

Europe as a Global Actor

International Dimension of Horizon 2020
and Research Opportunities with Third
Countries



The European Union

500 million people - 28 countries - a single market*



- 7% of the World's population
- 24% of world expenditure on research
- 32% of high-impact publications
- 32% of patent applications

***Free movement of people, goods, services and capital**

Europa 2020 – 5 targets

EMPLOYMENT

75% of the population aged 20-64 should be employed

R & INNOVATION

3% of the EU's GDP to be invested in R&D

A reduction of CO2 emissions by 20%

CLIMATE/ ENERGY

A share of renewable energies up to 20%

An increase in energy efficiency by 20%

EDUCATION

The share of early school leavers should be under 10%

At least 40% of the younger generation should have a degree or diploma

POVERTY

20 million fewer people should be at risk of poverty

7 “Flagship Initiatives”

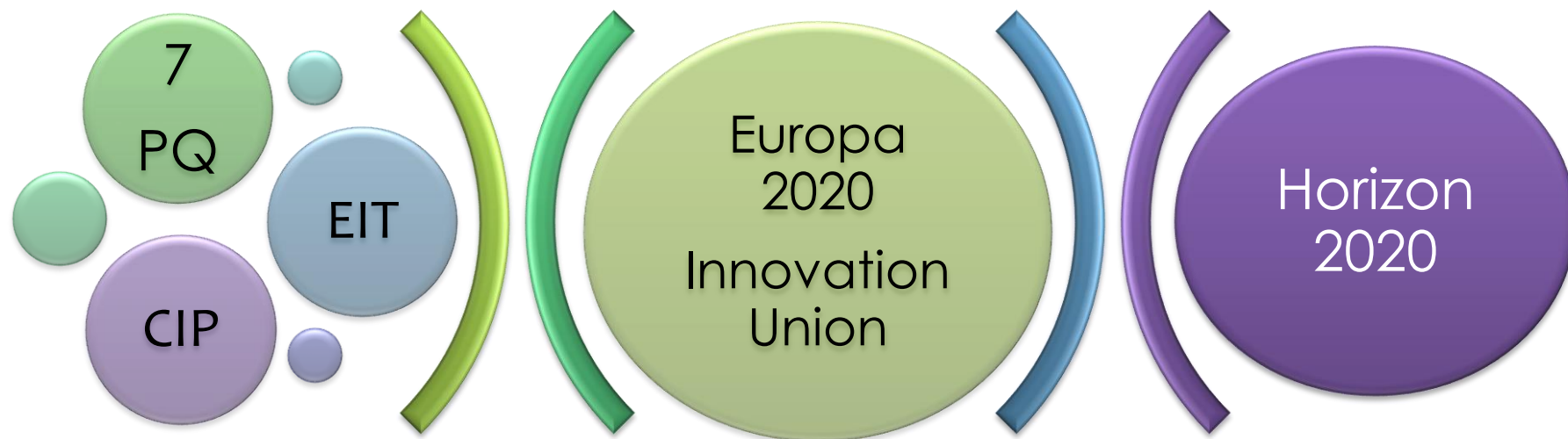
Smart Growth	Sustainable Growth	Inclusive Growth
<p>Innovation</p> <p>« <u>Innovation Union</u> »</p>	<p>Climate, energy and mobility</p> <p>« Resource efficient Europe »</p>	<p>Employment and skills</p> <p>« An agenda for new skills and jobs »</p>
<p>Education</p> <p>« Youth on the move »</p>	<p>Competitiveness</p> <p>« An industrial policy for the globalisation era »</p>	<p>Fighting poverty</p> <p>« European platform against poverty »</p>
<p>Digital society</p> <p>« A digital agenda for Europe »</p>		

WHAT IS HORIZON 2020?

- A €80 billion research and innovation funding program (2014 -2020)
- A response to economic crisis by investing in future jobs and growth
- It addresses people's concerns about their livelihoods, safety and environment



The way to Horizon 2020



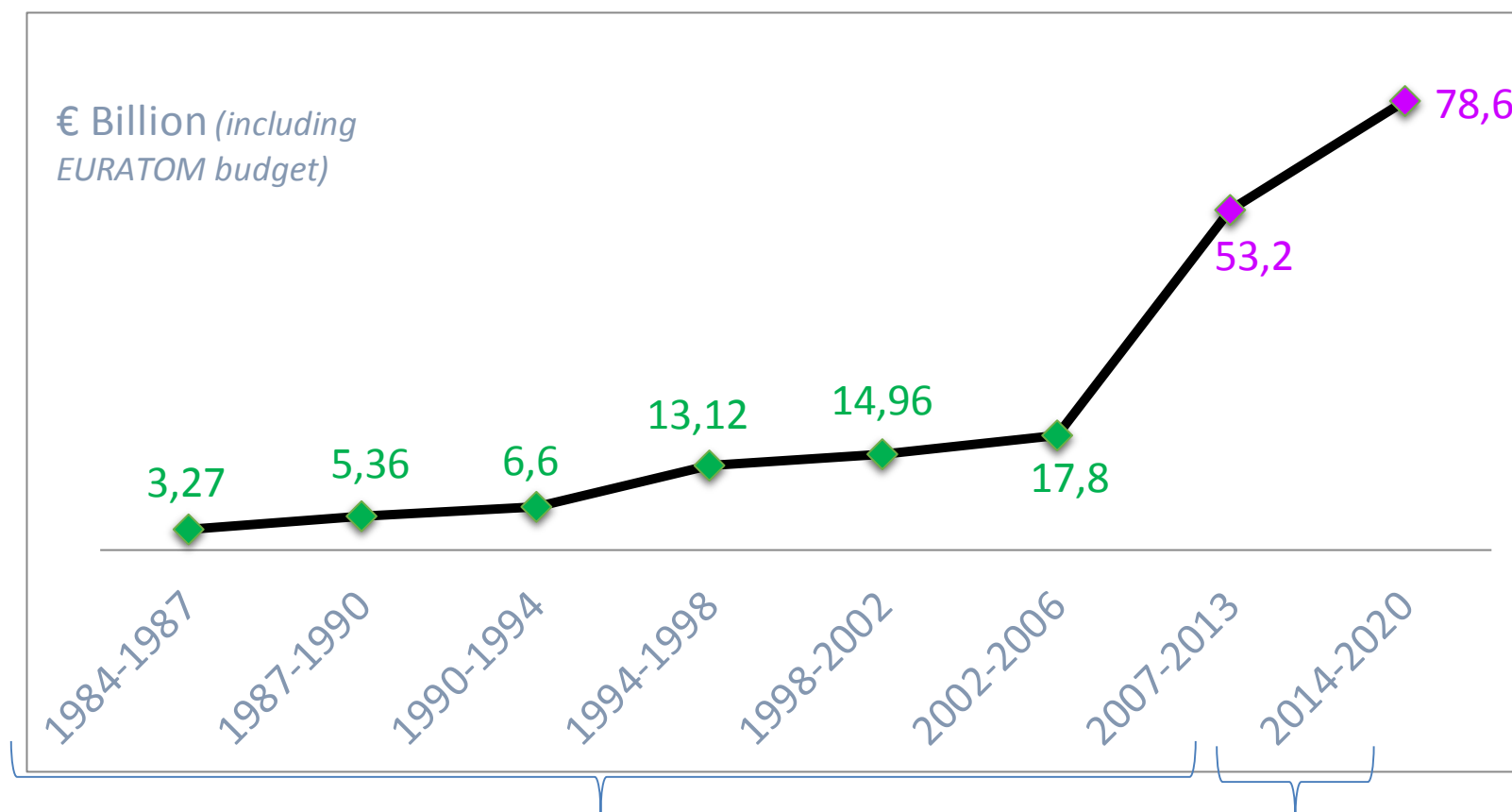
2007 - 2013



2014 - 2020



Budget



Framework Programmes

H2020

- Framework Programmes
4 years
- Framework Programmes
7 years

Horizon 2020

A single programme

- **Coupling research with innovation:** 'from lab to market'
- **Focus on societal challenges:** health, clean energy, transport, etc.
- **Open to participation:** companies, universities, institutes in EU and beyond

H2020 Structure

Excellent Science

- **European Research Council**
 - Frontier research by the best individual teams
- **Future and Emerging Technologies**
 - Collaborative research to open new fields of innovation
- **Marie Skłodowska Curie actions**
 - Opportunities for training and career development
- **Research infrastructures** (including e-infrastructure)
 - Ensuring access to world-class facilities

Industrial Technologies

- **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, environment resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Security society

European Institute of Innovation and Technology (EIT)

Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)

A large teal-colored circle is centered on a black background. Inside the circle, the text "Supporting our excellent science base" is written in white, bold, sans-serif font, arranged in three lines.

**Supporting
our excellent
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To support the best ideas and developing skills
- To make Europe attractive for researchers from all over the world.
- Access to the best infrastructures

Struttura del programma

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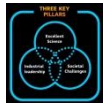
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Industrial leadership

- ***Leadership in enabling and industrial technologies***
Emphasising key technologies in areas such as advanced manufacturing, microelectronics, nanotechnology, biotechnology, ICT and space



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The pillar of Societal Challenges supports R&I that target society and citizens (climate, environment, energy, transport, etc.). It supports the development of breakthrough solutions coming from multi-disciplinary collaborations, which include social sciences and humanities.

Rules of participation

Minimum Conditions:

■ For standard (cooperative) research projects:

➤ 3 participants from different Member States or associated countries

In addition, participants from any other country in the world can also be included

■ For actions aimed at individuals, like European Research Council or Marie Skłodowska-Curie:

➤ 1 researcher

➤ 1 host institution

➤ 1 project



HORIZON 2020: Open to the world

1. Projects can include international partners

2. Targeted opening

- In certain topics in calls for proposals, inclusion of international partners may be:

- a) encouraged
- or
- b) required

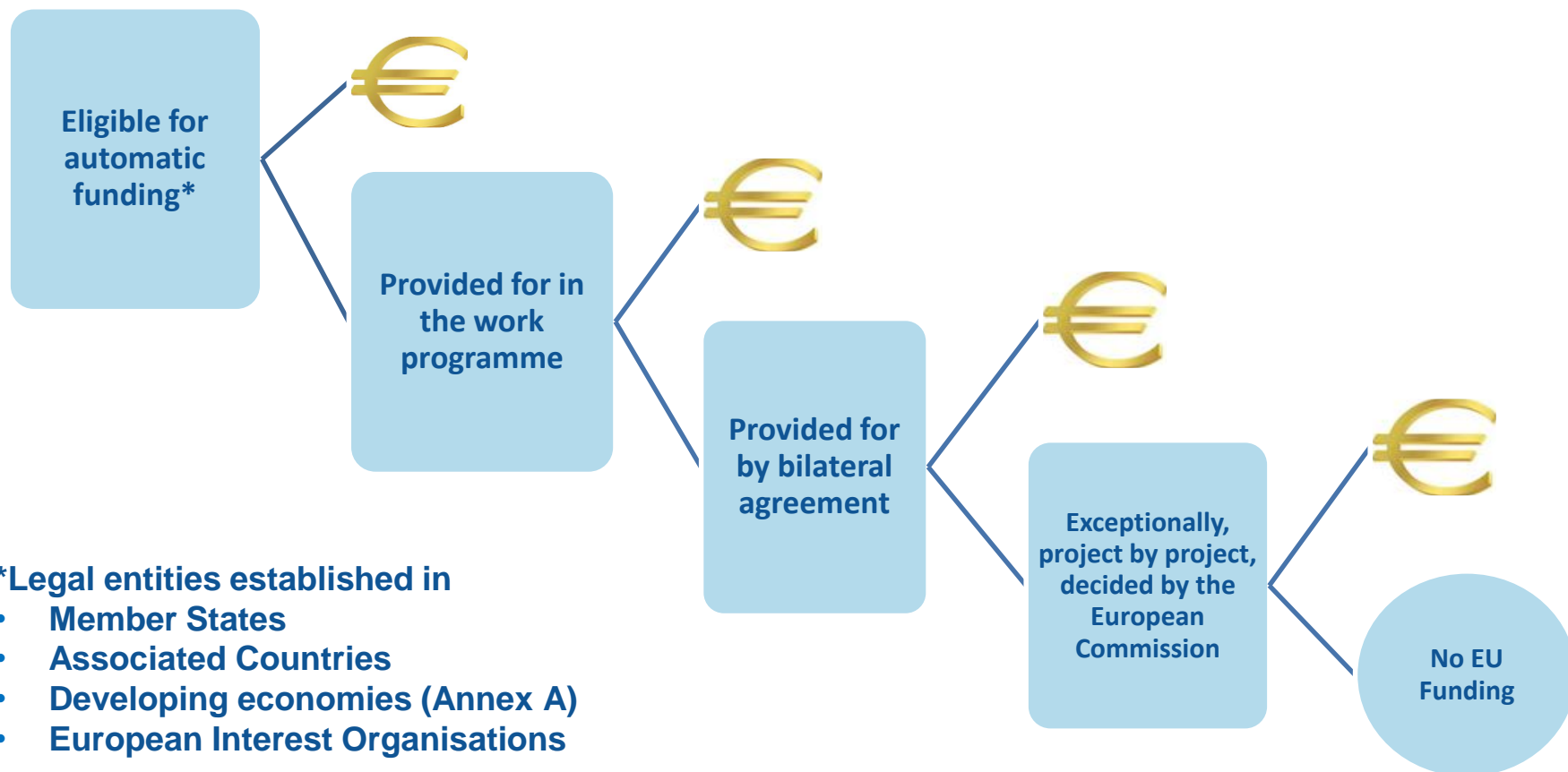
3. Coordinated calls

- Used for specific actions (e.g. identified through joint steering committees). Paired calls, linked evaluations, two contracts, e.g.:

- a) EU-Japan R&D Cooperation in Net Futures
- b) Partnering with Brazil on advanced biofuels



Eligibility for funding



*Legal entities established in

- Member States
- Associated Countries
- Developing economies (Annex A)
- European Interest Organisations

Types of action / funding rates

- **Research and Innovation Action (RIA):**
Up to 100% of eligible costs
- **Innovation Action (IA):**
Up to 70% of eligible costs
(exception: up to 100% for non-profit organisations)
- **Coordination and Support Action (CSA):**
Up to 100% of eligible costs
- **Pre-Commercial Procurement (PCP):**
Governed by participation rules; EO-2-2016 max 90%

In all cases:

GRANTS = co-funding of the European Union

Admissibility criteria

1. Submitted in the electronic submission system before the deadline →

Acknowledgement of Receipt

2. Complete (requested administrative forms + proposal description + supporting documents)

3. Readable, accessible and printable

4. Respecting page limit (RIA/IA: 70 pages; CSA:50 pages; PCP 90 pages)

– Outside the limit:

- participating organisations
- ethics self assessment, data management plan

Eligibility criteria

- 1) Out of scope
- 2) Minimum participation and any other eligibility conditions depending on the type of action

Research & innovation action	a. Three legal entities.
Innovation action	b. Each of the three shall be established in a different Member State or associated country.
	c. All three legal entities shall be independent of each other.
Pre-commercial Procurements (PCP)	The same as RIA & IA (a, b & c) out of which there are two independent legal entities which are public procurers from two different Member States or associated countries.
Coordination & support action	One legal entity established in a Member State or associated country.

Countries eligible to receive funding

WP General Annex A

- **EU-Member States**
- **The Overseas Countries and Territories (OCT) linked to the MS**
- **Horizon 2020 associated countries**

Funding Guide for up-to-date information (13 countries as of August 2015):

http://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/international-cooperation_en.htm

For **Switzerland** an agreement has been signed only for Excellent Science (i.e. ERC, FET, RI & Marie Curie actions), actions under specific objectives 'Spreading excellence and widening participation', ITER and EURATOM.

- **Third countries listed in General Annex A**
- **International organisation of European interest**

Other Countries

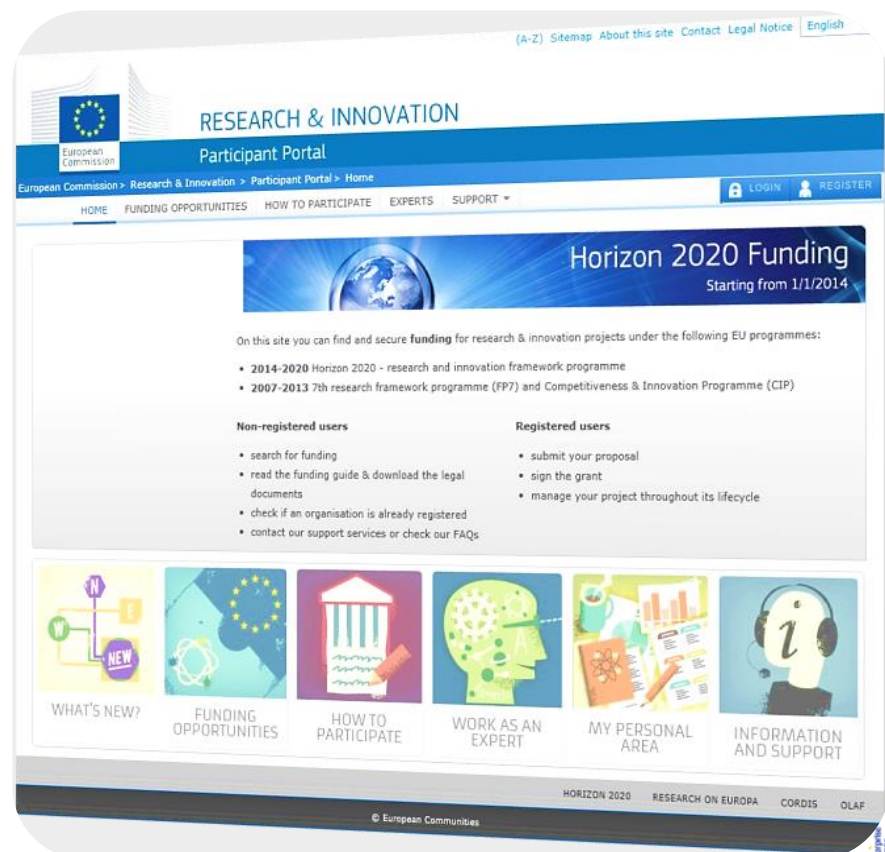
Legal entities established in countries not listed in Annex A and international organisations will only be eligible for funding:

- If **explicitly mentioned in the call text.**
- When funding for such participants is provided for under a **bilateral scientific and technological agreement or any other arrangement** between the Union and an international organisation or a third country
- When the **Commission deems participation of an entity essential for carrying out the action funded through Horizon 2020**



Where to find more information and where to apply?

- **Horizon 2020 Participant Portal**
Research and Innovation
European Commission
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- **Horizon 2020 European Commission**
<http://ec.europa.eu/programmes/horizon2020/>
- **Incontact (NCP's network)**
http://www.ncp-incontact.eu/nkswiki/index.php?title=Main_Page



Thank you for your attention!!

APRE

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