WEBINAR



**7 May 2024** 09:30 – 10:30 am

# Better data for better policy making Unveiling the new EU Building Stock Observatory and delving into BuiltHub insights





9:30 Welcoming words

9:35 Setting the scene – Ulrike Nuscheler, Senior Project Adviser, CINEA

9:40 Future Vision of Building Stock Data – High-tech Building Model & integrated Socioeconomic Data Collection in Dortmund – Shaojuan Xu, Institut für Landes und Stadtentwicklungsforschung

9:45 The New BSO: How to Navigate the EU Commission's Central Platform on Building Stock Data - Andreas Hermelink, Guidehouse

9:55 BuiltHub's Contribution: Showcasing success stories, crafting a roadmap, and supporting the EPBD transposition - Ulrich Filippi Oberegger, EURAC and Judit Kockat, BPIE

10:05 Q&A moderated by Marcelo Lampkowski, ICLEI

10:30 End





# **Ulrike Nuscheler**

Senior Project Adviser, CINEA





# EU Building Stock Observatory

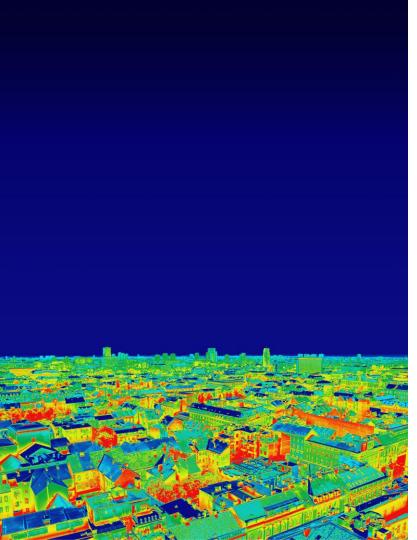


3<sup>rd</sup> EDITION 2023-2026

... Better data for better buildings

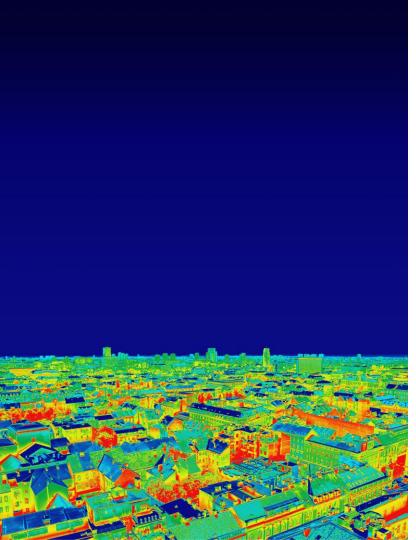
# UNVEILING THE NEW EU BUILDING STOCK OBSERVATORY

Dr Andreas Hermelink 07.05.2024



## **A**GENDA

- 1. What is the BSO and why is it more relevant than ever?
- 2. The new BSO: Features and demo
- 3. Stay connected!



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# **BSO** FACTS



Web platform



Open to all stakeholders (Member States, industry, NGO, research ...)



Facilitate better energy performance and climate neutrality of EU's building stock



Support whole policy cycle



The central data hub on the European building stock

# New EPBD BOOSTS BSO TO BECOME THE CENTRAL EU BUILDINGS DATA HUB

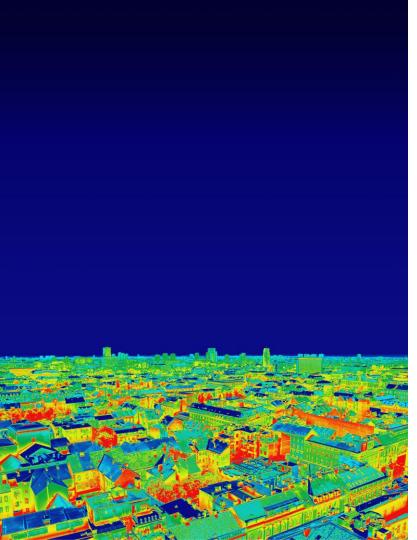
# **BOOSTER 1: NATIONAL DATABASE** (ART. 19 EPBD)

'Each Member State shall set up a national database for energy performance of buildings' ...

At least once per year, Member States shall ensure the transfer of the information in the national database to the **Building Stock Observatory.**'

# BOOSTER 2: NATIONAL BUILDING RENOVATION PLANS (Art. 3(8) EPBD)

'The Commission shall monitor annually the evolution of the energy performance of the EU building stock, ... and publish the information through the **EU Building Stock Observatory**.'

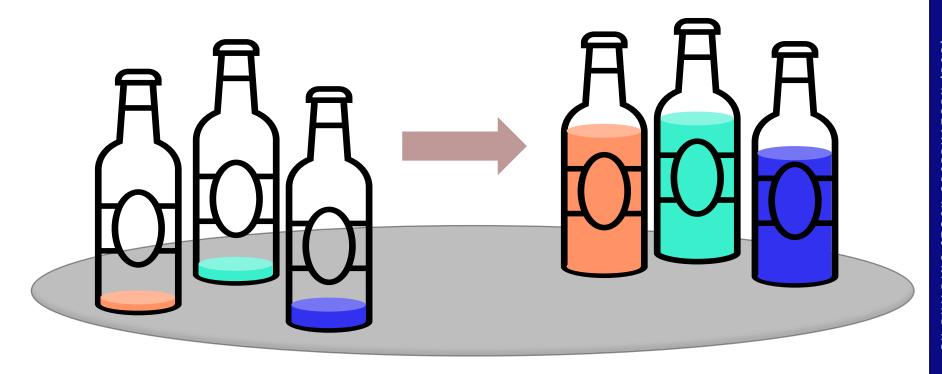


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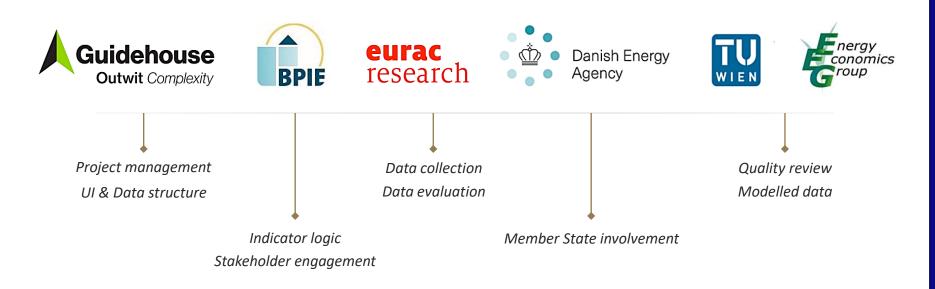


# **NO MORE EMPTY BOTTLES**



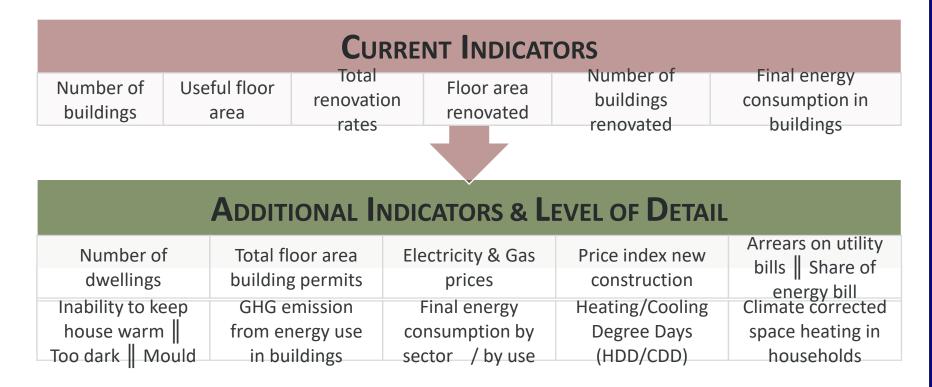


# **C**ROSS-CUTTING **C**OMPETENCIES





# **DRASTICALLY INCREASED DATASET:** FROM 6,750 TO 65,000 DATA POINTS





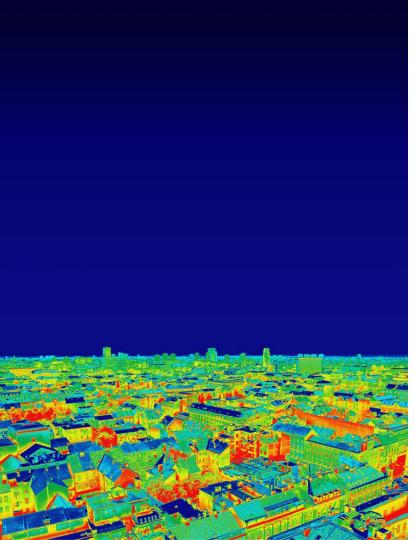
**C**OLLABORATION WITH **R**ELIABLE **D**ATA **S**OURCES











## **A**GENDA

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# **STAY CONNECTED!**

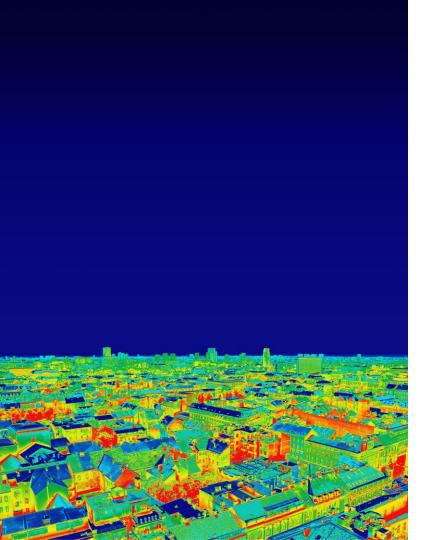




Subscribe to the BSO newsletter

Let us know if you'd like to participate in one of our upcoming workshops

carla.mauricio@bpie.eu



# THANK YOU

## Dr Andreas H. Hermelink

Project manager of BSO | GUIDEHOUSE



https://energy.ec.europa.eu/topics/energy-efficiency/energy-efficient-buildings/eu-building-stock-observatory\_en



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# BuiltHub 4 EPBD

How the project outcomes can be used to facilitate the recast EPBD transposition

Ulrich Fillippi Oberegger, EURAC Judit Kockat, BPIE



This project has received funding from the EU's Horizon 2020 program under grant agreement no 957026.



- Updated standards for new buildings: ZEBs
- Renovation policies for existing buildings: MEPS, RPs,
- Planning for the 2050 vision and H&C decarbonisation: NBRPs
- -Stronger enabling framework: information (EPCs), advisory, financial support



 $\rightarrow$  end of the year

#### **EPBD recast overview and data applications**

#### Interesting questions may be

Worst Performing buildings What are they? How to define them?

How to identify & quantify them?

- National building renovation plan (NBRP)
  - What data must scenarios contain to facilitate stakeholders' agreement on a NRBP?

How to prepare the integration of the NBRP with the WLC roadmap?

National building stock databases Value of buildings stock data plaforms Data needs especially for renovations and the national building renovaiton plan

• Data collection, enhancement



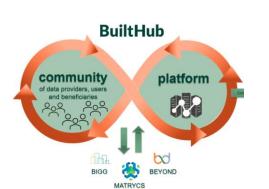
- Key Indicator definition
- Data analysis and visualisation
- Interpretation to gain
   Information
- Message formulation to help decision making

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# BuiltHub in brief



 Roadmap for constant data flow into to the EU Building Stock Observatory (BSO)



 Community for data collection, transformation, services



• Web platform offering data, analysis, visualisation and other services

Coordination and Support Action (CSA) 4 year-project, October 2020 - September 2024

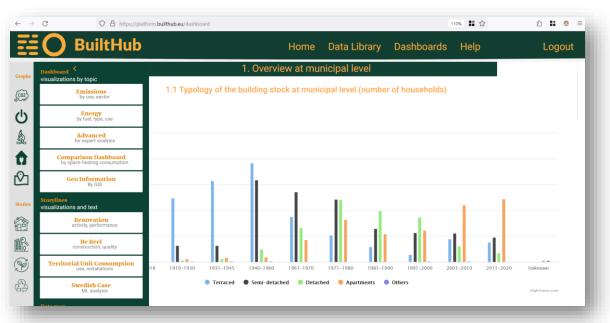
#### Visit us at builthub.eu



# Discovering the value of a building stock data (platform) through BuiltHub

Data collection Key Indicator development Data analysis & visualisation

→ Messages for decision making



 EPBD recast contains
 → a strong emphasis on worst performing buildings

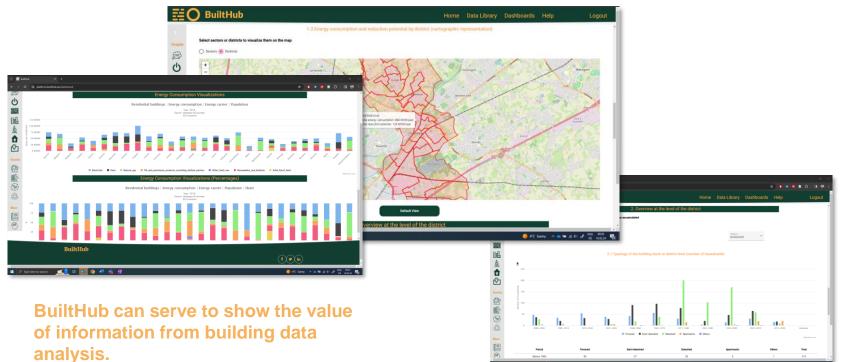
How to define and identify, quantify WPB?

→ Mandatory support for vulnerable households, energy poverty and social housing

Future: How to identify the buildings they live in?



#### Check it out for free https://platform.builthub.eu/





## **BuiltHub proofed Services**

#### Platform sections ...

- Data library
  - Ontology ViewerData Catalog

  - SPARQL Querying
    Data Upload
- Dashboards
- Analytics/stories

#### ... providing services

- $\rightarrow$  Free download of data
- →Data update facility
- → Varying spatial granularity from national to regional
- →Geo information on a map
- →Comparison of two datasets
- →Indicators derived from combination of datasets
- →ML guidelines

#### **D3.4 Platform services development**

#### https://builthub.eu/resource?uid=652

	Dashboard visualizations by topic
Alls of bald arrange loss in the European mp process and on the European class frame, balding process, and bald below for source processing status, and analysis balding processing status and classification balding (balding status).	Emissions by use, sector
Conversion of the second secon	Energy by fuel, type, use
A 0.0364% B 0.386%	Advanced for expert analysis
C 2.41% C 2.41% D 15.3% D 15.3% E 46.1% E 46.1% E 46.1% E 20.7%	Comparison Dashboard by space heating consumption
G 6.13%	<b>Geo Information</b> By GIS
	Storylines visualizations and text
	Renovation activity, performance
	Be Reel construction, quality
	Territorial Unit Consumption use, installations
	Swedish Case ML analysis
	Data map and more
	Data Catalog sources
	ML Method most suitable algorithm



#### D6.6 Roadmap towards dynamic and automated building data collection

https://builthub.eu/resource?uid=657

#### Best practices & use cases

- Building stock monitoring & data collection
- Data transformation to insights
- Building stock renovation and EPCs
- Machine learning for retrofit planning; helps to identify worst performing buildings
- Recommended measures for Member States in creating their national





#### Join us at BuiltHub's final event







# Ask your questions in the chat!

Moderator: Marcelo Lampkowski, ICLEI





# Thank you!

# Slides and recording will be available in the coming days





# Thank you!

### More information here:

www.bpie.eu

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