

# Wood Resource Monitoring in Germany

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# Wood Resource Monitoring

## Introduction

### What?

The **Wood Resource Monitoring** enables **regular recordings** of production and capacities of the first processing stage of the wood industry, their raw material demand and the use of wood for energy as well as residential wood energy use.

### Why?

The use of forest products in Germany is often **under-recorded** or **completely unknown**. Official statistics in Germany do not or insufficiently cover the forest product market.

### How?

In 1999 Prof. Udo Mantau at **University Hamburg** initiated the Wood Resource Monitoring, funded through extrabudgetary research projects. Since 2022 the **Thünen Insitute** is tasked by the Federal Ministry of Food and Agriculture (BMEL) to **permanently** conduct the monitoring.

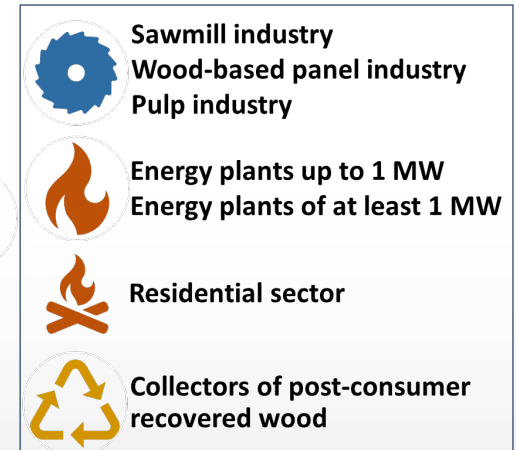
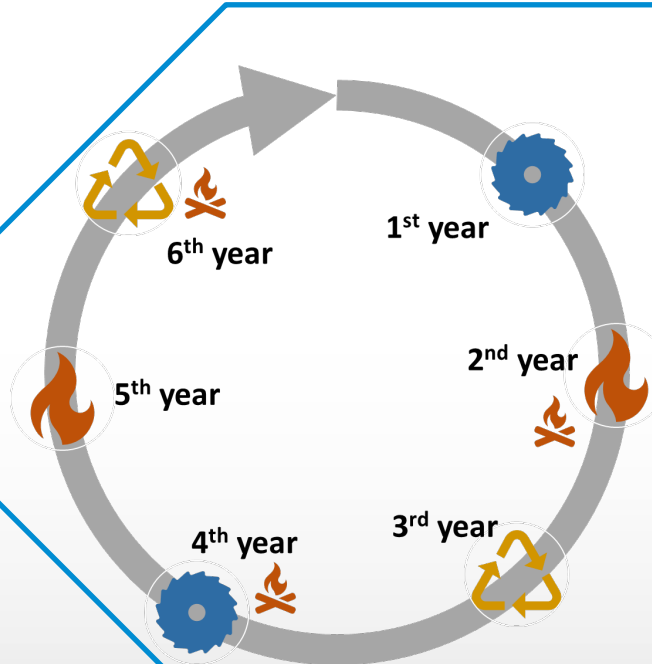
# Wood Resource Monitoring Methodology

## Methodology

- Empirical surveys for each relevant sector
  - Full population survey
  - Sample survey

## Potential future sectors

- Biorefineries
- Growing media industry



Sources: Glasenapp et al. (2023)

# Wood Resource Monitoring

## Results (indirect)

### Wood flow (all woody sources)

Sources →

Supply →

Wood raw materials →

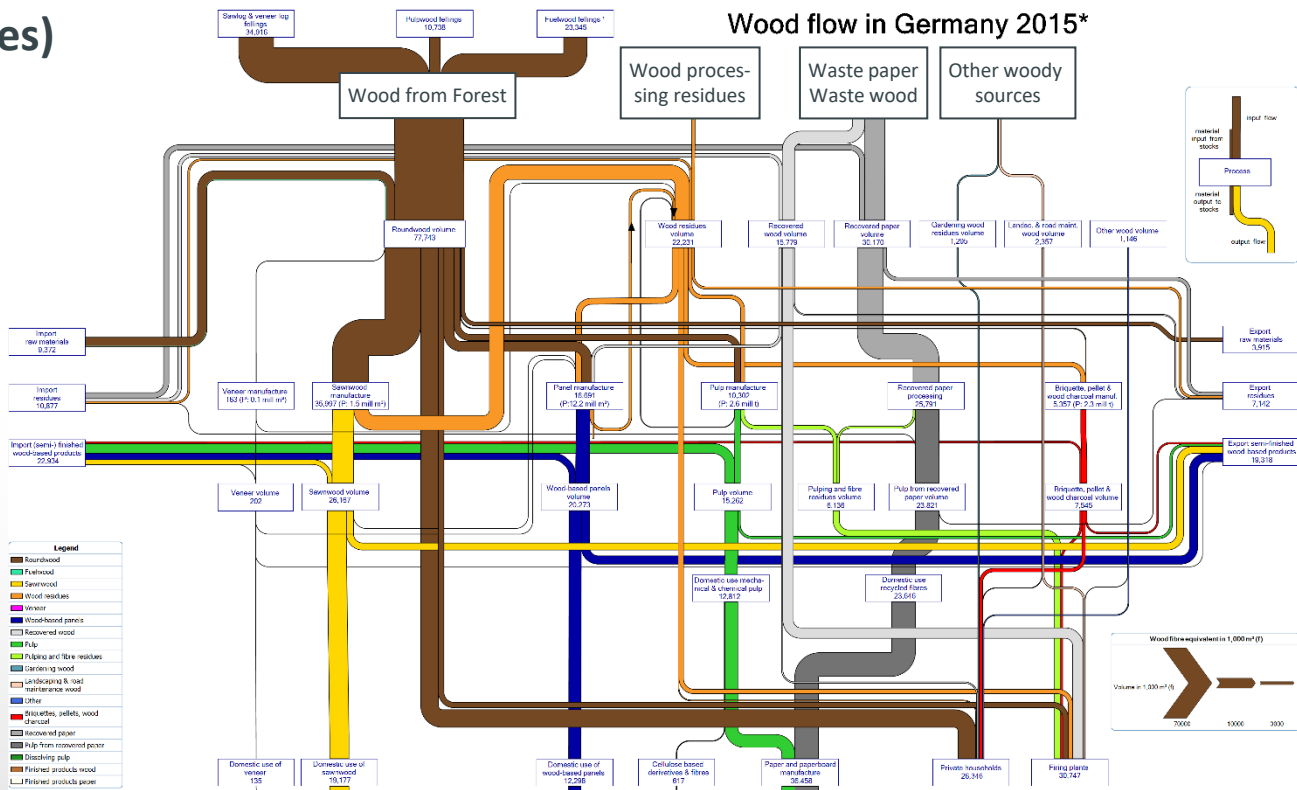
Processing of wood →

Wood products of 1st processing stage →

Domestic use:

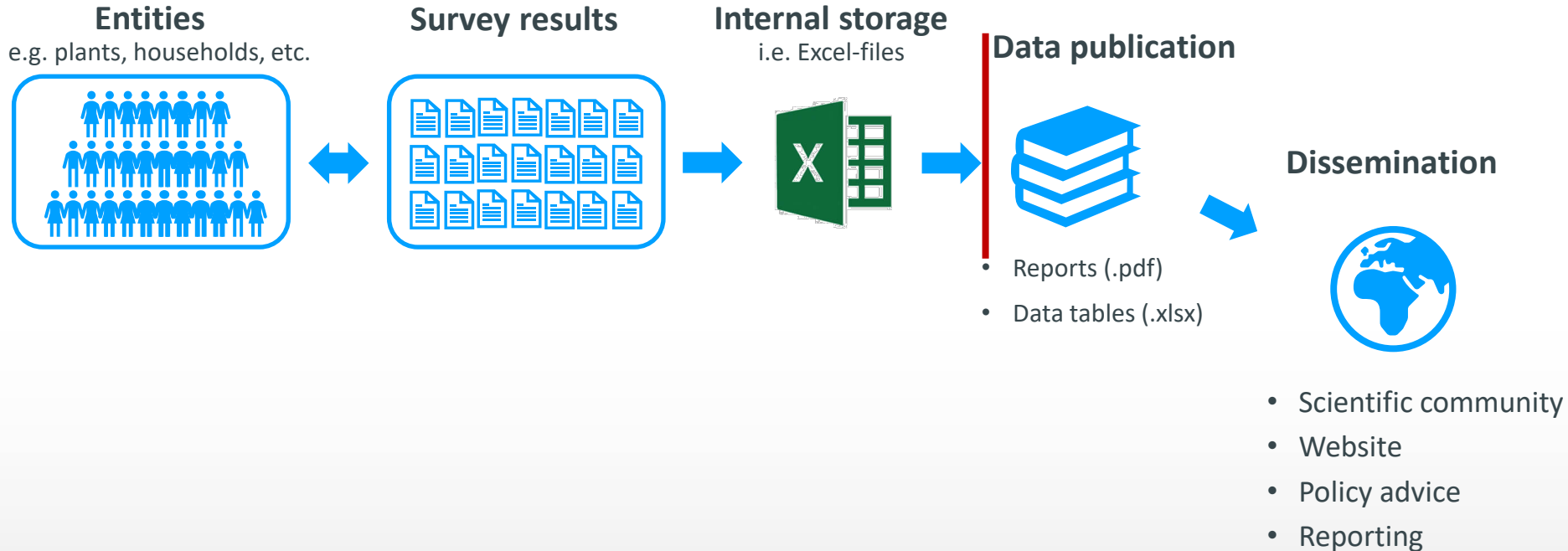
- Semi-finished (material use)

- energetic use



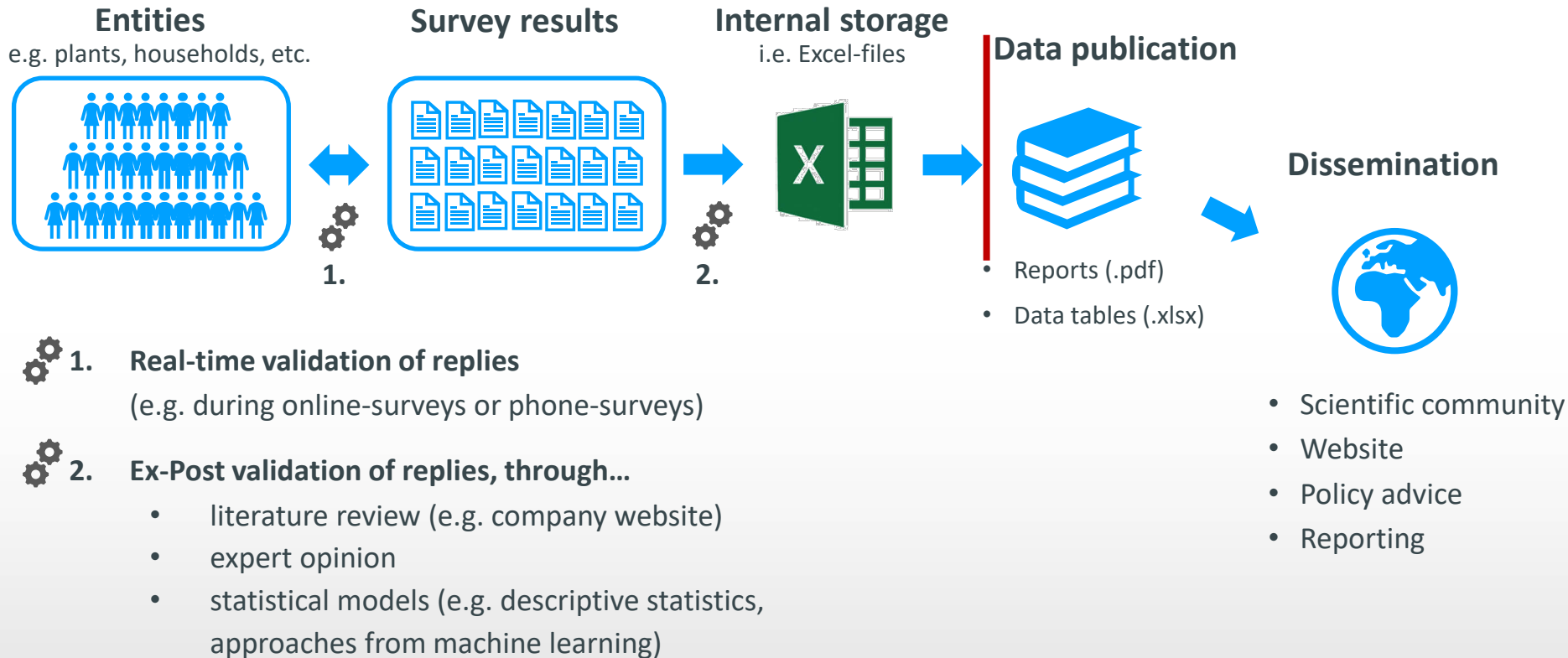
# Wood Resource Monitoring

## Data-evaluation: to date



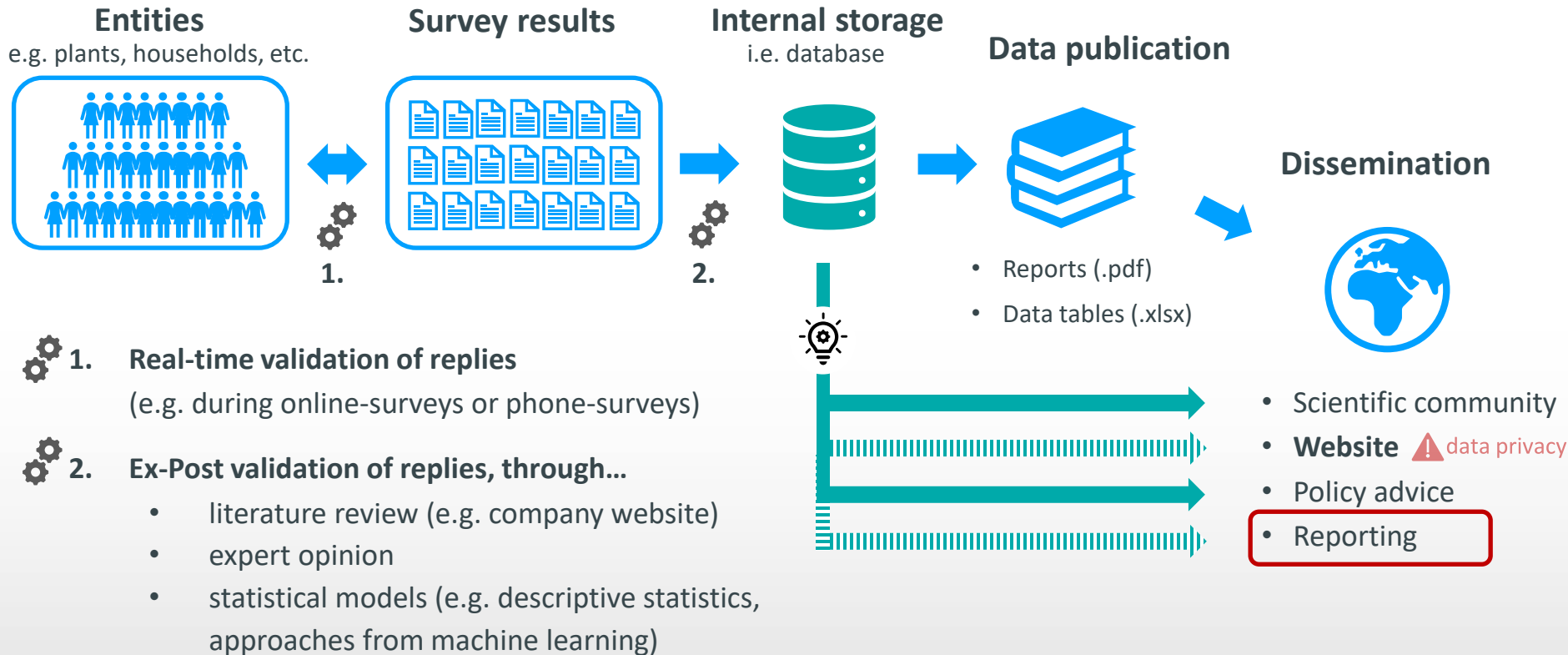
# Wood Resource Monitoring

## Data-evaluation: to date







# Wood Resource Monitoring

## Data-evaluation: outlook















### >> Enquiries from Federal Ministry of Food and Agriculture (BMEL)

**national reporting**

- TI-WF**  
Estimation of fellings & removals  

- TI-WF**  
Wood Balances  

- BMEL**  
Economic Accounts for Forestry  

- AGEE-Stat**  
German Energy Balance  


TI-WF = Thünen Institute of Forestry


**international reporting**

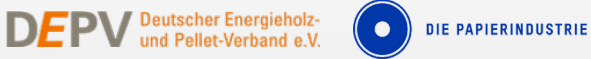
- UNECE/FAO/Eurostat/ITTO**  
Joint Forest Sector Questionnaire  

- UNECE/FAO**  
Joint Wood Energy Enquiry  

- IEA/Eurostat/UNECE**  
Energy Quest. - Renewables & Wastes  

- Eurostat**  
European Renewable Energy Reporting  
(EU 2018/1999)  

- Destatis/Eurostat**  
European Forest Accounting  




# Data submission to UNECE/FAO

## JFSQ and JWEE

<u>JFSQ input data</u>	<u>data transfer</u>
<ul style="list-style-type: none"><li>• <b>Official Statistics</b><ul style="list-style-type: none"><li>• Production statistics</li><li>• Trade statistics</li></ul></li></ul>	manual API
<ul style="list-style-type: none"><li>• <b>Wood Resource Monitoring</b></li></ul>	manual
<ul style="list-style-type: none"><li>• <b>Industry Associations</b></li></ul> 	manual

<u>JWEE input data</u>	<u>data transfer</u>
<ul style="list-style-type: none"><li>• <b>Official Statistics</b><ul style="list-style-type: none"><li>• Production statistics</li><li>• Trade statistics</li><li>• Energy statistics</li></ul></li></ul>	manual API manual
<ul style="list-style-type: none"><li>• <b>Wood Resource Monitoring</b></li></ul>	manual
<ul style="list-style-type: none"><li>• <b>Industry Associations</b></li></ul> 	manual

# Thank you for your attention!

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The Johann Heinrich von Thünen Institute, Federal Research Institute for Rural Areas, Forestry and Fisheries – Thünen Institute in brief – consists of 15 specialized institutes that carry out research and provide policy advice in the fields of economy, ecology and technology.

# Sources

- Glasenapp S., Jochem D., Weimar H., Mantau U., Dieter M. (2023): Rohstoffmonitoring Holz: Eine neue Daueraufgabe am Thünen-Institut. Fakten schaffen – die Vermessung des Holzmarktes geht weiter. Nummer 17, Holz-Zentralblatt.
- Weimar H (2011; 2019): Der Holzfluss in der Bundesrepublik Deutschland 2009: Methode und Ergebnis der Modellierung des Stoffflusses von Holz. Hamburg: vTI, 36 p, Arbeitsber Inst Ökon Forst Holzwirtsch vTI 2011/06 ([https://literatur.thuenen.de/digbib\\_extern/bitv/dn049777.pdf](https://literatur.thuenen.de/digbib_extern/bitv/dn049777.pdf)); aktualisiert 2019.