

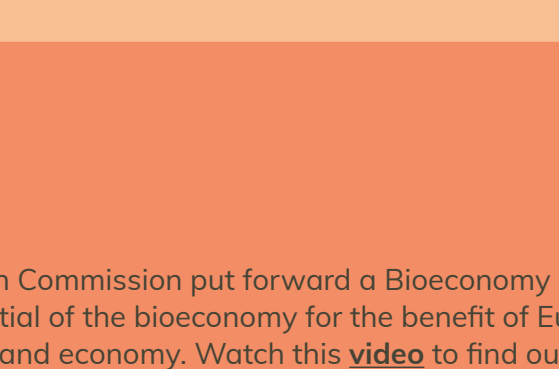


Toolkit 5 Bioeconomy Kit for Policy Makers

The bioeconomy needs the active engagement of policy makers to further develop. It is strongly connected to other policy fields relating to climate mitigation, circularity and sustainability and requires horizontal policies and implementation on several levels. In this kit we have centralized a few key resources that will help strengthen the bioeconomy policy context and develop strategies and roadmaps to advance it.

Table of Contents

1. How can the bioeconomy contribute to a more sustainable and resilient economy?
2. Where can I find resources and detailed data on the bioeconomy?
3. What challenges exist in advancing the bioeconomy?
4. How does the bioeconomy relate to other policy fields?
5. How do I develop a bioeconomy roadmap or strategy in my region?
6. What upcoming EU bioeconomy projects should I look out for?



1 How can the bioeconomy contribute to a more sustainable and resilient economy?



Did you know?

The EU has a Bioeconomy Strategy and Action Plan?

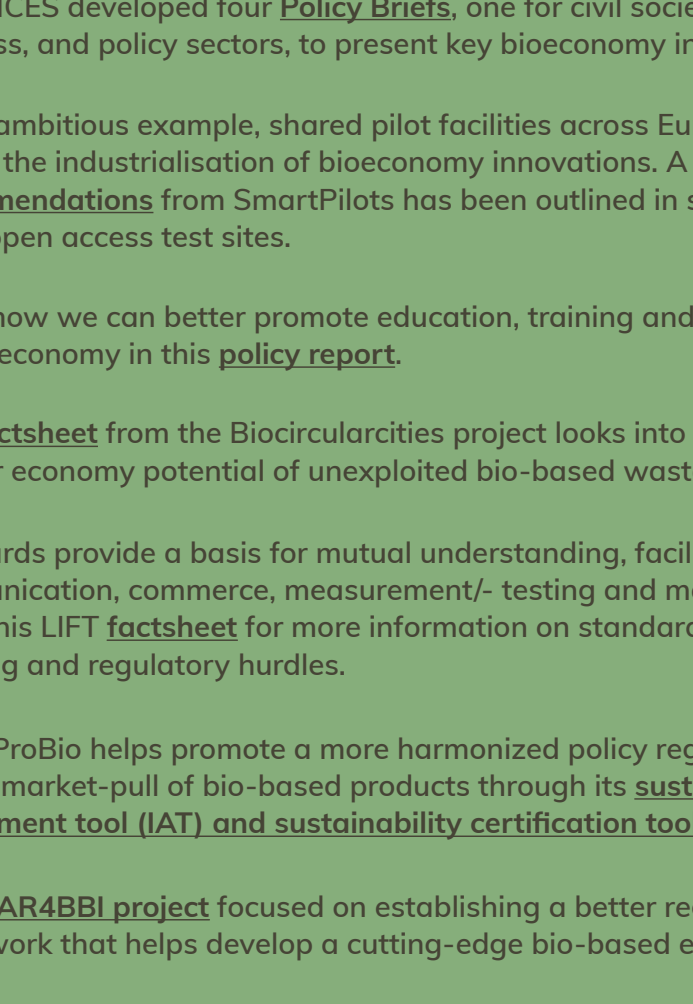
- ▶ The European Commission put forward a Bioeconomy Strategy to unlock the full potential of the bioeconomy for the benefit of Europe's society, environment and economy. Watch this [video](#) to find out more.

- ▢ In 2020 the commission launched the European Bioeconomy Policy Forum to ensure dialogue amongst EU member states on bioeconomy policy. This [progress report](#) from 2022 gives a detailed analysis of the adoption of the bioeconomy strategy in Europe thus far.

- ▢ This [study](#) presents the 50 most significant bio-based innovations for the next 5-20 years. These innovations cover crosscutting technologies and approaches with many different applications, as well as innovation areas or solutions to challenges. It provides strategic knowledge for policy makers, innovation stakeholders and society.

- ▶ Watch this [video](#) on the EU biorefinery outlook to 2030. Biorefineries play an essential role in the transition from fossil and mineral resources to renewable raw materials. A helpful map of European biorefineries can also be found [here](#).

2 Where can I find resources and detailed data on the bioeconomy?



Did you know?

A wealth of information has been gathered in the European Commission's Knowledge Centre for Bioeconomy.

- ▢ A great place to start is the [Knowledge Centre for Bioeconomy](#) and its [glossary](#) provides important definitions.

- ▢ If you need detailed data related to the EU bioeconomy, open the [European Commission's Monitoring System dashboards](#). You can also explore the country-specific dashboard to find data relevant at national level about bioeconomy developments in Europe.

- ▢ It is also essential to quantify the bioeconomy's environmental, economic, and social impacts. The [Biomonitor](#) project does just that.

- ▢ There is also an urgent need to increase the capacity of regional and national stakeholders in communication the bioeconomy to boost the innovation ecosystem and support the transition towards a circular bioeconomy. To respond to this need, Transition2Bio developed the Capacity Building package "How to raise awareness and communicate the bioeconomy", composed of 4 Modules.

3 What challenges exist in advancing the bioeconomy?



Did you know?

Many policy briefs have identified major challenges and opportunities to advance the bioeconomy. A few have been listed below.

- ▢ BIOVOICES developed four [Policy Briefs](#), one for civil society, research, business, and policy sectors, to present key bioeconomy insights.

- ▢ In this ambitious example, shared pilot facilities across Europe help enable the industrialisation of bioeconomy innovations. A set of [policy recommendations](#) from SmartPilots has been outlined in support of these open access test sites.

- ▢ Learn how we can better promote education, training and skills across the bioeconomy in this [policy report](#).

- ▢ This [factsheet](#) from the BioCircularities project looks into unlocking the circular economy potential of unexploited bio-based waste streams.

- ▢ Standards provide a basis for mutual understanding, facilitate communication, commerce, measurement/ testing and manufacturing. Read this [LIFT factsheet](#) for more information on standardisation, LCA, labelling and regulatory hurdles.

- ▢ STAR4Bio helps promote a more harmonized policy regulation framework for the market-pull of bio-based products through its [sustainability assessment tool \(IAT\)](#) and [sustainability certification tool \(SCT\)](#).

- ▢ The [STAR4BBI project](#) focused on establishing a better regulatory framework that helps develop a cutting-edge bio-based economy for Europe.

- ▢ InnProBio has developed helpful [information](#) on good bio-based procurement practices, instruments, and roadmaps

4 How does the bioeconomy relate to other policy fields?



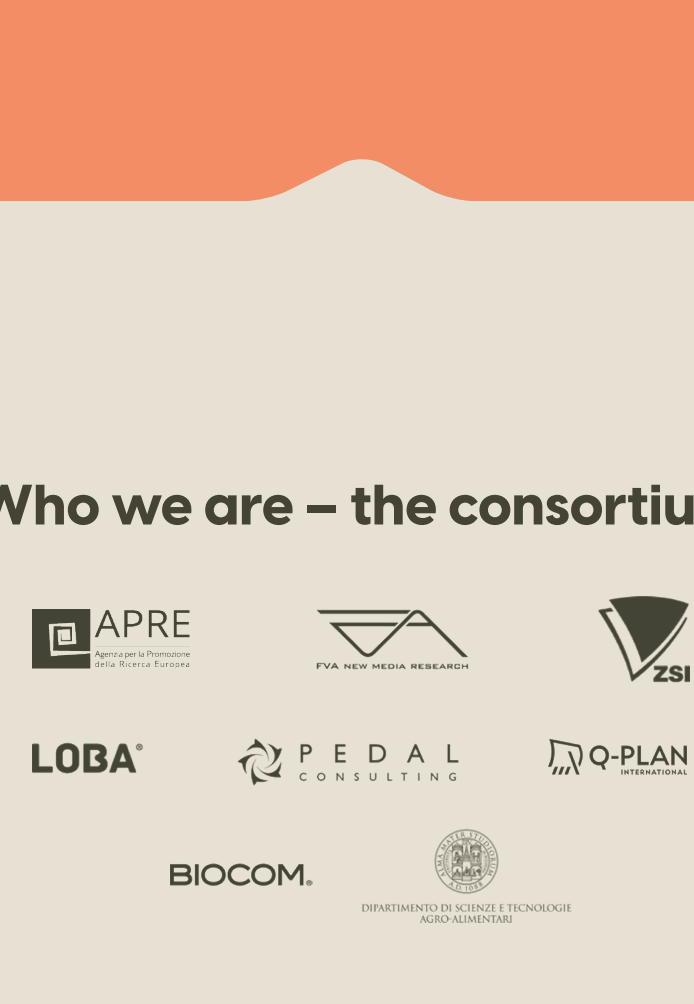
Did you know?

To develop sustainable and circular bioeconomy policies must be evidence-based and coherent across different sectors.

- ▢ In order for the European Union to deliver on its Green Deal, it is essential to foster a circular bioeconomy approach. Learn how the bioeconomy contributes to the European Green Deal in this [factsheet](#).

- ▢ Twinning bioeconomy and circular bioeconomy together can lead to strong synergies. Read this [BIOREGIO policy brief](#) on bio-based circular economy in Europe and best practices.

- ▢ EU cohesion policy plays a critical role in supporting the bioeconomy by helping to reduce disparities in the levels of development, growth and quality of life in and across Europe's regions. The [Policy Learning Platform](#) from Interreg Europe provides a space for continuous learning where the policymaking community in Europe can tap into the knowhow of experts and peers.



Did you know?

Regional bioeconomies can play a critical role in regional and rural development?

- ▢ Many bioeconomy projects are funded through the European Agricultural Fund for Rural Development (EAFRD). Rural Bioeconomy was one of the sub-themes of the broader European Network for Rural Development (ENRD) thematic work on 'Greening the Rural Economy' and has produced a number of relevant guidance documents.

- ▢ The importance of regional bioeconomy strategies and the fostering of a rural renaissance cannot be understated. This 2022 study maps and analyses the deployment of bioeconomy strategies at the regional level in the EU and this [technical report](#) estimates the employment and value added in the bioeconomy of EU regions.

- ▢ Here you can also read more in this [LIFT factsheet](#) on regional potential and bioeconomy strategies and implementation roadmaps.

- ▢ The BE-Rural project leaves behind an array of policy briefs on co-creation spaces in regional bioeconomies, bio-based business models, the ecological boundaries framing the bioeconomy in rural regions and more.

5 How do I develop a bioeconomy roadmap or strategy in my region?

Did you know?

Online platforms can help guide decision-makers and stakeholders to develop their regional bioeconomy strategies?

- ▢ If you now feel equipped enough to start developing a bioeconomy strategy for your own region, you can work with the POWER4BIO's [Bioeconomy Strategy Accelerator Toolkit](#).

- ▢ Explore the [BERST platform](#), which includes a catalogue of instruments and measures that will foster the development of regional bioeconomies.

- ▢ Dive into the [BIOEAST Virtual Toolbox \(VRT\)](#), which gathers and describes already existing tools from relevant partners or projects, which can support countries to develop their own national bioeconomy strategies on the basis of regional and local experiences.

6 What upcoming EU bioeconomy projects should I look out for?

Did you know?

Several EU bioeconomy projects will be producing new material in the coming years, which you will not want to miss.

- ShapingBio (2022-2025) - Shaping the future bioeconomy across sectoral, governmental and geographical levels.

- CEE2ACT (2022-2025) - Empowering the Central and Eastern European Countries to Develop Circular Bioeconomy Strategies and Action Plan.

- BIOMODEL4REGIONS (2022-2025) - Supporting the establishment of the innovative governance models to achieve better-informed decision-making processes, social engagement and innovation in the bio-based economy.

- ROBIN (2022-2025) - Deploying circular BIOecoNOMies at Regional level with a territorial approach

- BIOLOC (2022-2025) - Biobased and social innovation to revitalise European local communities

- BlueRev (2022-2025) - Revitalisation of European local communities with innovative business models and social innovation in the blue bio-based sector

- RefreSCAR (2023- 2027) - Improved coordination of national and European bioeconomy research and innovation programmes in the ERA through strengthened SCAR Working Groups

- BioRural (2022-2025) - Accelerating circular bio-based solutions integration in ENRD rural areas

- MainstreamBIO (2022-2025) - MAINSTREAMING Small-scale BIO-based solutions across rural Europe via regional Multi-actor Innovation Platforms and tailored innovation support

- RuralBioUp (2022-2025) - Empowering EU Rural Regions to scale-Up and adopt small-scale Bio-based solutions: the transition towards a sustainable, regenerative, inclusive and just circular bioeconomy

- SCALE-UP (2022-2025) - Concepts, tools and applications for community-driven bioeconomy development in European rural areas

- BIOTRANSFORM (2022-2025) - Circular BIOeconomy TRANSFORMATION for regions by enabling resource and governance networks

- HARMONITOR (2022-2025) - Harmonisation and monitoring platform for certification schemes and labels to advance the sustainability of bio-based systems

- STAR4BBS (2022-2025) - Sustainability Transition Assessment Rules for Bio-Based Systems

- SUSTCERT4BIOBASED (2022-2025) - Sustainability Certification for Biobased Systems

- 3-CO (2023-2025) - Concise Consumer Communication through Robust Labels for Bio-Based Systems

- SUSTRACK (2022-2025) - Supporting the identification of policy priorities and recommendations for designing a sustainable track towards circular bio-based systems