INFO DAYS

CLUSTER 6

FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE & ENVIRONMENT

25 & 26 October 2021

27 October Brokerage

THE EU RESEARCH & INNOVATION PROGRAMME 2021 – 2027

https://europa.eu/INF8QU7
CALLS HORIZON-CL6-2022-CIRCBIO-01 & HORIZON-CL6-2022-CIRCBIO-02-TWO-STAGE

Call Circular economy and bioeconomy sectors
CIRCULAR ECONOMY AND BIOECONOMY SECTORS

Enabling a circular economy transition
2 topics

Innovating sustainable bio-based systems and the bioeconomy
8 topics

Safeguarding the multiple functions of EU forests
2 topics

Innovating for blue bioeconomy and biotechnology value chains
1 topic

Calls HORIZON-CL6-2022-CIRCBIO-01 & HORIZON-CL6-2022-CIRCBIO-02-two-stage
POLICY CONTEXT

- European Green Deal
- Circular Economy Action Plan
- Biodiversity Strategy
- Bioeconomy Strategy
- Forest Strategy
- Plastics Strategy
- Industrial Strategy
- SME Strategy

IMPACT FROM STRATEGIC PLAN

Sustainable and circular management and use of natural resources as well as prevention and removal of pollution are mainstreamed, unlocking the potential of the bioeconomy, ensuring competitiveness and guaranteeing healthy soil, air, fresh and marine water for all, through better understanding of planetary boundaries and deployment of innovative technologies and other solutions, notably in primary production, forestry and bio-based systems.

IMPACT AREAS

- Climate change mitigation and adaptation
- Enhancing ecosystems and biodiversity on land and in water
- A resilient EU prepared for emerging threats
- Inclusive growth and new job opportunities
- Industrial leadership in key and emerging technologies that work for people

Calls HORIZON-CL6-2022-CIRCBIO-01 & HORIZON-CL6-2022-CIRCBIO-02-two-stage
CIRCULAR ECONOMY AND BIOECONOMY SECTORS

Expected impacts

- Regional, rural, local/urban and consumer-based transitions towards a sustainable, regenerative, inclusive and just circular economy and bioeconomy across all regions of Europe based on enhanced knowledge and understanding of science;

- European industrial sustainability, competitiveness and resource independence by lowering the use of primary non-renewable raw materials and reducing greenhouse gas emissions and other negative environmental footprint;

- Improved consumer and citizen benefits;

- Multi-functionality and management of forests in Europe based on the three pillars of sustainability (economic, environmental and social);

- Enlarged potential of marine and freshwater biological resources and blue biotechnology to deliver greener (climate-neutral circular) industrial products and processes, and to help characterise, monitor and sustain the health of aquatic ecosystems for a healthy planet and people.
CIRCULAR ECONOMY AND BIOECONOMY SECTORS

Budget 2022 calls: 142 M EUR

- 3.1. Enabling a circular economy transition: €31M
- 3.2. Innovating sustainable bio-based systems and the bioeconomy: €74M
- 3.3. Safeguarding the multiple functions of EU forests: €19M
- 3.4. Innovating for blue bioeconomy and biotechnology value chains: €18M

Calls HORIZON-CL6-2022-CIRCBIO-01 & HORIZON-CL6-2022-CIRCBIO-02 - two-stage

Number of topics

- RIA: 6
- IA: 5
- CSA: 2
Thank you!

Questions?
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#HorizonEU
#EUGreenDeal
#EUBiodiversity
#EUFarm2Fork
#ZeroPollution

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HORIZON-CL6-2022-CIRCBIO-01-01

Circular Cities and Regions Initiative’s project development assistance (CCRI-PDA)

Coordination and Support Actions

#CL6INFODAY
EXPECTED OUTCOMES

✓ To contribute to

✓ The delivery of a series of sustainable circular economy projects at local and regional scale across Europe;

✓ The delivery of innovative financing schemes that are operational and ready to finance circular economy investments at local and regional scale;

POLICY CONTEXT

• Supporting the European Green Deal, the Industrial Strategy, SME Strategy, Circular Economy Action Plan, Bioeconomy Strategy, Urban Agenda for the EU

• Supporting the implementation, demonstration and replication of systemic circular solutions for the transition towards a sustainable, regenerative, inclusive and just circular economy at local and regional scale
HORIZON-CL6-2022-CIRCBIO-01-01

SCOPE

• To be provided to public/private project promotors
• To bring together technical, economic and legal expertise needed for developing circular economy investment projects at local and regional scale resulting in the actual launch of investments during the project.
• To provide support for activities such as feasibility studies, business plans, preparation for tendering procedures
• To provide tangible showcases that should trigger further market replication
• The economic sectors involved should be selected according to local and/or regional circular economy needs, resources and potential.
• Proposals should clearly focus their activities on the launch of significant circular economy investment programmes at local and regional scale

INDICATIVE BUDGET
between 0.40 and 2.00 mln EUR per project (10 mln EUR in total)

Important!
Collaboration and Cooperation with other projects
Marginal lands and climate-resilient and biodiversity-friendly crops for sustainable industrial feedstocks and related value chains

Innovation Actions

#CL6INFODAY
**HORIZON-CL6-2022-CIRCBIO-01-02**

**POLICY CONTEXT**

- European Green Deal, the circular economy action plan and the bioeconomy strategy
- The need to upgrade current **plant-based biorefining** to leave more land available for **biodiversity protection** and food production, while allowing the **substitution** of fossil-based resources with bio-based ones
- The need to improve European **industrial sustainability**, competitiveness and resource independence
- **Lowering environmental footprint** (including on biodiversity), enabling **climate-neutrality** and higher **resource efficiency** (in particular upcycling and cascading use of biomass)
- Engaging all stakeholders, and improve their knowledge and understanding of science, in particular **biotechnology-based value chains**.

**EXPECTED OUTCOMES**

- Identification of the co-benefits potential risks and upscaling potential of **sustainable biomass production** with a **low potential for Indirect Land Use Change (ILUC)** with focus on **marginal lands**
- An improved understanding of the actual available land in the EU Member States and associated countries that could be used for biomass production that can be **certified as ‘low ILUC’ for use** in bio-based sectors
- An increased understanding of the **biodiversity challenges and potentials**, and the ecosystem services. This should include the **replication of such practices** across Europe.
- Improved functional performance of the **specific value chains and products**, and improved resource efficiency thanks to a better application of the **cascading use of biomass**.
HORIZON-CL6-2022-CIRCBIO-01-02

SCOPE

- Enhancing **ecosystem services** to prepare for **increased water stress and water scarcity** due to climate change.
- Serving **multi-purpose and optimised biomass production**, with a specific focus on improving **biodiversity-related benefits**, with opportunities for European rural development and improved industrial competitiveness including by the **modern biotechnology** approaches.
- Environmentally and economically **viable sources of pollinator-supporting industrial crops** upscaling them in related value chains, e.g. industrial sectors - **biochemicals, composites or elastomers**
- Identifying and optimising crops (e.g. **non-edible oil and fibre crops, dryland shrubs and woody crops**) that could be adapted through modern biotechnology tools to require low-water/low-input use.
- Increase **farming systems’ resilience** to climate change and boost the sustainability of biomass provision through **sound agronomic practices**, with particular focus on high resource efficiency.
HORIZON-CL6-2022-CIRCBIO-01-03

Benefits of the transition towards sustainable circular bio-based systems from linear fossil-based

Coordination and Support Actions
POLICY CONTEXT

• The European Green Deal and the 2030 Climate target plan aim at fighting the climate change caused by anthropogenic activities through a systemic change.

• Circular bio-based systems have the potential to contribute substantially to keeping our planet healthy, provided they are developed sustainably, which is at the core of the Bioeconomy strategy.

EXPECTED OUTCOMES

✔ Enabling the transition from linear fossil-based systems to circular bio-based systems.

✔ Elements and priorities of policies for transition such aiming at i) climate change mitigation and adaptation; ii) increasing resource efficiency and circularity; iii) preserving and restoring natural resources, their ecosystem services and biodiversity; and i) ensuring a just transition for everyone.

Related impact: circular climate-neutral bio-based systems replacing carbon-intensive and fossil-based systems.
SCOPE

- Consolidate knowledge on actual environmental, social and economic impacts of the portion of linear carbon-intensive and fossil-based in the EU economy and current trends in terms of intrinsic limits of such economy
- Cultural and social limits are considered, including barriers related to gender and age
- Consolidate knowledge and assessment of impacts of circularity vs linearity
- Develop and compare multiple scenarios of transitioning from fossil-based to circular bio-based systems, modelling the replacement of the most carbon-intensive fossil-based activities with bio-based systems. Environmental, social and economic assessment
- Identify priorities in the transition from fossil-based to circular bio-based systems to inform policy makers

HORIZON-CL6-2022-CIRCBIO-01-03

INDICATIVE BUDGET
2 mln EUR per project
(4 mln EUR in total)

Important!
Synergies with other projects under the topic
Social sciences and humanities (SSH) disciplines
HORIZON-CL6-2022-CIRCBIO-01-04

Maximising economic, environmental and social synergies in the provision of feedstock for bio-based sectors through diversification and increased sustainability of agricultural production systems

Innovation Actions

#CL6INFODAY
POLICY CONTEXT

- Securing long-term supply of affordable and sustainable biomass is a key challenge for the European bioeconomy.

- The diversity and diversification of farming systems can contribute to a sustainable European bioeconomy.

- Securing stable revenues for farmers, lowering negative environmental impacts and increasing resilience to climatic, economic and biological risks.

EXPECTED OUTCOMES

- Sustainable primary production systems to diversify income for farmers, while supporting the development of bioeconomies in rural areas.

- Targeted policies at EU / national and regional level promoting sustainable agricultural production systems.

- Improved knowledge of primary producers on co-benefits and potential risks of introducing new production systems.

- Better management of the actual available land that is certifiable as ‘low induced land use change (ILUC)’ for the use in bio-based sectors.
SCOPE

• Explore alternative systems and designs to improve the overall sustainability of local and regional agricultural production systems in a variety of landscapes, soil and climatic conditions;

• Consider the environmental, economic and social impacts of primary production systems and contribute to the characterisation of diversity and its relation to expected functions and benefits;

• Develop sustainable diversification strategies that can optimise the production of agricultural feedstock in the emerging bio-based economy.

• Different European agricultural production models/sectors with a view to minimise potential land conflicts and in line with agro-ecological practices.

INDICATIVE BUDGET
8 mln EUR per project (8 mln EUR in total)

Important!
Multi-actor approach
Contribute with data to the Knowledge Centre for Bioeconomy hosted by the JRC
EU-China international cooperation on unlocking the potential of agricultural residues and wastes for circular and sustainable bio-based solutions

Research and Innovation Actions

#CL6INFODAY
POLICY CONTEXT

• Agriculture generates co-products, by-products and waste streams that are often not treated adequately in environmental and economic terms.

• This topic addresses opportunities for new processes and concepts that enable innovative uses of these materials while quantifying the impact of deviating biomass streams from their current flow.

EXPECTED OUTCOMES

✓ Strengthened international cooperation with actors from China.

✓ Establishment of bio-based production systems that are optimised in view of sustainability, circular resource use and economic viability.

✓ Increased resource efficiency through reduction of waste and better waste management practices in primary production systems.

✓ Increased opportunities for the valorisation of waste, by- and co-products resulting in environmental and economic benefits for the farming sector (e.g. development of new products and processes).
SCOPE

• Evaluate existing techniques and develop new innovative approaches.
• Demonstrate environmentally-friendly and economically viable sector-specific case studies.
• Examine the synergies/conflicts and interdependencies between the different agri-waste feedstock and develop coherent indicators to evaluate their quantity, quality and sustainability attributes, as well as the costs associated with their production, collection and processing.
• Consider environmental, economic and social safeguards.
• Improve data collection at farm-level, link them with relevant information systems.
• Address, if applicable, nutrient and energy recovery and the overall minimisation of environmental impacts in the context of good agricultural practices and possible sanitary implications.

INDICATIVE BUDGET
8 mln EUR per project
(8 mln EUR in total)

Important!
Multi-actor approach
EU-China cooperation
Develop learning resources
HORIZON-CL6-2022-CIRCBIO-01-06

Strengthening the European forest-based research and innovation ecosystem

Research and Innovation Actions

#CL6INFODAY
A successful transition of the forest-based sector towards greater sustainability needs to be underpinned by a comprehensive scientific assessment.

Better coordination of research activities is also required to overcome fragmentation of public research efforts, to strengthen the link between forest managers, industries and society and to streamline the activities of European, national and regional stakeholders.

EXPECTED OUTCOMES

- Better insights into existing funding sources and streamlining of research and innovation (R&I) actions in Europe.
- Establishment of a co-creative environment allowing stakeholders to identify jointly existing research gaps and future priorities to coordinate research efforts at regional, national and European level.
- Intensified trans-national R&I cooperation in forestry and the forest-based sector on research priorities, critical and key technologies.
- Creation of an open-innovation ecosystem with relevant stakeholders.
SCOPE

- Analyse the forest-based sector in an integrated way, considering different biodiversity and bioeconomy issues, societal expectations and climate change risks that call for an intensified European and international collaboration.

- Design a suitable method for conducting foresight analysis on issues that are likely to have an impact on forests in European regions and globally.

- Provide evidence and knowledge on how existing funding sources are mobilised to support research and innovation initiatives in the forest-based sector.

- Develop a structured framework for a European network of research funding and research policy organisations.

- Develop an R&I roadmap at EU-level and prepare for a possible European partnership under Horizon Europe.

INDICATIVE BUDGET

4 mln EUR per project (4 mln EUR in total)

Important!
Multi-actor approach
Assess potential flagships
In the context of this topic marine microbiome is understood as the global collective of all microorganisms in marine and aquatic environments. The term refers also to the specific communities of microbes that live in and on individual aquatic ecosystems, including their creatures.

Research and Innovation Actions
**POLICY CONTEXT**

- European Green Deal, EU bioeconomy strategy and blue growth strategy.
- Microbiome-based greener aquatic industrial products/processes and/or environmental services sustaining the health of aquatic ecosystems for a healthy planet and people.

**EXPECTED OUTCOMES**

- Enable the efficient production of high-quality marine microbiome data, increased data interoperability and facilitate its use by a wide range of stakeholders. Capacity building in bioinformatics.
- Increased engagement of all actors in the marine microbiome biodiscovery pipeline & awareness.
- Proven biodiscovery strategies based on whole microbiome communities.
- Better protection and sustainable use of marine (genetic) bioresources by advancing new intellectual property rights (IPR) approaches to securing clear access while ensuring fair and equitable sharing of benefits arising from their utilisation.
HORIZON-CL6-2022-CIRCBIO-01-07

SCOPE

• Develop novel tools and approaches to produce, analyse and use marine microbiome data for the discovery and production of high value sustainable industrial products/processes and/or environmental services.

• Address scientific and technological challenges such as: new methods to analyse and model microbiome communities; developing standards and common methodologies; ensuring interoperability of databases and infrastructures and enhanced networking.

• Bioprospecting; targeted cultivation strategies beyond lab grown monocultures; manipulate and bioengineer microbiome products; ensure open access and benefit sharing.

• Collaboration between private industry and academia, and link with end users and society. Assess the risks and ethics. Dissemination, public engagement. Cooperation with proposals under complementary topics.

INDICATIVE BUDGET
9 mln EUR per project
(18 mln EUR in total)

Important!
International co-operation is strongly encouraged
HORIZON-CL6-2022-CIRCBIO-02-01-TWO-STAGE

POLICY CONTEXT

• European Green Deal
• Circular Economy Action Plan
• A Renovation Wave for Europe
• New European Bauhaus
• Circular Cities and Regions Initiative (CCRI)
• Product Environmental Footprint (PEF) method

Deploy innovative climate-neutral circular solutions for buildings and materials along the whole value chain.

EXPECTED OUTCOMES

✓ Deployment and market uptake of innovative solutions for construction, waste prevention, lifetime extension and improvement of lifecycle performance
✓ Deployment and market uptake of innovative solutions to design and manufacture for disassembly, waste prevention and management, reuse and recycling
✓ Diffusion of advanced digital solutions in coherence with other initiatives such as digital logbooks for logistics of construction materials and the energy-efficient operation of buildings
✓ Increased recovery and recycling rates
✓ Improved elimination of hazardous substances
✓ Increased upcycling of reused and recycled material
✓ Increased knowledge about the overall environmental footprint of buildings and construction materials

Related impact: European industrial sustainability, competitiveness and resource independence
SCOPE

- Built environment uses up 50% of all extracted material
- >35% of the EU’s total waste generation from construction sector
- 5-12% of total GHG from material extraction, manufacturing of construction products, construction and renovation
- → 80% emission reduction through greater material efficiency
- Produce and use climate-neutral circular materials with low environmental footprint
- Aim at material recovery, upcycling, recycled content in products, durability and adaptability of buildings
- Circular design facilitates reuse and recycling
- Embed dismantling and deconstruction in the design phase
- Improve the quality of / confidence in reused / recycled material
- Promote new business models
- Focus on lifecycle and digitalisation
- Large-scale demonstrations
- Quantify outcomes with indicators and targets

INDICATIVE BUDGET

6-8 mln EUR per project (21 mln EUR in total)

Important!

Joint activities with CCRI and with “a new way to build, accelerating disruptive change in construction” (CL4) are encouraged

HORIZON-CL6-2022-CIRCBIO-02-01-TWO-STAGE
HORIZON-CL6-2022-CIRCBIO-02-02

Exploring extreme environments: novel adaptation strategies at molecular level for bio-based innovation

Research and Innovation Actions

#CL6INFODAY
POLICY CONTEXT

• European Green Deal, the circular economy action plan and the bioeconomy strategy

• The need to improve European industrial sustainability, competitiveness and resource independence (via provision of sustainable biomass substituting fossil-based industrial feedstocks)

• Lowering environmental footprint (including on biodiversity), enabling climate-neutrality and higher resource efficiency (in particular upcycling and cascading use of biomass)

• Engaging all stakeholders, and improve their knowledge and understanding of science, in particular biotechnology-based value chains.

EXPECTED OUTCOMES

• Deeper understanding of the molecular, biochemical and cellular mechanisms of ecological adaptation of terrestrial and aquatic organisms in response to life under extreme or changing environments

• Stronger innovation capacity by applying the discovered principles (including via biotechnology routes) to the development of more resilient innovative feedstocks needed for sustainable bio-based products

• Significantly improved environmental footprint of novel feedstocks based on discovered principles, and a wider range of sustainable biomass resources available to European industry e.g. through lowered requirements for pesticides or irrigation.

• Increased public understanding in Europe of biotechnology, the conservation of biodiversity, and EU biodiversity strategy goals.
R&D needed to advance and potentially exploit knowledge on the ways terrestrial and aquatic organisms and their populations adapt, on molecular, physiological, and ecological levels, to the effects of climate change, such as by tolerance to extreme temperatures, drought/water stress, salinity or increased biotic pressures (new pests), as observed at macro-scale (e.g. shifting ecological niches).

Understanding the complex interactions between the affected populations (e.g. molecular signalling), and broader outcomes on an ecological level.

Engage with industrial actors including SMEs to identify and implement the best combination of appropriate technical solutions and in particular biotechnology for specific industrial value chains, for sustainable biomass generation, taking into account the barriers and drivers derived from governance and market aspects, while seeking engagement and understanding of all actors.
HORIZON-CL6-2022-CIRCBIO-02-03-two-stage

Sustainable biodegradable novel bio-based plastics: innovation for sustainability and end-of-life options of plastics

Innovation Actions
POLICY CONTEXT

- European Green Deal: the Circular economy action plan and the 2030 Climate target plan aim at fighting the environmental challenges caused by anthropogenic activities through a systemic change

- Circular bio-based systems have the potential to contribute substantially to keeping our planet healthy, provided they are developed sustainably, which is at the core of the Bioeconomy strategy

EXPECTED OUTCOMES

- Bio-based plastics value chains are deployed with improved functionalities and environmental performances, less toxicity substances, lower waste production and better product safety control along the whole value chain

- Process and product safety for enhanced functionalities, circularity and environmental sustainability, improved end-of-life including biodegradation
HORIZON-CL6-2022-CIRCBIO-02-03-two-stage

SCOPE

• Bio-based, sustainable biodegradable plastics with improved end-of-life for specific applications: recyclable, able to biodegrade in composting or anaerobic digestion or home composting or in ‘in-situ’ degradation depending on applications and conditions

• Innovative aspects of the production process; process and product safety in value chains

• Test the biodegradability in the specific environments

• Demonstrate the scaled-up production processes and cost competitiveness

• Multidisciplinary approach

INDICATIVE BUDGET

6 mln EUR per project
(12 mln EUR in total)

Important!
Sharing methodologies and findings with projects funded within this topic and past projects
Photosynthesis revisited: climate emergency, “no pollution and zero-emission” challenge and industrial application

Research and Innovation Actions
POLICY CONTEXT

• European Green Deal, the circular economy action plan and the bioeconomy strategy

• The need to improve European industrial sustainability, competitiveness and resource independence (via provision of sustainable biomass substituting fossil-based industrial feedstocks)

• Lowering environmental footprint (in particular reduction of pollution, key for ensuring good air quality, e.g. ozone emissions), enabling climate-neutrality and higher resource efficiency (in particular biomass)

• Engaging all stakeholders, and improve their knowledge and understanding of science, in particular biotechnology-based value chains.

EXPECTED OUTCOMES

• Wider application of molecular biology and biotechnology to increase photosynthetic efficiency of plants and/or algae and other autotrophic organisms, for higher assimilation of carbon dioxide, biomass yields, recovery of substance and materials of economic interest, and climate change mitigation and adaptation.

• Increased industrial uptake of plants and photoautotrophic organisms via biotechnology approaches, for the production of high-value complex molecules. Higher engagement of industry and SMEs in Europe.

• Greater understanding and application of biotechnology to address air pollution (especially ozone) by crops and plants related with heat waves and environmental stress.

• Greater and more inclusive understanding and awareness of innovations, via transparent communication and societal dialogue with all stakeholders.
HORIZON-CL6-2022-CIRCBIO-02-04

SCOPE

• Innovative technologies with potential to boost the efficiency of photosynthesis, reduce the ‘climate penalty of plants’, and increase their sustainable industrial application.

• All photoautotrophic organisms such as plants, micro- and macro algae, cyanobacteria and purple sulphur bacteria are in the scope.

• Biofuels/bioenergy applications are excluded.

• In scope: key aspects of the environmental and safety aspects

• Consider process and product safety - including the occupational and consumer safety aspects - in value chains, in line with national or European regulations

• Ensure the transparent and inclusive engagement of all actors, including industry and SMEs, the scientific community, regulatory institutions, and broader civil society, including NGOs, to ensure the necessary impact and awareness.

INDICATIVE BUDGET
6 mln EUR per project
(6 mln EUR in total)

Important!
International cooperation is strongly encouraged to maximise the impact

Linking with and capitalising on the results of past and ongoing research projects.
HORIZON-CL6-2022-CIRCBIO-02-05

Life sciences and their convergence with digital technologies for prospecting, understanding and sustainably using biological resources

Research and Innovation Actions

#CL6INFODAY
HORIZON-CL6-2022-CIRCBIO-02-05

POLICY CONTEXT

• European Green Deal, the circular economy action plan, industrial strategy, biodiversity strategy and the bioeconomy strategy

• The need to improve European industrial sustainability, competitiveness and resource independence (via provision of sustainable biomass substituting fossil-based industrial feedstocks, and by digital-based innovation)

• Lowering environmental footprint, enabling climate-neutrality and higher resource efficiency (in particular bio-based products)

• Engaging all stakeholders, and improve their knowledge and understanding of science, in particular biotechnology-based value chains.

OUTCOMES

• Use the full potential of artificial intelligence applications for prospecting, understanding and sustainably using biological resources within safe planetary boundaries.

• Digital tools, sensors and methods for improved efficiency, climate change adaptation and sustainability of industrial processes in the bio-based sectors considering the needs of stakeholders are integrated in innovative engineering solutions.

• Enhanced monitoring, reporting and management of natural resources using artificial intelligence and other digital technology applications.
SCOPE

- Enable **prospecting, understanding and sustainable use** of biological resources based on their **convergence with digital technologies** that lead to optimised and more efficient bio-based operations.

- Identify and characterise **advanced technologies, including artificial intelligence**, and their benefits for the utilisation, manufacture, and deployment of innovative bio-based systems.

- Develop **integrated biological designs and data models** for improved prospecting, understanding and deployment of higher efficiency and sustainability of biological resources and industrial bio-based operations (e.g. bioinformatics, biosensors, bioindicators, data analysis, ‘-omics’ technologies).

- Develop improved **models and model standards of synthetic systems** (synthetic biology) and of their interaction with their host organisms to facilitate more successful engineering and broader application in the bio-based sectors.

INDICATIVE BUDGET

6 mln EUR per project (12 mln EUR in total)

**Important!**
Consider contributing data and results to the European Commission’s Knowledge Centre for Bioeconomy hosted by the JRC.
Harnessing the digital revolution in the forest-based sector

Innovation Actions
POLICY CONTEXT

• The improved use of information flows and intelligent digital solutions that are increasingly available in forest monitoring, management and forestry operations, could help to significantly improve and unlock the efficiency of wood supply chains.

• Modern digital applications also provide promising possibilities to improve forest managers’ decision making in a precious and complex forest environment.

EXPECTED OUTCOMES

✓ Deployment of information and communication technology (ICT) innovations in forestry to optimise productivity as well as the delivery of ecosystem services.

✓ Application of innovative approaches along the forest-based value chain by more accurate tracing methodologies of forest resources.

✓ A greater competitive advantage for European industries that utilise forest resources more efficiently.
SCOPE

- **Innovations** in information systems for forest managers, forest-based industries and policy makers.
- The aim is to harness the potential of ICT and new technologies with a view to sharing data throughout the wood value chain, thereby driving greater sustainability, to offer new business models and to improve the traceability of forest resources.
- Besides activities such as prototyping, testing, demonstrating and piloting in a near to operational environment, proposals may include limited research activities.
- Assessing and deepening the understanding of economic, social and environmental impacts through an enhanced application of digital technologies.

INDICATIVE BUDGET
6-8 mln EUR per project (15 mln EUR in total)

**Important!**
Multi-actor approach
Use Copernicus and/or Galileo/EGNOS
JRC may participate
Thank you!

#CL6INFODAY  
# HorizonEU  
http://ec.europa.eu/horizon-europe

After the Info Days you can:

• Check the FAQ
• Contact the Research Enquiry Service (RES)
• Contact the National Contact Points (NCPs)