

EUB
SuperHub



The new EPC for Europe



Next-generation of Energy Performance
Assessment and Certification



European
Commission



Federation of
European Heating,
Ventilation and
Air Conditioning
Associations

From Directive to Action: Supporting the Revised EPBD Transposition and Implementation

11 June 2024

14h30-16h00 CEST

**@Charlemagne, Room Mansholt
(Brussels) & livestreamed**

11-13 JUNE 2024

**EUROPEAN SUSTAINABLE
ENERGY WEEK**

Net-zero energy solutions
for a competitive Europe



POLICY CONFERENCE

EC.EUROPA.EU/EUSEW
EUENERGYWEEK
@EUENERGYWEEK
#EUSEW2024



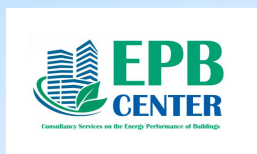
FROM DIRECTIVE TO ACTION: SUPPORTING THE REVISED EPBD TRANSPOSITION & IMPLEMENTATION



Welcome & introduction
← **Andrei Vladimir LIȚIU**
*Executive Director / Building
Performance Adviser*



Keynote speech “Transposing and
implementing the revised EPBD”
Stefan MOSER →
Head of Unit B3, Buildings and Products



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FROM DIRECTIVE TO ACTION: SUPPORTING THE REVISED EPBD TRANSPOSITION & IMPLEMENTATION

Keynote “Buildings supportive EU projects
& the Build Up Portal as a central hub for
energy efficiency in buildings”

Ulrike NUSCHELER 

Senior Project Adviser, LIFE Energy + Climate



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How EPBD.wise & the Next Gen EPC cluster
are supporting the revised EPBD

← **Afrodit PSATHA**

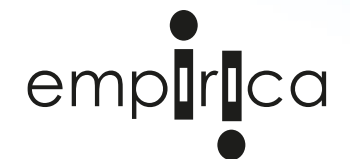
Project and Events Manager



How tunES & the Next Gen EPC cluster
are supporting the revised EPBD

Georg VOGT →

Head of ICT Innovation Energy



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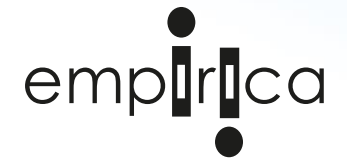
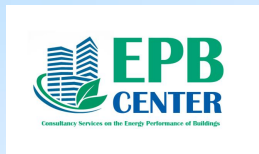
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Moderated panel discussion with all speakers



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Closing remarks & next steps





Next Generation Energy Performance Certificates cluster



2019



2020



2021



2022



2023



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Smart Readiness Indicator cluster



2022



2023

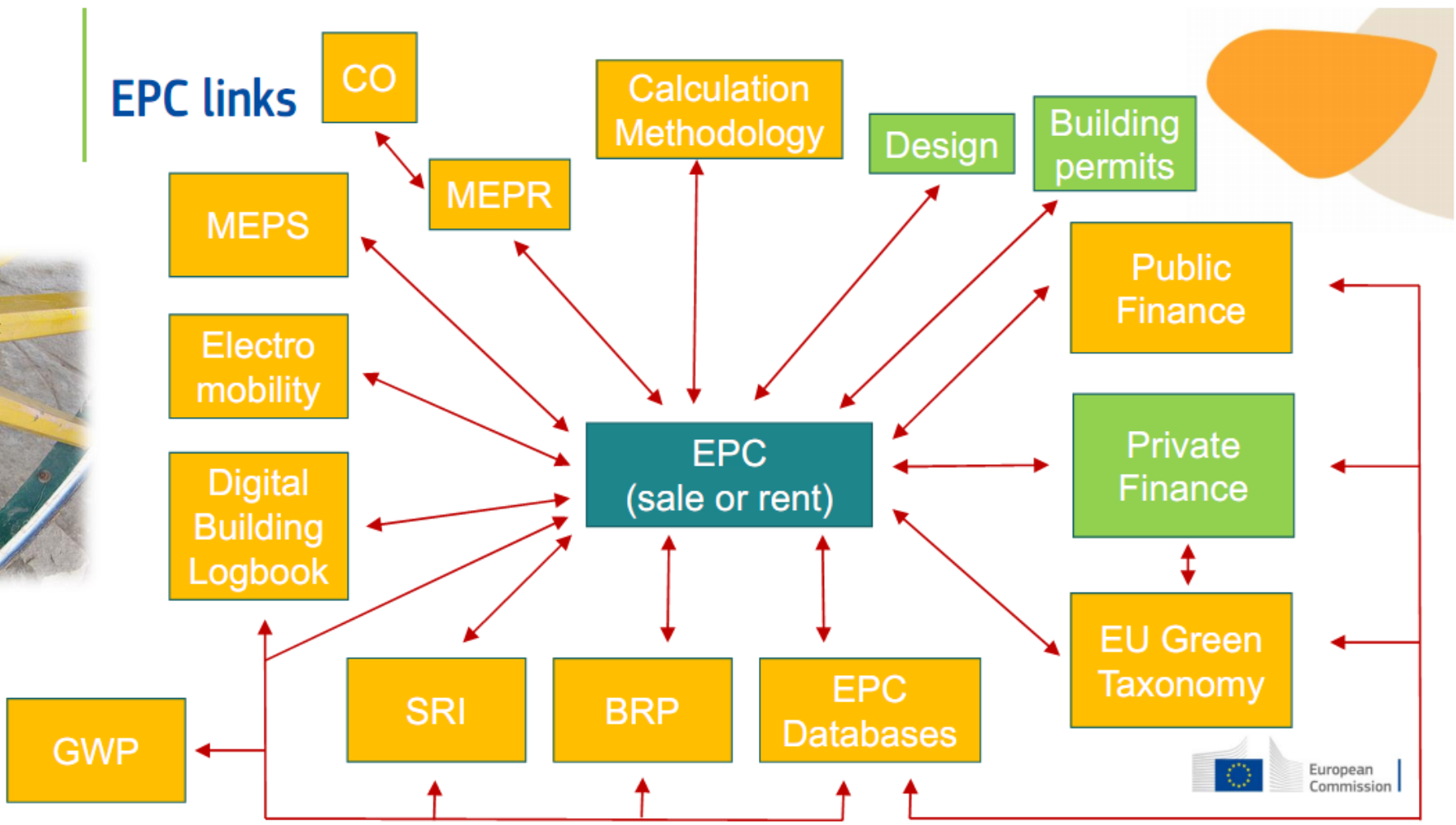


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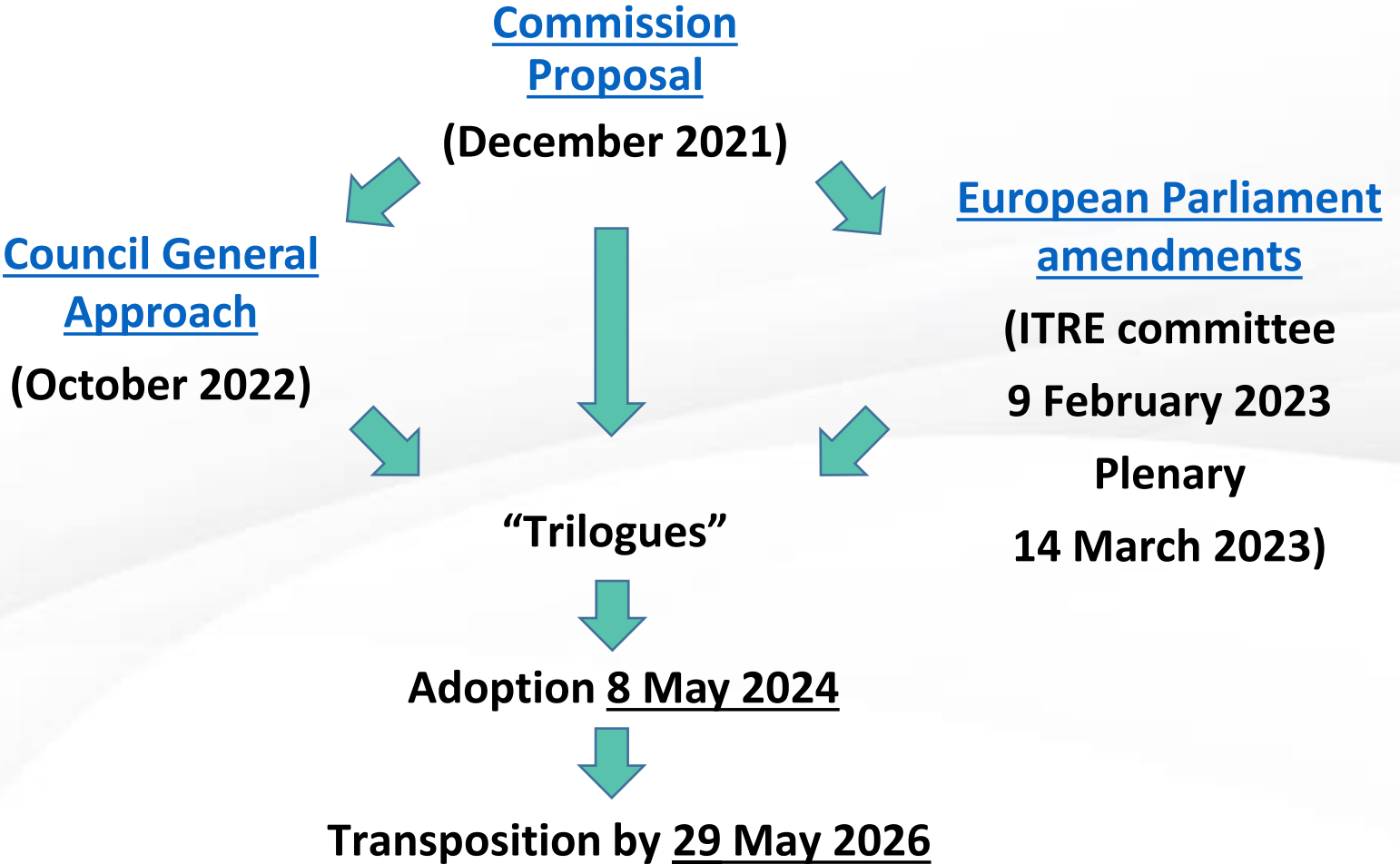


Energy Performance Certificates are linchpin





The EPBD revision



- Roadmap**
Feedback period
22 February 2021 - 22 March 2021
FEEDBACK: CLOSED
- Public consultation**
Consultation period
30 March 2021 - 22 June 2021
FEEDBACK: CLOSED
- Commission adoption**
Feedback period
15 December 2021 - 01 April 2022
FEEDBACK: CLOSED



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement number 839937. The European Union is not liable for any use that may be made of the information contained in this document, which is merely representing the authors' view.



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2002 – 23 – 17 – 1
2024 – 84 – 38 – 10

What do these numbers represent?



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2002 EPBD

The directive had

- 23 Recitals
- 17 Articles
- 1 Annex

2024 Revised EPBD

The directive has

- 84 Recitals (*3.7 times > 2002*)
- 38 Articles (*2.3 times > 2002*)
- 10 Annexes (*10 times > 2002*)



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22 May 2024

tunES - Tuning EPC and SRI. Practices and methods to analyse national challenges



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**Building performance is a
complex & ongoing process!**
Assessment – Certification – Management

*We have seen what happens if building performance
is over-simplified → it's perceived as just an
administrative burden!*

Results stemming from the Next Gen EPC and SRI
clusters are making it possible to immediately and
adequately consider building performance → **the
twin green & digital energy transition!**



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Buildings supportive EU projects
& Build Up Portal as central hub

Ulrike NUSCHELER

Senior Project Adviser

LIFE Energy + Climate



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EUSEW, 11 June 2024

From Directive to Action: Supporting the Revised EPBD Transposition and Implementation

Projects and Initiatives supporting the implementation of Buildings Policies

Ulrike NUSCHELER, Senior Project Advisor
European Climate, Infrastructure and Environment
Executive Agency (CINEA)

CINEA

European Climate, Infrastructure and Environment Executive Agency



CONNECTING
EUROPE
FACILITY 2
Transport and
Energy

INNOVATION
FUND

HORIZON
EUROPE
Climate, Energy
and Mobility

LIFE
PROGRAMME

LIFE
Clean Energy
Transition

JUST
TRANSITION
MECHANISM
*Public Sector
Loan
Facility pillar*

RENEWABLE
ENERGY
FINANCING
MECHANISM

EUROPEAN
MARITIME
FISHERIES
AND
AQUACULTURE
FUND

Horizon Europe – Research & Innovation

Buildings portfolio

Built4People
PPP

Horizon Europe Energy Efficiency Research

64 projects on buildings,
smart cities, and New
European Bauhaus

EUR 373 million of EU
funding

12 RIAs, 50 IAs, 2 CSAs

Scalable
Cities
Service
Contract

Building renovation
- envelope and
technical systems

Energy
performance
certification / data

Smart
buildings

Energy positive
neighbourhoods and
districts

Climate responsive
and resilient
buildings &
neighbour-hoods

Zero-emission
buildings –
products, materials,
whole life cycle
carbon

- ❖ **HORIZON-MISS-2024-NEB-01:** EUR 17.8 mio, call closes 19/09/24
- ❖ **HORIZON-CL5-2024-D4-02:** EUR 50 mio, call opens 17/09/24

LIFE Clean Energy Transition (CET)

Direct support for policy implementation:

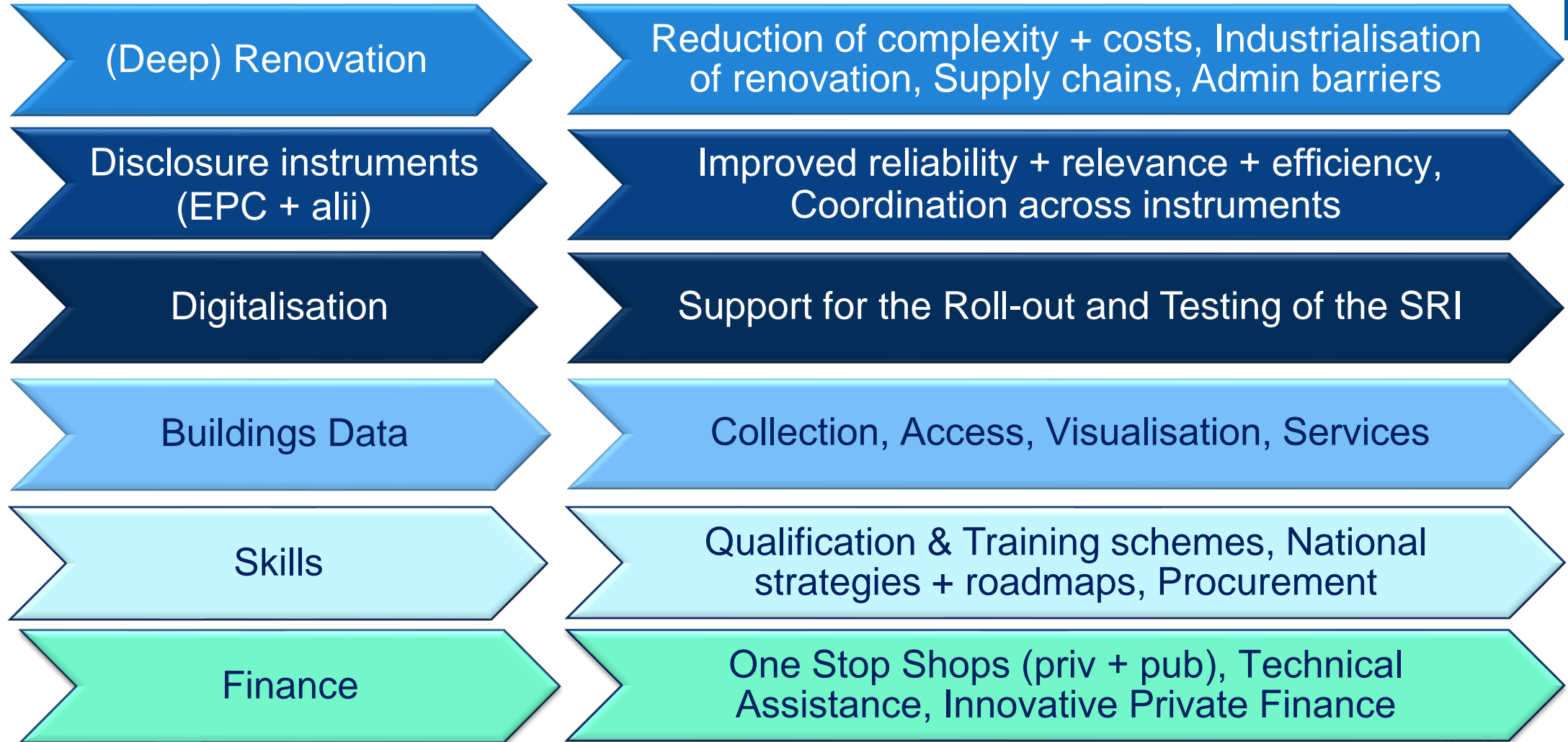
- Create **market and regulatory enabling conditions** for the clean energy transition
- Improve **governance and capacities/skills** at all levels
- Mobilise **investments** and improve access to **finance**
- **Empower Citizens**
- Develop and replicate **best practices**



Defined main intervention areas:

- **Annual calls** for proposals: **Deadline 19th September 2024**
- **95% co-funding** for most topics
- Projects indicative budget \approx 1.5 - 2 € million
- Consortia: Most topics minimum 3 eligible countries, some topics national/regional focus

How LIFE CET supports the implementation of the EPBD



LIFE CET

Buildings – Funding areas for policy priorities



Deep renovation
(NZE, ZEB)



Data and Tools



Smart buildings
and services



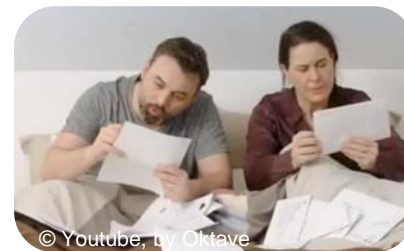
Build Up Skills



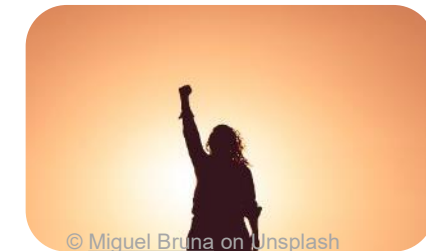
Policy
implementation



Project development
assistance



One Stop Shops
for renovation



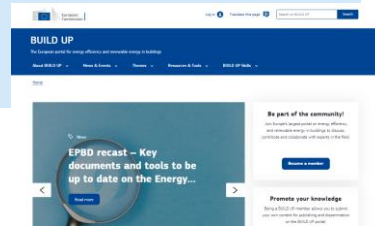
Consumers

LIFE CET Buildings – Strategic initiatives

BUILD UP

- The European portal for energy efficiency and renewable energy in buildings
- A repository of tools, and a source of updates and news. Disseminate results!

<https://build-up.ec.europa.eu/en/home>



EU Building Stock Observatory

- The European repository for data and information on the EU building stock
- Key data and indicators, factsheets, and more

https://energy.ec.europa.eu/topics/energy-efficiency/energy-efficient-buildings/eu-building-stock-observatory_en



Concerted Action EPBD

- Enabling the implementation of the EPBD
- Exchange of knowledge among Member States (national ministries or affiliated institutions).

<https://epbd-ca.eu/about-us>



Citizen-led renovation

- Technical assistance to Energy Communities for energy-saving renovation projects
- Open call until 31 May 2024!

https://citizen-led-renovation.ec.europa.eu/index_en

Empower
your **ENERGY
COMMUNITY!**

BUILD UP

THE EU portal for energy efficiency and renewables in buildings

- Established in 2009 – required by the Energy Performance of Buildings Directive
- Shares and promotes knowledge, guidelines, tools and best practices across Europe
- Informs and updates the market about the legislative framework in terms of goals, practical implications and future revisions
- Facilitates insight sharing among over 15,000 registered users
- Next step: update to reflect EPBD new priorities

Scan the QR code and check it out!

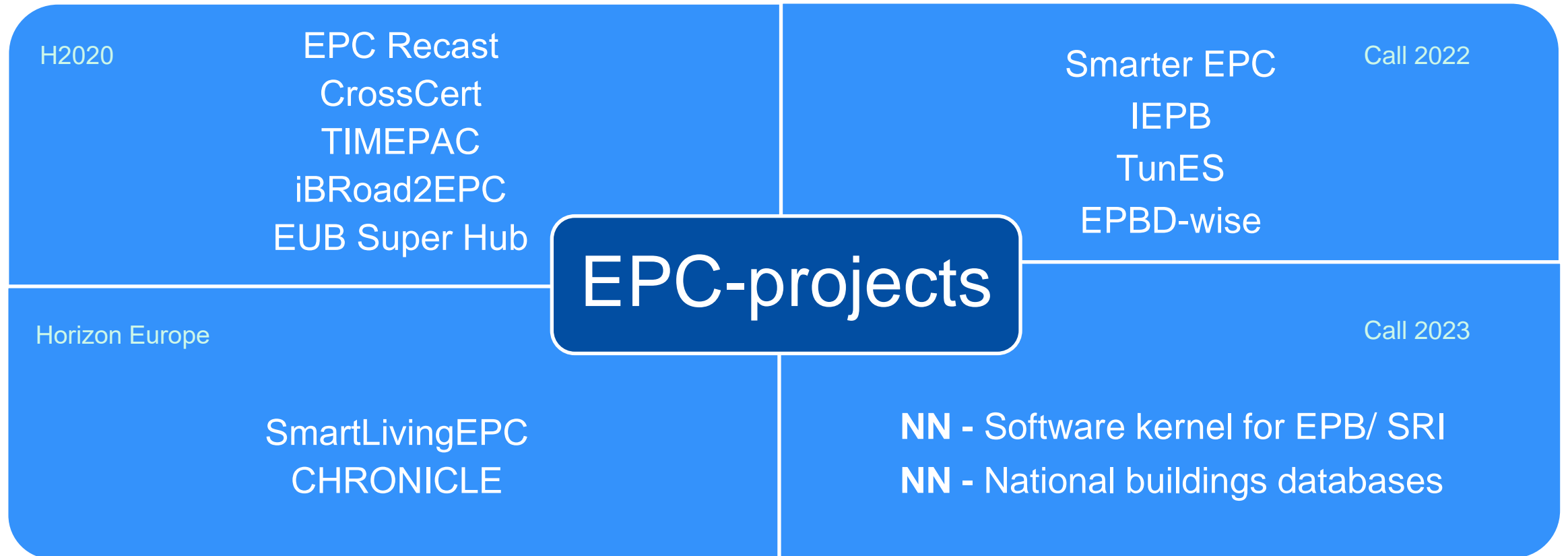


The screenshot shows the top of the BUILD UP website. At the top left is the European Commission logo. To the right are links for 'Log in', 'Translate this page', and a search bar labeled 'Search on BUILD UP'. Below this is a dark blue header with the text 'BUILD UP' and 'The European portal for energy efficiency and renewable energy in buildings'. A navigation menu includes 'About BUILD UP', 'News & Events', 'Themes', 'Resources & Tools', and 'BUILD UP Skills'. Below the header is a 'Home' link. The main content area features a large banner with a building and trees, titled 'BUILD UP: your gateway to a energy-efficient construction sector'. The banner includes a 'Read more' button, a play button icon, and a 'CHECK THE VIDEO!' button. To the right of the banner is a 'Be part of the community!' section with a 'Become a member' button. Below that is a 'Promote your knowledge' section.

Energy Performance Certificates & Projects

HORIZON

LIFE-CET



Many thanks for your attention!



FROM DIRECTIVE TO ACTION: SUPPORTING THE REVISED EPBD TRANSPOSITION & IMPLEMENTATION



How EPBD.wise &
the Next Gen EPC cluster are
supporting the revised EPBD

Afroditë PSATHA

Project and Events Manager



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11/06/2024

How the EPBD.wise project is supporting the revised EPBD

EU Sustainable Energy Week #EUSEW2024

Project and Events Manager at Efficient Buildings Europe (EuroACE)

Afroditi Psatha

afroditi.psatha@efficientbuildings.eu



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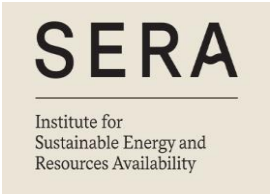


Our team

Under the coordination of



Partners



Agência para a Energia



Supporting partners at national level

Bulgaria



Poland



Greece



Romania



Hungary



Ukraine



EPBD.wise in a nutshell

→EPBD.wise provides on-the-ground support to six countries for the implementation of the EPBD *recast* (**Bulgaria, Greece, Hungary, Poland, Romania, and Ukraine**).

→EPBD.wise provides on-the-ground support for the implementation of 5 key elements of the EPBD:

- **National Building Renovation Plans**
- **Minimum Energy Performance Standards**
- **Energy Performance Certificates**
- **Building Renovation Passports**
- **Zero Emission Buildings**



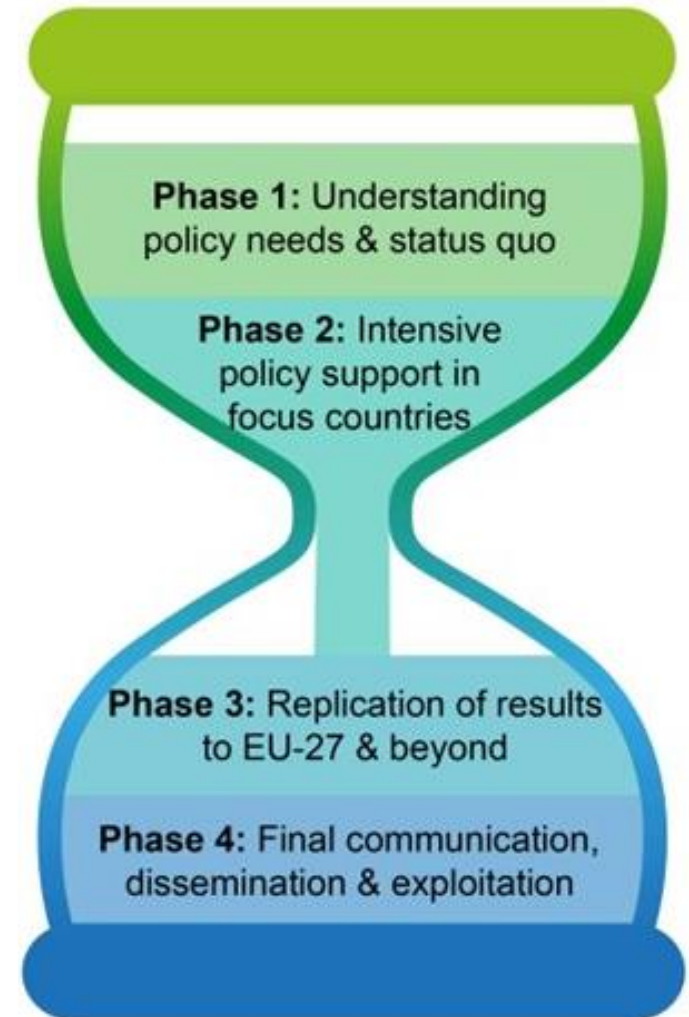
Goals of the project

- **Support Member States** in aligning new policies with EPBD and European, national, and regional targets
- Assist in ensuring **consistency among policies** affecting buildings to enhance their impact
- **Integrate monitoring and reporting mechanisms into policy design** for continuous evaluation
- **Enhance understanding and knowledge of building policy planning and design** among public administrations
- **Foster collaboration among implementing bodies** within and across Member States for effective EPBD implementation



Ongoing work at the national level

- **Reports on policy needs and best practices for each topic**, and focused on specific countries, will be published soon!
- **The first round of national policy forums** are taking place in May – June 2024.
 - Already taken place in Bulgaria, Greece and Romania
 - As we speak it is taking place in Hungary today
 - Coming soon for Poland and Ukraine
- This is important preparatory work for our upcoming **policy guidelines for focus countries on the topics that have been identified**



National Building Renovation Plans

These plans are coming in 2025 / 2026 and they will be a crucial planning tool to achieve a zero-emission building stock by 2050!

- **Challenges identified:** lack of (detailed) data, difficult to derive actionable strategies based on current data, missing link to clear funding instruments
- **Countries need support on:** robust data collection and analysis methodologies, methodology on cost calculations, operationalising renovation plans, identifying investments, integrating these plans with broader economic and environmental policies

Minimum Energy Performance Standards

MEPS are one of the cornerstone policy measures to achieve the NBRP renovation targets!

- **Some of the challenges:** lack of (detailed) data similar to NBRPs, identification of worst-performing buildings, demographic challenge, high cost of EPCs, stop-and-go funding



Energy Performance Certificates and Building Renovation Passports

- **Some of the challenges:** quality control mechanisms, quality of EPC databases, cost of EPCs, public perception of EPCs, lack of skilled auditors, interoperability or integration with renovation passports, introduction of the smart readiness indicator

Synergies with other EU projects

Our partners reviewed a wide selection of EU funded EPC projects to assess general policy needs and identify best practices:



Our work in the focus countries

Country	Energy Performance Certificates	Buildings Renovation Passports	Zero-Emission Buildings	National Building Renovation Plans	Minimum Energy Performance Standards
Greece	x	x			
Hungary	x	x	x		
Romania		x		x	x
Poland	x			x	x
Bulgaria	x		x		
Ukraine			x	x	x



EPBDwise

Thank you for your time!



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How tunES & the Next Gen EPC
cluster are supporting
the revised EPBD

Georg VOGT

Head of ICT Innovation Energy



empirica



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for a competitive Europe

tunES

How the Next Gen EPC cluster is supporting the EPBD Recast

Implementing the Energy Performance of Buildings Directive recast

Supported by (Technical Support Team - TST):



Partners:



Co-funded by the
European Union

This project has received funding from the European Union's funding instrument for the environment and climate action (LIFE programme) under grant agreement No 101120926.

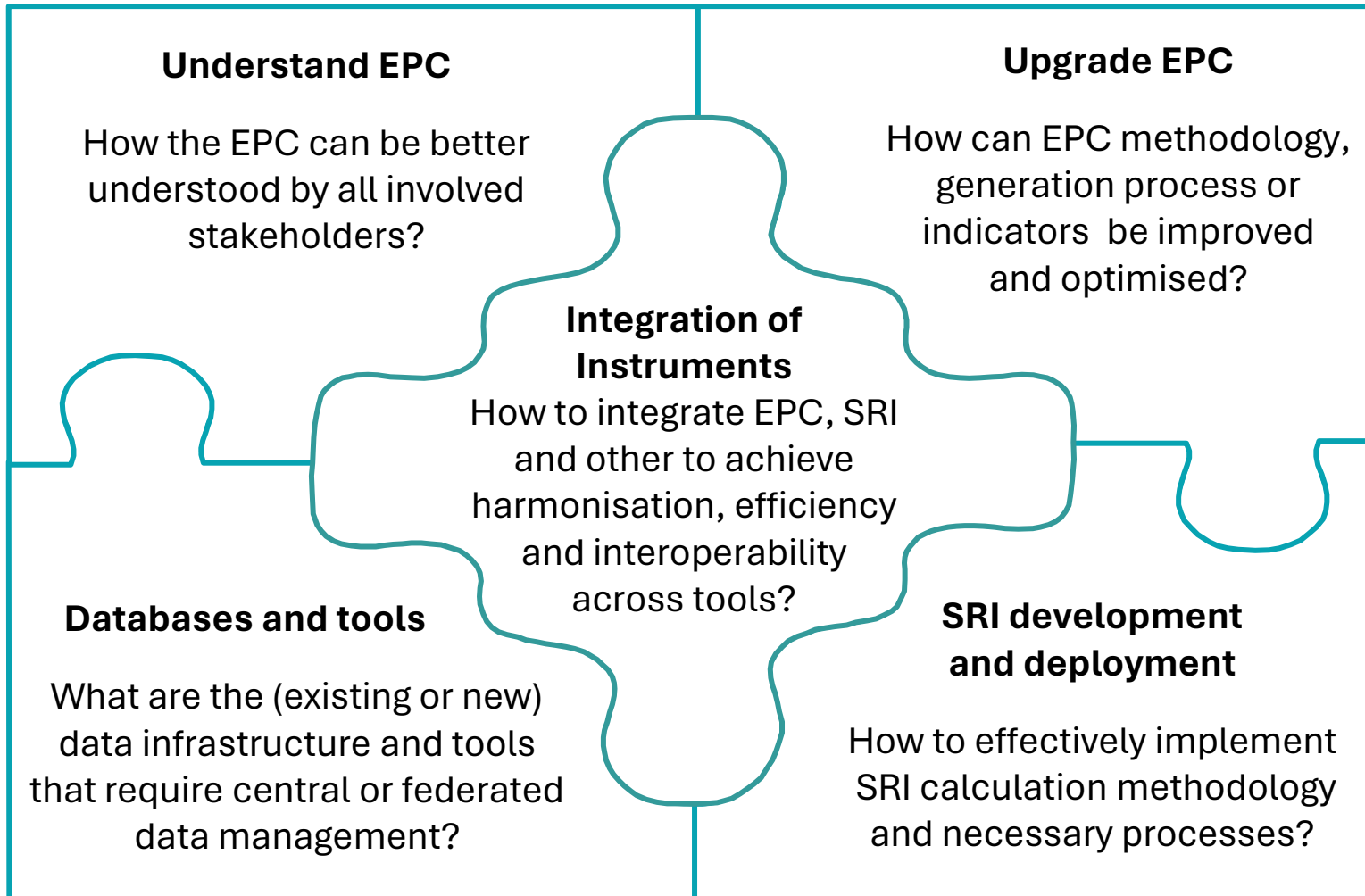
Next Gen EPC Cluster

The Next Gen EPC cluster connects EU projects across Horizon and LIFE programs



Practice Collection

The practice collection makes research efforts and evidence accessible along five leading questions



Practice collection

Includes:
motivation, evidence,
lessons learnt,
policy recommendations

Public - open access



emp.onl/tunes

Please contribute / co-edit



Area

**EPC Recommendations and
Renovation Passport**

Approach

**Aided, automated and
assessed creation of plans**



Projects covering Understand EPC



Upgrade EPC



Area

Extend EPC with further indicators (e.g. health, comfort)

Approach

Analysis of indicator overlaps, methods and data sources



Projects covering Upgrade EPC



Area

Access to EPCs,
Linking with other existing data

Approach

Analysis of current practice,
GIS coding across databases



Projects covering Databases and Tools





Unified platform to access all digital EPC and SRI tools



Development of Common Data Models and Replication Guide



Updates of Practice Collection as all projects progress



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Better Regulation Guideline & Tools

The BRG is a very advanced approach to policy making

BRG - A EUROPEAN FRAMEWORK TO POLICY MAKING



Source: empirica

BRG OVERVIEW

69 tools, >600 pages



HOW DOES BRG GET INTO A LIFE PROJECT?

empirica conducts BRG studies for the EC

We believe national policy will also benefit ...

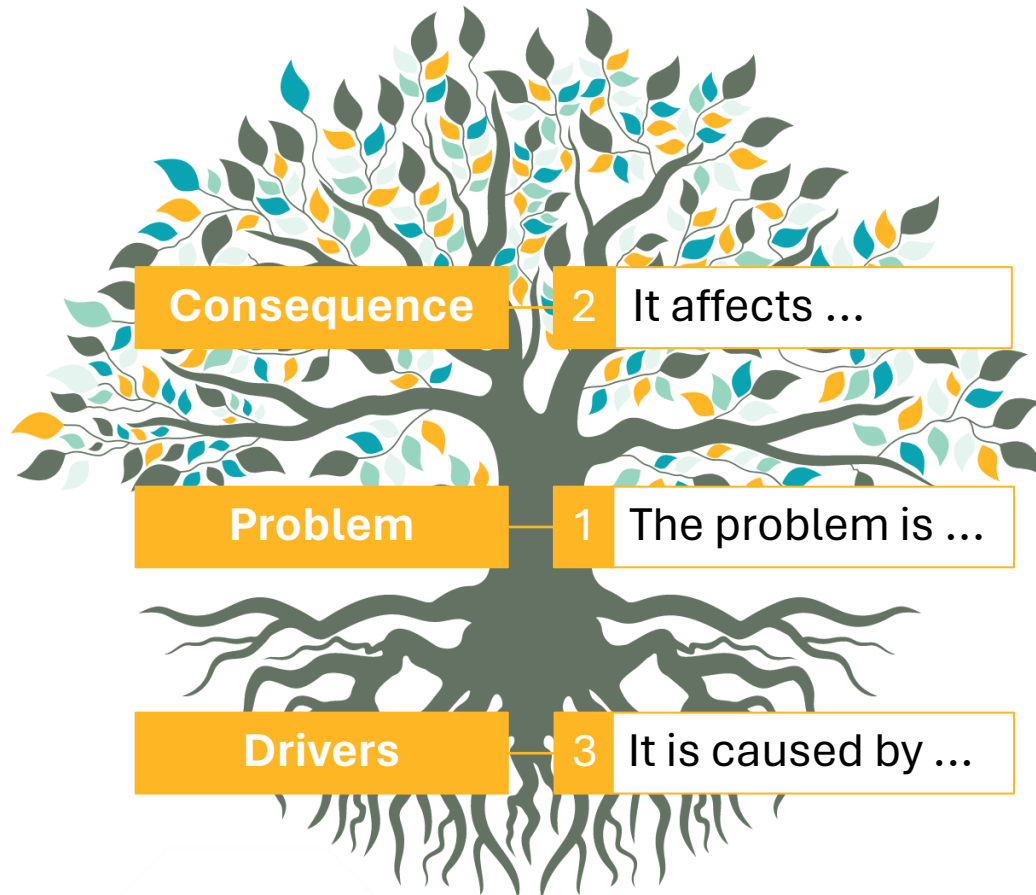
... and seven energy agencies are so brave to try



BRG Example: Problem Tree

A Problem Tree helps to understand the underlying causality of the most important issues

PROBLEM TREE LOGIC



PROBLEM TREE PURPOSE

To solve a problem, drivers must be tackled – otherwise, problem “grows” again and consequences reappear



**Open door
policy**

Energy agencies can follow

Access to all tools and templates

Scientific team ready to support

Exchange with other agencies

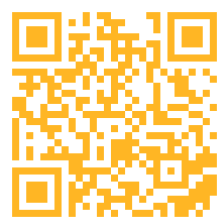
No commitment etc.

Contact us

Collection



Survey



tunES-project.eu + Newsletter



[tunES-project](https://www.linkedin.com/company/tunES-project)



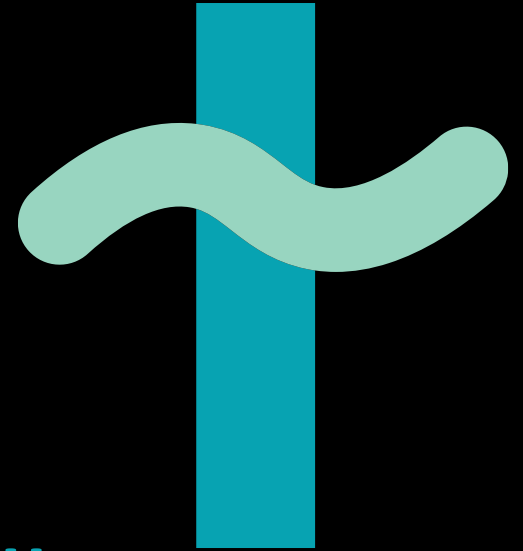
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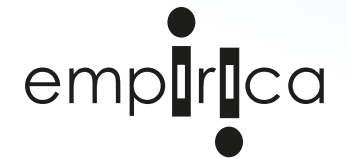
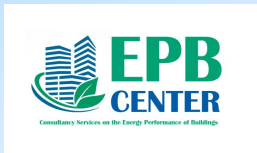
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Moderated panel discussion with all speakers

Questions welcome from the audience!



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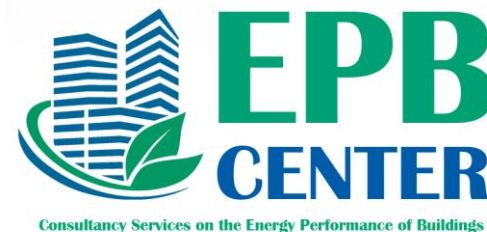


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Closing remarks & next steps

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Go raibh maith agat!

Obrigado!

Mulțumesc!

Ďakujem!

Hvala!

Gracias!

Tack!

Blгодарjá!

Hvala!

Děkuji!

Tak!

Dank je!

Thank you!

Aitäh!

Kiitos!

Merci!

Danke!

Efcharisto!

Köszönöm!

Grazie!

Paldies!

Ačiū!

Grazzi!

Dziękuję!



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