

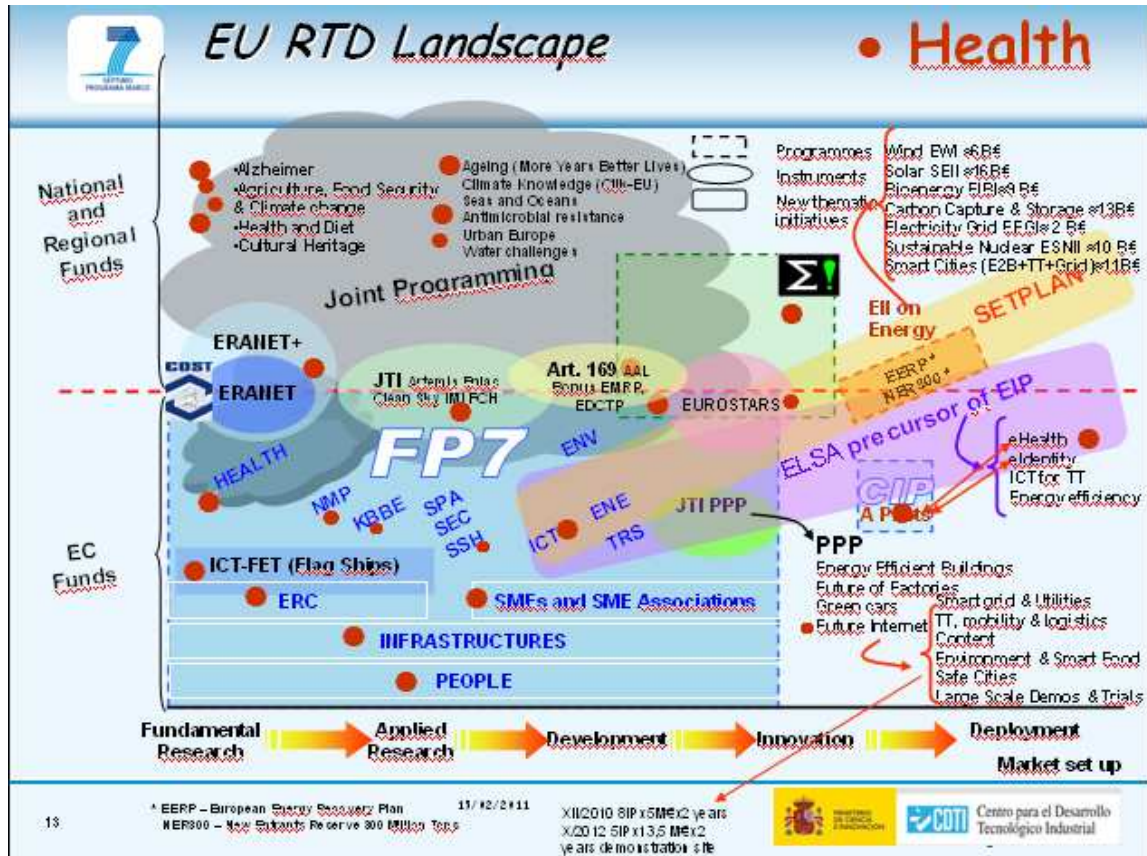
ESTRATEGIA EN SALUD

Algunas iniciativas europeas nuevas o en implementación

Versión 01/Diciembre/2011

CONTEXTO

El contexto europeo en investigación e innovación está cambiando, sumando a las iniciativas existentes (ya de por sí variadas) algunas nuevas que pretenden estructurar este paisaje.



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POLÍTICA EUROPEA

Estas iniciativas están en el contexto de la estrategia europea vigente (Europe 2020), su iniciativa insignia por la innovación (Innovation Union) y la iniciativa clave para la creación de asociaciones europeas para la innovación (European Innovation Partnerships).

Europe 2020

Europe 2020 builds on lessons learned from the earlier strategy (Lisbon Strategy), recognising its strengths (the right goals of growth and job creation, 18m new jobs created since 2000) but addressing its weaknesses (poor implementation, with big differences between EU countries in the speed and depth of reform).

The new strategy also reflects changes in the EU's situation since 2000 – in particular the immediate need to recover from the economic crisis.

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=COM:2010:2020:FIN:EN:PDF>

<http://ec.europa.eu/europe2020>

Innovation Union

The Innovation Union is one of the seven flagship initiatives of the Europe 2020 strategy for a smart, sustainable and inclusive economy. The Innovation Union plan contains over thirty actions points, with the aim to do three things:

- make Europe into a world-class science performer;
 - remove obstacles to innovation – like expensive patenting, market fragmentation, slow standard-setting and skills shortages – which currently prevent ideas getting quickly to market; and
 - revolutionize the way public and private sectors work together, notably through Innovation Partnerships between the European institutions, national and regional authorities and business.
- http://ec.europa.eu/research/innovation-union/index_en.cfm

EIPs - European Innovation Partnerships (Asociaciones Europeas para la Innovación)

EIP provides a framework that aims to break down “silo’s”, bringing together all relevant stakeholders across policies, across sectors and across borders to speed up innovations that address a major societal challenge, and gain competitive advantages for growth and job creation in Europe. The pilot Partnership will bring together key stakeholders from the demand and supply side; all actors in the innovation cycle, from research to translation (adaptation), deployment and final users, along with those engaged in standardisation and regulation. The pilot partnership provides these actors with a forum in which they can, united around the common goal, identify and overcome potential innovations barriers.

http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=key

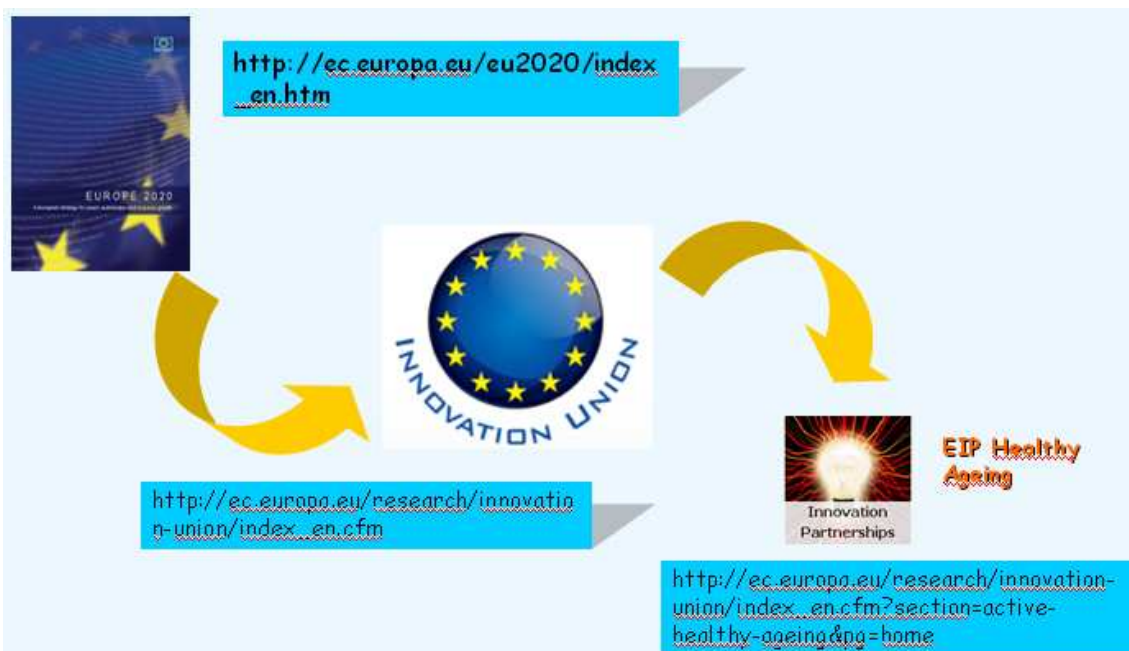
AHA EIP - European Innovation Partnership on Active and Healthy Ageing

The pilot European Innovation Partnership on Active and Healthy Ageing will pursue a triple win for Europe:

1. enabling EU citizens to lead healthy, active and independent lives while ageing;
2. improving the sustainability and efficiency of social and health care systems;
3. boosting and improving the competitiveness of the markets for innovative products and services, responding to the ageing challenge at both EU and global level, thus creating new opportunities for businesses.

This should be realised in the three policy areas of prevention and health promotion, integrated care, and independent living of elderly people. The overarching target of this pilot partnership will be to increase the average healthy lifespan in the European Union by two years by 2020.

http://ec.europa.eu/research/innovation-union/index_en.cfm?section=active-healthy-ageing&pg=home



INICIATIVAS EUROPEAS

A continuación se indican algunas de las iniciativas europeas que actualmente se están organizando/existen en el ámbito europeo en relación con la investigación y la innovación. No se trata de una lista exhaustiva ni de una guía formal, se trata de una breve descripción sobre algunas de las iniciativas con el objeto de familiarizarles con las mismas, facilitarles una visión más amplia del entorno europeo en el ámbito de la salud, así como facilitarles el posicionamiento de cara a estas iniciativas, en el caso de ser éste su interés.

El conocer el contexto les puede ayudar en la preparación de sus propuestas, dado que las convocatorias y la financiación no dejan de ser un instrumento para conseguir los objetivos definidos en la estrategia europea vigente.

Seguidamente se describen algunas de ellas (en inglés), se incluye un ejemplo en el ámbito de la salud y se indica un enlace para obtener más información al respecto. Los únicos datos fiables están en la fuente.

JTIs - Joint Technology Initiatives (Iniciativas Tecnológicas Conjuntas)

Defined as a means to support trans-national cooperation in key areas where research and technological development can contribute to European competitiveness and quality of life. JTIs are Joint Undertakings set up under Article 187 TFEU (ex Article 171 TEC) as a new way of realising public-private partnerships at European level in the field of industrial research. The JTIs mobilises public and private investments as well as substantial research resources to implement important elements of their Strategic Research Agendas.

http://cordis.europa.eu/fp7/jtis/home_en.html

IMI - Innovative Medicines Initiative

Is Europe's largest public-private initiative aiming to speed up the development of better and safer medicines for patients. IMI supports collaborative research projects and builds networks of industrial and academic experts in order to boost pharmaceutical innovation in Europe. IMI is a joint undertaking between the European Union and the pharmaceutical industry association EFPIA.

www.imi.europa.eu

JPIs – Joint Programming Initiatives (Iniciativas de Programación Conjunta)

Joint Programming is a voluntary partnership between Member States (and associated countries) and aims to tackle major but common European societal challenges by combining national research programmes and thereby making better use of Europe's limited public R&D resources.

http://ec.europa.eu/research/era/areas/programming/joint_programming_en.htm

JPND - Joint Programme in Neurodegenerative Diseases

The ultimate goal of the Joint Programming in Neurodegenerative Disease project (JPND) is to find cures for neurodegenerative diseases and to enable early diagnosis for early targeted treatments. However, it is not possible to give definitive predictions on how long this might take to happen.

In the interim, JPND will identify common research goals that would benefit from joint action between countries in order to accelerate progress on solutions that can alleviate the symptoms, and lessen the social and economic impact for patients, families and health care systems.

www.neurodegenerationresearch.eu

A Healthy diet for a Healthy life

Joint programming of research in the field of nutrition, food and health will provide for coordination of research on the impact of diet and lifestyles on health, contribute significantly to the construction of a fully operational European Research Area on prevention of diet-related diseases and strengthening leadership and competitiveness on the research activities in this field.

www.healthydietforhealthylife.eu

More Years, Better Lives - The Potential and Challenges of Demographic Change

The Joint Programming Initiative (JPI) "More Years, Better Lives - The Potential and Challenges of Demographic Change" seeks to enhance coordination and collaboration between European and national research programmes related to demographic change. Areas

affected by demographic change cover a wide range of research fields and policy topics ranging from health to social welfare, education & learning, work & productivity to housing, urban & rural development and mobility.

www.jp-demographic.eu

Antimicrobial resistance

En preparación, prevista su aprobación a finales de 2011

FET Flagship Initiatives

FET FI are ambitious large-scale, science-driven, visionary research initiatives that aim to achieve a scientific breakthrough. The scientific advance should provide a strong and broad basis for future technological innovation and economic exploitation in a variety of areas, as well as novel benefits for society. It is envisaged the launch of at least two (out of six) of these initiatives by 2013.

http://cordis.europa.eu/fp7/ict/programme/fet/flagship/home_en.html

HBP-PS - The Human Brain Project - Preparatory Study

Understanding the way the human brain works could be key to enabling a whole range of brain related or inspired developments in Information and Communication Technologies, as well as having transformational implications for neuroscience and medicine. The long term goal of the Human Brain Project is to build the informatics, modelling, and supercomputing technologies that are needed to simulate and understand the human brain.

www.humanbrainproject.eu

ITFoM - The IT Future of Medicine - Preparatory Study

ITFoM proposes a data-driven, individualised medicine of the future, based on the molecular/physiological/anatomical data from individual patients. ITFoM shall make general models of human pathways, tissues, diseases and ultimately of the human as a whole.

www.itfom.eu

Knowledge and Innovation Communities (KICs)

A KIC is a highly integrated, creative and excellence-driven partnership which brings together the fields of education, technology, research, business and entrepreneurship, in order to produce new innovations and new innovation models that inspire others to emulate it. They are to become key drivers of sustainable economic growth and competitiveness across Europe through world-leading innovation. The KICs will be driving effective “translation” between partners in ideas, technology, culture, and business models, and will create new business for existing industry and for new endeavours.

The European Institute of Innovation and Technology (EIT) designated its three first KICs in December 2009: Climate KIC (focus on Climate Change), EIT ICT Labs (focus on Information and Communication Technologies) and KIC InnoEnergy (Sustainable Energy).

<http://eit.europa.eu>

<http://eit.europa.eu/kics1/knowledge-and-innovation-communities/overview.html>

New envisaged KICs: **Healthy Living**, Raw Materials, Food for the Future (**to be created in 2014**) and Urban Mobility, Added Value Manufacturing, and Smart Secure Societies (to be set up in 2018).

<http://eit.europa.eu/press/news-archive/single-view/article/eit-under-horizon-2020.html>

HORIZON 2020

Horizon 2020 is the financial instrument implementing the Innovation Union, a Europe 2020 flagship initiative aimed at securing Europe's global competitiveness. Running from 2014 to 2020 with an €80 billion proposed budget, the EU's new programme for research and innovation is part of the drive to create new growth and jobs in Europe.

Horizon 2020 provides major simplification through a single set of rules. It will combine all research and innovation funding currently provided through the Framework Programmes for Research and Technical Development, the innovation related activities of the Competitiveness and Innovation Framework Programme (CIP) and the European Institute of Innovation and Technology (EIT).

<http://ec.europa.eu/research/horizon2020>

The adoption of Horizon 2020 will:

- Strengthen the EU's position in science with a dedicated budget of € 24 598 million. This will provide a boost to top-level research in Europe, including an increase in funding of 77% for the very successful European Research Council (ERC). **Excellence Science**
- Strengthen industrial leadership in innovation € 17 938 million. This includes major investment in key technologies, greater access to capital and support for SMEs. **Industrial Leadership**
- Provide € 31 748 million to help address major concerns shared by all Europeans such as climate change, developing sustainable transport and mobility, making renewable energy more affordable, ensuring food safety and security, or coping with the challenge of an ageing population. **Societal Challenges**

| Horizon 2020 – Structure & Budget | | EUR million Constant 2011 prices |
|---|--|-------------------------------------|
| I. Excellence Science | | 24.598 |
| 1. The European Research Council (ERC) | | 13.268 |
| 2. Future and Emerging Technologies (FET) | | 3.100 |
| 3. Marie Curie actions on skills, training and career development | | *5.752 |
| 4. European research infrastructures (including eInfrastructures) | | 2.478 |
| II. Industrial Leadership | | 17.938 |
| 1. Leadership in enabling and industrial technologies | | 13.781 (-254) |
| 1. ICT (~€ 20% for photonics & micro&nano electronics) | | 7.939 |
| 2. Nanotech, materials and manufacturing and processing | | 3.797 |
| 3. Biotechnology | | 509 |
| 4. Space | | 1536 |
| 2. Access to risk finance | | 3.538 |
| 3. Innovation in SMEs | | 619 |
| III. Societal Challenges | | 31.748 |
| 1. Health, demographic change and wellbeing | | 8.033 (-254) |
| 2. Food security, sustainable agriculture, marine and maritime research and the bio-economy | | 4.152 (-131) |
| 3. Secure, clean and efficient energy | | 5.782 (-183) |
| 4. Smart, green and integrated transport | | 6.802 (-215) |
| 5. Climate action, resource efficiency and raw materials | | 3.160 (-100) |
| 6. Inclusive, innovative and secure societies | | 3.819 (-121) |
| European Institute of Innovation and Technology (EIT) | | 1.360 (+1.440) |
| Joint Research Centre (non nuclear) | | 1.962 |
| | | 77.606 |

* Budget mid-term review

Adapted from http://ec.europa.eu/research/horizon2020/pdf/press/horizon_2020_budget_constant_2011.pdf#view=fit&

SPECIFIC PROGRAMME IMPLEMENTING HORIZON 2020

[http://ec.europa.eu/research/horizon2020/pdf/proposals/com\(2011\)_811_final.pdf](http://ec.europa.eu/research/horizon2020/pdf/proposals/com(2011)_811_final.pdf)

Some health-related research & innovation opportunities:

Part III: Societal Challenges

1. Health, demographic change and wellbeing

The specific objective is to improve the lifelong health and wellbeing of all. Lifelong health and wellbeing for all, high-quality and economically sustainable health and care systems, and opportunities for new jobs and growth are the aims of support to research and innovation in response to this challenge and will make a major contribution to Europe 2020.

Specific activities:

- 1.1 Understanding the determinants of health, improving health promotion and disease prevention
- 1.2 Developing effective screening programmes and improving the assessment of disease susceptibility
- 1.3 Improving surveillance and preparedness
- 1.4 Understanding disease
- 1.5 Developing better preventive vaccines
- 1.6 Improving diagnosis
- 1.7 Using in-silico medicine for improving disease management and prediction
- 1.8 Treating disease
- 1.9 Transferring knowledge to clinical practice and scalable innovation actions
- 1.10 Better use of health data
- 1.11 Improving scientific tools and methods to support policy making and regulatory needs
- 1.12 Active ageing, independent and assisted living
- 1.13 Individual empowerment for self-management of health
- 1.14 Promoting integrated care
- 1.15 Optimising the effectiveness of healthcare systems and reducing inequalities by evidence based decision making and dissemination of best practice, and innovative technologies and approaches

2. Food security, sustainable agriculture, marine and maritime research and the bio-economy

The specific objective is to secure sufficient supplies of safe and high quality food and other bio-based products, by developing productive and resource-efficient primary production systems, fostering related ecosystem services, along side competitive and low carbon supply chains. This will accelerate the transition to a sustainable European bioeconomy.

Specific activities:

- 2.1. Sustainable agriculture and forestry
- 2.2. Sustainable and competitive agri-food sector for a safe and healthy diet
 - 2.2.1. Informed consumer choices
 - 2.2.2. Healthy and safe foods and diets for all**
 - 2.2.3. A sustainable and competitive agri-food industry
- 2.3. Unlocking the potential of aquatic living resources
- 2.4. Sustainable and competitive bio-based industries

Part II: Industrial Leadership

1. Leadership in enabling and industrial technologies

Possible applications in the Health sector:

- 1.1 Information and Communication Technologies
- 1.2 Nanotechnologies
- 1.3 Advanced Materials
- 1.4 Biotechnology**

Other

Other areas are open to all Research & Innovation fields, such as: ERC, Marie Curie, FET, Infrastructures, Risk finance, Innovation in SMEs and EIT. The activities indicated previously have already identified areas for research in the health & health related field.