



Forest Research in Horizon 2020

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Facts and figures, "the bigger picture"

- 123 million people at risk of poverty in the EU, and more than 26 million Europeans unemployed
- By 2050, food demand expected to increase by 70% and energy demand by 100%, while oil and gas production expected to halve
- Agriculture accounts for 14% of anthropogenic GHG (mostly non-CO₂) and LULUCF sector for 17% (mostly CO₂) emissions globally. LULUCF is the only GHG sector reporting C sequestration.
- EU is net importer of biomass for energy, energy independence - key issue
- 48.5% of renewables consumed in 2010 provided by wood (waste) – Renewables Progress Report 2013

Further facts and figures, forestry

- Forests: 40% EU land area, ecosystem services: feedstock supply, water and soil protection, C sequestration, biodiversity, recreation...
- Self-sustaining supply for FBI
- Forest-based sector: 8% EU manufacturing added value, 3-4 million jobs mostly in rural areas
- Share of forestry/FBI in Bioeconomy: annual turnover billion EUR 269 / 2,078 (13%) – SWD Bioeconomy Strategy 2012

Characteristics

Two main issues:

- regional features
- long production cycle

'Forest policy': cross-cutting in specific (TFEU) policies:

- Agriculture and Rural Development
- Environment and Biodiversity
- Climate Change
- Trade
- Energy
- Industry and Entrepreneurship
- Research and Innovation

Forest R&I: Coordination perspectives compared to other policy areas?

Ongoing work R&I

FP7 RTD Database, 'forest' keyword (collaborative research; infrastructure; coordination - ERANET) :

24 projects KBBE

89 projects in total

COST Domain 3 – Forests, their Products and Services (**FPS**): 27 on-going Actions, plus 7 New Actions (May 2014)

JRC: EFFIS; EFDAC; EFDI; GHG AFOLU

...

From € 53 billion (FP7) to 79 billion (H2020) – current prices



Food, **A**griculture and **F**isheries, and **B**iotechnology
Knowledge - Based Bio - Economy (K B B E)



European
Commission

Europe 2020 Priorities

International cooperation

European Research Area

Shared objectives and principles

Tackling Societal Challenges

- Health, demographic change and wellbeing
- Food sec., sust. agri., mar. res. & bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Supply of raw materials, resource efficiency and climate action
- Inclusive, innovative and secure societies

Creating Industrial Leadership and Competitive Frameworks

- Leadership in enabling and industrial technologies (Biotechnology,...)
- Access to risk finance
- Innovation in SMEs

Excellence in the Science Base

- Frontier research (ERC)
- Future and Emerging Technologies (FET)
- Skills and career development (Marie Curie)
- Research infrastructures

Common rules, toolkit of funding schemes

Simplified access

Coherence with other EU and MS actions

Horizon 2020 legal framework

- Regulation no. 1291/2013 of the EP and of the Council establishing Horizon 2020 - The **Framework Programme** for R&I 2014-2020

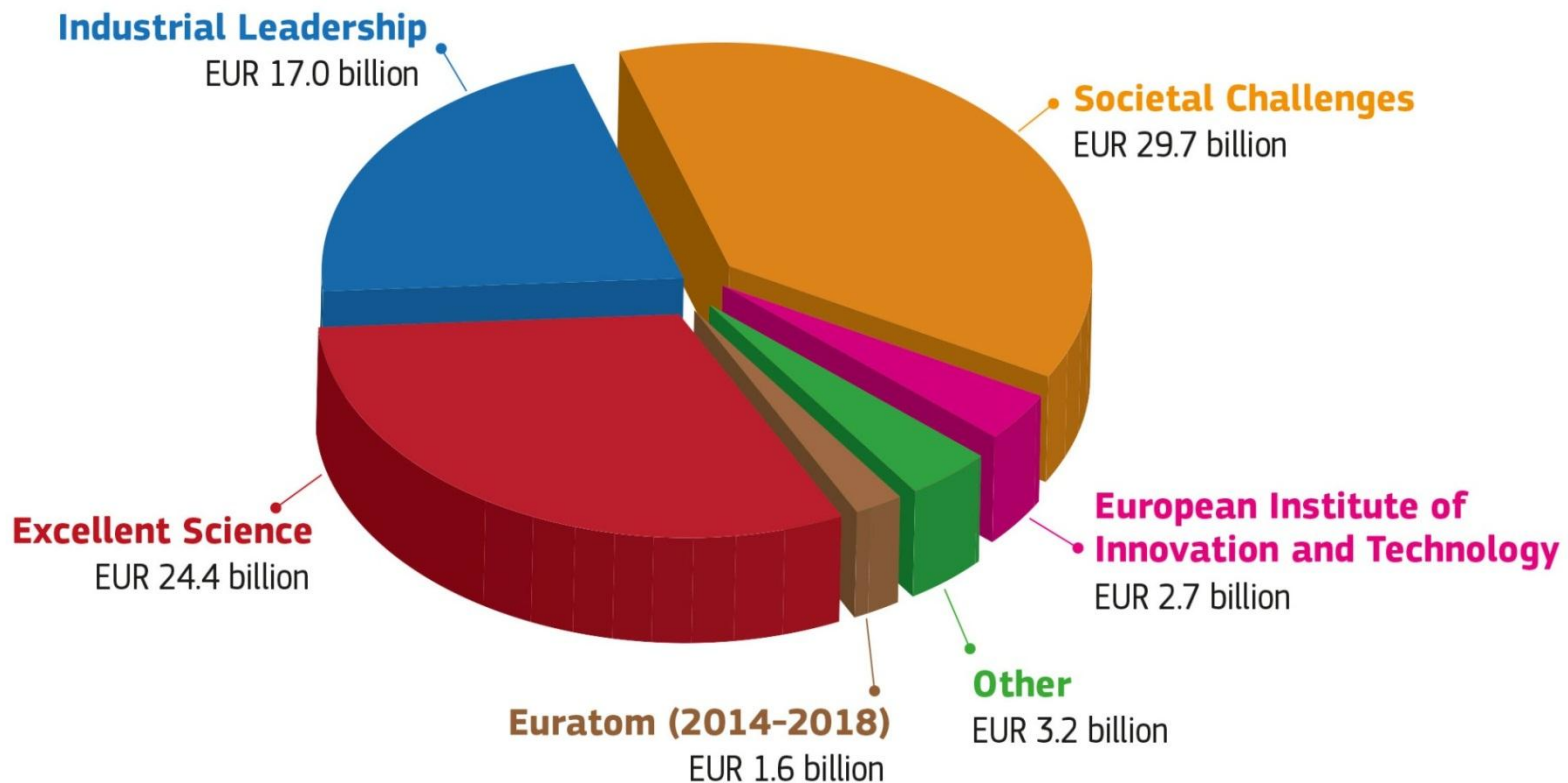
SC 2 – "Food Security, Sustainable Agriculture *and Forestry*, Marine and Maritime and Inland Water Research and the Bioeconomy"

- Council Decision no. 2013/743/EU - **Specific Programme**

2.1.4 *Sustainable forestry*:

"The aim is to sustainably produce bio-based products ecosystems, services (including water-related and climate-mitigation services) and sufficient biomass, with due consideration to economical, ecological and social aspects of forestry as well as to regional differences. Overall, activities in the forestry sector will seek to promote multi-functional forests which deliver a variety of ecological, economic, and social benefits. Activities will focus on the further development of sustainable forestry systems which can address societal challenges and demands, including forest owners' needs, by putting in place multifunctional approaches that reconcile the need for delivering smart, sustainable and inclusive growth taking into account climate change. These sustainable forestry systems are instrumental in the strengthening of forest resilience and biodiversity protection and the need to meet the increased biomass demand. This will need to be underpinned by research on tree health and on forest protection and restoration from fire."

HORIZON 2020 BUDGET (in current prices)



Regulation No 1290/2013 of the EP and of the Council laying down the **rules for participation** and dissemination in Horizon 2020

- Min. 3 LE for collaborative actions (RIA), special conditions for SMEs
- Increased remote expert meeting, GA e-signature, paperless reports...
- Evaluation RIA: excellence, impact, efficiency in implementation
- Single co-financing rates (e.g., 70%, 100%) and indirect cost (e.g., 25%), increased use of lump sums, average staff costs
- From "Negotiation" (FP7) to "Grant preparation" (H2020), TTG max 8 M
- New thresholds FVC: PC \geq 500 k€; Audit: PB \geq 325 k€

H2020 features

- Delegation project evaluation/mgmt. to agencies, transition FP7/H2020
- New DGs in the 'Research family' (e.g. RTD/AGRI - SC 2)
- RIA, IA (challenge-based, cross-sectorial, marketable solutions, ...)
- Co-fund (ERA-NET; PCP; EJP; CSA)
- JTI/PPP (BBI ca. 1/4 SC2)
- art. 185
- JPI
- COST ...

- Complementarity with other EU programmes, e.g. European Structural and Investment Funds ESIF (e.g. RIS3/SSS supported by ESF and EFRD), European Innovation Partnerships (EIP), etc.

WP 2014-2015 adoption

Reference to WP 2014-2015 dependent on the H2020 legal framework;
H2020 adopted 21 Nov 2013 by EP & 3 Dec 2013 by the Council

Nov 2013, WP 2014/15 voted by PC (COM Decision C (2013)8631 10 Dec 2013), calls (pre-)published in Dec 2013

Dec 2013 – Jan 2014: Info Days on SCs, ERANET Co-fund, etc.

Updates on Participant Portal, IT tools (e.g. SEP – Proposals, SYGMA – pr. mgmt.), expert database (COMPASS)...

E.g. SC2: deadline 1st stage 12 March, 2nd stage 26 June 2014; Centralised evaluations COVE mid Sept 2014, hand-over contracting REA end 2014

WP 2014/2015, forest-related topics e.g.:

4. Research infrastructures

INFRAIA 1 (2014-2015)

Biological & Medical Sciences (Starting communities)

... Plant & forestry material resources

Environmental and Earth Sciences (Advanced communities)

... Forest ecosystems (air pollution, CC, genetic diversity)

5. LEIT

BIOTEC 3 - Widening industrial application of enzymatic processes

FoF 3 – 2014: Global energy and other resources efficiency in manufacturing enterprises

EeB 1 – 2014: Materials for building envelope

SPIRE 2-2014: Adaptable industrial processes allowing the use of renewables as flexible feedstock for chemical and energy applications

WP 2014/2015

9. SC2 - Bioeconomy (SFS, BG, ISIB):

SFS3 - Practical solutions for native and alien pests affecting plants 2014

SFS 7 - Genetic resources and agricultural diversity for food security, productivity and resilience 2014-2015

ISIB 1 - Provision of public goods by EU agriculture and forestry 2014

ISIB 4 - Improved data and mgmt. models for sustainable forestry 2014-2015

ISIB 7 – Public procurement networks on innovative bio-based products (CSA)

ISIB 8 – Towards an innovative and responsible bioeconomy 2014 (CSA)

ISIB 12 - Public-Public Partnerships in the bioeconomy 2015 (ERA-NET)

WP 2014/2015, e.g.:

10. Energy

EE-02-2015: Buildings design for new energy performing buildings

LCE-02-2015: Developing the next generation technologies of renewable electricity and heating/cooling

LCE-14-2015: Market uptake of existing and emerging sustainable bioenergy

12. Climate, environment, resource efficiency

WATER-2b-2015: Integrated approaches to food security, low-carbon energy, sustainable water management and climate change mitigation

WASTE-3-2014: Recycling of raw materials from products and buildings

SC5-05a-2014: Climate change mitigation options (CSA)

SC5-10c-2015: An EU support mechanism for evidence-based policy on biodiversity & ecosystems services (CSA)

SC5-15-2015: Strengthening the European Research Area in the domain of Earth Observation (ERA-NET)

To follow: WP 2016-2017

- 2 year programming approach, making use of the first biennium experience
- On-going 'Strategic programming' (Art. 5 (6) SP): intermediary between SP and AWP; more extensive stakeholder consultation: AGs, ETPs, JPIs, JTIs, ERANETs, EIPs, SCAR (SC2), 'affiliated' stakeholders (prior to HGs and PCs)
- Objectives: strategic move from 'what' to 'how': Current challenges, linkages with emerging policies, cross-cutting issues, key R&D opportunities, responsiveness of H2020 calls to actual needs, Focus Areas (?)...
- Concrete AWP calls/topics to be developed under the new CAB - early 2015, publication - mid 2015



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COSME

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Consumer Programme

FP7 & CIP Programmes 2007-2013

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Other Funding Opportunities

Horizon 2020

- Innovation in SMEs
- Societal Challenges**
- Health, demographic change and wellbeing
- Food security, sustainable agriculture and forestry, marine and maritime and inland water research
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, environment, resource efficiency and raw materials
- Europe in a changing world - inclusive, innovative and reflective Societies

Type

Proposal

Tender

Status

Open

Closed

Forthcoming

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Filters only programme and call titles and IDs, for extended search go to the [Search Topics page](#).

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Title



Call Id



Publication Date



Deadline Date

Societal Challenges

Blue Growth: Unlocking the potential of Seas and Oceans

H2020-BG-2015-2

Deadline(s): 24/02/2015

Pub.Date: 11/12/2013

Societal Challenges

Blue Growth: Unlocking the potential of Seas and Oceans

H2020-BG-2015-1

Deadline(s): 11/06/2015

Pub.Date: 11/12/2013

Societal Challenges

Blue Growth: Unlocking the potential of Seas and Oceans

H2020-BG-2014-1

Deadline(s): 26/06/2014

Pub.Date: 11/12/2013

Societal Challenges

Sustainable Food Security

H2020-SFS-2015-2

Societal Challenges

Sustainable Food Security

H2020-SFS-2015-1

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Bioeconomy

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What is the Bioeconomy

The Bioeconomy offers Europe a unique opportunity to address complex inter-connected challenges, while achieving economic growth. It can assist Europe in making the transition to a more resource efficient society that relies more strongly on renewable biological resources to satisfy consumers' needs, industry demand and tackle climate change. [Read more...](#)

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Horizon 2020 is the biggest EU Research and Innovation programme ever with some €79 billion of funding available over 7 years (2014 to 2020). It promises more breakthroughs, discoveries and world-firsts by taking great ideas from the lab to the market.

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