

SHAPING THE INNOVATION ECOSYSTEM FOR THE BIOECONOMY

Every Wednesday from
the 25/03/2020 to
15/04/2020
11:00 CET

Four thematic webinars

www.lift-bbi.eu/webinars • www.bioeconomy-library.eu



SHAPING THE INNOVATION ECOSYSTEM FOR THE BIOECONOMY

Webinar 2/4

POLICY FRAMEWORK

- **Standardisation, LCA, labelling and regulatory hurdles**
- **Regional potential and bioeconomy strategies and action plans**
- **Stakeholders engagement and co-creation**

1 April 2020
11.00 CET
Duration: 60 min

Challenges,
Gaps, Results and
Recommendations



www.lift-bbi.eu/webinars www.bioeconomy-library.eu





The webinar will be recorded



Questions can be raised via the Q&A panel. We will try to answer them during the webinar itself.
Where we can't we will answer them afterwards.



We welcome your contribution! Be ready with your cell phone
Go to www.menti.com - access code: 216181



Slides, Recording, Q&A document, and Report in the interactive session will be
available at <https://www.lift-bbi.eu/webinars/events/webinar-2-policy-framework/>



1

Provide a global vision of objectives and results of past and ongoing Coordination and Support Actions (CSA) (FP7, H2020, BBI JU, Erasmus+ and Interreg)

2

Maximise the impact of CSAs results, making them readily available, integrated and especially actionable by industries and policy makers

3

Analyse the existing gaps and identify the challenges to be addressed

4

Raise awareness and communicate the CSAs' contribution in addressing the Bioeconomy related challenges

5

Provide actionable recommendations and suggestions for new CSA topics

<https://www.lift-bbi.eu/>

- **Analysis of ongoing and concluded CSAs and CSAs like projects (62)**
- **Increase adoption and improve the use of CSAs' findings (11 Fact sheets)**
 1. Awareness raising
 2. Bioeconomy Education
 3. Stakeholders engagement and co-creation
 4. Standardisation, LCA, labelling and regulatory hurdles
 5. Regional potential and bioeconomy strategies and implementation action plans
 6. Uptake of RTD results
 7. Foresight, market studies and market roadmaps
 8. Biomass availability, quality, supply and sustainability
 9. New value chains and business models
 10. Open innovation platforms and facilities
 11. Industrial road-mapping
- **Bioeconomy Library (<https://www.bioeconomy-library.eu>)**
- **Facilitate Mobilisation and Mutual Learning among projects (also from different programmes)**
- **Recommendations for future new CSA topics**



European Bioeconomy library

<https://www.bioeconomy-library.eu/>

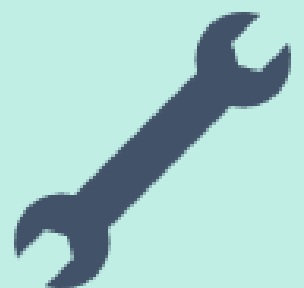
European Bioeconomy Network

<https://eubionet.eu>

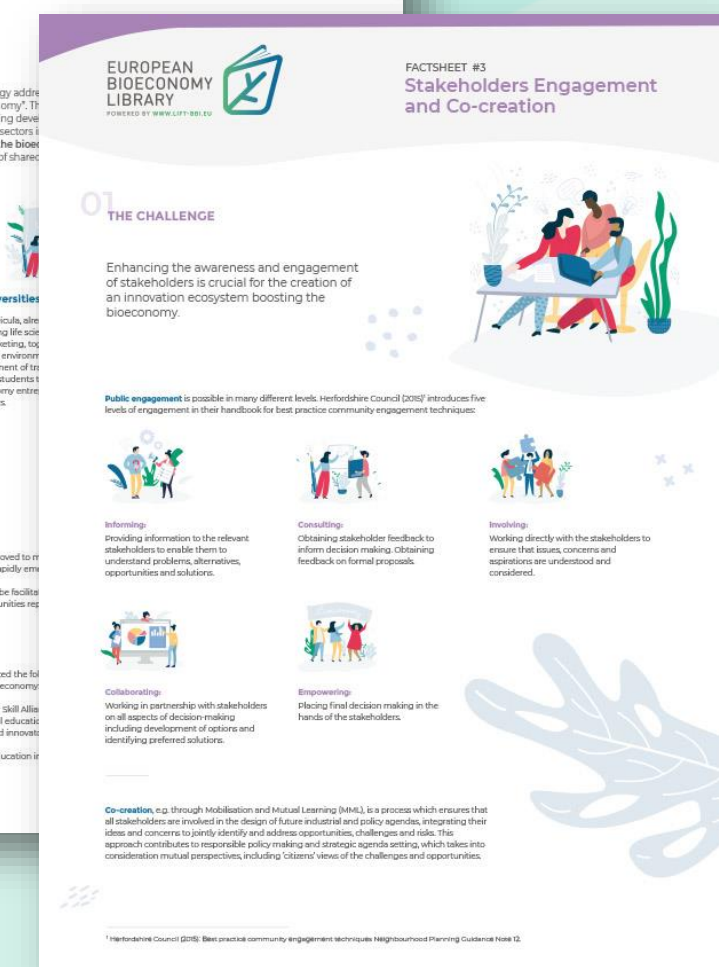
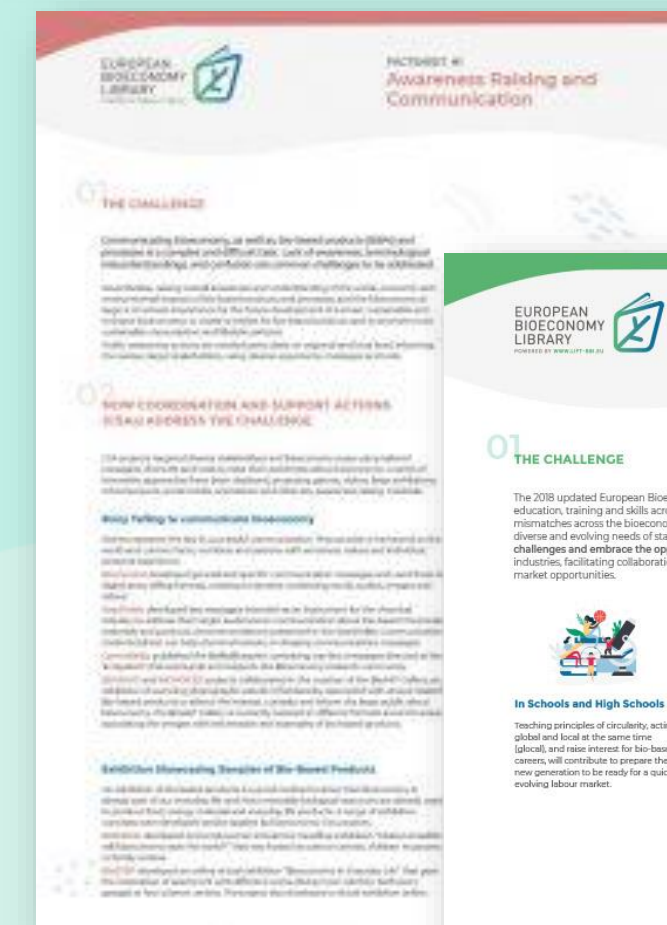
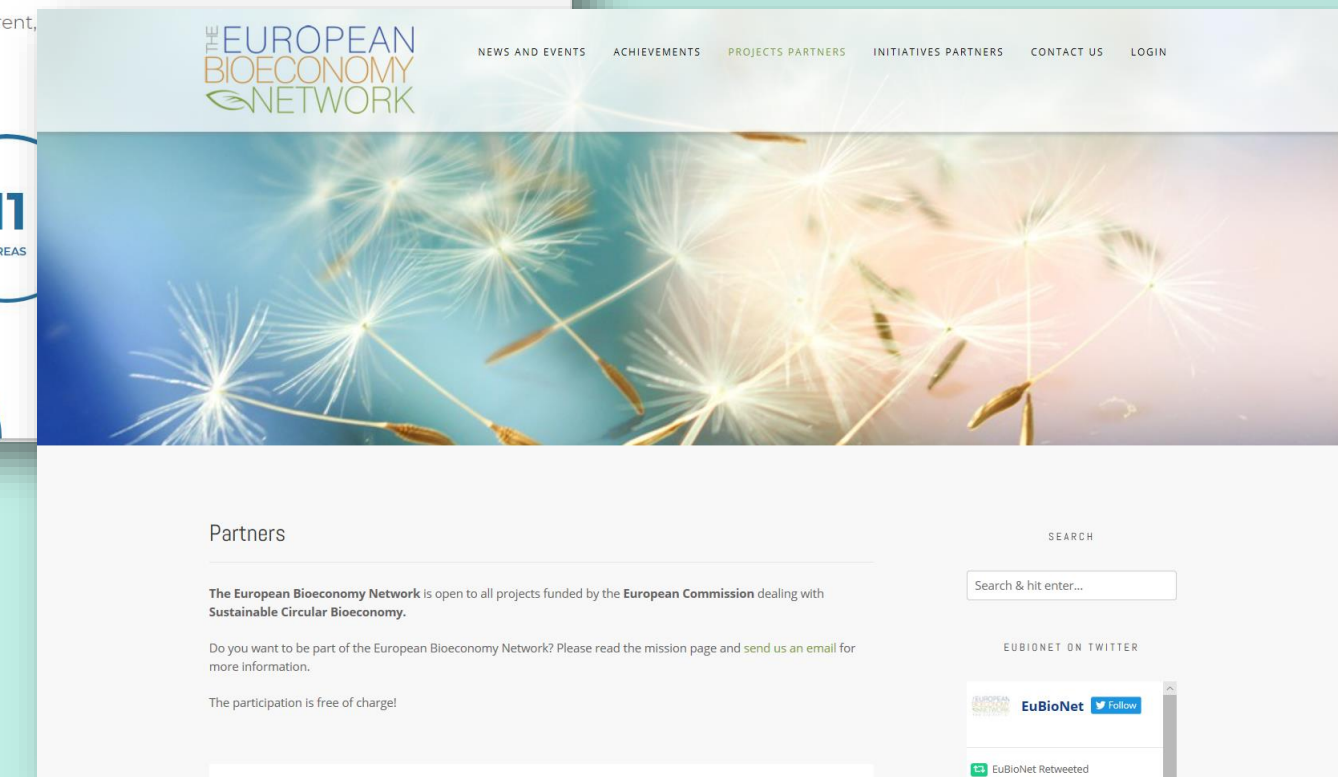
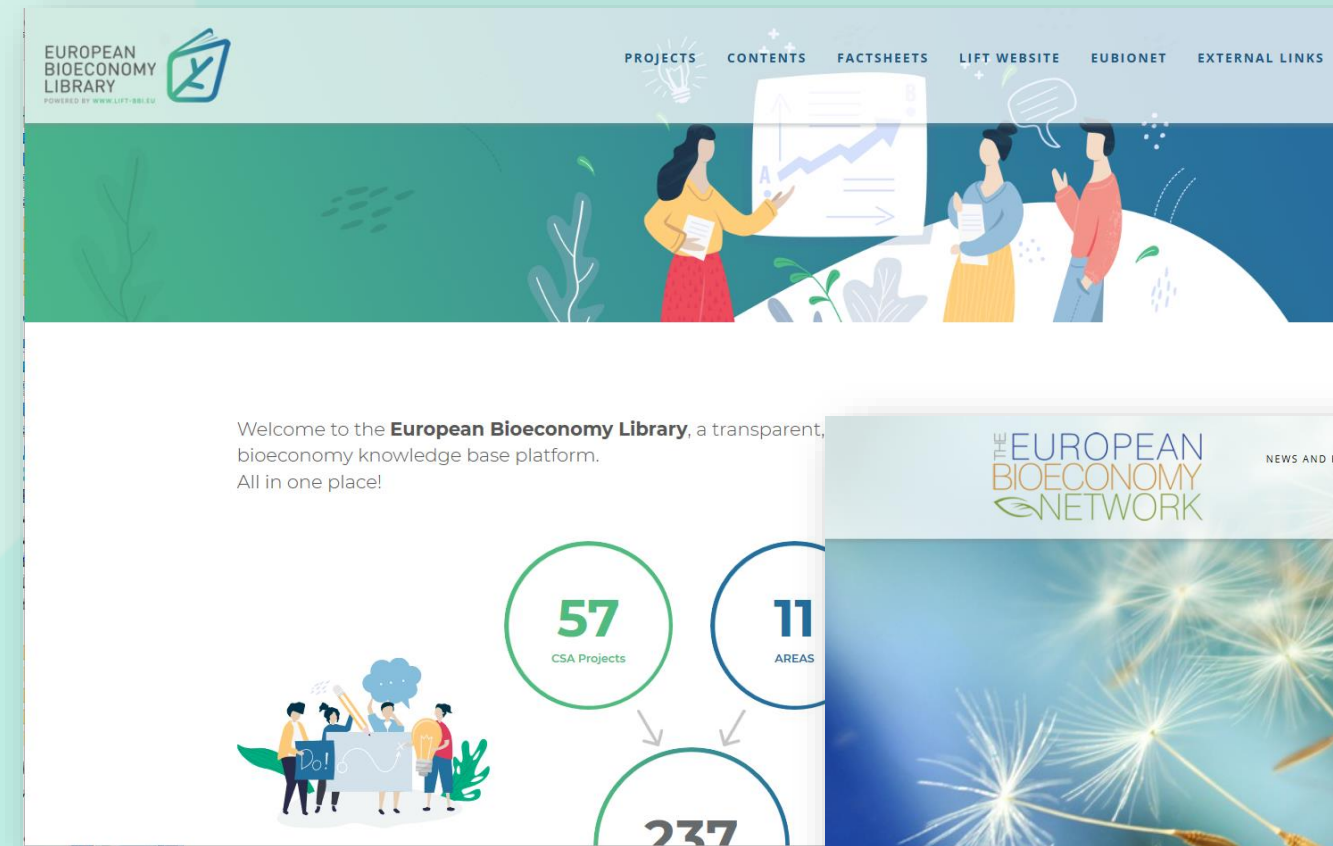


11 Thematic Factsheets

<https://www.bioeconomy-library.eu/>



Stakeholders-oriented recommendations for the innovation
ecosystem for the bioeconomy and for future new CSA topics
To be available (end of April in the LIFT website)



<https://www.lift-bbi.eu/>

1

To contribute to strengthening the bio-economy in six countries of Central, East and South-East Europe with fact-based information, the elaboration of evidence-based Action Plans and networking

2

To support the creation of concrete opportunities to expand and/or create industrial bio-based activities in BG, CZ, HR, HU, SI, SK (and at regional level)

3

To rise awareness on the benefits for the local economies, environment and society coming from bio-based activities

4

To provide the bio-based industry and sector with biomass availability reports on target countries and the region, as well as stakeholders inventories and national action plans

5

To rise awareness and mobilize stakeholders through national websites and social media as well as bioeconomy workshops, a joint final event @EUBCE and a network of “BBI Ambassadors”



CELEBio

Outcomes

QUANTITATIVE ASSESSMENT

CELEBio is consolidating available information to build updated datasets on the availability of sustainable biomass in the target countries

NATIONAL ACTION PLANS

CELEBio is developing strategic outlook jointly with local communities of practitioners that have been mobilized through focus groups. The action plans will be validated during national workshops and will contribute to fostering the shift to bioeconomy.

BIOMASS

STAKEHOLDERS

POLICY

AWARENESS

STAKEHOLDERS INVENTORY

CELEBio is building a database of companies that are active in sectors related to the bioeconomy in each of the target countries

BBI AMBASSADORS

CELEBio is establishing a network of focal points that will disseminate knowledge on bioeconomy opportunities **IN** target countries, but also to provide information to potential investors **ABOUT** them.



CELEBio



Resources



Global website

www.celebio.eu



National mini-sites










[www.\(country\).celebio.eu](http://www.(country).celebio.eu)

National Facebook pages



Standardisation, LCA, labelling and regulatory hurdles

Related projects/Sources:

Acronym/logo	Programme	Duration	Website
	BBI JU	Set 2016 - Aug 2019	www.star4bbi.eu
	FP7	Aug 2012 - Jul 2015	www.kbbpps.eu
	FP7	Nov 2013 - Oct 2016	www.open-bio.eu
	H2020	Mar 2015 - Feb 2018	www.innprobio.eu
	H2020	May 2017 - Apr 2020	www.star-probio.eu
	H2020	Jun 2018 - May 2022	www.biomonitor.eu
	FP7	Aug 2012 - Jul 2015	www.industrialbiotech-europe.eu
	BBI JU	May 2017 - Apr 2019	www.roadtobio.eu
BISO	FP7	Mar 2013 - Feb 2016	biobs.jrc.ec.europa.eu/
	Interreg NW Europe	Jan 2013 - Dec 2015	www.biobasenwe.org/en/home/



Standardisation, LCA, labelling and regulatory hurdles

CSAs projects' achievements

- ✓ Developing of **standardised methods to test bio-based products** for various properties;
- ✓ **Linking** regulators and standardisation organisations **with specific targets**
- ✓ Providing recommendations for standards and criteria for **eco-labels for bio-based products**;
- ✓ Identifying general and specific **regulatory barriers and hurdles** that may hinder the development of Europe's bioeconomy and suggest actions to overcome them.



Standardisation, LCA, labelling and regulatory hurdles

Gaps still to be bridged

STANDARDISATION

- ✓ The bio-based economy (BBE) covers a variety of domains (Agri-food, biotech, etc.). **The complexity of bioeconomy makes definition of regulations and horizontal standards**, applicable across all domains, **difficult**. The BBE is often regulated by **policies, legislation, standards derived from other domains**
- ✓ Need to **promote/develop standards/incentives** for bio-based products, particularly regarding: **end of life management, waste, compostability, and sustainability**.

LABELLING

- ✓ Need for a **clear, understandable and trustable labelling system** for the demand chain that is also accessible to SMEs
- ✓ **Existing labels are not easily applicable** to the complexity and different characteristics of bio-based products , and **need to be improved**

LIFE CYCLE ASSESSMENT

- ✓ How to benchmark life cycle assessment (LCA) and define thresholds for **sustainability assessment**? How to calculate the **impact** of a bio-based product compared to a fossil-based one, **including also externalities**? **How to simplify the process** for SMEs and start-ups?

REGULATIONS

- ✓ **Lack of consistency & harmonisation among different policies** (overarching regulations, new policies, among countries, etc.) and regulations.



Standardisation, LCA, labelling and regulatory hurdles

Recommendations

STANDARDISATION

- ✓ **Procurement as main driver:** provide standards better defining the characteristics of sustainable solutions
- ✓ **Better regulate** areas like end of life management, waste, compostability, sustainability with tailored legislation.

LABELLING

- ✓ **Improve existing labels**, making them more clear, understandable and trustable. Promote a wide and consistent implementation of standardised labels, as **they are a great tool to convey key information to consumers and the wider public**, increasing acceptance.

LIFE CYCLE ASSESSMENT

- ✓ Ensure the availability of **comparable data on environmental performance**. Support more LCA research and sustainability assessments.
- ✓ Ensure that future policies and incentives promoting large scale adoption of bio-based products are **based on scientific evidences** of positive impact.

REGULATIONS

- ✓ Support an **integrated and harmonised regulatory system**; identify gaps and hurdles, provide shared solutions to improve standards
- ✓ Promote the **harmonisation of regulations and policies**
 - ✓ Inside overarching regulations like circular economy, sustainability, climate change, etc.;
 - ✓ Between new regulations and existing regulations;
 - ✓ Between countries



Standardisation, LCA, labelling and regulatory hurdles

More info



Factsheet: Challenges to be addressed in standardisation, LCA, labelling and regulatory hurdles, projects' main results, gaps to be bridged and recommendations.



**Standardisation, LCA,
labelling and regulatory
hurdles**

Interactive discussion

MENTI.COM INTERACTIVE SESSION
CODE: 216181



Regional potential and bioeconomy strategies and action plans

Related projects/Sources:

Acronym/logo	Programme	Duration	Website
CELEBIO	BBI JU	Jun 2019 - May 2020	www.cei.int/events/celebio-kick-off-meeting
 BERST Building Regional Bioeconomies	FP7	Dec 2012 - Nov 2015	www.berst.eu
 BioSTEP	H2020	Mar 2015 - Feb 2018	www.bio-step.eu
CASA	H2020	Sep 2016 - Aug 2019	www.scar-europe.org/index.php/home-scar/support-activities-to-scar
 POWER4BIO Power for Bioeconomy	H2020	Oct 2018 - Mar 2021	power4bio.e-p-c.de
 BE-Rural	H2020	Apr 2019 - Mar 2022	be-rural.eu
 SmartPilots Innovating Europe	Interreg Europe	Apr 2016 - Mar 2020	www.interregeurope.eu/smartpilots
 BIOREGIO Innovating Europe	Interreg Europe	Jan 2017 - Dec 2021	www.interregeurope.eu/bioregio
 BIO4ECO Innovating Europe	Interreg Europe	Apr 2016 - Feb 2020	www.interregeurope.eu/bio4eco/
 Interreg Rural and Regions	Interreg B	Oct 2017 - Set 2020	http://www.rdi2club.eu/
 Interreg Danube Transnational Programme	Interreg B	Jan 2017 - Jun 2019	www.interreg-danube.eu/approved-projects/danubiovalnet
 BIOeast	H2020	Oct 2019 - Sep 2022	https://bioeast.eu/bioeastsup/
SHERPA	H2020	Oct 2019 - Sep 2023	https://www.nordregio.org/research/the-sustainable-hub-to-engage-in-rural-policies-with-actors-sherpa



Regional potential and bioeconomy strategies and action plans

CSAs projects' achievements

- ✓ Development of tools, instruments and approaches for benchmarking regional potentials, strategies, and roadmaps
- ✓ Establishing networks/clusters and facilitating regional stakeholders' engagement



Regional potential and bioeconomy strategies and action plans

Gaps still to be bridged

- ✓ It is difficult to **deploy** the political strategies **into Action Plans and Roadmaps**.
- ✓ “Green” is perceived by society as something secondary after primary needs. **Bioeconomy is not prioritised** enough in policy agendas as potential solution to address other urgent priorities (economic growth, unemployment, pollution, climate change).
- ✓ **Policies** like the Common Agricultural Policy (CAP), tourism, rural and costal development are **not integrated**. Several often **contradictory** strategies may confuse stakeholders.
- ✓ Some countries have already made advancements in the bioeconomy but there is a need to **better integrate circularity and sustainability** in the bioeconomy political agendas.
- ✓ There is the need to have **macro-regional specialisation as well as differentiation** when designing policies, strategies and funding schemes.
- ✓ There is **a lack of real collaboration involving all relevant stakeholders**, including primary producers, different industries, end users, consumers as well as regional authorities.
- ✓ Mutual learning and knowledge sharing is not easy, because the stakeholders have **different interests, languages, motivations and agendas**.
- ✓ Supporting Infrastructures and Clusters **facilitating mutual learning and sharing of good practices are needed**. There is a lack of inter-regional and intra-regional mutual learning.



Regional potential and bioeconomy strategies and action plans

Recommendations

- ✓ Support regional and national policy makers to develop **strategic circular and sustainable bioeconomy thinking** and to facilitate their interaction with local stakeholders.
- ✓ Expand the **assessment of the potential** of local resources (“Bioeconomy Readiness Level”) and the **identification of new opportunities and exploitation routes** to other countries and regions.
- ✓ Design smart specialisation strategies based on the available local/regional resources and co-created with local stakeholders. Such **bottom-up approach** in the design of bioeconomy strategies **ensures correspondence to the regional needs, problems, resources and specificities**.
- ✓ **Prioritize bioeconomy in policy agenda as potential solution to address other urgent challenges** (rural renaissance, economic growth, unemployment, pollution, climate change). Design bioeconomy policies to support circularity and sustainability.
- ✓ **Facilitate the deployment of the political commitment (strategies) into Action Plans (Contents) and Roadmaps** (with roles definition for the implementation).
- ✓ The impact of Bioeconomy Strategies, Roadmaps and Action Plans as well as the trade-off effects should be monitored to provide indications for **periodic revisions** facilitating the development of local bioeconomy innovation ecosystems.
- ✓ **Facilitate the discussion among the projects and initiatives** that support the bioeconomy innovation ecosystem, like the above EU-funded CSA and INTERREG projects, the SCAR Bioeconomy Strategic Working Group (BSW), the States Representatives Group (SRG) of the Bio-based Industries Joint Undertaking (BBI JU), the ENRD Rural Bioeconomy initiative and other relevant stakeholders, **to maximise the knowledge sharing and impact of their activities**.
- ✓ **Support macro-regional initiatives** to promote mutual learning, knowledge transfer, common understanding across regions and sectors building on the extensive results of past and ongoing projects and initiatives.



CELEBio

VALUE CHAINS

MARKET/ INDUSTRY

**POLICY/
FINANCING**

Domestic biomass
feedstock options
(WP2 country report)

Biomass/ biobased products
share in relevant market
segments
(WP2 country report)

Overarching policy &
commitments
(WP2 country report)

Can they be sourced
without distorting other
markets and increasing
competition? **(Local)**

Are there market related
targets where bioeconomy can
play a role?
(WP2 country report)

Is biomass included in the
overarching policy?
(WP2 country report)

Are current conversion
facilities efficient?
(Local)

Are there specific
projections for the role of
bioeconomy?
(WP2 country report)

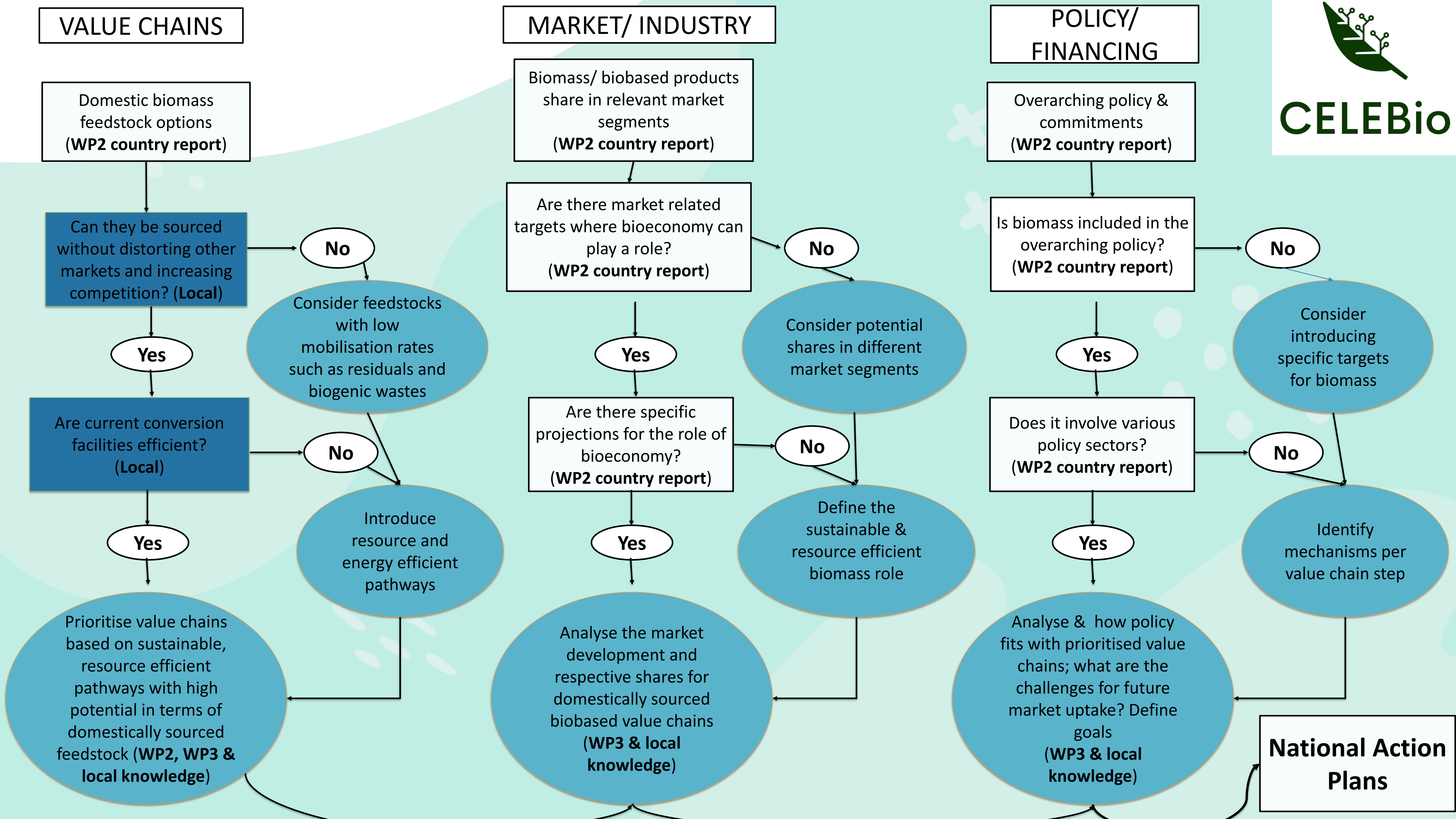
Does it involve various
policy sectors?
(WP2 country report)

Prioritise value chains
based on sustainable,
resource efficient
pathways with high
potential in terms of
domestically sourced
feedstock **(WP2, WP3 &
local knowledge)**

Analyse the market
development and
respective shares for
domestically sourced
biobased value chains
**(WP3 & local
knowledge)**

Analyse & how policy
fits with prioritised value
chains; what are the
challenges for future
market uptake? Define
goals
**(WP3 & local
knowledge)**

**National Action
Plans**



Main questions for national meetings



CELEBio

- Can biomass raw materials be sourced without distorting other markets and increasing competition? What are the risks from using biomass for biobased economy?
- Are current biomass conversion facilities efficient? If yes, why? If no, what actions do you suggest to improve them?
- Which biobased value chains would you like to see prioritised by future policy (including regulations and financing measures)?

For each recommended goals the following information will be included:



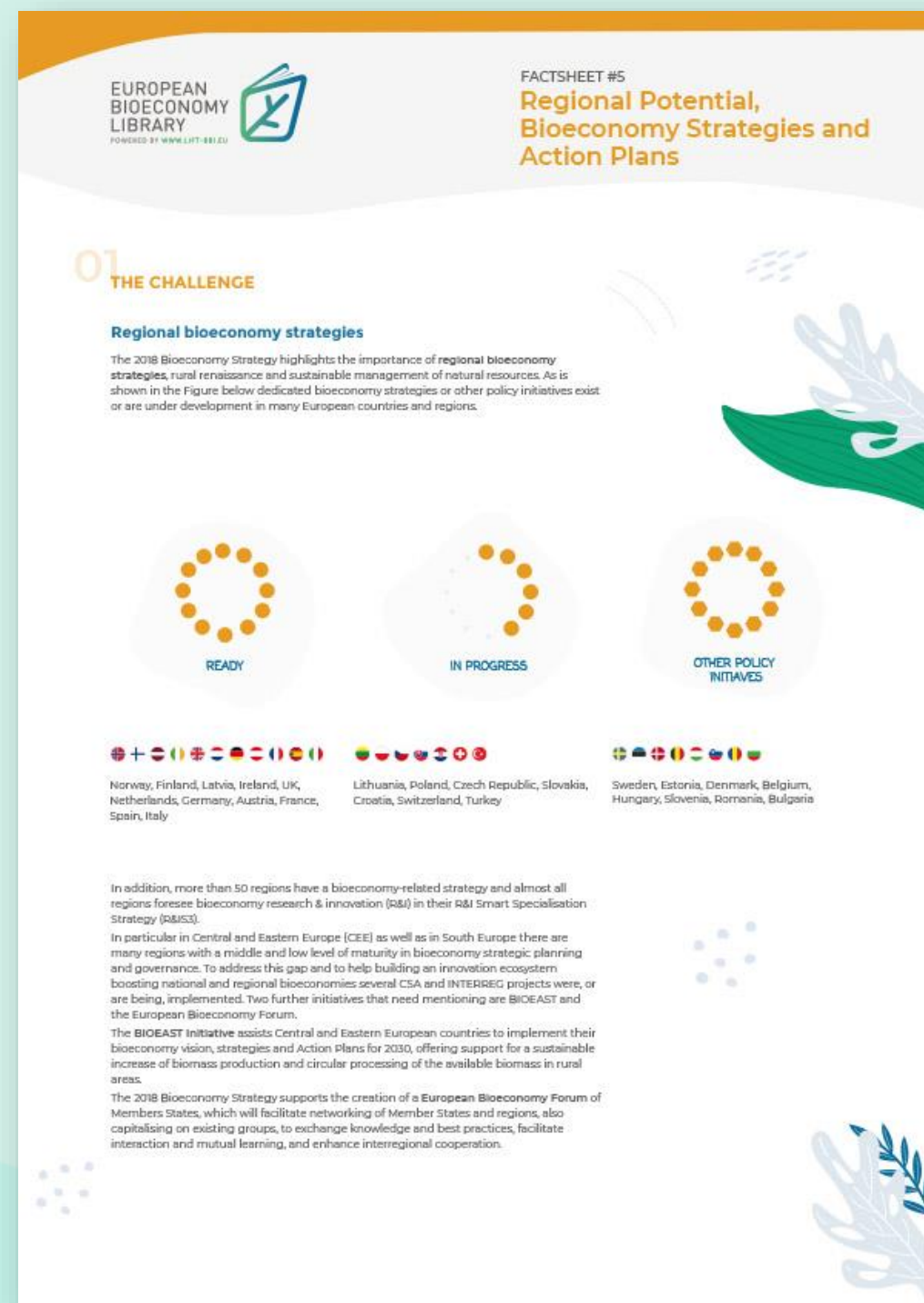
- What actions can be expected?
- Who will carry out these actions?
- By when they will take place, and for how long?
- What resources (i.e., human resources, infrastructure, etc.) are needed to carry out these changes?
- Communication (who should know what?)

Action	Timeframe	Who? Links to focus group actors plus SWOT issues: see Berien/ Wolter	Indicative cost/ relation to financing instruments	Who is doing it in European regions? Benchmark with frontrunners/ flagship/ other BBI initiatives/ lessons to be transferred



Regional potential and bioeconomy strategies and action plans

More info



[Factsheet](#): Challenges to be addressed in Regional potential and bioeconomy strategies and action plans, projects' main results, gaps to be bridged and recommendations.



**Regional potential and
bioeconomy strategies
and action plans**

Interactive discussion

MENTI.COM INTERACTIVE SESSION
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Stakeholders Engagement and co-creation

Related projects/Sources:



Acronym/Logo	Programme	Duration	Website
 BIOVOICES <small>CONNECTING BIO-BASED FORCES FOR A SUSTAINABLE WORLD</small>	H2020	Jan 2018 - Dec 2020	www.biovoices.eu
 biobridges	BBI JU	Sep 2018 - Aug 2020	www.biobridges-project.eu
 POWER4BIO <small>REGIONS FOR BIOECONOMY</small>	H2020	Oct 2018 - Mar 2021	power4bio.e-p-c.de
 BE-Rural	H2020	Apr 2019 - Mar 2022	be-rural.eu
 bloom	H2020	Nov 2017 - Oct 2020	bloom-bioeconomy.eu
 BioSTEP	H2020	Mar 2015 - Feb 2018	www.bio-step.eu
 Interreg North-West Europe BioBase4SME <small>European Regional Development Fund</small>	Interreg NW Europe	Mar 2016 – Aug 2019	www.bbeu.org/pilotplant/biobase4sme
 OPEN BIO	FP7	Nov 2013 - Oct 2016	www.open-bio.eu
 ROAD TO BIO	BBI JU	May 2017 - Apr 2019	www.roadtobio.eu/



Stakeholders Engagement and co-creation

CSAs projects' achievements

- ✓ Development and testing (experimenting) of **tools, instruments and approaches** to foster stakeholder engagement and co-creation **tailored to the national/regional context** and considering the diverse culture of participation.
- ✓ Provide **lessons learned, practical guidelines, methodologies and recommendations** for stakeholder engagement and co-creation.
- ✓ Creation and Mobilisation of a large **network of stakeholders**, facilitating the debate on bio-based products and bioeconomy at large.
- ✓ Systematic **mapping of the main challenges** to be addressed through multistakeholders collaboration and co-creation that are relevant to the current policy discussions.
- ✓ Provide insightful **knowledge about public acceptance of bio-based products** and **collaboration barriers** among stakeholders.
- ✓ Establishment of the **European Bioeconomy Network**, an alliance of 53 European projects and initiatives promoting bioeconomy. (<https://eubionet.eu/>)



Stakeholders Engagement and co-creation

Gaps still to be bridged

- ✓ Different levels of **knowledge, lack of trust and poor understanding** of the concerns and perspectives of others;
- ✓ **Insufficient support to bottom-up approaches and co-creation of shared solutions** with QH stakeholders;
- ✓ **Not all relevant actors are engaged and invited to contribute** (primary producers, policy makers, civil society, industries, finance, etc.), and therefore their priorities are not integrated into bioeconomy industrial and policy agendas;
- ✓ A standard approach cannot be applied across **diverse regions**;
- ✓ Framework to engage all relevant (local/regional) actors is missing. Poor connection with policy makers at regional and local level.



Stakeholders Engagement and co-creation

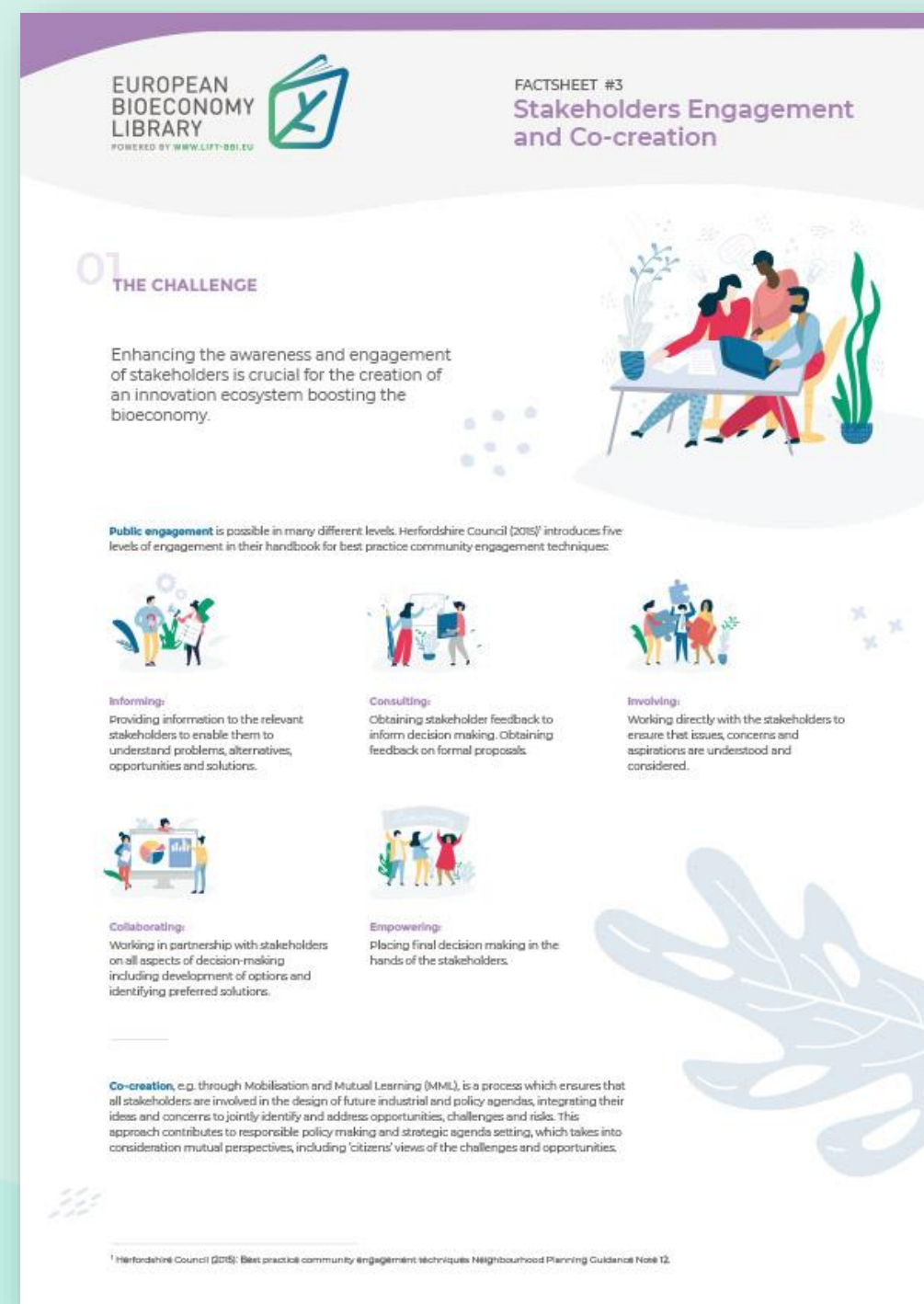
Recommendations

- ✓ **Ensuring multi-stakeholder engagement and mobilisation is key** for the creation of an innovation ecosystem for the bioeconomy. Make sure that all stakeholders are involved, including civil society, policy makers, primary producers, industries, finance, etc. that are often under-represented and less engaged in the debate.
- ✓ To address the **complex bioeconomy challenges**, **bottom-up co-design of shared solutions** capitalizes on the creativity and contribution of everybody, facilitating the trust, acceptance and sense of ownership of solutions created.
- ✓ The sharing of **success stories and good practices** contributes to the creation of a common awareness and understanding, facilitating motivation, inspiration and engagement of stakeholders. (Buffet of ideas)
- ✓ **Tailor** the stakeholder engagement activities, methodologies, and tools to regional resources, needs and problems. Set up supporting interfaces, clusters, platforms and hubs, promoting **stakeholders' engagement at different levels** (local, regional, national, and international).
- ✓ Foresee mechanisms to ensure: **transparency, integration of all perspectives**, identification of challenges that are **relevant** for all stakeholders and indicators to measure the impact.
- ✓ Provide **inputs, actionable knowledge and recommendations** tailored to the needs of policy makers (including regional and national authorities, EC, BBI JU) and other stakeholders (industries, research, civil society). Facilitate the **transfer and replication** of the successful methodologies experimented within the CSAs targeting stakeholder engagement and co-creation.



Stakeholders Engagement and co-creation

More info



Factsheet: Challenges to be addressed in Stakeholders engagement and co-creation, projects' main results, gaps to be bridged and recommendations.



Stakeholders Engagement and co-creation

Interactive discussion

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