

Joint Programming Initiatives

"Joint Programming" is to pool national research efforts in order to make better use of Europe's precious public R&D resources and to tackle common European challenges more effectively in a few key areas.

- Alzheimer and other Neurodegenerative Diseases (JPND)
- Agriculture, Food Security and Climate Change (FACCE)
- A Healthy Diet for a Healthy Life
- Cultural Heritage and Global Change: A New Challenge for Europe
- Urban Europe - Global Urban Challenges, Joint European Solutions
- Connecting Climate Knowledge for Europe (CliK'EU)
- More Years, Better Lives - The Potential and Challenges of Demographic Change
- Antimicrobial Resistance- The Microbial Challenge - An Emerging Threat to Human Health
- Water Challenges for a Changing World
- Healthy and Productive Seas and Oceans

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European Innovation Partnerships

EIPs consist of activities in which government intervention is clearly justified and where combining EU, national and regional efforts in R&D and demand-side measures will achieve the target quicker and more efficiently

- Active and Healthy Ageing
- Water
- Agricultural productivity and sustainability
- Raw materials
- Smart cities and communities

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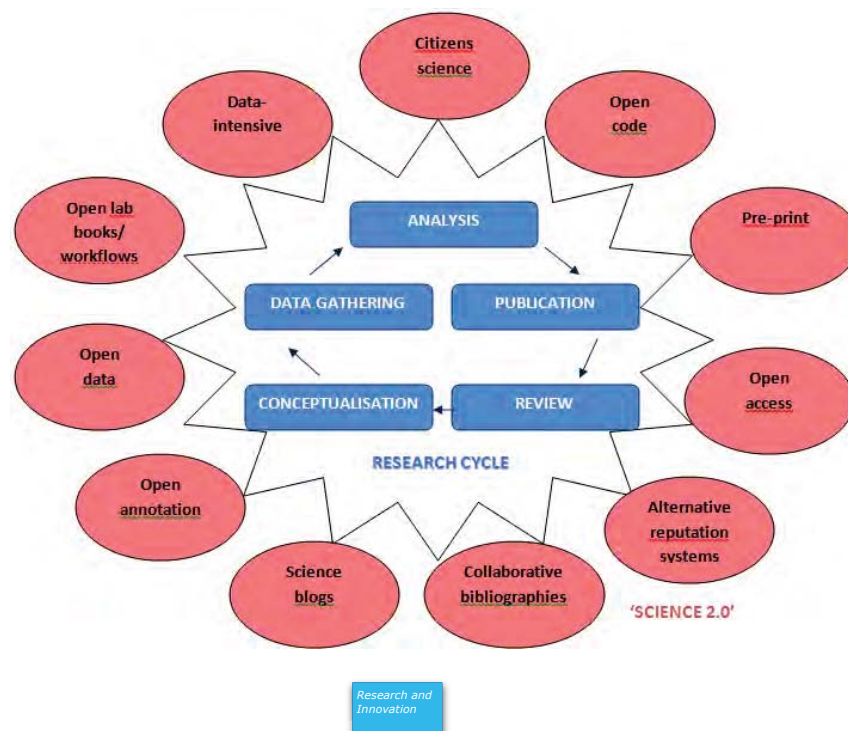
Strong participation by SMEs

- **Integrated approach** - around 20% of the total budget for societal challenges and LEITs to go to SMEs
- **Simplification** of particular benefit to SMEs (e.g. single entry point)
- A **new SME instrument** will be used across all societal challenges as well as for the LEITs
- A dedicated activity for research-intensive SMEs in **'Innovation in SMEs'**
- **'Access to risk finance'** will have a strong SME focus (debt and equity facility)

Special attention

- **Ethics and research**
 - All activities funded under Horizon 2020 shall comply with ethical principles and relevant national legislation.
 - The ethical principles include the need to avoid breaches of research integrity, in particular any form of plagiarism, data fabrication or falsification.
- **Sharing results while protecting IPR**
 - Each participant must disseminate the results it produces (Exceptions only apply to protect IPR, security or legitimate interests)
 - When publishing results in scientific publications, open access to the publication must be ensured.
 - Pilot action on open access to data produced
 - IPR belongs to the team that generates the results.

"Science 2.0"



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International cooperation

- **International cooperation is crucial** to address many Horizon 2020 objectives
- **Principle of general openness:** the programme will remain to be the most open funding programme in the world
- Horizon 2020 shall be open to the **association** of: acceding countries, candidate countries and potential candidates and selected international partner countries that fulfil the relevant criteria (capacity, track record, close economic and geographical links to the Union, etc.)
- Targeted actions to be implemented taking **a strategic approach to international cooperation** (dedicated measures in the 'Inclusive, innovative and secure societies' challenge)

HORIZON 2020: Open to the world GENERAL OPENNESS



Horizon 2020 is open to participation of researchers from anywhere in the **world**, to:

- ✓ Extend the frontiers of scientific knowledge
- ✓ Tackle challenges that affect us all
- ✓ Make industries more competitive

Some Conclusions for Policy Makers

- Listen
- Learn
- Experiment
- Improve continuously - Kaizen 改善 !

...towards a research and innovation partnership



Research and
Innovation



HORIZON 2020

Open to the world!

Thank You!