



LAUNCH OF THE ERAB STRATEGIC VIEW

Brussels, 6 October 2009

European Research Area Board (ERAB)

ERA 2030:

Preparing Europe for a New Renaissance

A Strategic View of the European Research Area
2009

New Renaissance

- In order to cope with the challenges ahead we need a ‘New Renaissance’.
- The ‘New Renaissance’, is a paradigm shift in how we think, live and interact, as well as a paradigm shift regarding the role and place of science in society.
- The new renaissance calls for our rationality and creativity - the fundamentals of science - to face the challenges and to help “inventing” a new way of living.
- The ‘New Renaissance’ needs a thriving and open ERA by 2030.



ERAB's view on the future of ERA

- **Our ambition:** ERA is instrumental for realising a new Renaissance in Europe as a call to face the challenges ahead and to help develop a new way of living.
- **Our strategy:** Six policy themes to underpin the development of ERA.
- **Our benchmarks:** 30 milestones to measure progress on the lay out of ERA.

Six strategic approaches for ERA

1. A united ERA across Europe
2. An ERA driven by societal needs to address the 'Grand Challenges'
3. An ERA based on a shared responsibility between science, policy and society
4. An ERA of open innovation between all public and private stakeholders
5. An ERA to deliver excellence
6. An ERA of cohesion across the continent

The ERA is necessary

Action required by 2030 on 6 fundamental themes

The European Research Area comprises many people and institutions – but unless they work together, in a borderless marketplace for talents and ideas, they will be ineffectual.

We are concerned by the fractured state of the ERA today: still too much driven by inward-looking national priorities, too much centralism and sub-optimal institutional and legal frameworks. In view of the challenges our planet and Europe face, we must act, and act now. Otherwise, Europe will not only become marginalized in a global market, but will fail to contribute to solving our greatest challenges. As a result, bold leadership along six policy themes is needed to achieve a fully functioning ERA by 2030:

1. A united ERA to permit ideas and people to move freely across a dynamic and open society.
2. An ERA driven by societal needs to address the 'Grand Challenges', such as climate change, energy supply, water resources, ageing societies, healthcare and sustainable prosperity for all.
3. An ERA based on a shared responsibility between science, policy and society, where public policy is based on evidence and underpinned by a 'new social contract' between science and society that emphasizes responsibility for action as well as freedom of thought.
4. An ERA of open innovation between all public and private stakeholders so as to strengthen our research base and our economy.
5. An ERA to deliver excellence where risk-taking in research, regardless of its public or private origin, will be the guiding principle for the ERA policy.
6. An ERA of cohesion across the continent to allow all European research actors to take part in the knowledge-based society.

A united ERA to permit ideas and people to move freely across a dynamic, open society

The ERA Milestones

We will know the ERA is a united market for research in 2030 when we see:

- The EU's share of ERA-wide public, non-military research funding doubles to 10%.
- A significant increase in the coordination of scientific research grant programmes across the ERA, to at least 10% of funding from a very low base today.
- Mobility triples, with up to 20% of EU doctoral candidates working outside their home country.
- The fiscal regime for R&D and innovation incentives is optimized across the EU.

An ERA driven by societal needs to address the 'Grand Challenges'

The ERA Milestones

We will know the ERA is driven by societal problems in 2030 when we see:

- A third of public, non-military research is geared to grand societal challenges, with a multi-disciplinary approach.
- 30% of all scientists, including humanities and social sciences, are trained in research fields relevant to the Grand Challenges.
- Multi-disciplinary academic training is generalized to educate our research community into the complexity of the Grand Challenges, without diminishing the importance of discipline-based expertise.
- The tools of 'e-science' are deployed throughout the ERA, permitting international collaboration so that all researchers will see themselves as part of the global research system.

An ERA with shared responsibilities for science, policy and society

The ERA Milestones

We will know the ERA is a shared responsibility in 2030 when we see:

- The EU has a fully functioning, independent Chief Scientific Advisor, supporting its decision-making with the best available evidence, horizon-scanning and future scenario planning.
- A more educated citizenry is trained in science and technology issues to be able to participate in policy debate.
- All outputs of public, non-military funded research will be available via 'open access' to all concerned and interested.
- Half of all scientists and research policy makers, across all disciplines and at all levels of the science system, are women.
- The EU spends up to three times as much as in 2005 on its higher education, or 3.3 % of GDP.
- A universal code of scientific ethics is adopted by the whole European research community, enunciating social responsibilities as well as intellectual freedoms.

An ERA of open innovation between all public and private stakeholders

The ERA Milestones

We will know the ERA is a common market and thriving place for open innovation in 2030 when we see:

- A pan-European 'Open Innovation' charter is signed by all major stakeholders.
- A pan-European label, 'Open Knowledge Institution', for higher education and research acts as a gold standard for excellence in innovation in the ERA.
- Overall R&D funding rises to 5% of GDP, of which industrial R&D accounts for 2/3.
- 2% of public procurement ERA-wide is earmarked for innovative and pre-commercial technologies, and is open to European-wide competition.
- Mobility of researchers between the public and private sector is high, and industrial funding of academic research accounts for 1/3 of the overall research budget.
- Risk capital available for early-stage technology development triples, to 0.15% of GDP.

An ERA of excellence where risk-taking will be the guiding principle for ERA research policies.

ERA Milestones

We will know the ERA is a place of excellence in 2030 when we see:

- 50% of EC research funding is going to frontier, high-risk research and development.
- Europe increases its share of top-ranked universities up to 40% of the top-20 and top-100 rankings and increases its most-cited research world wide by a third.
- Funding for public, non-military research is increasingly concentrated in research-intensive institutions.
- At least 50 of our innovation clusters, out of about 2,000 clusters large and small today, are world leaders in scale and quality.
- The governance system for European research funding will be based on a set of arms-length agencies, as part of an 'ERA of Agencies'.

An ERA of cohesion across the continent

The ERA Milestones

We will know the ERA is cohesive in 2030 when we see:

- The share of the EU budget devoted to research triples to 12%
- At least 30% of the structural funds are used exclusively for research and technology development (including fostering partnerships, supporting pre-commercial procurement and investing in large-scale research infrastructures where needed) – double the current allocation.
- More than 75% of the overall EU budget is oriented towards investing in its future as a knowledge-based society.
- The major research institutions of the well-developed regions of Europe work in partnerships, based on excellence, with those of the lesser-developed regions.
- Half of the adult population has achieved tertiary education – double today's rate.

Dear President

ERAB would like to submit its view on the development of ERA as part of the consultation process you set up.

ERAB welcomes the broad principles and goals you advocate for the coming decade but would like to add some more concrete actions..

In particular we would like to underline that one of the pre-requisites for your 3 fold goals (Creating value by basing growth on knowledge, Empowering people in inclusive societies, Creating a competitive, connected and greener economy) is a thriving ERA based on openness and excellence. It is ERAB's view that this must help us realise what we advocate for "a new renaissance" for Europe. Which means a new way to develop and grow, based on a new understanding of science and society.

We propose 6 policy themes to work on and suggest 30 milestones to realise them. We are currently working on action plans to take these issues formally and will present these in May during the Spanish presidency.

You can find them in attached report that we submitted to the Commission last October and has been widely applauded in its approach

Yours sincerely

Professor John Wood
Chair European Research Area Board

<<ERA view 2030 - 7-2009-final-with logos.pptx>>

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