 - Secure, Clean and Efficient Energy

Smart Cities & Communities

- **Innovation partnership for Smart Cities and Communities**
 - Lanciata nel 2011
 - **2012** (primo anno) **81 M€** a disposizione, coprendo **solo due settori: trasporti e energia**. Progetti dimostrativi finanziati in uno dei due settori e **non** nei due **combinati**
 - **2013**, budget salito a **365 M€**, **coprendo tre settori: energia, trasporti e ICT**. Novità, tutti i progetti dimostrativi devono **combinare** tutti e tre i settori per sfruttare al massimo sinergie.
 - Un **Gruppo di Alto Livello** costituito da CEOs industrie *R&D-intensive*, sindaci, autorità di regolamentazione e istituzioni finanziarie pubbliche per assicurare successo nella realizzazione della partnership

H2020 - Smart, Green and Integrated Transport

Priorità

- Trasporti più sostenibili : resource-efficient e rispetto ambiente
- Trasporti e sistemi di trasporto scorrevoli: **migliore mobilità, meno congestione**, maggiore **sicurezza** e protezione.
- Mantenere **trasporti competitivi**: industria trasporti Europei come un global leader
- **Ricerca** nei trasporti **più responsive**: ricerca socio-economica, e attività di lungo raggio per *policy-making*

H2020 - Smart, Green and Integrated Transport

Tre calls

- Mobility for Growth (Deadline: 31/03/2015)
 - Mobilita persone, merci, trasporti inter-modali, logistica
- Green Vehicles
 - Sviluppare strumenti, infrastrutture e servizi intelligenti migliorando trasporti e mobilita in aree urbane
- Small Business and Fast Track Innovation for Transport