



"Verso Horizon 2020*: prospettive e opportunità"

Paola Materia
APRE

Napoli, 17 Maggio 2012



*this presentation is based on the proposal of the EC to the Parliament and the Council.

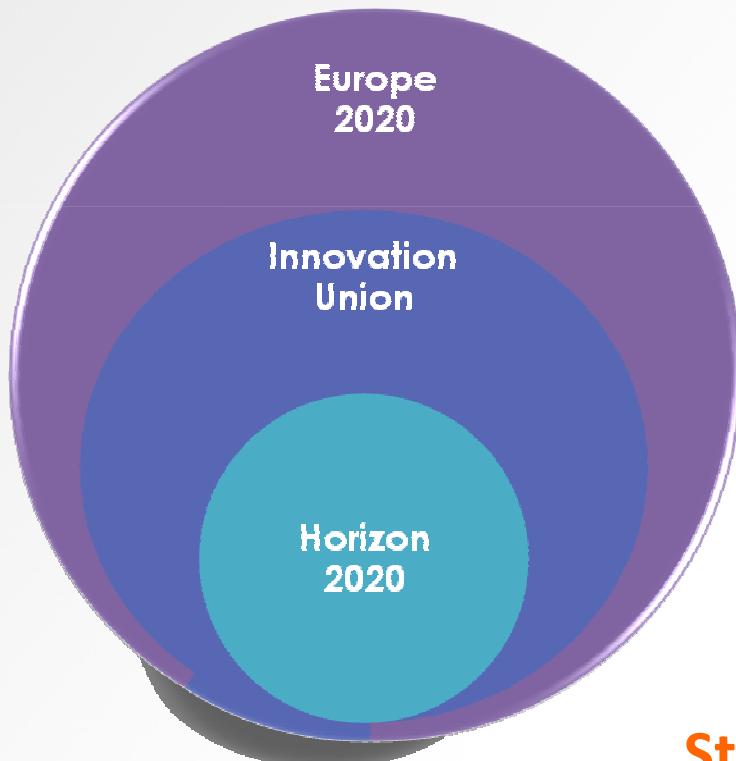


INDICE

- ✗ Verso Horizon 2020
- ✗ APRE: obiettivi ed attività

What is Horizon 2020

A core part of Europe 2020, Innovation Union & European Research Area:



- **Responding to the economic crisis** to invest in future jobs and growth
- **Addressing peoples' concerns** about their livelihoods, safety and environment.
- **Strengthening the EU's global position** in research, innovation and technology

Starting on 01.01.2014





What's new

- **A single programme** bringing together three separate programmes/initiatives
- **More innovation**, from research to retail, all forms of innovation
- **Focus on societal challenges** facing EU society, e.g. health, clean energy and transport
- **Simplified access**, for all companies, universities, institutes in all EU countries and beyond
- **Part of proposals for next EU budget**, complementing Structural Funds, education, etc. (**Commission proposal for a 80 B€ research and innovation funding programme -2014-2020**)



The Structure

Three priorities:

Eccellent Science

ERC

Marie Curie Actions

FET-Future Emerging technologies

Research Infrastructures
(including e-Infrastructures)

Industrial leadership

Leadership in enabling and industrial technologies (*ICT, nanotechnologies, materials, biotechnology, manufacturing, space*)

Access to risk finance
Leveraging private finance and venture capital for research and innovation

Innovation in SMEs
Fostering all forms of innovation in all types of SMEs

Societal Challenges

Health, demographic change and wellbeing

Food security, sustainable agriculture, marine and maritime research & the bioeconomy

Secure, clean and efficient energy

Smart, green and integrated transport

Climate action, resource efficiency and raw materials

Inclusive, innovative and secure societies

Priority 1: Excellent science

Why:

- World class science is the foundation of tomorrow's technologies, jobs and wellbeing
- Europe needs to develop, attract and retain research talent
- Researchers need access to the best infrastructures

European Research Council <i>Frontier research by the best individual teams</i>	13 268 M€
Future and Emerging Technologies <i>Collaborative research to open new fields of innovation</i>	3 100 M€
Marie Curie actions <i>Opportunities for training and career development</i>	5 752 M€
Research infrastructures (including e-infrastructure) <i>Ensuring access to world-class facilities</i>	2 478 M€



Priority 2: Industrial leadership

Why:

- Europe needs more innovative SMEs to create growth and jobs
- Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) underpin innovation across existing and emerging sectors
- Europe needs to attract more private investment in research and innovation

Leadership in enabling and industrial technologies (<i>ICT, nanotechnologies, materials, biotechnology, manufacturing, space</i>)	13 781 M€
Access to risk finance <i>Leveraging private finance and venture capital for research and innovation</i>	3 538 M€
Innovation in SMEs <i>Fostering all forms of innovation in all types of SMEs</i>	619 M€



Priority 3: Societal challenges

Why:

- EU policy objectives (climate, environment, energy, transport etc) cannot be achieved without innovation
- Breakthrough solutions come from multi-disciplinary collaborations, including social sciences & humanities
- Promising solutions need to be tested, demonstrated and scaled up

Health, demographic change and wellbeing	8 029 M€
Food security, sustainable agriculture, marine and maritime research & the bioeconomy	4 152 M€
Secure, clean and efficient energy*	5 782 M€
Smart, green and integrated transport	6 802 M€
Climate action, resource efficiency and raw materials	3 160 M€
Inclusive, innovative and secure societies	3 819 M€



Eccellent Science	Industrial leadership	Societal Challenges
ERC Marie Curie Actions FET-Future Emerging technologies Research Infrastructures (including e-Infrastructures)	Leadership in enabling and industrial technologies (ICT, nanotechnologies, materials, biotechnology, manufacturing, space) Access to risk finance <i>Leveraging private finance and venture capital for research and innovation</i> Innovation in SMEs <i>Fostering all forms of innovation in all types of SMEs</i>	Health, demographic change and wellbeing Food security, sustainable agriculture, marine and maritime research & the bioeconomy Secure, clean and efficient energy Smart, green and integrated transport Climate action, resource efficiency and raw materials Inclusive, innovative and secure societies

Priority 1: Excellent science

Research Infrastructures

Objectives

- Developing the European research infrastructures for 2020 and beyond
- Fostering their innovation potential and human capital and reinforcing European policy
- Coordination with the cohesion funding sources will be pursued to ensure synergies and a coherent approach for the development of the research infrastructures.



Excellent Science	Industrial leadership	Societal Challenges
ERC Marie Curie Actions FET-Future Emerging technologies Research Infrastructures (including e-Infrastructures)	Leadership in enabling and industrial technologies (ICT, nanotechnologies, materials, biotechnology, manufacturing, space) Access to risk finance <i>Leveraging private finance and venture capital for research and innovation</i> Innovation in SMEs <i>Fostering all forms of innovation in all types of SMEs</i>	Health, demographic change and wellbeing Food security, sustainable agriculture, marine and maritime research & the bioeconomy Secure, clean and efficient energy Smart, green and integrated transport Climate action, resource efficiency and raw materials Inclusive, innovative and secure societies

Priority 1: Excellent science Research Infrastructures

A. Fostering the innovation potential of RIs and their human capital

1. Exploiting the **innovation potential** of research infrastructures: partnerships with industry, pre-commerical procurement, stimulate the use of RIs by industry, integrating RIS into local, regional and global innovation ecosystem
→ EU will leverage the use of RIs (in particular e-RIs) for public service, social innovation, CULTURE and education

2. Strengthening the **human capital** training and exchange of best practices



Eccellent Science	Industrial leadership	Societal Challenges
ERC Marie Curie Actions FET-Future Emerging technologies Research Infrastructures (including e-Infrastructures)	Leadership in enabling and industrial technologies (ICT, nanotechnologies, materials, biotechnology, manufacturing, space) Access to risk finance <i>Leveraging private finance and venture capital for research and innovation</i> Innovation in SMEs <i>Fostering all forms of innovation in all types of SMEs</i>	Health, demographic change and wellbeing Food security, sustainable agriculture, marine and maritime research & the bioeconomy Secure, clean and efficient energy Smart, green and integrated transport Climate action, resource efficiency and raw materials Inclusive, innovative and secure societies

Priority 1: Excellent science Research Infrastructures

B. Reinforcing EU Research Infrastructures policy and international cooperation

1. Reinforcing EU policy

Synergies between national and EU initiatives, structural funds...

2. Facilitating strategic international cooperation

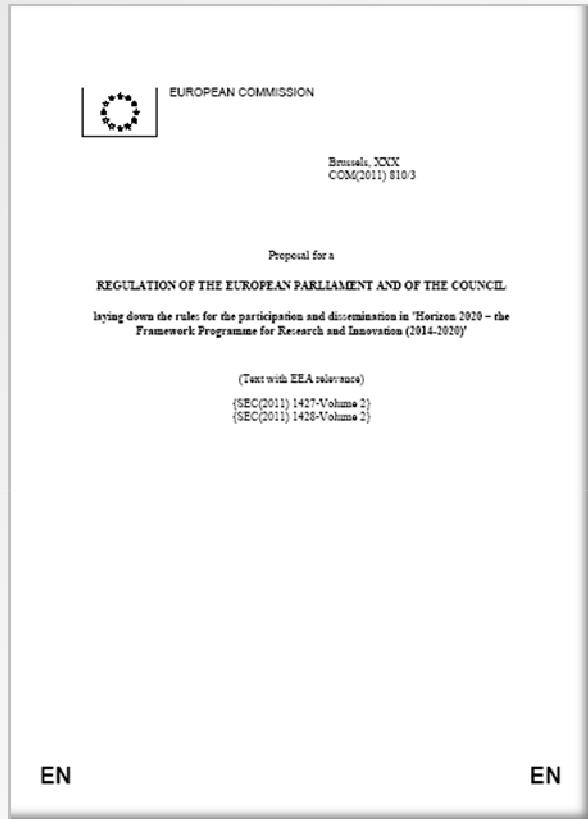
development of global RIs, global interoperability, international agreements on reciprocal use, openness and co-financing

C. Specific implementation aspects

Consultation with experts, ESFRI, eIRG...



What's new Rules for Participation



The current Rules for participation follow the FP7 rules with a new approach aiming at ***semplification***. Some novelties can be identified in the financial rules and the funding instruments, however **specific provisions will be available in the Work Programmes**

Official documents are available at:

http://ec.europa.eu/research/horizon2020/index_en.cfm?pg=h2020-documents



Main steps

From 30/11: Parliament and Council negotiations on the basis of the Commission proposals

Ongoing: Parliament and Council negotiations on EU budget 2014-20 (including overall budget for Horizon 2020)

Mid 2012: Final calls under 7th Framework Programme for Research to bridge gap towards Horizon 2020

By end 2013: Adoption of legislative acts by Parliament and Council on Horizon 2020

01/01/2014: Horizon 2020 starts; launch of first calls

www.ec.europa.eu/research/horizon2020



APRE verso Horizon 2020:

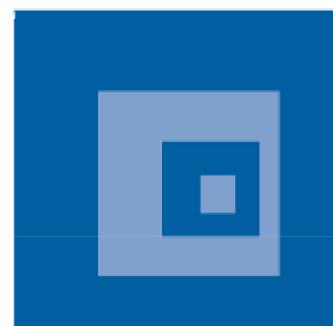
Uno dei fattori che può contribuire a migliorare le performance future di partecipazione dell'Italia è quella di essere parte attiva nella costruzione del prossimo H2020.

In tale contesto APRE ha iniziato una serie di attività a sostegno di tale scopo.



[www.apre.it]

APRE è un Ente di ricerca non profit con obiettivo, sancito dall'articolo 3 dello statuto, di promuovere la partecipazione italiana ai programmi di ricerca e sviluppo finanziati dalla Commissione Europea



A P R E
A G E N Z I A
P E R L A
P R O M O Z I O N E
D E L L A
R I C E R C A
E U R O P E A

Prima realtà del suo genere in Italia, **APRE** nasce nel 1989 come "Task Force" del Ministero dell'Università e della Ricerca.



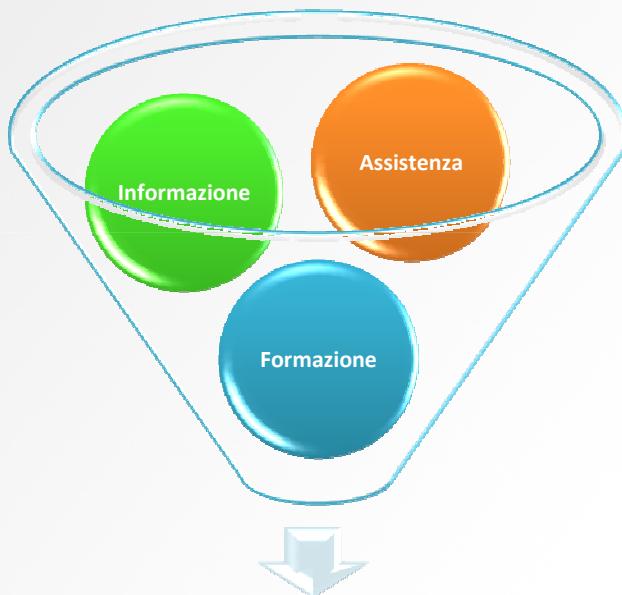
Nel 1990 viene poi costituita formalmente da Confindustria, ENEA, FAST e Mondimpresa

È sostenuta da numerose Università e organizzazioni private e pubbliche del mondo accademico, dell'industria e della finanza.



[COS'É APRE?]

APRE ospita i **Punti di contatto nazionale** del VII Programma Quadro in Italia. Questi sono nominati dal Ministero dell'Università e della Ricerca (MIUR) e riconosciuti dalla Commissione Europea.



Proposta vincente

Informazione

- Conferenze
- News Alert
- Sito web (www.apre.it)
- Pubblicazioni

Formazione

- Essere un buon coordinatore
- Preparazione della proposta
- Come disseminare i risultati della ricerca
- Proprietà intellettuale e Consortium Agreement

Supporto prima
dell'inizio del
progetto (telefono,
mail e incontri)

- Identificazione del tema e del topic FP7
- Verificare l'elegibilità della proposta
- Pre-screening della proposta
- Aiuto nell'utilizzo dell'EPSS System

Supporto dopo
l'inizio del progetto
(telefono, mail e
incontri)

- Negoziazione
- Management del progetto
- Disseminazione dei risultati
- Reporting

[MISSIONE]



Soci APRE



Un po' di numeri:

110 Soci di cui:
6 associazioni di categoria
34 enti di ricerca tra pubblici e privati
4 realtà appartenenti al mondo della finanza
5 organismi del sistema camerale
4 parchi scientifici
6 enti della pubblica amministrazione
51 università

[NETWORK]



APRE verso Horizon 2020:

coordinare e favorire il dialogo tra i diversi attori nazionali del mondo della ricerca e dell'innovazione avviando la fase “Verso Horizon 2020”



attivare una serie di gruppi di lavoro e tavoli di concertazione a supporto del MIUR, che coinvolgono università, centri di ricerca, aziende, associazioni industriali, istituzioni del mondo della finanza e tutti gli attori che in Italia hanno maturato sul campo un'esperienza di Programmi Quadro.



APRE
AGENZIA
PER LA
PROMOZIONE
DELLA
RICERCA
EUROPEA

APRE verso Horizon 2020:

[attività 2011 - 2012]

- ✓ Presentazione del *libro verde* a tutti i potenziali stakeholder ed elaborazione di una risposta condivisa alla consultazione su di esso, rappresentativa di circa 130 istituzioni italiane.
- ✓ Organizzazione di gruppi di lavoro sulle seguenti tematiche:
 - ✓ Persone
 - ✓ Idee
 - ✓ Infrastrutture di Ricerca
 - ✓ Innovazione
 - ✓ Piccole e Medie Imprese
 - ✓ Materiali
 - ✓ Energia
 - ✓ Trasporti
 - ✓ Salute
 - ✓ ICT



APRE verso Horizon 2020:

[attività 2011 - 2012]

- „Tutti i *Position Paper*, elaborati nell'ambito dei diversi gruppi di lavoro, inviati al MIUR e Rappresentanza Italiana a Brussels
- „Raccolta dei *Position Paper* per i Parlamentari Europei (italiani) che parteciperanno alle discussioni su H2020



APRE verso Horizon 2020:

[Roma 2012]



“SMART SPECIALISATION STRATEGY” in Horizon 2020 e nei Fondi Strutturali

SEDE: Aula Convegni del CNR in Piazzale A. Moro N. 7 (Roma), 16/05/2012

Organizzato da: APRE in collaborazione con CNR e MIUR

Giornata in tema di strategie di specializzazione intelligente e della loro sinergia con il futuro H2020 e i fondi strutturali 2014-2020.



AGENZIA
PER LA
PROMOZIONE
DELLA
RICERCA
EUROPEA

Grazie per l'attenzione

APRE

www.apre.it

