

Accompanying document for BioMonitor data platform

October 2021 (M41)

D3.3:

Authors: Nicolas Hark (nova); Hugo González Hermoso (subcontractor)

Monitoring the Bioeconomy



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Technical References

Project Acronym	BIOMONITOR
Project Title	Monitoring the Bioeconomy
	Justus Wesseler
Project Coordinator	Wageningen University
	justus.wesseler@wur.nl
Project Duration	June 2018 – May 2022 (48 months)

Deliverable No.	D3.3
Dissemination level ¹	
Work Package	WP 3 - Methodology development and creation of the BioMonitor Data Platform
Task	T 3.5 - Filling the data gaps in the bioeconomy database
Lead beneficiary	17 (NOVA)
Contributing beneficiary(ies)	8 (CBS), 10 (JRC), 13 (WEcR)
Due date of deliverable	31 May 2021
Actual submission date	07 October 2021

¹ PU = Public

- PP = Restricted to other programme participants (including the Commission Services)
- RE = Restricted to a group specified by the consortium (including the Commission Services)
- CO = Confidential, only for members of the consortium (including the Commission Services)

Docu	ment history		
V	Date	Beneficiary	Author
1	Oct. 7 th 21	NOVA	Nicolas Hark, Hugo González Hermoso
2	Dec. 10 th 21	NOVA	Nicolas Hark, Hugo González Hermoso
3	Jan. 21 st 22	NOVA	Nicolas Hark, Hugo González Hermoso





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1	THE BIOMONITOR DATA PLATFORM	. 4





1 The BioMonitor data platform

How to access it, how it is structured, what can be found on the platform

In this document, information can be found regarding:

- How to access the BioMonitor data platform
- How the BioMonitor data platform is structured
- Which information can be found on the platform

Detailed information on the respective indicators included in the DataM dashboards can be found in the DataM BioMonitor section.

2 Structure of each indicator results

Using the *Bioeconomic shares* indicator as a reference, we will have three result elements for each indicator:

- Dataset
- Dashboard
- Publications related to the indicator.

For each indicator, there is content in DataM, which can include the following items as seen in the picture below:

- Info (mandatory)
- Dashboard (optional)
- Query (optional)
- Download [to download the dataset] (optional)

Once published, each indicator dashboard will include mandatory meta information on the data set and the methodologies behind it. This information will be included in the '**Info**' section of each dashboard together with a more extensive fact sheet including all relevant information regarding the indicators in the dashboard. The fact sheets will include information on the relevance, methodologies, metrics, data sources and limitations of each dashboard.





BIC		OR - Bioed	onomic	shares
bioe the I BIO	conomy for JK, and 16	f the national ir 27 European industries, res H2020 project	Union Mem ulting from a	ber States plus a study of the
	1 Info	Dashboard	Query	Download (566 KB)
	Publish	ed: 10/03/2021	Updated: 16	6/04/2021

The Info section, which is available for each indicator, contains a description of the content and the references to the related publication and the people who have participated.

IOMONITOR - Bioeconomic shares			
BIOMONITOR - Bi	oeconomic shares		
BIOMONITOR project financed by Ho States plus the UK, and 16 industries	izon 2020. The study measures the dev of BioMonitor scope from 2005 to 2015. or the majority of the MS the value adde	the EU Bioeconomy: An Input-Output Approach" developed in the context of the expense of the national income share of the bioeconomy for 27 Europeen Union The paper proposes a model which inclusions the up- and dominaterum integers and of of the up- and downstream sector is at the band of 40%–50% of the total bioeco	ing Input-
99 Data citation text		Methodology / publication(s)	© Licence
Wim; Wesseler, Justus Bioeconomic shares. E Research Centre (JRC) <u>http://data.europa.eu/85</u> 0945a733ff93*	h/cde85443-3e27-4b52-8349-	& Cross Country Measurement of the EU Boeconomy. An Insut-Output accessed: C	European Commission Reuse and Copyright Notice 🕻
General info		Dataset spatial coverage	
Language:	English	Geographic area:	European Union
Main EuroVoc domain:	16 ECONOMICS	Bounding box W:	-10.478556
Additional Eurolloc domain		Rounding hox S:	24 622204672204

The '**Dashboard'** button opens the dashboard created for the indicator. The dashboards include interactive visualisations of the data provided for the respective indicator. The figures and visualisations can also be downloaded from the dashboards for further dissemination.

The '**Query'** button opens a new page, the query panel, which allows the user to consult the dataset and apply different filters to the dataset.





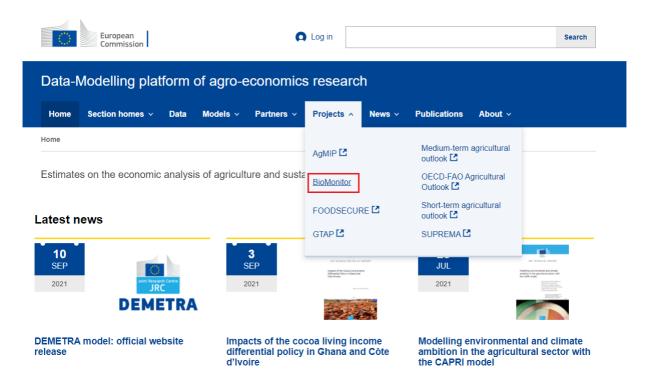
		BE Shares -	Query	
We	recommend to users that download Da	taM data to subscribe to the new	sletter from the home page of the site, in order to t	be informed by email about possible data corrections or updates. Subscribe to newsletter
din	ase establish the filters for the diff nension. id the Ctrl key to select additional		eries. It is mandatory to select at least one ele	ement for each Q. Let S. Let S
	iu trie otri key to select autitorial	elements, noid the shint key	to select aujacent elements.	
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+ 0	country - (Please select at least one	element)		- Year - (All years selected)
				Year 366 366 367 308 369 381 381 3813 3814 398
— s	ector - (Please select at least one e	ement)		+ Measures - (All measures selected)
If you h	ave the list of elements in a file, you may u	se the List submission tool	Export as 🔊 Enter filter onteria	
	Name 📰	ы	Complete Name	
	Accomodation and food services	65756	55T56: Accomodation and food services	
	Agriculture, forestry and fishing	01T03	01T03: Agriculture, forestry and fishing	
	All sectors	Available Total	Available Total: All sectors	
	Arts, entertainment, recreation and other service activities	90796	90T90: Arts, entertainment, recreation and other service activities	

The Download button downloads the complete dataset in a '.csv' file.

3 BioMonitor project page in DataM

This perspective was created in <u>DataM</u> specifically for BioMonior and for supporting different contents, which can be grouped by an overall common project.

It is possible to navigate to the page dedicated to BioMonitor in <u>DataM</u> using the menu option:



Hover over the '**Projects**' button to open the drop-down menu. In the drop-down menu, a direct link to the <u>BioMonitor data platform</u> can be found.



All content related to BioMonitor, which is included in DataM is accessible on the linked website of the <u>BioMonitor data platform</u>.

Data-Mode	elling platform of agro-ed	CC	onomics research		
Home > Biomonitor					
biomon Monitoring the B			BioMonitor projec	t pa	ige
	Official website:	: <u>h</u>	ttps://biomonitor.eu		
BioMonitor addres	ses the information gap in bioeconomy research by project is to get a clearer pictu		structuring its existing data and modelling frame of how bioeconomy affects our lives.	work. T	The ultimate goal of the
News					
06/04/2021 - <u>Bioecon</u>	omic shares - new dashboard/study				
Open data Bieconomic shares					
Dashboard Open Data page					
Publications					
Publication (1 sel	ected over 83 loaded in DataM)				
We upload in DataM all	relevant publications from 2020. For the past we include a select	tion	of key papers related to our datasets, models, or website sec	tions	
Date q	Title	Q	Cover's authors	Q	
10/03/2021	A Cross-Country Measurement of the EU Bioeconomy: An Input–Output Approach		Cingiz, K; González-Hermoso, H; Heijman, Wesseler, JHH	W;	

The page also shows a section for **News** where all the news related to BioMonitor is accessible. The dashboard and the open data page for each indicator are accessible from the section **Open data** with direct links to the **Dashboard** and the **Open Data page**. The **Publications** section shows all the potential publications available regarding the specific indicator.





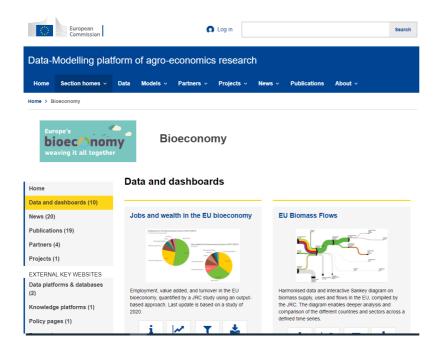
4 The BioMonitor content in DataM

Indicator contents

The content created for each indicator can be found in DataM grouped in the *Bioeconomy* section, which is located in the drop-down menu of the *Section homes* on the main page. This link opens the <u>Bioeconomy section</u> directly.

	European Commission		C Log in	Search
Data-N	lodelling platfor	m of agro-econom	nics research	
Home	Section homes A Dat	ta Models v Partners	v Projects v News v Publications About v	
Home	Agriculture & economics	Food and nutrition security		
Estimate	<u>Bioeconomy</u> Climate change	Food chain PANAP network	stainable resources.	
Latest n	Covid-19	Technologies in agriculture		
10 SEP 2021	Janit Responsible Control IDC	3 SEP 2021	RESERVENT AND ADDRESS	rusha

In the '**Bioeconomy**' section of DataM, there are several sub-sections with content related to BioMonitor and other projects.





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On the page 'Data and dashboards' the content related to the overarching topic 'Bioeconomy' is located. In this section, there are additional information and contents which are unrelated to the BioMonitor project but provide additional information and figures of the European bioeconomy. The option 'Data and dashboards' shows the indicator contents described in the first section.

As for the '**News'** sub-page, it shows all the news related to Bioeconomy content, not just the BioMonitor news. When new content is published, it can be highlighted in the '**News'** section, which is also shown in the landing page view of DataM for a certain amount of time in the field 'Latest News'.



Estimates on the economic analysis of agriculture and sustainable resources.

Latest news				
10 SEP 2021 June Research Control JRC	3 SEP 2021	THE SECRET FOR ALL PARTY.	28 JUL 2021	AT CONTRACTOR
DEMETRA				
DEMETRA model: official website release		cocoa living income cy in Ghana and Côte		onmental and climate agricultural sector with el

More news >





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The sub-page '**Publications'** follows the same logic, in this case for publications related to the Bioeconomy.

Home		
Data and dashboards (10) News (20)	The second secon	A Cross-Country Measurement of the EU Bioeconomy: An Input- Output Approach
Publications (19)	The space intervention that the SML and the Advances of the SML and the SML an	Year: 2021
Partners (4) Projects (1) EXTERNAL KEY WEBSITES Data platforms & databases (2) Knowledge platforms (1)		Authors: Cingiz, K; González-Hermoso, H; Heijman, W, Wesseler, JHH Journal: Sustainability Abstract: This paper measures the development of the national income share of the bioeconomy for 28 European Union Member States (MS) and 16 industries of BioMonitor scope from 2005 to 2015. The paper proposes a model which includes the up- and downstream linkages using Input-Output tables. The results show that for the majority of the MS the value added of the up- and downstream sector is at the band of 40%–50% of the total bioeconomy value added and has on average increased since the financial crisis.
Policy pages (1)		
Research programmes pages (3)	<image/> <section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header>	 Improved modelling framework for assessing the interactions between the energy, agriculture, forestry and land use change sectors Year: 2021 Authors: Sahoo, A; Pérez-Domínguez, I; Mubareka, S; Fiorese, G; Grassi, G; Pilli, R; Himics, M; Blujdea, V. N. B.; Witzke, P; Follador, M, Neuwahl, F; Salvucci, R; Rozsai, M; Kesting, M Journal: Publications Office of the European Union Abstract: This report is an attempt to develop a modelling framework integrating different sectoral stand-alone models used at the JRC for policy impact assessment in the fields of agriculture, forestry, land use change and energy. The proposed quantitative framework should improve the capability of assessing greenhouse gas emissions and removals resulting from complex interactions between the agriculture, forestry, and other land use (AFOLU) sectors, and facilitate the analysis of policy scenarios relevant for a sustainable and carbon-neutral European economy. Four models are considered, for which a revised model specification and harmonization of relevant databases and model parenters is needed. The Common Agricultural Policy Regionalized Impact (CAPRI) Modelling System is a widely used large-scale multi-commodity agricultural economic model. The Land Use-based Integrated Bustontibly. Assessment Integrated Integrated

Read more ...

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On the sub-page '**Projects'**, the projects related to the Bioeconomy in DataM are listed and introduced. For now, only BioMonitor is listed and introduced in this section as a bioeconomy-related project displayed in DataM.

Europe's bioecnom weaving it all together	Bioeconomy
	Projects
ne	
ta and dashboards (10)	
ws (20)	BioMonitor 🖸
. ,	BioMonitor addresses the information gap in
blications (19)	bioeconomy research by re-structuring its
ertners (4)	existing data and modelling framework. The
rojects (1)	ultimate goal of the project is to get a clearer
XTERNAL KEY WEBSITES	picture of how bioeconomy affects our lives.
ata platforms & databases 2)	biomonitor
Knowledge platforms (1)	Monitoring the Bioeconomy
olicy pages (1)	This is the link to the DataM area dedicated to
esearch programmes pages	the project
)	(https://datam.jrc.ec.europa.eu/datam/project/BIOMONITOR)
	The official project web page
	is <u>https://biomonitor.eu</u>

The BioMonitor information page under '**Projects**' contains the direct links to the project homepage and the DataM content related to BioMonitor.

5 Next steps

To complete the database and eventually accomplish the deliverable D3.3 as soon as possible, several important next steps will be taken. The dashboards that have already been prepared and cover several of the final indicators are currently being double-checked regarding potential data inaccuracies or issues in the visualisation. Once these dashboards are confirmed to be accurate, they may be considered for publication. There are also a few remaining indicator dashboards yet to be created with the respective data currently being integrated into the database.

While the dashboards and visualisations are being completed in the database, there are also socalled fact sheets being prepared as a guidance document for each dashboard. The indicator fact sheets include meta information on each indicator regarding data sources, derivation and calculation of the metrics, explanations on how to handle and interpret the data, who the respective author and reference for this output is, and more.



The already published <u>dashboard on the bioeconomic shares</u> serves as a specimen and shows how the dashboards are going to look like and how the information is presented.

Once a dashboard is confirmed by the respective partner to be accurately double-checked and the accompanying fact sheet is prepared, the dashboard will be published in the DataM database for everyone to find, use, extract and disseminate.



