



science and policy
for a healthy future

HBM4EU project

How to prepare your data for
sharing

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2nd HBM4EU Training School 2018

Sharing data with HBM4EU

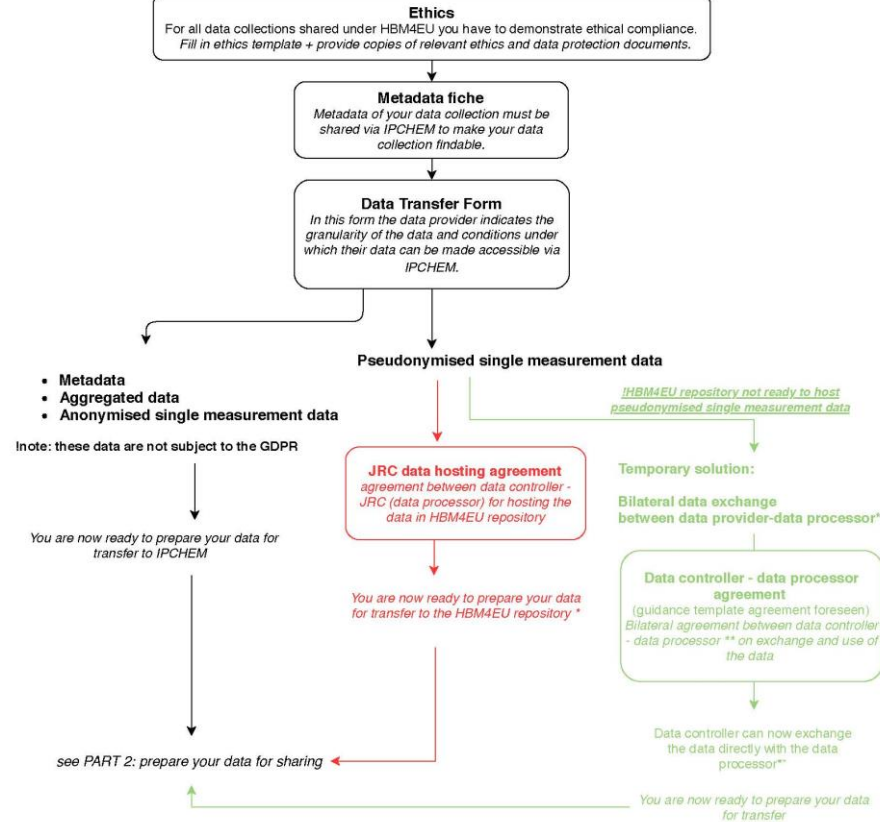
Steps for data providers:

1. Prepare and submit documents for data sharing
2. Prepare your data for sharing

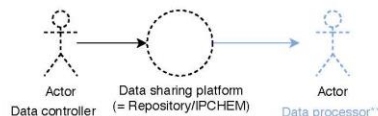
Process of sharing data: What are the steps for data providers

Data provider

Part 1: Prepare and submit documents for data sharing



**Data processor is the data user, who can process the data on behalf of the data controller.
*HBM4EU repository is a secured and restricted part of IPCHEM



Process of sharing data:

What are the steps for data providers

Ethics	Metadata	Data transfer Agreement
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For all datasets (anonymised as well as pseudonymised) used for research under HBM4EU it is **required that you demonstrate ethical approval of the study** by submitting required ethics documents to the:

project coordinator (Marika Kolossa: HBM4EU@uba.de)

ethics coordinator of the project (Lisbeth Knudsen: liek@sund.ku.dk)

Required ethics documents:

- Ethics template
- Template of the informed consent form
- Copy of information leaflet
- Copy of ethical approval
- Copy of data protection approval (if applicable)
- ...

- ! no work for HBM4EU can commence before the coordinator and Lisbeth Knudsen receive
- confirmation that the study has been approved by your in-country ethics committee

Process of sharing data:

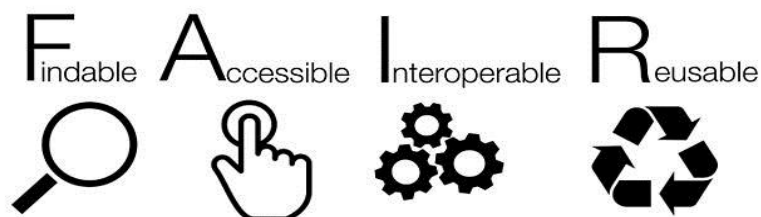
What are the steps for data providers

Ethics

Metadata

Data transfer Agreement

Metadata - “a set of data that describes and gives information about other data”
Collects information about your dataset NOT actual data



Metadata fiche

Metadata of all HBM data sets used in HBM4EU must be integrated into the IPCHEM portal website and made accessible to all user groups to ensure that the datasets are findable. The metadata shall be provided by filling out the **HBM4EU metadata template**.

Process of sharing data:

What are the steps for data providers

Ethics

Metadata

Data transfer Agreement

Using this form, the Data Contact Point communicates the conditions under which they agree to make chemical monitoring data, together with the associated metadata, accessible via IPCHEM and via the HBM4EU repository.

Aggregated or Single measurement data	Format	Share	Accessible via	HBM4EU project group	EU Commission and EU Agencies	EU National bodies	General Public
Aggregated data (that can be considered anonymous)	HBM4EU format	<input type="checkbox"/> YES	<input type="checkbox"/> IPCHEM portal website	<input type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> YES
				<input type="checkbox"/> NO	<input type="checkbox"/> NO	<input type="checkbox"/> NO	<input type="checkbox"/> NO
			<input type="checkbox"/> HBM4EU repository				
		<input type="checkbox"/> NO					
	Own format	<input type="checkbox"/> YES	<input type="checkbox"/> IPCHEM portal website	<input type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> YES
				<input type="checkbox"/> NO	<input type="checkbox"/> NO	<input type="checkbox"/> NO	<input type="checkbox"/> NO
			<input type="checkbox"/> HBM4EU repository				
		<input type="checkbox"/> NO					
Anonymised Single Measurement Data	HBM4EU format	<input type="checkbox"/> YES	<input type="checkbox"/> IPCHEM portal website	<input type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> YES
				<input type="checkbox"/> NO	<input type="checkbox"/> NO	<input type="checkbox"/> NO	<input type="checkbox"/> NO
			<input type="checkbox"/> HBM4EU repository				
		<input type="checkbox"/> NO					
	Own format	<input type="checkbox"/> YES	<input type="checkbox"/> IPCHEM portal website	<input type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> YES
				<input type="checkbox"/> NO	<input type="checkbox"/> NO	<input type="checkbox"/> NO	<input type="checkbox"/> NO
			<input type="checkbox"/> HBM4EU repository				
		<input type="checkbox"/> NO					
Pseudonymised Single Measurement Data ³	HBM4EU format	<input type="checkbox"/> YES	<input type="checkbox"/> HBM4EU repository				
		<input type="checkbox"/> NO					
	Own format	<input type="checkbox"/> YES	<input type="checkbox"/> HBM4EU repository				
		<input type="checkbox"/> NO					

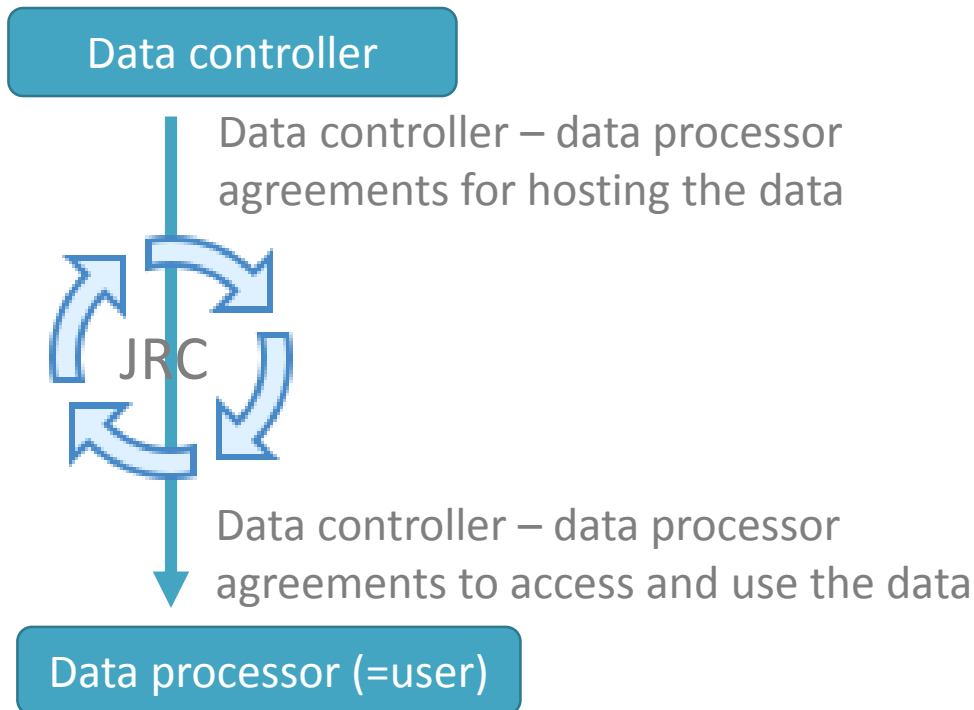
Process of sharing data:

What are the steps for data providers

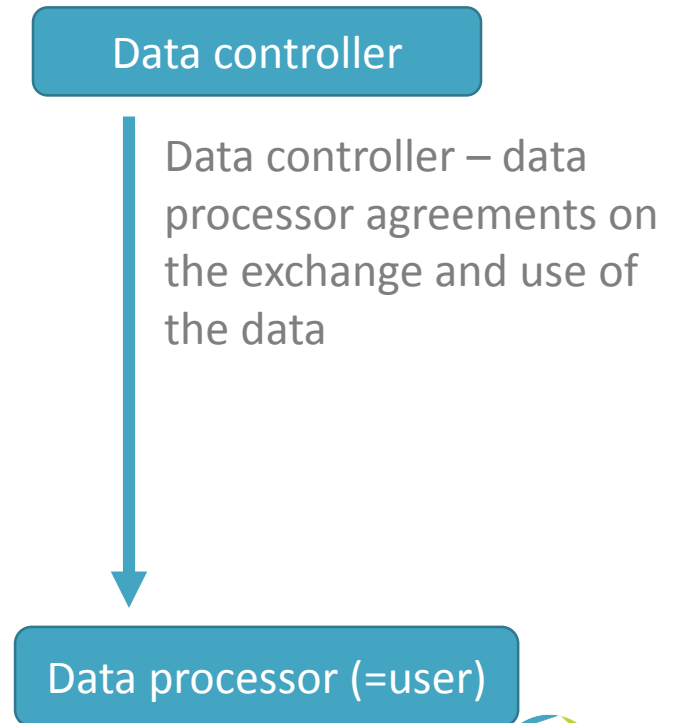
Data controller - Data processor Agreement

! Pseudonymized individual data – Subjected to GDPR

→ Data controller – data processor agreement required



Temporary solution



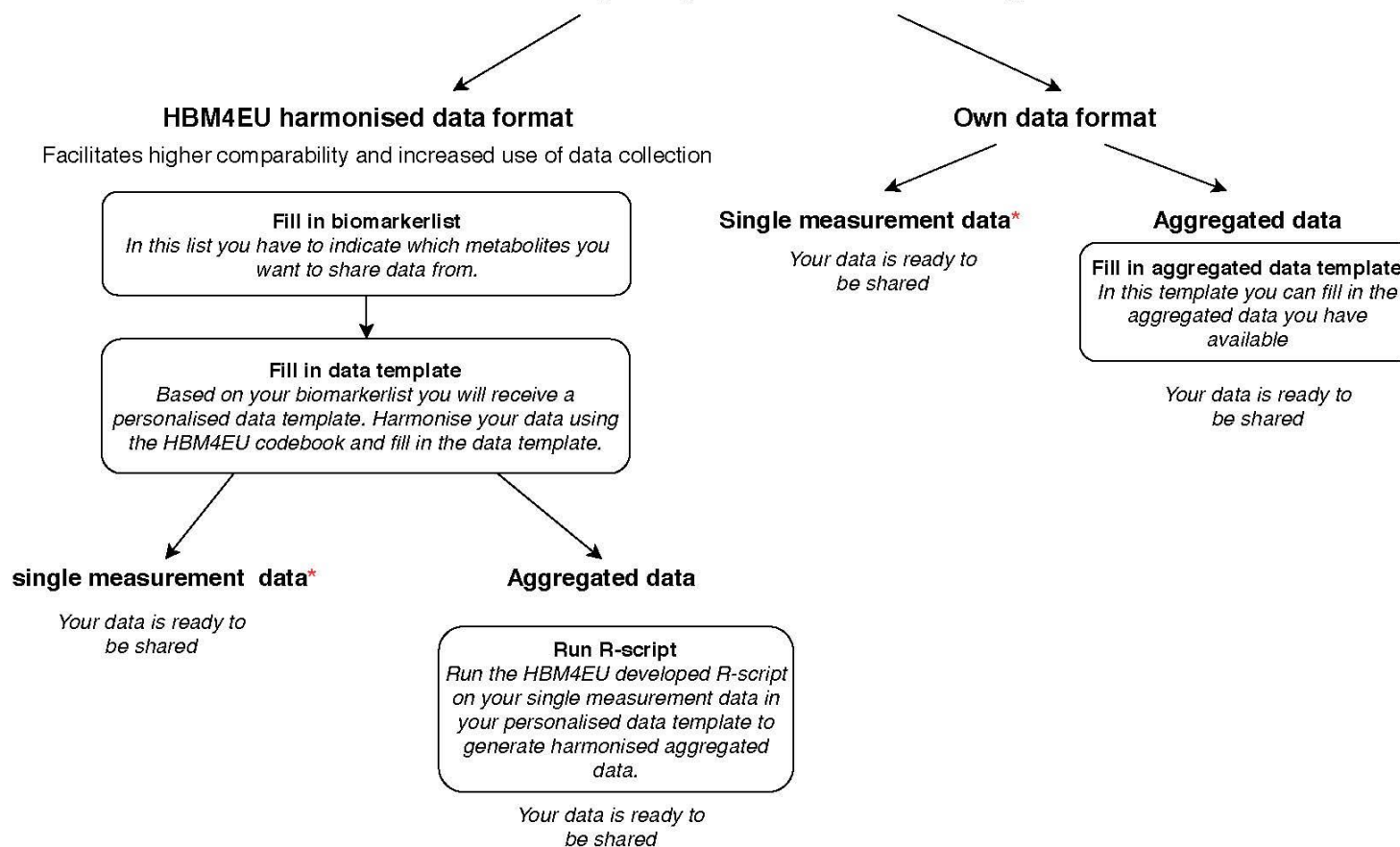
Data harmonisation

Process of sharing data:

How to prepare your data for sharing

Data provider

Part 2: Prepare your data for sharing



**note: Pseudonymised single measurement data has to be shared via HBM4EU repository (secured and restricted part of IPCHEM)*

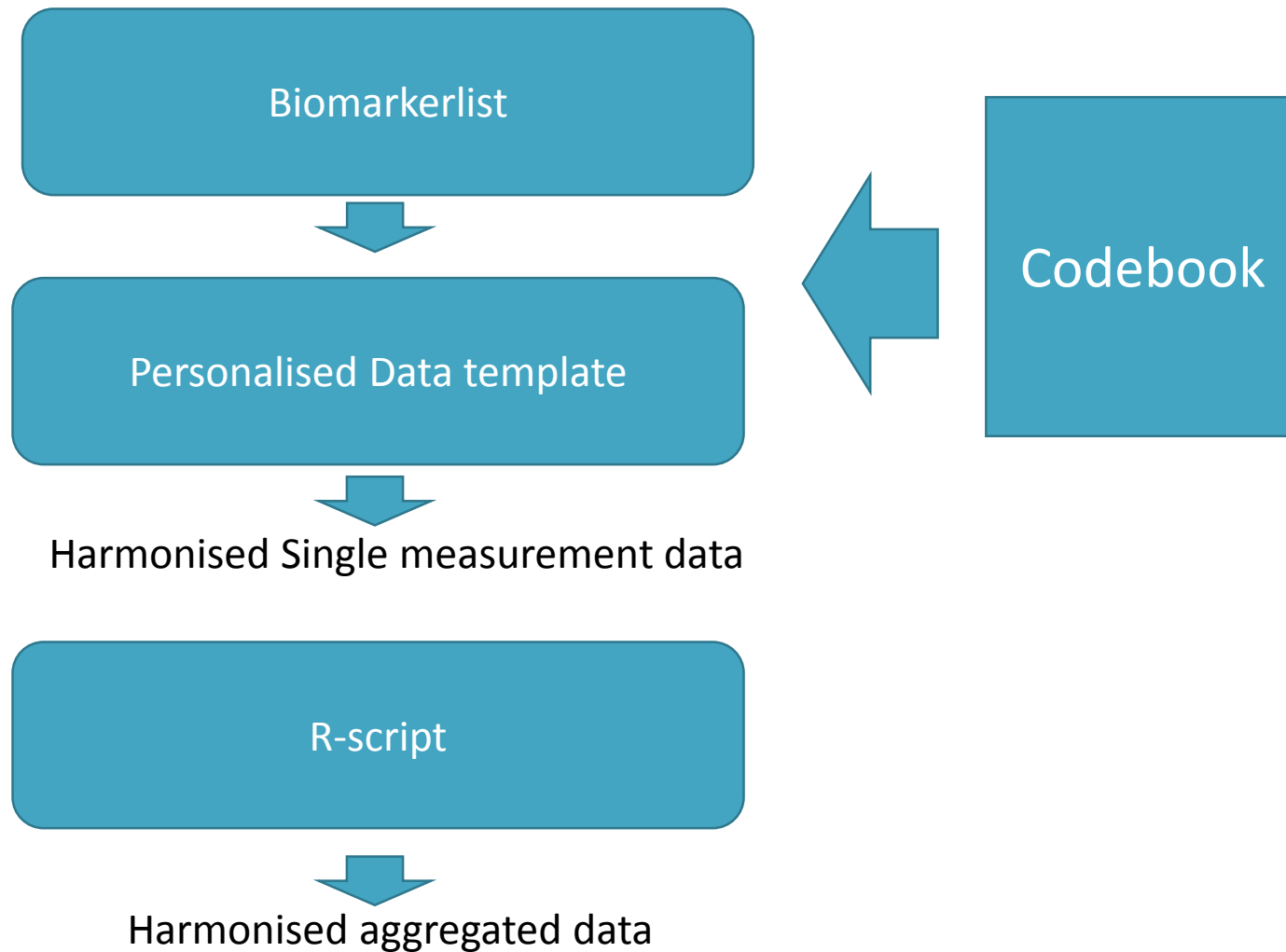
General advantages:

- Comparability of data
- Facilitate statistical analysis of pooled data collections
- Comparison between data collections
- Step forward in EU HBM (~Nhanes)
- ...

Advantages of harmonised aggregated data:

- We know how the data were processed!
- One common way to deal with values $< \text{LOD}$ or LOQ
- Same descriptive statistics are calculated
- Comparability

Harmonization of single measurement data:



How will we obtain Harmonised aggregated data?

Data template for individual data = input file for an R-script to generate **harmonised aggregated data**

Output = **Descriptive statistics including:**

- ✓ N of subjects
- ✓ Arithmetic mean + SD
- ✓ Geometric mean + 95% CI
- ✓ percentiles with CI
- ✓ ...

Stratified for gender, age, BMI, smoking, level of education,...?

Open for input!

->Tailored to the needs of the WP's within HBM4EU



Template gated data (own fc

Template to facilitate the provision of aggregated data in your own format. The template is to provide guidance on the desired descriptive statistics for the aggregated data that can be used within the project.

We ask data providers to fill in the aggregated data that they have available.

Thank you for your attention

If you have any questions about data management



Don't hesitate to contact the HBM4EU data management team!

HBM4EU.datamanagement@vito.be

All documents can be found on the **internal webpages** of the HBM4EU website:

<https://www.hbm4eu.eu/private/work-package-webpage/data-management-and-analysis/data-management/>



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Speaker's information

Liese Gilles works as R&D researcher at VITO Flemish institute for technological innovation, Mol, Belgium. In HBM4EU she is involved in data management (WP10) and the alignment of studies (WP8).



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