



BBI JU KPIs & Impact Questionnaire explanatory note

2021

Purpose of this document

This is an accompanying note to the KPI & Impacts questionnaire, which is attached as an excel spreadsheet. The KPI questionnaire is addressed to the consortia of the ongoing and finished BBI JU projects and includes questions on BBI specific Key Performance Indicators (KPI) and expected impacts (socio-economic, environmental, others).

The coordinators are invited to consult the consortia and complete the questionnaire to indicate how the project contributes to the targeted research and innovation objectives of the BBI JU Programme and to its overall expected impacts.

Please note that the KPI & Impacts questionnaire has been slightly modified in comparison to the version used in 2020.

Please submit the completed questionnaire as a deliverable (in xls format – do not convert it into a pdf document) by 30th September 2021 or earlier if your project ends before this date. For any question, please contact us (info@bbi.europa.eu).

Objectives of the questionnaire

The questionnaire aims at assessing the projects' contributions to the BBI specific KPIs and expected impacts by 2024. The answers received via this questionnaire complement other BBI JU monitoring activities, such as the project periodic reporting and the deliverables.

The outcome of this questionnaire will contribute to the 2021 BBI JU Annual Activity Report (AAR). This KPI questionnaire has been developed in collaboration with the BBI JU advisory bodies, the Bio-based Industries Consortium and the European Commission.

It is crucial for BBI JU and its founding partners that you take the necessary time to complete the questionnaire and provide high quality input, both quantitative and qualitative. Please note that in the AAR and other communication outlets, data will be mainly published in an aggregated way but some examples will be also selected from our portfolio and described in more detail. **If any information you will provide is confidential and not to be published, please clearly indicate it in the questionnaire.**

Structure of the questionnaire & how to complete it

The questionnaire includes a series of questions addressing the **expected situation at the end of the project or by 2024 (the earliest date), assuming that the project will be successful.** For projects ending by September 2021, please indicate actual results / impacts by the end of your project.

Please **fill in the grey cells**, following the instructions given below:

The questions are divided in three sections:



- A general section with overall information on the project contributions
- BBI JU specific KPIs (1, 2, 4, 5, 6 and 8)
- Expected impacts and contribution to SDGs

Read below for more details.



Section1: General (Sheet 1)

General information: a summary table where you are requested to briefly describe the aspects related to the used **feedstock**, the main **technologies** and the **market sectors** of applications.

Project contribution to BBI JU specific KPIs: please indicate for each KPIs if your project contributes (“yes/no”). In case of a positive answer, please indicate

- the number of new bio-based cross-sector interconnections/value chains/building blocks/materials/ products, and
- a brief description
- please ensure consistency between the information provided in this section with the information provided in the other sheets for the KPIs

General information. Please complete the grey cells with the information requested

| | |
|---|--|
| Project name | |
| Feedstock(s) used | Please provide some details |
| Geographical origin of the feedstock(s) | Please specify to a level of country or region |
| Location where the feedstock is processed | Please specify to a level of country or region |
| Core technologies | Please provide some details |
| Products and market applications | Please provide some details |
| Regulatory issues | Please provide some details |

For each KPI and Impact, please report expected results by the **end of the project or by 2024 (the earliest)**. For projects finishing by **September 2021**, please indicate actual results by the end of your project

| Contribution to BBI JU specific KPIs | Please indicate (yes/no) to which of the following KPIs your project contributes. For each KPI where you contribute, please indicate briefly the number, the new bio-based interconnections, value chains, building blocks, materials or consumer products and give further information in the specific sheet | | |
|--|---|--------|--|
| | yes/no | number | Description (see example) |
| KPI 1- New cross sector interconnections | yes/no | | The project establishes a NEW interconnection between sector(s): XXX, XXX,... |
| KPI 2- New bio-based value chains (only DEMOs & FLAGs) | yes/no | | The project creates a new bio-based value chain using feedstock from XXX feedstock via XXX processing to deliver product XXX |
| KPI 4- New bio-based building blocks | yes/no | | The projects creates the following new bio-based building blocks: XXX, XXX,... |
| KPI 5- New bio-based materials | yes/no | | The projects creates the following new bio-based materials: XXX, XXX,... |
| KPI 6- New bio-based consumer products (only DEMO & FLAGs) | yes/no | | The projects creates the following new bio-based consumer products: XXX, XXX,... |
| KPI 8- 'TRL gain': validated technologies that fill gaps in value chains | yes/no | | Technology XXX fills the gap in a bio-based value chains and is brought to a higher TRL during the project |

Section 2: KPIs (Sheets 2-7)

The basis for the ‘KPI Questionnaire’ are the six KPIs indicated in the [SIRA](#) (p.62-63).

Please consider that **the quantitative KPI information should be always complemented by qualitative information**, including for each reported new bio-based cross-sector interconnection / value chain / building block / material / product its description and an explanation of why it is new.

- Fill in the spreadsheets related to the KPIs that are relevant to your project
- Fill in at least the information for the KPIs mentioned in your project and in the topic text of the call
- Include information on the project contribution to other KPIs, if applicable.
- In the questionnaire, several aspects of novelty (feedstock, technologies, markets, environmental performance, and functionalities among others) are reported. Please



select them for each of the new cross-sector interconnection / value chain / building block / material / product you reported.

Example: KPI 1 on new cross-sector interconnections

1. Provide a **number** and a **description** of each of the new cross-sector interconnection indicating in which way each of it is new.

| Number of interconnections: <i>Number</i> ← | New Interconnection 1 | New Interconnection 2 |
|--|---|---|
| Which are the interconnected sectors? <i>For each interconnection, indicate with an "x" the interconnected sectors Use a column for each of the reported interconnections (add more columns if necessary)</i> | <i>Describe interconnection 1 and explain why it is new</i> | <i>Describe interconnection 2 and explain why it is new</i> |

2. For each of the new cross-sector interconnection reported, indicate also the **sectors** that are interconnected.



| Number of interconnections: <i>Number</i> | New Interconnection 1 | New Intercon |
|--|---|---|
| Which are the interconnected sectors? <i>For each interconnection, indicate with an "x" the interconnected sectors</i> <i>Use a column for each of the reported interconnections/add more</i> | Describe interconnection 1 and explain why it is new | Describe interconnection 2 and explain why |
| Biomass origin | | |
| Agriculture (including residuals, and side streams and by-products of the agro-food industry) | | |
| Forestry (including forest-based sector and their residuals and side streams) | | |
| Aquatic & marine (aquatic organisms, fisheries and aquaculture sectors and their residues) | x | |
| Bio-based residues (including household and other urban bio-waste, sludge from wastewater treatment plants and discarded bio-based plastics and products (including post-consumer wood-based)) and CO2 | | |
| <i>Others (specify):</i> | | |
| Processing & manufacturing | | |
| Food & feed | | |
| Paper and pulp | | |
| Fishing and aquatic | | |
| Collection, separation and processing of organic waste | | |
| Industrial biotechnology (e.g. enzymatic processes) | x | |
| Chemical industry | | |
| <i>Other (indicate the sector, add new rows if applicable)</i> | | |
| End users | | |
| Packaging | | |
| Medical & healthcare | | |
| Personal care & cosmetics | | |
| Home care | | |
| Pharmaceutical | | |
| Food ingredients | x | |
| Feed ingredients | | |
| Textile | | |
| Automotive | | |
| Construction and built environment | | |
| Chemicals for agriculture | | |
| Equipment producers & designers | | |
| Adhesives | | |
| Coatings | | |
| Electronics | | |
| Biofuels & Bioenergy | | |
| Bioplastics <i>(only if different from Packaging)</i> | | |
| Biomaterials <i>(only if different from any other of the above mentioned)</i> | | |
| <i>Other sectors (indicate the sector)</i> | | |

3. For each new interconnection reported, also select with an "X" its aspects of novelty.



| | | | |
|----|---|-----------------------------------|-----------------------------------|
| 39 | Other sectors (indicate the sector, add new rows if applicable) | | |
| 40 | In which aspects are the cross-sector interconnections new? (select with an "x") | | |
| 41 | Feedstock | | |
| 42 | New type of biomass | x | |
| 43 | Combining different existing feedstock | | |
| 44 | Others (specify): | | |
| 45 | Technologies | | |
| 46 | New technologies | | |
| 47 | Combining different existing technologies | x | |
| 48 | Others (specify): | | |
| 49 | Markets | | |
| 50 | New markets/products | x | |
| 51 | Combining different existing markets | | |
| 52 | Others (specify): | | |
| 53 | Supply chain management | | |
| 54 | New business models | | |
| 55 | Combining existing business models | | |
| 56 | Vertical integration along the value chain with suppliers, end users | | |
| 57 | Cascading approach | x | |
| 58 | New eco design (circularity) | | |
| 59 | Others (specify): | | |
| 60 | Regions | | |
| 61 | New or innovative regional interconnections or co-operations | | |
| 62 | Others (specify): | | |
| 63 | Others new bridges creating cooperation between the different sectors and actors (specify): | | |
| 64 | For each new interconnection, please provide a clear explanation of all the aspects selected with a "x" | Explanation for interconnection 1 | Explanation for interconnection 2 |
| 65 | Explain how you are going to collect and validate this information | | |

- For each new interconnection reported, please provide an overall description of the aspects selected with an "X".

Section 3: Impacts and SDGs (Sheet 8)

Impacts: BBI JU is expected to have significant impacts on bio-based economy in Europe including creation of new jobs, contribution to circular economy, increased competitiveness of European companies, scientific, environmental and regional impact.

- Provide feedback on how your project contributes to the expected impacts in the following areas: **science and socio-economics, environment, biodiversity, impact on feedstock producers and rural / coastal development, health & safety and standards, regulations and policies.**
- We strongly encourage each consortium to provide quantitative estimates as far as possible and welcome the provision of additional qualitative information** that allows us to better understand the impact of the project in the bigger picture of the bio-based industries in Europe.



Example: environmental impact

| Environmental impact | Provide a brief explanation for the selected elements | I |
|--|---|---|
| Utilization and recycling of CO2 from technical processes | | |
| Reduction of GHG emissions | | |
| Improved energy use efficiency | | |
| Improved water use efficiency | | |
| Improved land use (sustainable intensification, reduced land use) | | |
| Waste reduction, reuse, recycling or valorization | | |
| Sustainable management of natural resources (e.g. forest management) | | |
| Others (specify): | | |

Sustainable Development Goals: at the end of the impact sheet, please indicate the project's contributions to the UN SDGs and please explain why.

| Contributions to Sustainable Development Goals | Full description (See Goal 12 targets) | yes/no | If yes, please explain |
|--|---|--------|------------------------|
| 11. NO POVERTY | https://www.un.org/sustainabledevelopment/poverty/ | | |
| 12. ZERO HUNGER | https://www.un.org/sustainabledevelopment/hunger/ | | |
| 13. GOOD HEALTH & WELL-BEING | https://www.un.org/sustainabledevelopment/health/ | | |
| 14. QUALITY EDUCATION | https://www.un.org/sustainabledevelopment/education/ | | |
| 15. GENDER EQUALITY | https://www.un.org/sustainabledevelopment/gender-equality/ | | |
| 16. CLEAN WATER & SANITATION | https://www.un.org/sustainabledevelopment/water-and-sanitation/ | | |
| 17. AFFORDABLE & CLEAN ENERGY | https://www.un.org/sustainabledevelopment/energy/ | | |
| 18. DECENT WORK & ECONOMIC GROWTH | https://www.un.org/sustainabledevelopment/economic-growth/ | | |
| 19. INDUSTRY, INNOVATION & INFRASTRUCTURE | https://www.un.org/sustainabledevelopment/infrastructure-industrialization/ | | |
| 20. REDUCED INEQUALITIES | https://www.un.org/sustainabledevelopment/infrastructure-industrialization/ | | |
| 21. SUSTAINABLE CITIES & COMMUNITIES | https://www.un.org/sustainabledevelopment/cities/ | | |
| 22. RESPONSIBLE CONSUMPTION & PRODUCTION | https://www.un.org/sustainabledevelopment/sustainable-consumption-production/ | | |
| 23. CLIMATE ACTION | https://www.un.org/sustainabledevelopment/climate-change-2/ | | |
| 24. LIFE BELOW WATER | https://www.un.org/sustainabledevelopment/oceans/ | | |
| 25. LIFE ON LAND | https://www.un.org/sustainabledevelopment/biodiversity/ | | |
| 26. PEACE, JUSTICE & STRONG INSTITUTIONS | https://www.un.org/sustainabledevelopment/peace-justice/ | | |
| 27. PARTNERSHIPS FOR THE GOALS | https://www.un.org/sustainabledevelopment/globalpartnerships/ | | |

A link to the description of the specific targets of each SDG is provided in the questionnaire.