EU - BUILDING AN INNOVATION UNION

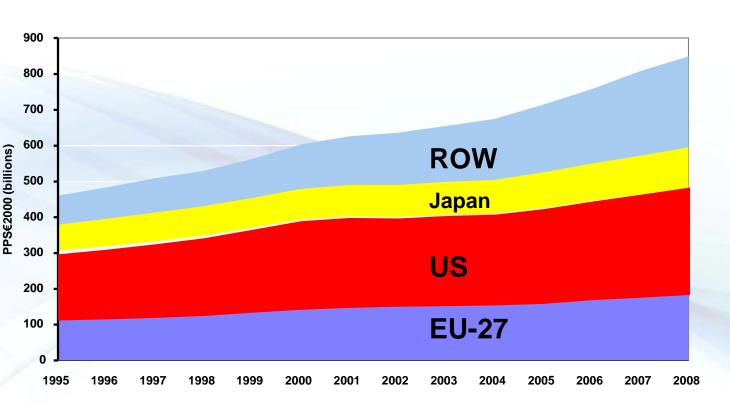
Presentation to CPU/CLORA

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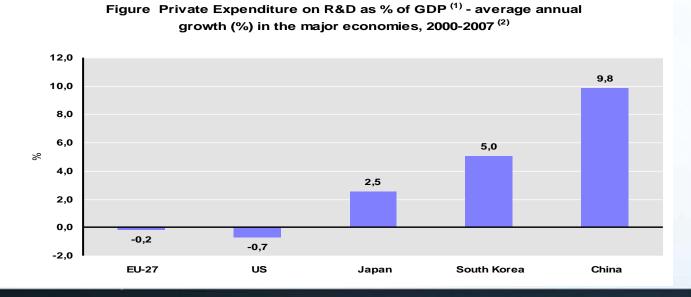
Globalisation of knowledge

Declining EU share of knowledge production

Evolution of World R&D expenditure in real terms, PPS€ at 2000 prices and exchange rates, 1995-2008

Stagnating business R&D

Average annual growth as % of GDP, EU-27, US, Japan, South Korea & China, 2000-2007





Economic and financial crisis

EU lost six million jobs, 1000 Bn € annual GDP due to crisis

- → Invest in future growth
 EU target of 3% of GDP for R&D in 2020 could create a net 3.7 million jobs and close to 800 Bn € annual GDP by 2025
- → Make the most of available resources through leverage effects, integration and cooperation



Societal challenges

- Climate change
- Health and ageing
- Use of natural resources
- Energy security
- Clean transport
- Land use
- •

- Powerful drivers of change in economy and society
- Major global market opportunities
- Requiring EU-scale approaches
- From research to market

New needs → new ideas → new markets

RECOVERING FROM THE CRISIS...

EUROPE 2020: A EU strategy for smart, sustainable and inclusive growth

3 priorities:

- Growth based on knowledge and innovation
- Innovation
- Education
- Digital society
- An inclusive high-employment society
- Employment
- Skills
- Fighting poverty
- Green growth: a competitive and sustainable economy
- Combating climate change
- Clean and efficient energy
- Competitiveness





Why Innovation Union?

A cornerstone of **Europe 2020** strategy

Three aspects:

- Globalisation of knowledge production and innovation capacities
- Impact of the crisis on public and private finance, survival of innovative SMEs
- Major challenges to address with reduced means
- → Innovation emergency!



What is Innovation Union?

Strategic approach

- Partnership with Member States
- Whole chain of innovtion: from blue sky to market

Tackling weaknesses

- Under-investment
- Fragmentation
- Framework conditions

Building on strengths

- Focus on societal challenges
- Broad concept of innovation
- Involving all actors
- → A distinctive European approach to innovation



Key measures of Innovation Union

- 1. Strengthening the knowledge base and reducing fragmentation
- 2. Getting good ideas to market
- 3. Maximising social and territorial cohesion
- 4. European Innovation Partnerships
- 5. International cooperation



Strengthening the knowledge base

Knowledge base

Good ideas to market

Cohesion

Innovation Partnerships

International cooperation

Education and skills

- Europe needs at least one million more researchers
- Universities need reform and closer links with business to train top talents for innovation jobs
- Independent ranking system to benchmark universities (2011)

European research area (ERA)

- Fragmentation and overlaps between national R & I systems
- Huge complexity of support system with myriad of funding schemes with different rules and timetables
- ERA framework (2012) to remove cross-border obstacles by 2014
- Including coherence of overall support system

EU financing instruments

- Too many instruments pursuing different objectives
- Complexity of access, particularly for SMEs
- Focus, streamlining and radical simplification of funding schemes by 2014



Simplification

Knowledge base

Good ideas to market

Cohesion

Innovation Partnerships

- Streamlining proposal and grant management under the existing rules
 - User support, guidance, transparency, IT tools and processes
 - Optimising the structure and timing of calls for proposals
 - Adapting sizes of consortia
 - More extended use of prizes
- Adapting the rules under the current costbased system
 - Broader acceptance of usual accounting practices
 - Average personnel costs
 - Limiting the variety of rules
 - Interest on pre-financing
 - More lump sum elements in the current cost-based approach
 - Accelerating project selection
- Moving towards result-based instead of cost-based funding

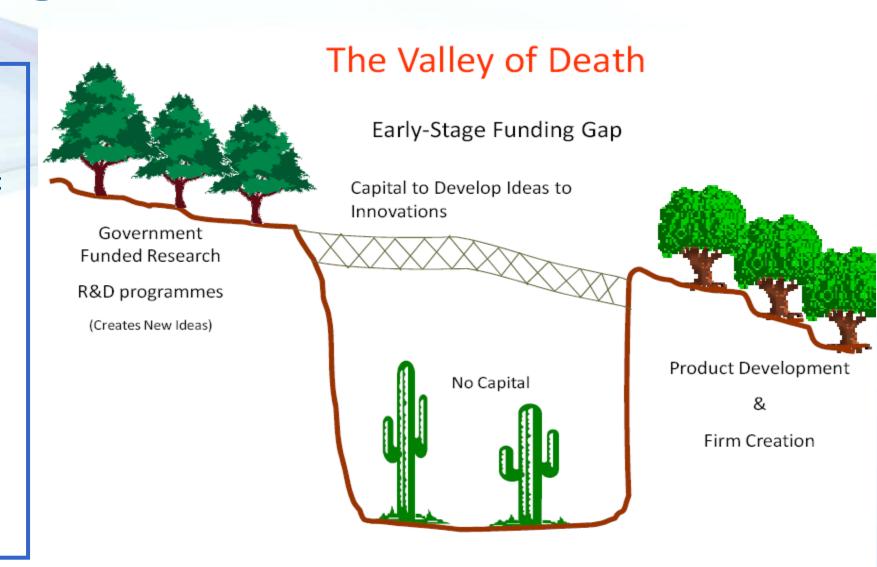


Knowledge base

Good ideas to market

Cohesion

Innovation Partnerships





Knowledge base

Good ideas to market

Cohesion

Innovation Partnerships

International cooperation

Access to finance

- Few European SMEs grow into major companies
- Lack of finance is a major cause
- Crisis made situation worse
- New generation of financial instruments with EIB (2014)
 - high leverage (15+)
 - addressing market gaps from venture capital to major innovation projects.



Knowledge base

Good ideas to market

Cohesion

Innovation Partnerships

International cooperation

Single innovation market

- Lack of **EU Patent**: Council called to agree by end 2010
- Slow standard setting
- Public procurement (17% of GDP) not geared to innovative products and services
- Reform standardisation system (2011)
- Support procurers to set budgets for innovation (2011)
 Target at least 10 Bn €



Knowledge base

Good ideas to market

Cohesion

Innovation Partnerships

International cooperation

Openness and creative potential

- Growing importance of open innovation
- Dormant knowledge and intellectual property
- Open access to become default principle for publications from EU Research Framework Programme
- Develop **European knowledge market** (2011) based on national experiences (e.g. patent pools)



Maximising social and territorial cohesion

Knowledge base

Good ideas to market

Cohesion

Innovation Partnerships

- Avoid an « innovation divide »
- Make best use of 86 Bn € Structural Funds earmarked for research and innovation until 2013
- Support Member States and regions to use Structural Funds with smart specialisation strategies (2011)
- Social innovation pilot programme (2011)

European Innovation Partnerships

Knowledge base

Good ideas to market

Cohesion

Innovation Partnerships

- Major societal challenges require joint responses across policies and across EU
- Numerous sub-critical, uncoordinated initiatives:
 - between EU / Member States / Regions
 - R&D / Market-side actions (public procurement, standards, regulation)



European Innovation Partnerships

Knowledge base

Good ideas to market

Cohesion

Innovation Partnerships

- European Innovation Partnerships are Frameworks, bringing together main actors and actions:
 - At EU and national levels
 - From research to market
 - Around common objectives and targets

European Innovation Partnerships

Knowledge base

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International cooperation

2010

- Council, Parliament to discuss concept
- Member States and stakeholders invited to join
- Preparation of pilot on active and healthy ageing (Aim: two additional healthy life years by 2020)

2011

- Others to follow pending discussions and building on experience with pilot
- Topics considered: smart cities, mobility, water, raw materials, agriculture



International cooperation

Knowledge base

Good ideas to market

Cohesion

Innovation Partnerships

- Europe's openness is not always reciprocated
- Global challenges require a global response
- Joint EU / national priorities for cooperation with third countries (2012)
- Agree international infrastructures with world partners (2012)



Making it happen!

A priority for EU Institutions

European Council dedicated meeting in December

Accelerating national reforms

Self assessments of R&I systems under Europe 2020

Tracking progress

- EU target of 3% of GDP on R&D and national targets
- New indicator on fast-growing innovative firms
- New Scoreboard of 25 indicators



Get involved

Innovation Union website

http://ec.europa.eu/research/innovation-union/

Innovation Union Facebook page

http://www.facebook.com/Innovation.Union

Innovation unlimited blog

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Thank you

