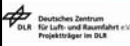




HEALTH-2012, towards HEALTH-2013 and beyond

HEALTH-NCP-NET online training
02.08.2011

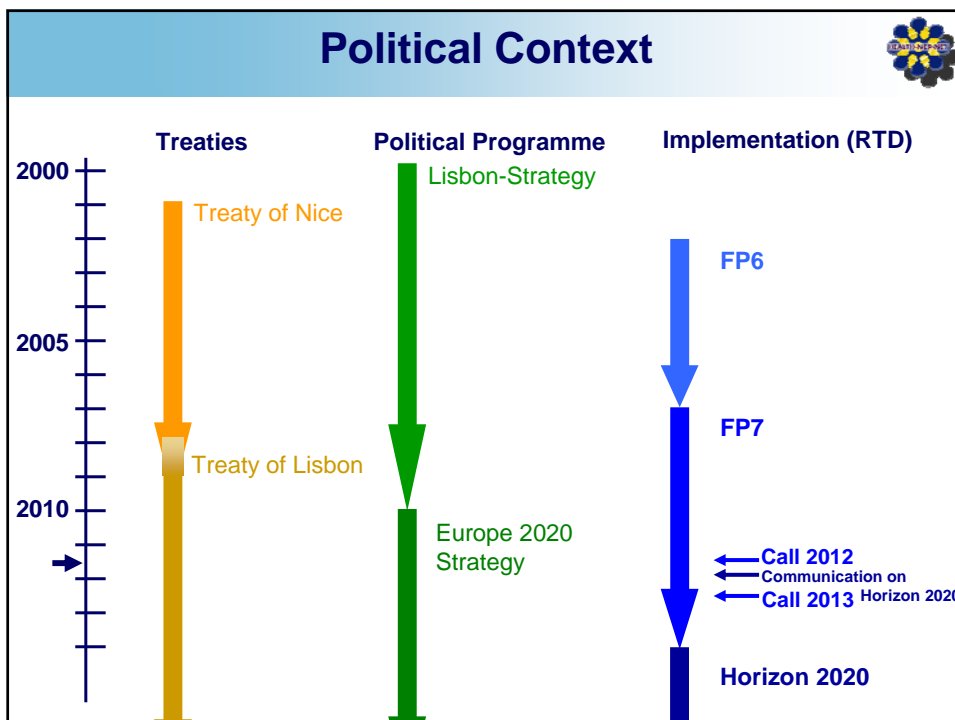
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Europa-2020-Strategy



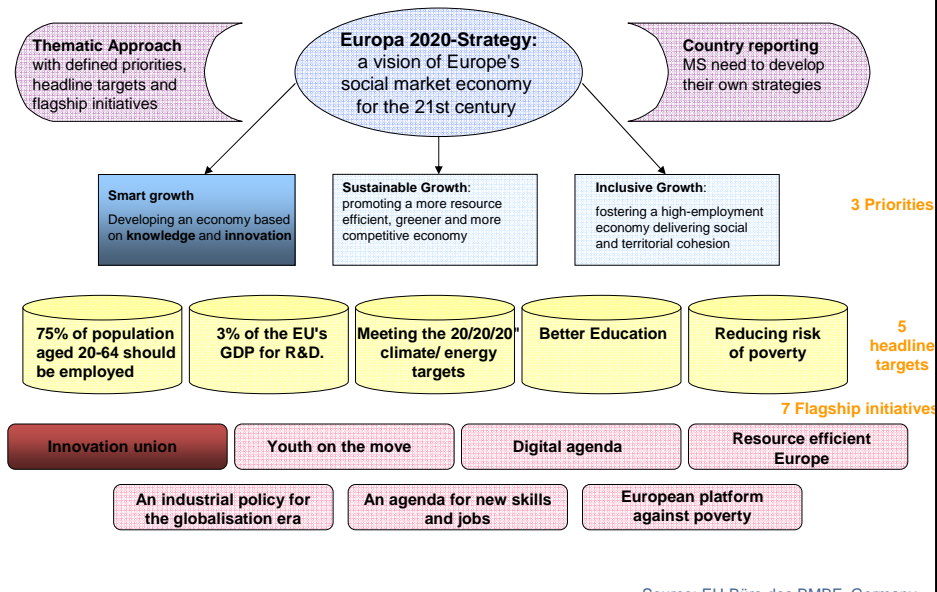
A European strategy for smart, sustainable and inclusive growth

Preface by Manuel Barroso

- *2010 must mark a new beginning. I want Europe to emerge stronger from the economic and financial crisis.*



Europe-2020-Strategy




Source: EU Büro des BMBWF, Germany

Innovation Union Principles



1. Re-focus **R&D and innovation policy** on the **challenges facing our society**, such as climate change, energy and resource efficiency, health and demographic change
2. **Pursuing a broad concept of innovation** (including business models, design branding, services, standards, social innovation,...)
3. **Involvement of all actors** and regions in the innovation cycle
4. Tackle **unsatisfactory framework conditions** (financing high costs for IPR, standardisation, public procurement)
5. Avoiding **fragmentation of effort**


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Innovation Union



1. **Strengthening the knowledge base and reducing fragmentation**
2. Getting good ideas to market
3. Maximising social and territorial cohesion
4. **Pooling forces to achieve breakthroughs: European Innovation Partnerships**
5. Leveraging our policies externally
6. Making it happen

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Innovation Union



1. Strengthening the knowledge base and reducing fragmentation

1.1. Promoting excellence in education and skills development

- Train enough researchers
- Independent university ranking

1.2. Delivering the European Research Area

- Remove obstacles to mobility and cross-boarder operation
- Construction of 60 % of the priority research infrastructures (ESFRI-Process)

1.3. Focussing EU funding instruments on Innovation Union priorities

- Streamlining of research and innovation funding instruments, **integrate FP, CIP, cohesion funds**
- Focus on the objectives of the Innovation Union – more **focus on societal challenges**
- Support to **whole chain of innovation and research** (from blue sky research to market uptake)
- Future Research and Innovation Programmes: simple access and strong involvement of **SMEs**
- European Forum on Forward Looking Activities

4. EIT as model for innovation governance in Europe



Innovation Union



2. Getting good ideas to market

- Focus on financing, market, movement of ideas, public procurement
- Results of publically funded research should be made more accessible
- Mentioning of the SBIR scheme

3. Maximising social and territorial cohesion

- Focus on spreading of benefits, social benefits
- Use and stronger focus of structural funds for R&D




Innovation Union



4. Innovation Partnerships

- **No new funding scheme**
Concept / approach / structure to integrate resources and activities of EU and MS
- **Aim:** Pooling efforts and expertise on research and innovation to achieve a critical mass
- Challenge driven – **grand challenges**
- Across the **whole research and innovation chain** (research, investment, demonstration, regulation standards, public procurement...)
- **Build on existing tools and actions** (joint programming, lead markets, procurement...)
- Integrate them into a **coherent policy framework**
- **EIPs identified so far:**
 - **Active and healthy Aging – Pilot Initiative**
 - Water Efficient Europe
 - Raw Materials
 - Smart cities
 - Agricultural productivity and sustainability
 - Smart mobility for European citizens and businesses

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Innovation Union



5. Leveraging our policies externally

Affects **International Cooperation** in R&D

- Revert Brain Drain
- Attract leading talent (research and innovation)
- Deepen international scientific cooperation – based on EU priorities, umbrella agreements with third countries
- Must go hand in hand with bringing results to market (IPR, standards, non-discriminatory public procurements..)
- Global solutions to societal challenges
- Global infrastructures

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6. Making it Happen

- Reforming research and innovation systems
- Measuring Progress

EIP Active and Healthy Aging



- ⇒ **Stakeholder Conference** on 26.11.2010 (DG INFSO, DG SANCO, DG Research)
- ⇒ **Open Consultation** until January 2011
ec.europa.eu/research/innovation.../consultation/consultation_report.pdf
- ⇒ On 9 march 2011 the adoption of **Council conclusions** on preparatory work for the pilot European Innovation Partnership "Active and Healthy Ageing".
- ⇒ **1st Steering Group Meeting** of the European Innovation Partnership on Active and Healthy Ageing – 2 May 2011
http://ec.europa.eu/research/innovation-union/index_en.cfm?section=active-healthy-ageing&pg=steering-group
- ⇒ In June 2011 **thematic workshops** in the context of the planned European Innovation Partnership "Active and Healthy Ageing" took place:
 - 15 June: "Independent living"
 - 20-21 June: "Prevention & early diagnosis"
 - 23-24 June: "Care & Cure"
 - 28th June: 'Mapping of ageing research' in the context of the EIP AHA
 - 30 June - Workshop on indicators for monitoring progress and outcomes of EIP.

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- EIP Active and Healthy aging goes **beyond Health research**
- Holistic focus on **well being** (social innovation, ICT solutions, design, service models, new markets.....)
- Involvement of DG SANCO, DG INFSO, DG Research
- Effect on FP7 Themes Health, ICT, SSH; JPND, JPI "more years better lives", AAL and Horizon 2020

Innovation Union Points of Discussion



- ⇒ **European Innovation Partnerships**
 - Who defines the Themes?
 - Governance („Lead Commissioners“)
 - Existing initiatives will be incorporated (JPI, JTI, PPP, etc. ?)
- ⇒ **Influence on Horizon 2020**
 - Separation of technologies from challenges?
 - Innovation as dominant aim
 - Stronger influence of other general directorates?
 - Relevance on Collaborative Research?
- ⇒ **International Dimension**
 - International cooperation no major issue in the Innovation Union

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HEALTH-2012



Taking into consideration the **Europe 2020 Strategy** and the flagship initiative **Innovation Union**

- Grand societal challenges
- More topics aiming at the generation of products, processes and services
- Projects should include pilot, demonstration and validation activities
- Exploitation issues need to be addressed
- Innovation driven >> Focus on SME
- Implementation of the Innovation Partnership „Active and healthy ageing“

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Features of HEALTH-2012



- ➔ **Strong Focus on SMEs, Innovation**
- ➔ **Stronger Focus on selected Areas**
 - Many areas /activities closed
- ➔ **Simplification:**
 - Only 2stage procedure, however 2 Calls (ERA-Net Topic excluded)
- ➔ **Broad topics - more bottom-up**
 - Often more than one project / topic
- ➔ **Flexibility concerning size of consortiums, project duration and budget (in INNOVATION-1)**
 - In some cases shorter duration for CPs <3 years
 - No need to go beyond min. number of partners

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New: Topics with maximum number of partners and maximum duration within Call INNOVATION-2

Features of HEALTH-2012



⇒ International Cooperation


- Only one SICA
- “programme-level cooperation” with Australia
- other application conditions than in Call 2011 (Brazil, India)
- Call INNOVATION2: participants from 3rd countries not allowed

⇒ Clinical Trials

- Regenerative Medicine, Aging, Diabetes and Rare Diseases

⇒ Cross-cutting Infectious Diseases (Area 2.3.0)

- 6 mio. CP and one ERA-Net

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Thematic Focus




⇒ Aging (Health Systems, Medical Technologies)

- many Topics complement the European Innovation Partnership
„Active and Healthy Aging“
- However: not all projects which contribute to this EIP have to deal
with elderly people (aging starts at birth)

⇒ Rare Diseases

- Topics are the contribution of the Commission to the „*International rare diseases research consortium*“ – IRDiRC – which is currently being established. So far involved: USA und EU-Com, participation of other funders is envisaged
- Preparatory conferences took place in October 2010 in Reykjavik and in April 2011 in Washington
http://ec.europa.eu/research/health/medical-research/rare-diseases/events-03_en.html
- Area 2.1: *Clinical utility of -omics for better diagnosis and treatment of rare diseases*: 3 Topics (2 CPs, 1 CSA)
- Area 2.4.4. 3 Topics on treatment of rare diseases

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Features of HEALTH-2012



2 Calls:

- FP7-HEALTH-2012-INNOVATION-1
- FP7-HEALTH-2012-INNOVATION-2 (3 Topics)

Special conditions for FP7-HEALTH-2012-INNOVATION-2

- 50% of EC contribution for SME or SME Joint Ventures
- Partners: 3-5 – upper limit
- Duration: Maximum 3 years
- No partners from third countries
- Participants including SME(s) need to be at least 51% owned by MS/AS individuals/business concern
- *Exploitation Plan* in stage 2
- „Impact“ more important (min. 4 of 5 points)
- Proposals are shorter
- Selection procedure accelerated

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INNOVATION-2 – SBIR scheme



- ➔ INNOVATION-2 is a pilot to establish an SBIR-like scheme under FP7 rules
- ➔ **Innovation Union: a SBIR-like scheme is recommended**
- ➔ **SBIR = Small Business Innovation Research** programme in the USA
- ➔ Administered by **different federal agencies** (who are obliged by law to devote 2.5 % of their external R & D budgets to funding innovative projects by SMEs)

SBIR's 3-Phase Structure

PHASE I

- Feasibility of idea, proof of concept
- \$150,000 (1 year)



PHASE II

- Full R&D, prototype
- \$1 million (2 years)
- Commercialization plan required



PHASE III

- Commercialization stage
- Funded by private capital or (non-SBIR) federal funds



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From R.S.Cooper
Office of Technology
U.S.Small buissnes Administration
[www.apec-smeic.org/_.../14%20USA.The%20Small%20Business%20Innovation%20Research\(SBIR\)_USA.pdf](http://www.apec-smeic.org/_.../14%20USA.The%20Small%20Business%20Innovation%20Research(SBIR)_USA.pdf)

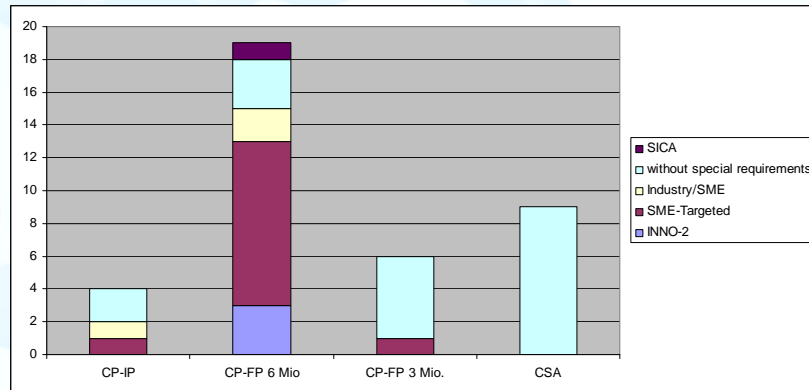
Features of HEALTH-2012



⇒ Innovation is important (SME Focus)

- about 50% of topics have special requirements concerning participation of SMEs / industry

Overview HEALTH-2012 - Topics / Funding scheme



Towards HEALTH-2013 (7th Call)



- ⇒ Roadmap → promised to be send to PC before summer break
- ⇒ Review and discussion of the roadmap → 1st PC Meeting (September 5th 2011)
- ⇒ more detailed discussion on the orientations of work programme 2013 → 2nd PC Meeting (November, 10th 2011)


Roadmap has not yet been sent to the delegations



Discussion on how NCPs deal with 2013



- In 2010 the Commission did not want to receive topic suggestions (for HEALTH2012) from the MS/AS
- Possibility for MS to provide „strategic input“ on a few pages
- Not all areas / activities have been open in the Calls 2012
- Input on this areas / activities already provided

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Discussion on how NCPs deal with 2013



- In 2010 Health-NCPs discussed how to collaborate with the PC and how to provide input for the work programme
HEALTH-NCP-NET-Networking-event in Brussels
- Several HEALTH-NCPs agreed to collect topics in their respective countries using a common template
- Will this be done in 2011?

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Towards Horizon 2020



- Green Paper adopted in February 2011
Proposed the concept of the Common Strategic Framework CSF to bring research and innovation closer together
- February 2011: Stakeholder consultation launched
- June, 10th 2011: Conference: Presentation of the outcome of the consultation
- June, 21st 2011: The name „Horizon 2020 - the Framework Programme for Research and Innovation“ is announced.
- June, 29th 2011: Presentation of the Multiannual Financial Framework
- 30th November 2011: Proposed date for the adoption by the EU-Commission for a proposal for Horizon 2020
- 2012/2013 Discussions and legislative decisions by Council and Parliament
- 2014 Start Horizon 2020



Horizon 2020



Horizon 2020 – The Framework Programme for research and innovation combines:

- The **7th Framework Programme (FP7)** for research technological development and demonstration
53 billion € 2007-2013
- The Innovation related part of the **Cometiveness and Innovation Framework Programme – CIP**
3.6 billion € 2007-2013
- The European Institute for Innovation and Technologie – EIT
309 mio. € 2007-2013

It will strengthen complementarities with the Structural Funds
86 billion € (2007-2013) allocated to R&D and innovation, entrepreneurship, ICT and human capital development



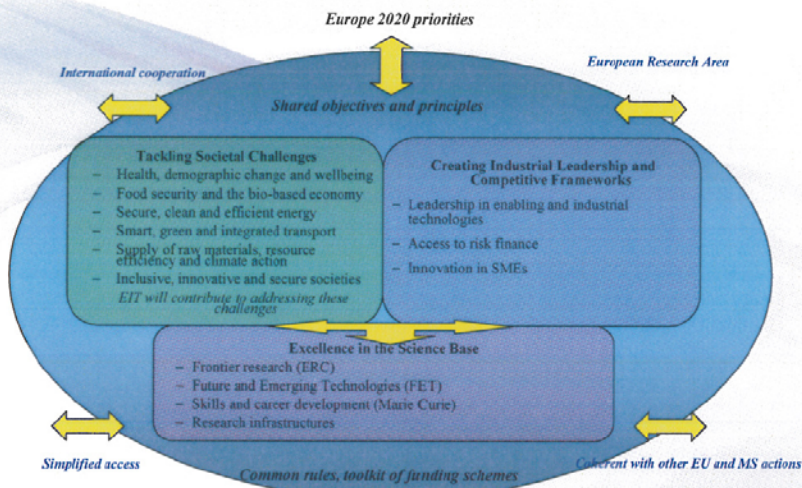
Multiannual Financial Framework Proposal for Horizon 2020



- Proposed amount for Horizon 2020: € 80 billion in constant 2011 prices (€ 90 billion in current prices) excluding ITER
- 46 % increase compared to current period



Horizon 2020 – Objectives and structure




EUROPEAN COMMISSION

EU - BUILDING AN INNOVATION UNION

Input relevant for „Health“ in Horizon 2020



- **Expert Panel Report - Assessment EU-funded Health research** (not yet published, publication presumably November 2011)
- **Thematic Workshop** on „The health, demographic change and wellbeing challenge“, July 6th-7th 2011 (report published)
- **Thematic workshop** on „The health, demographic change and wellbeing challenge“ with states representatives, July 26th 2011, results not yet published.


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Challenges related to “Health, demographic change and well being”



- Environment and health, nutrition and health
- Understanding human development and aging
- Mechanisms of disease and new taxonomies
- Detection and treatment
- Optimising healthcare and health systems
- ICT in health
- Assisted and independent living
- Preparedness and emerging epidemics
- Health infrastructures including info-structures
- SMEs and public private partnerships
- International activities

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http://ec.europa.eu/research/horizon2020/index_en.cfm



European Commission > Research & Innovation > Horizon 2020 > Home

Horizon 2020 - the Framework Programme for Research and Innovation

Welcome to the website of Horizon 2020 - the future Framework Programme for Research and Innovation.

The proposed Framework Programme for Research and Innovation, which will be introduced post-2013, will build upon the successes of the current Framework Programme for Research (FP7), the Competitiveness and Innovation Framework Programme (CIP) and the European Institute of Innovation and Technology (EIT).

The ultimate aim is to maximise the contribution of EU funded research and innovation to sustainable growth and jobs and to tackling the grand challenges facing Europe – for example climate change, energy and food security, health and our ageing population.

This will be achieved by creating a coherent set of instruments, along the whole "innovation chain" starting from basic research, culminating in bringing innovative products and services to market; and also to support non-technological innovation, for example in design and marketing.

Consultation: Green Paper on a Common Strategic Framework for future EU Research and Innovation Funding

On 10 June 2011 the outcome of the consultation on future EU research and innovation funding was discussed at a major conference in Brussels. The consultation was based on a European Commission **Green Paper**, published on 9 February 2011, with a deadline for contributions of 20 May 2011. The Green Paper proposed major changes to EU research and innovation funding to make participation easier, increase scientific and economic impact and provide better value for money.

The outcomes of the consultation are available through this website:

- o A **summary analysis** (562 KB) of the consultation, based on written responses and around 1300 online questionnaires that were submitted by interested individuals, companies, research institutes and citizens
- o The **written responses** provided by over 750 associations, large organisations and others that provide in-depth views which are published on this website, organised by country
- o An **interactive blog** where various questions and topics from the Green Paper were posted for open comment, debate and ideas
- o Links to **events**, in particular the major event on 10 June to bring together and discuss the main outcomes

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Thematic Workshops

http://ec.europa.eu/research/horizon2020/index_en.cfm?pg=workshops

- [Research infrastructures](#)
- [Access to risk finance](#)
- [The health, demographic change and wellbeing challenge](#)
- [Innovation in Small and Medium Enterprises](#)
- [Towards more inclusive, innovative and secure societies challenge](#)
- [Secure, clean and efficient energy challenge](#)
- [Smart, green and integrated transport challenge](#)
- [Leadership in enabling and industrial technologies](#)
- [Resource efficiency and climate action challenge](#)

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Key enabling technologies



- Photonics
- Manufacturing
- Nanotechnologies
- Biotechnology
- Advanced Materials
- Micro/Nanoelectronics

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Points of discussion



- How will the structure of Horizon 2020 be broken down and reflected by administrative structures?
- Implementation? (JTIs, PPPs, Article 185, ERA-NETs, Collaborative Projects?)
- Who will be in the lead for „Health, demographic change and well being“? Involvement of DG Research, DG Info, DG Sanco?
- Who will be responsible for agenda setting (Commission – MS)?
- How can interaction between the different parts be achieved? (e.g. societal challenges and key enabling technologies)
- Integration of training, bottom up approaches SME measures in the challenges?
- Governance Structures?
- Synergies with structural funds?

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Thank you for your attention

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