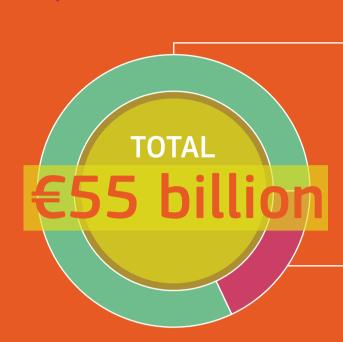




10 KEY FACTS

BUDGET



82% 4 specific programmes*

- Cooperation €28.7bn
- ∘ Ideas €7.7bn
- People €4.8bn
- Capacities €3.8bn

18% Euratom, JRC direct actions, ITER, Risk Sharing Finance Facility and administrative expenditure

*Scope of the FP7 ex post evaluation

PROJECTS



136 000

eligible proposals

25 000 projects funded



PARTICIPATIONS

134 000



from 170 countries

20% of collaborative projects had at least 1 partner from the rest of the world (third countries)

4 **BY LOCATION**



6% **European Union** rest of world

ORGANISATIONS

29 000



+70% were newcomers

FUNDING

8%

Associated countries



universities and research organisations

70%

private sector

public bodies and other

25%

5%

SME SUPPORT

€6.4bn to SMEs throughout FP7

SMEs funded by the Eurostars programme had twice the job growth rate of those that were not funded



SAVINGS 8

FP7 simplification measures saved participants

€550 million

compared to FP6

9 **GENDER EQUALITY**

> 38% of project participants were female





but only 19% were project coordinators

10 SUSTAINABLE DEVELOPMENT

76% of funding

75% of topics



69% of projects





EU RESEARCH FUNDING 2007-2013

7TH FRAMEWORK PROGRAMME





EVALUATION SNAPSHOT

MAIN FINDINGS OF THE EX-POST EVALUATION OF FP7:

SCIENTIFIC EXCELLENCE



1700

patent applications so far



0 000

publications



up to 30%

of publications

rank among the

TOP 5%

highly-cited publications

in their disciplines

well above the EU and US averages

SUPPORT FOR SMALL BUSINESSES

for SMEs

€6.4bn surpassing the 15% target set for the Co-operation Programme

VALUE ADDED



most projects

would not have gone ahead without FP7 investment



big and complex research

could only be carried out at EU level



created durable research and innovation networks

across borders, sectors and disciplines



helped EU countries align research agendas

including through common research agendas and joint calls, and by mobilising €2.75bn in national funding

But... FP7 could still have been further simplified and different components operated too much in isolation.

COHERENCE

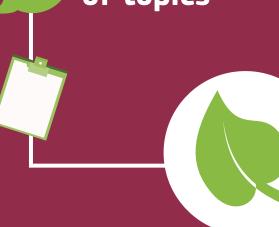
CONTRIBUTION TO SUSTAINABLE DEVELOPMENT

76% of funding



75% of topics

69% of projects





open to the world involved participants from

170 countries

worked with other EU policy initiatives



such as the Competitiveness and Innovation Programme, and Structural Funds

But... there could have been greater synergies

EFFICIENCY

ECONOMIC BENEFITS

€1 spent =



estimated direct and indirect economic effects from innovations, new technologies and products.

SIMPLIFICATION



Reduced costs for participants

saved +€550m compared to FP6

But... some administrative rules were still too complex, particularly for SMEs

RELEVANCE



Took actions

in response to the economic crisis



Addressed societal challenges

e.g. food safety, climate change, health



Invested €45.3bn

in 25 282 projects

in 4 specific programmes

But... could achieve greater scope to adapt to other unexpected and emerging issues

EFFECTIVENESS

JOBS



+130 000 research jobs/year

https://www.facebook.com/innovation.union

+160 000 jobs/year

GROWTH



€500bn in total over 25 years

@innovationunion

@Moedas



http://ec.europa.eu/research/evaluations/

index_en.cfm



EU RESEARCH FUNDING 2007-2013

7TH FRAMEWORK PROGRAMME





BENEFITTING SOCIETY

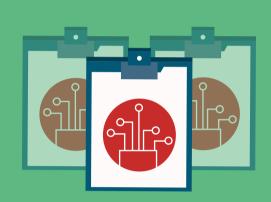
INVESTMENT

+€28.7 billion

by the Cooperation programme leading to new technologies and products, improving life and tackling our biggest challenges, including:

INFORMATION AND COMMUNICATION TECHNOLOGIES

€7.9bn 2328 projects



Advancing the state of the art in:



PHOTONICS



ROBOTICS



ARTIFICIAL INTELLIGENCE



INTERNET OF THINGS



QUANTUM COMPUTING

HEALTH RESEARCH

€4.8bn 1008 projects



Improving health care:



NEW SCREENING METHODOLOGIES for diabetes and Alzheimer's disease



GENOMIC PROGNOSTIC TEST to avoid unnecessary, expensive breast cancer treatments



PORTABLE PET SCAN

to measure important body functions such as blood flow

ENERGY AND ENVIRONMENT

€3.6bn 868 projects



Improving energy efficiency and security of supply, reducing pollution and addressing climate change:



INVESTING IN RENEWABLES solar, wind, biomassaddressing



PERFORMANCE OF MATERIALS

SECURITY

€1.3bn
319 projects



Increasing our knowledge:



EXTREME
WEATHER IMPACTS



INTELLIGENCE AGAINST TERRORISM



CYBER CRIME AND CYBER TERRORISM

SOCIO-ECONOMIC SCIENCES AND HUMANITIES

€0.6bn 253 projects



Increasing understanding:



MIGRATION



RADICALISATION



ECONOMIC AND FINANCIAL CRISIS, BANKING



INTERNATIONAL RELATIONS





REPORT CARD



FP7 FOR **EXCELLENT SCIENCE**



134 000 participations from the EU and worldwide

in +25 000 projects

FUNDING FOR MANY AWARD-WINNING RESEARCHERS

Funding from the European Research Council included:



11 Nobel Laureates and

5 Fields Medallists

ERC

funding excellent basic research

€7.7bn €4.8bn

Marie Skłodowska-Curie **actions** helped boost the careers and mobility of 50 000 researchers

46% of researchers coming to the EU from industrialised countries

stayed in Europe after the end of their Marie Skłodowska-Curie fellowship





170 000

publications

with world-class results so far





up to 30% of publications

rank among the **TOP 5%**

highly-cited publications

in their disciplines

well above the EU28 and US averages

54% in open access



https://www.facebook.com/innovation.union



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REPORTCARD



FUNDING BY EU MEMBER STATE

€45.3bn awarded through open calls for proposals

€4.1bn

€40.5bn

€644m

12 Candidate and **Associated Countries**

28 EU Member States

Rest of the world

FP7 FUNDING

BE

BELGIUM

BULGARIA

BG

CZECH REPUBLIC

DENMARK

€1835m

€99m

€289m

€1072m

GERMANY €7170m **ESTONIA** €95m

EE

IRELAND €625m

GREECE €1008m

SPAIN €3288m

ES

FRANCE €5213m

FR

CROATIA €90m

HR

ITALY €3629m

CYPRUS €93m

LATVIA €49m LITHUANIA €55m

LUXEMBOURG €60m

HUNGARY €292m

HU

MALTA €21m

MT

NETHERLANDS €3394m

AUSTRIA €1188m

POLAND €440m

PORTUGAL €522m

ROMANIA €143m

SLOVENIA €171m

SLOVAKIA €78m

FINLAND €877m

SWEDEN €1745m

SE

KINGDOM €7002m

Note: Statistics as of Nov. 2015





REPORTCARD



FP7 FOR **GROWTH & JOBS**

JOBS



130 000 research jobs/year indirectly another **160 000** jobs/year



GROWTH



€500 billion over 25 years

€20 billion in additional annual GDP

PARTICIPATING ORGANISATIONS

70%

EC funding going to:



universities and research organisations private



25%

public bodies and other



SMEs

5%



SMEs

€6.4bn

surpassing the 15% target set for the Co-operation Programme

5 JOINT TECHNOLOGY INITIATIVES

Large-scale public-private partnerships boosted EU-level industrial research and innovation

INNOVATIVE MEDICINES INITIATIVE

50+ consortia for biomedical **R&D**, opening up routes to commercialisation for SMEs

ENIAC

Nanoelectronics innovation, e.g. for electric cars and energy efficiency

ARTEMIS

Bringing industry and academia together to develop new embedded computing technologies



CLEAN SKY

Helped the aeronautics industry turn demonstrator projects into **new products** - tested two new engine designs

FUEL CELLS AND HYDROGEN

Putting Europe at the forefront of clean transport, deploying:

- 150 new types of cars
- 45 buses types
- hydrogen refuelling stations

3 CONTRACTUAL PUBLIC-PRIVATE PARTNERSHIPS

To boost industry participation in FP7





Energy-efficient Buildings



Green Cars

Factories of the Future



TH FRAMEWORK PROGRAMME

REPORT CARD



BOOSTING RESEARCH CAPACITY



50 000 researchers

supported by Marie Skłodowska-Curie actions including 10 000 PhD candidates

from 140 countries

more than 30% from outside the EU

SUPPORTED THE DEVELOPMENT OF RESEARCHERS' CAREERS



95/100 grant recipients in employment 2 years after the end of their fellowships



COMBINED THE BEST TALENT



doubled share of researchers participating in projects from different disciplines



INCREASED EUROPE-WIDE COLLABORATION AND NETWORKING



29 000 organisations participated





FP7 invested

€1.5bn
in research infrastructures

Capacities-Regions of Knowledge programme improved the research and innovation capacity of Europe's regions with €127 million funding in 84 projects.

The 13 Member States that joined since 2004 received on average 30% more than other Member States in FP7 funding per million euros invested nationally in R&D.







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DISPELLING SOME MYTHS

CLAIMS ABOUT FP7

EVALUATION BY INDEPENDENT EXPERT GROUP

FP7 is only suitable for large industry organisations and big universities

FP7 is only about science

and technology; there are

no funding opportunities

for other scientific disciplines

Participation

12 400+

- SMEs
- Smaller research bodies
- Civil society organisations



A large share of the Cooperation theme focused on science and technology, but this is not the whole picture.



Socio-economic sciences and humanities €580m from the Cooperation programme and 15% of ERC grants



No restrictions on discipline in the People programme for training and career development



€288m

to boost Science in Society, in areas like education, gender equality and public engagement



€1.5bn

investment in research infrastructures

44

For a successful project proposal, it is necessary to include partners from almost all EU countries

FP7 did not have a quota system or make it a pre-condition to include specific EU countries.

The average collaborative project had partners from 6 different countries.



To win a grant, it is important to have **good contacts** to lobby

Independent panels of experts reviewed and evaluated proposals, ensuring:



Sound and objective evaluation of a project's quality



Lobbying is impossible

FP7 projects are so work-intensive that they fail to produce **scientific publications**



170 000

scientific publications published to date



on average

6.8 publications/funded project



FP7 does not fund the most innovative ideas, rather well established researchers



All proposals were evaluated according to their scientific and/or technological excellence



more than 70% of participants were newcomers



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REPORTCARD



WHAT'S NEXT

RECOMMENDATIONS **BY INDEPENDENT EXPERTS**

IN ADDITION TO MEASURES ALREADY TAKEN IN HORIZON 2020, THE COMMISSION WILL:



Focus on critical challenges

Support open innovation, open science and openness to the world. Maximise synergies between different areas of research and innovation and new digital technologies, and explore the idea of a European Innovation Council



Align research and innovation agendas across Europe

Help Member States to reform their research and innovation strategies through the Policy Support Facility, and ensure that Commission proposals support innovation





Build synergies with other research and innovation funds

Coordinate effectively between different sources of EU funding, and introduce a second wave of simplification to make it easier to access financing





Bring science to

Strengthen open access to research publications and data, and get more citizens involved in defining research strategies and topics





Monitor and evaluate funding results

Support Member States in assessing the impact of funding, and explore how new text and data mining tools can improve monitoring and evaluation



Source: European Commission, 2016

