



CENER

NATIONAL RENEWABLE
ENERGY CENTRE

WORKSHOP

Smart Readiness Indicator: Tools to support the uptake of the SRI

16:00-17:30 CEST, 9 October 2025

SRI2MARKET

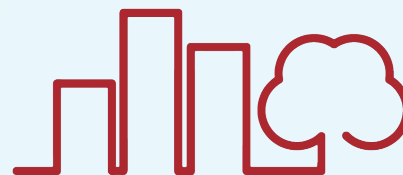
Tool Suite

María Fernández Boneta

Research Project Manager & Senior Engineer

CENER – National Renewable Energy Centre

SP2025, 9th October 2025, Milano

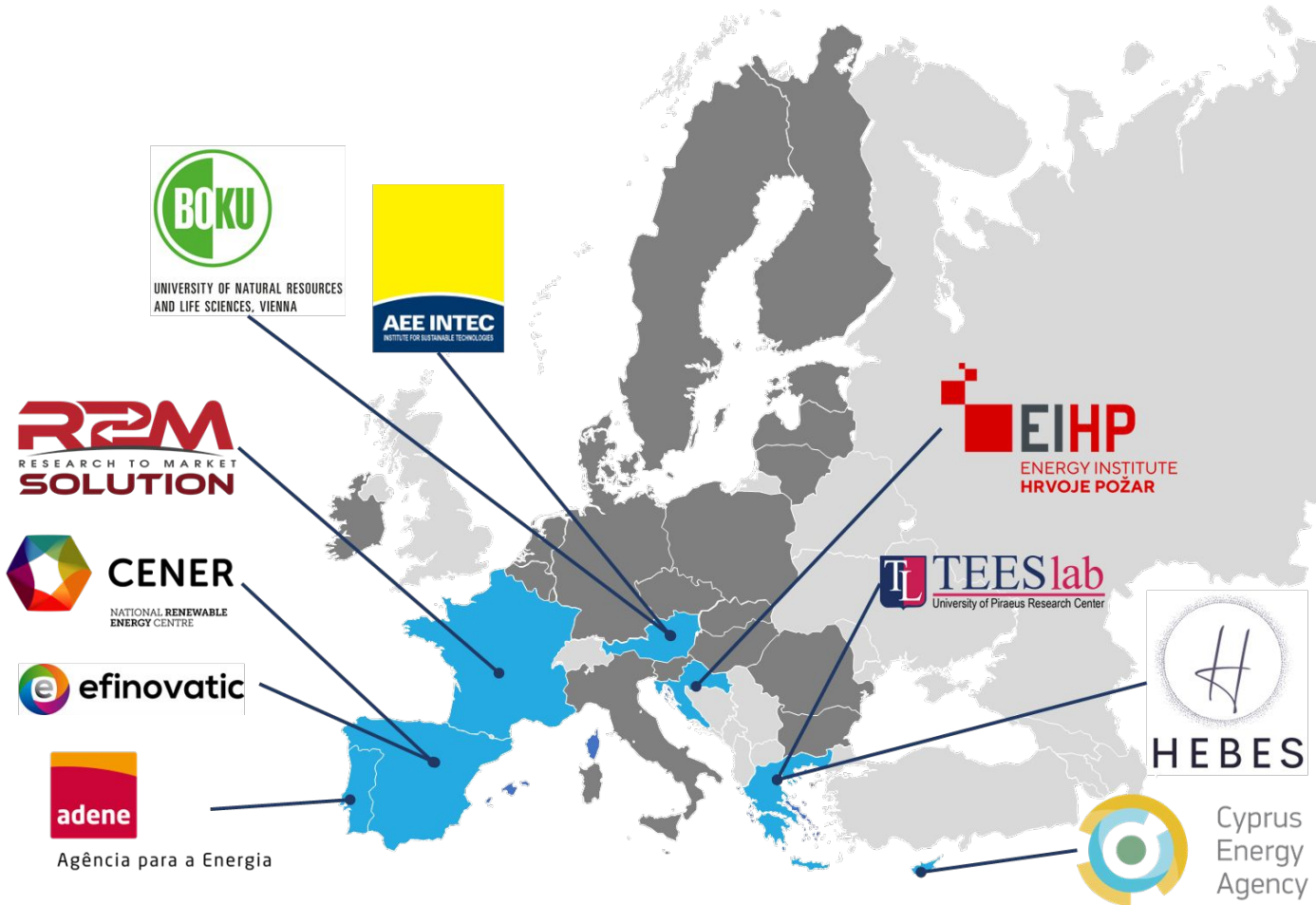


**SUSTAINABLE
PLACES 2025**



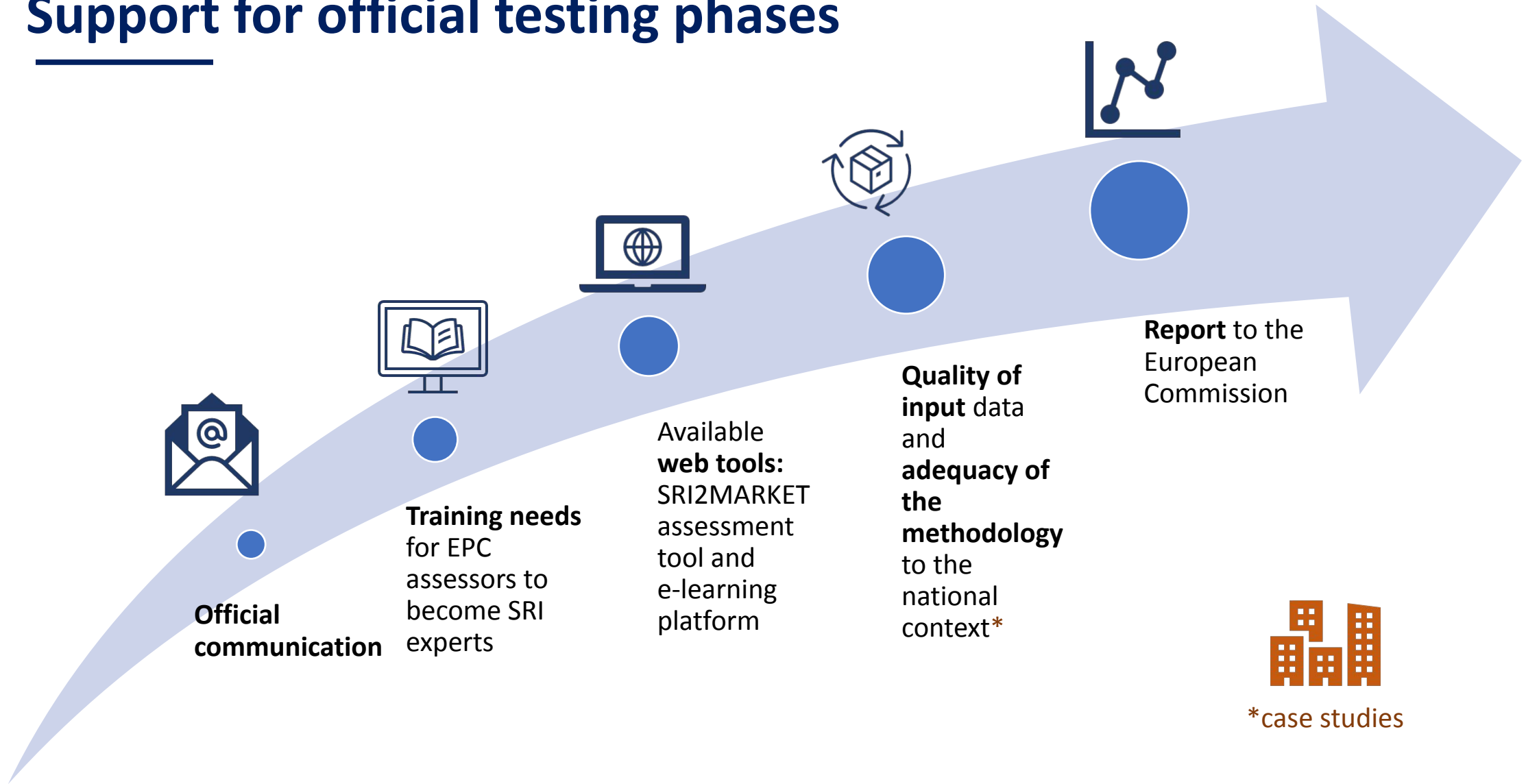
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Why SRI2MARKET?



-  Support the targeted countries on introducing the SRI into their national regulation
-  Propose public funding schemes to finance SRI upgrades in buildings
-  Develop tools to guide SRI assessors and streamline building assessments
-  Provide training to EPC assessors on the SRI and the methodology of its calculation
-  Set up SRI pilots at national level so as to identify best practices for SRI assessments
-  Provide recommendations to building owners and facility managers on cost-effective SRI upgrades

Support for official testing phases



SRI2MARKET Tool suite



EU



Austria



Croatia



Cyprus



France



Portugal



Spain

E-learning platform

Scan me!



<https://learning.sri2market.eu/>

Google account

SRI assessment tool

Scan me!



<https://sri2market.eu/>

User: sp2025
Password: sri2market

Registration



<https://learning.sri2market.eu/>

Scan me!



SRI2MARKET

Log in

[Lost password?](#)

Log in using your account on:

 Google

Is this your first time here?

For full access to this site, you first need to create an account.

Create new account

English (en) ▾

Cookies notice



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Learning SRI2MARKET

Available courses

[SRI2MARKET English Version ➔](#)



SRI2MARKET course offer e-learning lessons on the SRI and its assessment methodology.

Teacher: Pablo Carnero

Teacher: María Fernández Boneta

Teacher: Sotiris Papadelis

[SRI2MARKET curso en español](#)



El curso SRI2MARKET ofrece lecciones de aprendizaje online sobre el SRI y su metodología de evaluación.

Teacher: Francisco Aguilar

Teacher: Sergio Díaz de Garayo

Teacher: María Fernández Boneta

Teacher: Miguel Ángel Pascual

Teacher: Marta Sampedro

[Curso SRI2MARKET Portugal ➔](#)

SRI2MARKET



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SRI2MARKET e-learning platform



<https://learning.sri2market.eu/>



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Home Dashboard My courses Site administration

Student

1

- Welcome
- Introduction
- Common EU scheme
- 1. Heating domain
- 2. Cooling domain
- 3. Domestic hot water do...
- 4. Ventilation domain
- 5. Lighting domain
- 6. Dynamic building envel...
- 7. Electricity domain
- 8. Electric vehicle charging...
- 9. Monitoring and control ...
- SRI2MARKET web tool
- Case studies: real projects
- Become SRI expert
- Feedback about the SRI

2

3

SRI2 MARKET F

case studies

WWW

SRI2MARKET TOOL

PILOT COUNTRIES CASE STUDIES

DATA BASE

review committee

Following the process above, the course will include a system of badges which will be awarded to each student who achieves and completes a particular part of the course according to the criteria below:

- Level 1 - SRI User:** Register for the course and read (and "mark as done") the sections "Course info", "Introduction to the SRI" and "History of the SRI".
- Level 2 - SRI Beginner:** Pass all quizzes with a minimum grade of 6.
- Level 3 - SRI Expert:** Pass the course with a grade of 6 or above, submit the assignment (see Become SRI expert) and submit the feedback form (survey).

SRI2MARKET SRI USER

History of the SRI

What is the SRI?

SRI2MARKET SRI BEGINNER

Validation quizzes

Methodology

SRI2MARKET SRI EXPERT

Survey

Improvement package

Building assessment

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EN

SRI2MARKET
FR

SRI2MARKET
HR

SRI2MARKET
AT

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ES

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PT

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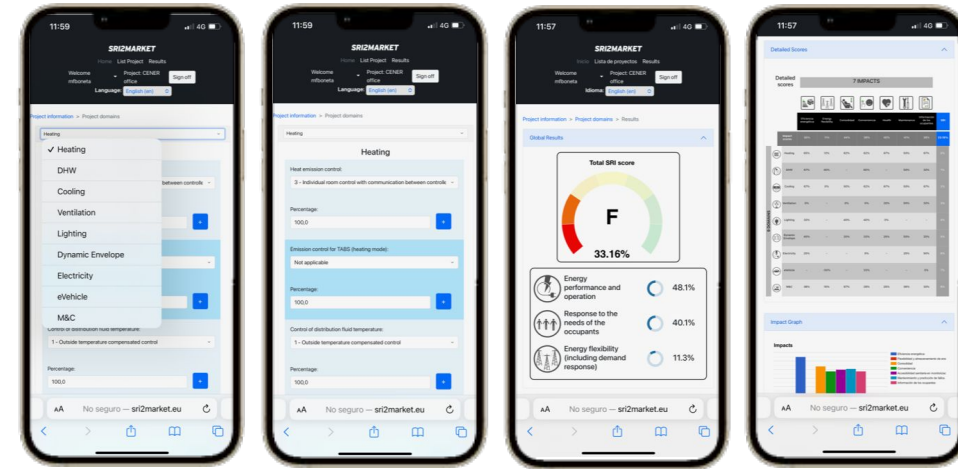
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SRI2MARKET assessment tool



<https://sri2market.eu>

User: sp2025
Password: sri2market



SRI2MARKET Login Language: English (en)

Home New project Project List Basic Benchmarking Advanced Benchmarking Quick Exploration FAQs

Welcome to the SRI2MARKET platform

To get credentials to access this SRI assessment tool, you need to visit the

[SRI2MARKET e-learning programme](#)

And complete at least the level 2 of the programme ("SRI beginner")

This online application has been developed by the SRI2MARKET project co-funded by the European Union

It is compliant with the legal framework of the **Smart Readiness Indicator (SRI)**, a common EU scheme for rating the smart readiness of buildings

It implements the national technical frameworks decided by 6 EU countries represented in the SRI2MARKET project



Austria Croatia Cyprus France Portugal Spain

The SRI is expressed as a rating derived from an overall smart readiness score expressed as a percentage, which represents the ratio of the smart readiness of a building to the maximum Smart Readiness it could achieve.

The methodology also refers to the following three key functionalities:



Scan me!



SRI2MARKET



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User roles



Super
Admin

National
Admin

National
Coordinator

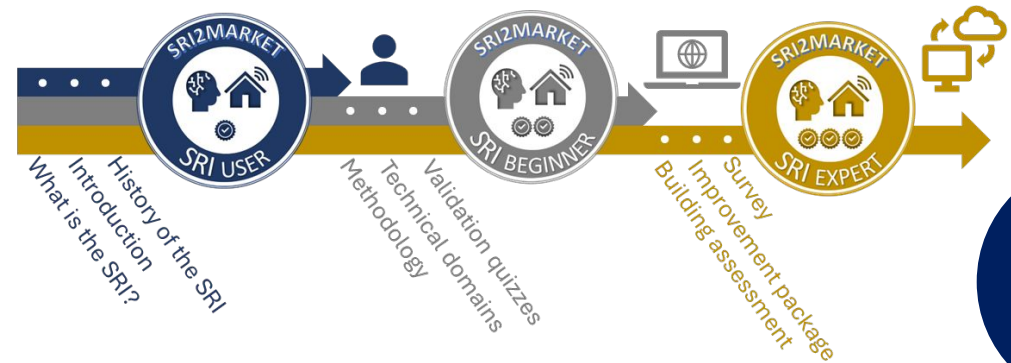
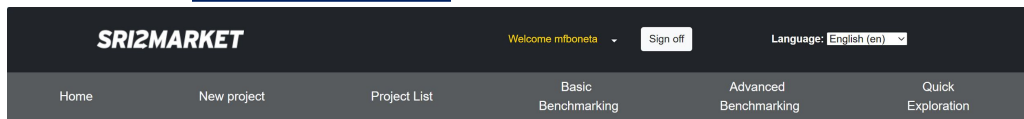
Level 2
Trainees

Level 3
Assessors

User roles



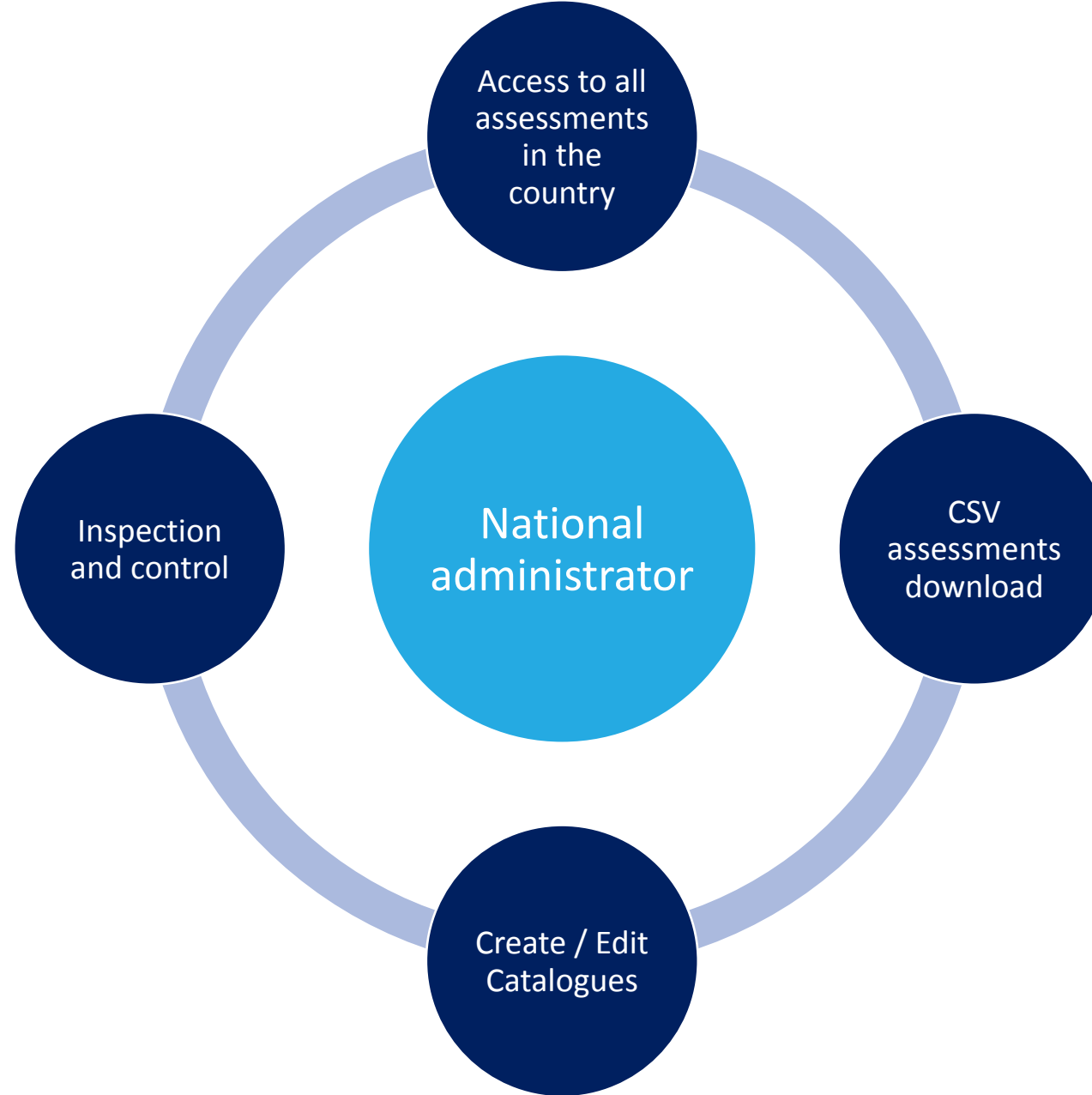
User roles



User roles



User roles





Input forms

Scan me!



SRI2MARKET

Home Project List Results

Welcome
sp2024

Project:
Example-
Off...

Sign off

Language: English (en)

Project information > Project domains



Heating



DHW



Cooling



Ventilation



Lighting



Dynamic Envelope



Electricity



eVehicle



M&C

Heating

Heat emission control:

3 - Individual room control with communication between controllers and to BACS

0 - No automatic control

1 - Central automatic control (e.g. central thermostat)

2 - Individual room control (e.g. thermostatic valves, or electronic controller)

3 - Individual room control with communication between controllers and to BACS

4 - Individual room control with communication and occupancy detection

Not applicable

2 - Demand based control

Percentage:

100,0



Percentage:

100,0



Percentage:

100,0



Control of distribution pumps in networks:

3 - Variable speed pump control (pump unit (internal) estimations)

Percentage:

100,0



Thermal Energy Storage (TES) for building heating (excluding TABS):

Not applicable

Percentage:

100,0



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HEATING DOMAIN

Heat emission control (H1a)

All heat emitters included, except
for TABS.

INTENT

The objective is to adjust the heat delivered at room level, preferably by applying the
control function to the heat emitter.

FUNCTIONALITY LEVELS

Level 0. No automatic control of the room temperature.
Level 1. Only central automatic control, indirectly controlling one or more rooms by
acting either on the distribution or on the generation without consideration of local
demand of different rooms.
The heat delivered at the room is adjusted by a control function non-exclusive of the
room to be controlled.
Level 2. Individual automatic room control without communication between controllers
and BACS.
The heat delivered at the room is adjusted by a control function exclusive of the room
to be controlled without any information exchange outside the controlled room.
Level 3. Individual modulating room control with communication between controllers
and BACS.
The heat delivered at the room is adjusted by a control function exclusive of the room
to be controlled with information exchange outside the controlled room.
Level 4. Individual modulating room control with communication between controllers
and BACS and demand detection-control.
The heat delivered at the room is adjusted by a control function, coupled with
occupancy detection, exclusive of the room to be controlled with information exchange
outside the controlled room.

SRI2MARKET

H1a

SRI2MARKET



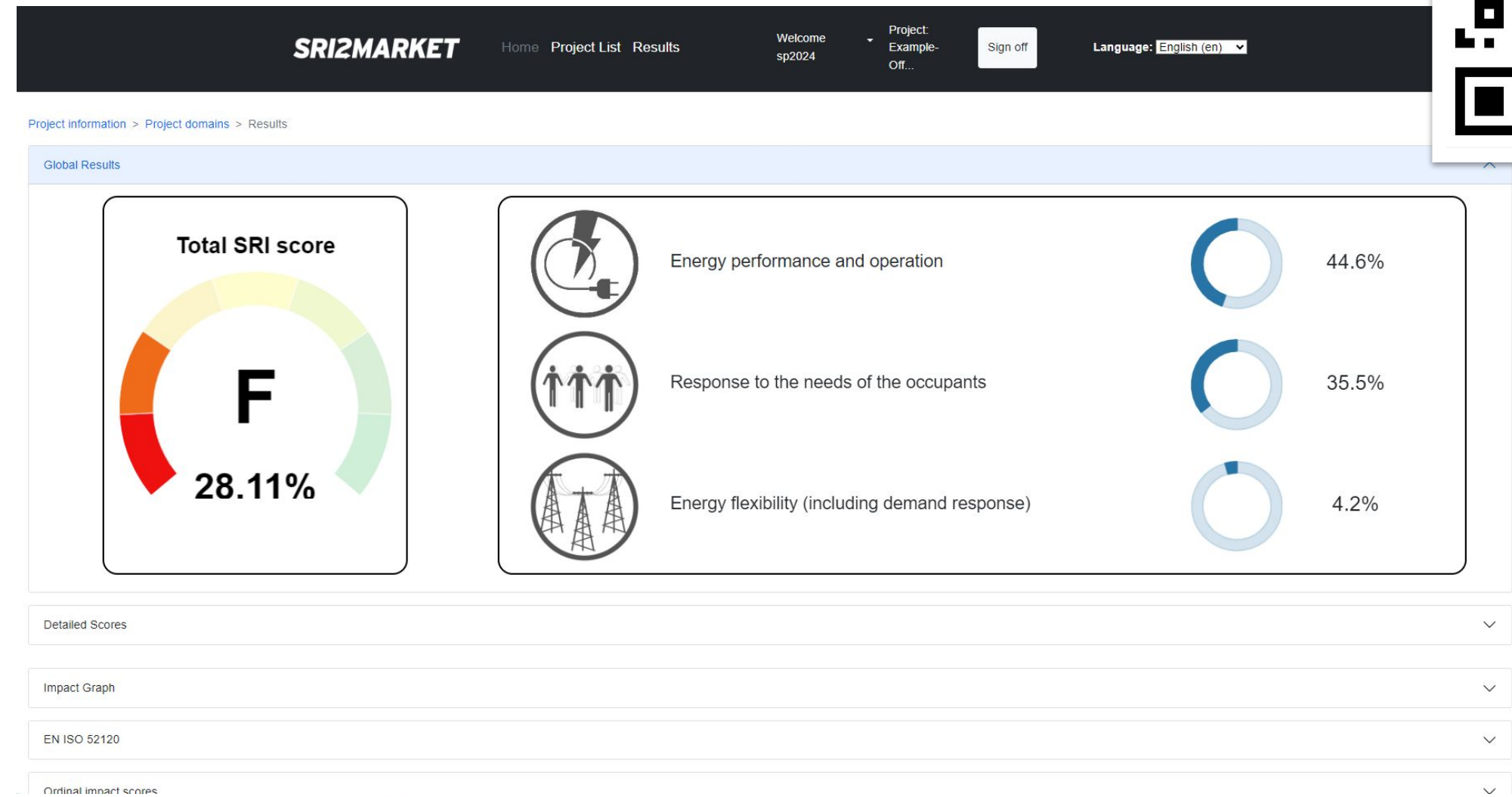
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Results



Improvement packages



Project List

Name	Catalogue	Country	Modify	Delete	Duplicate	ISO52120	ISO52120	Download
Example- Office building	Default Method B	Spain	Modify	Delete	Duplicate	↑ A	↑ B	Download

1 / 1

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CONTACT INFO

<https://learning.sri2market.eu/>

Email: contact@sri2market.eu

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Basic benchmarking

SRI2MARKET

HomeProject List

Welcome
sp2024

Sign off

Language: English (en)

Benchmarking

Country:

Building Type:

Building Usage:

Building state:

Catalogue:

Effective rated output for HVAC systems:

Climate:

Assessment purpose:

Current building state

Data presented in this assessment reflects the current state of the building or a package of measures/recommendations for updating the BACS

Energy class:

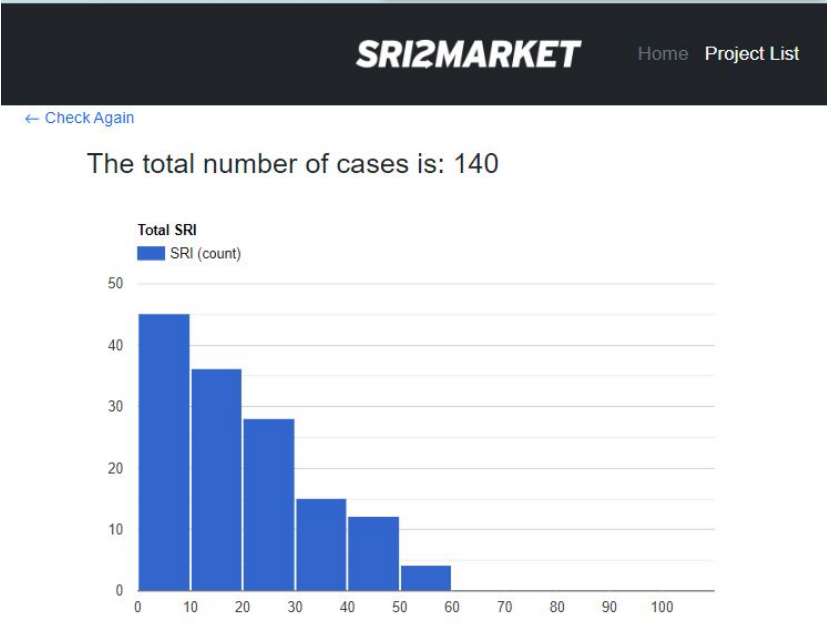
-

Energy Performance Certificate (EPC) label/class

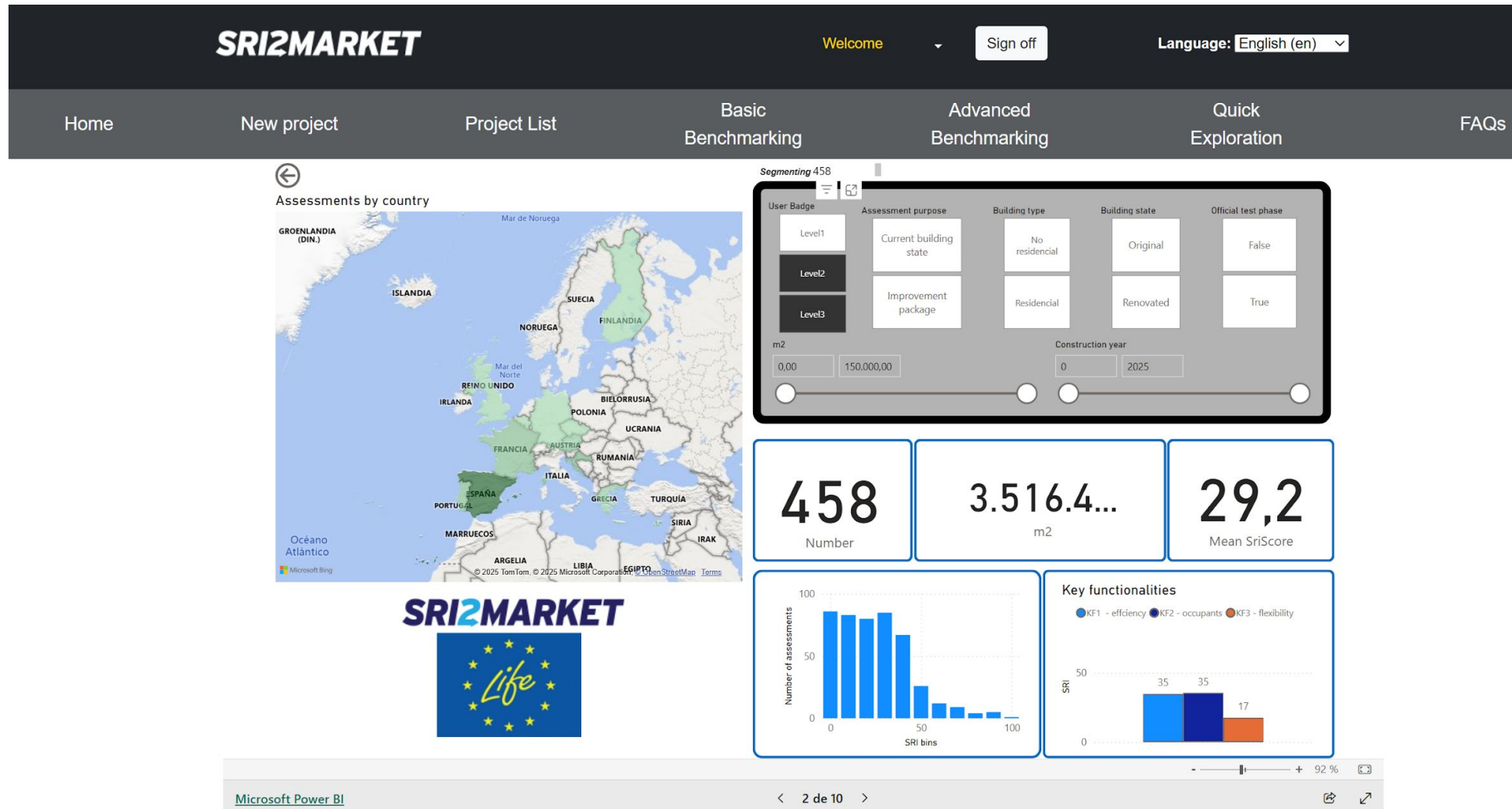
Official test phase:

☐ Click if this assessment is part of an official Member State test

Submit



Advanced benchmarking



Link to the iEPB project



Project List

Name	Catalogue	Country	Modify	Delete	Duplicate	ISO52120	ISO52120	Download
Example- Office building	Default Method B	Spain	Modify	Delete	Duplicate	↑ A	↑ B	Download

1 / 1

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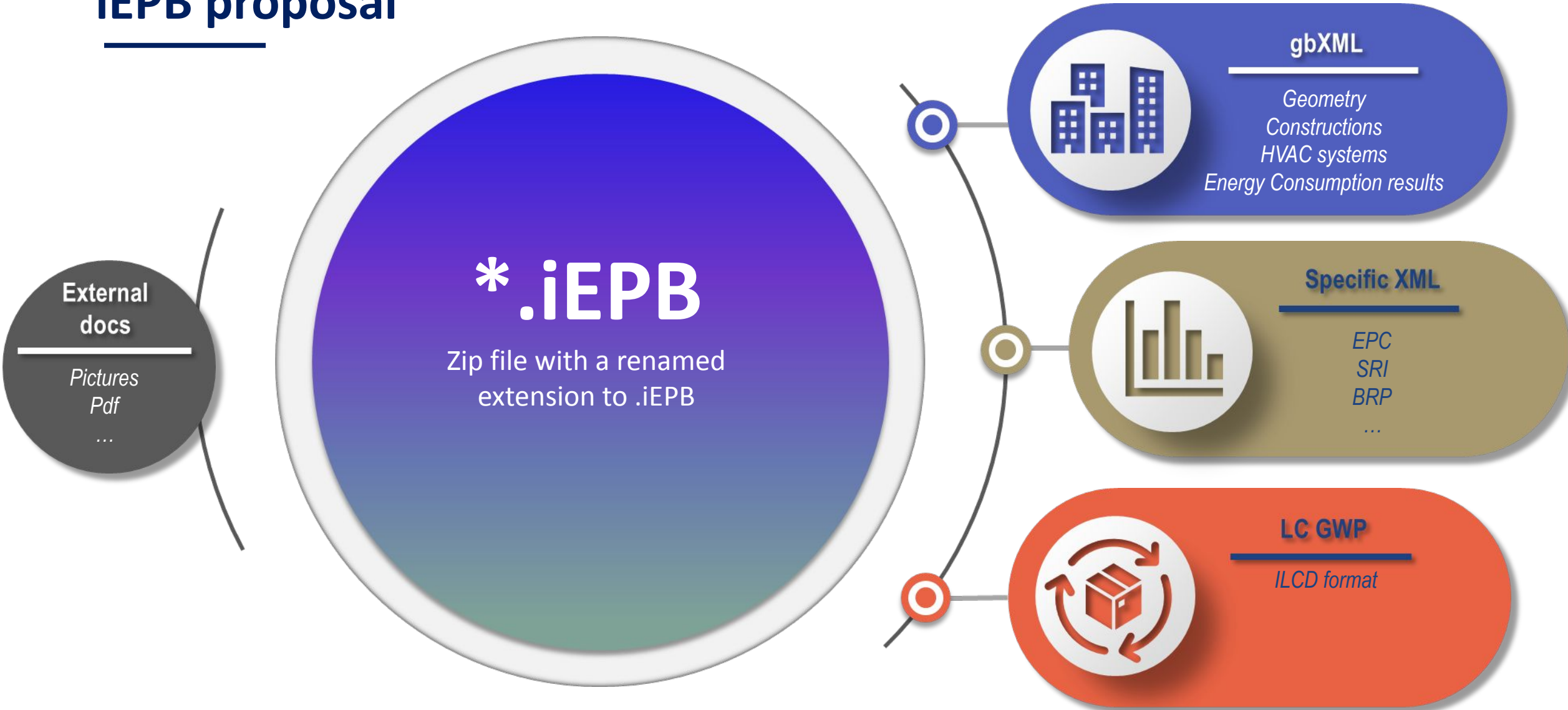


iEPB
schema

Common
data model



iEPB proposal



Thank you!



María Fernández Boneta

mfboneta@cener.com

Research Project Manager & Senior Engineer

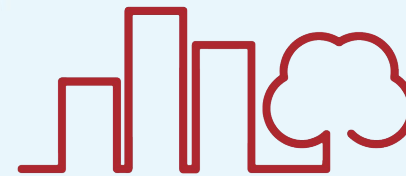
National Renewable Energy Centre - CENER



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SRI2MARKET



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**Benchmarking to plan ahead:
the easySRI platform**
Stavros Koltsios & Paraskevas Koukaras (CERTH)



This project has received funding from the European Climate, Infrastructure & Environment Executive Agency (CINEA) under grant agreement no 101077169.

easySRI Tools/Features — Value & How to Access

- ✓ **Who uses it:** assessors, building owners, public authorities and more.
- ✓ **What you get:** faster SRI assessments, upgrade recommendations with impacts/payback, portfolio KPIs and maps, exportable reports.
- ✓ **Typical use cases:** single-building audits, multi-site benchmarking, renovation planning, compliance reporting.
- ✓ **See it live:** scan the QR or use the link—more details in the workshop demo. *Note: non-registered users have limited functionality.*

easySRI Platform

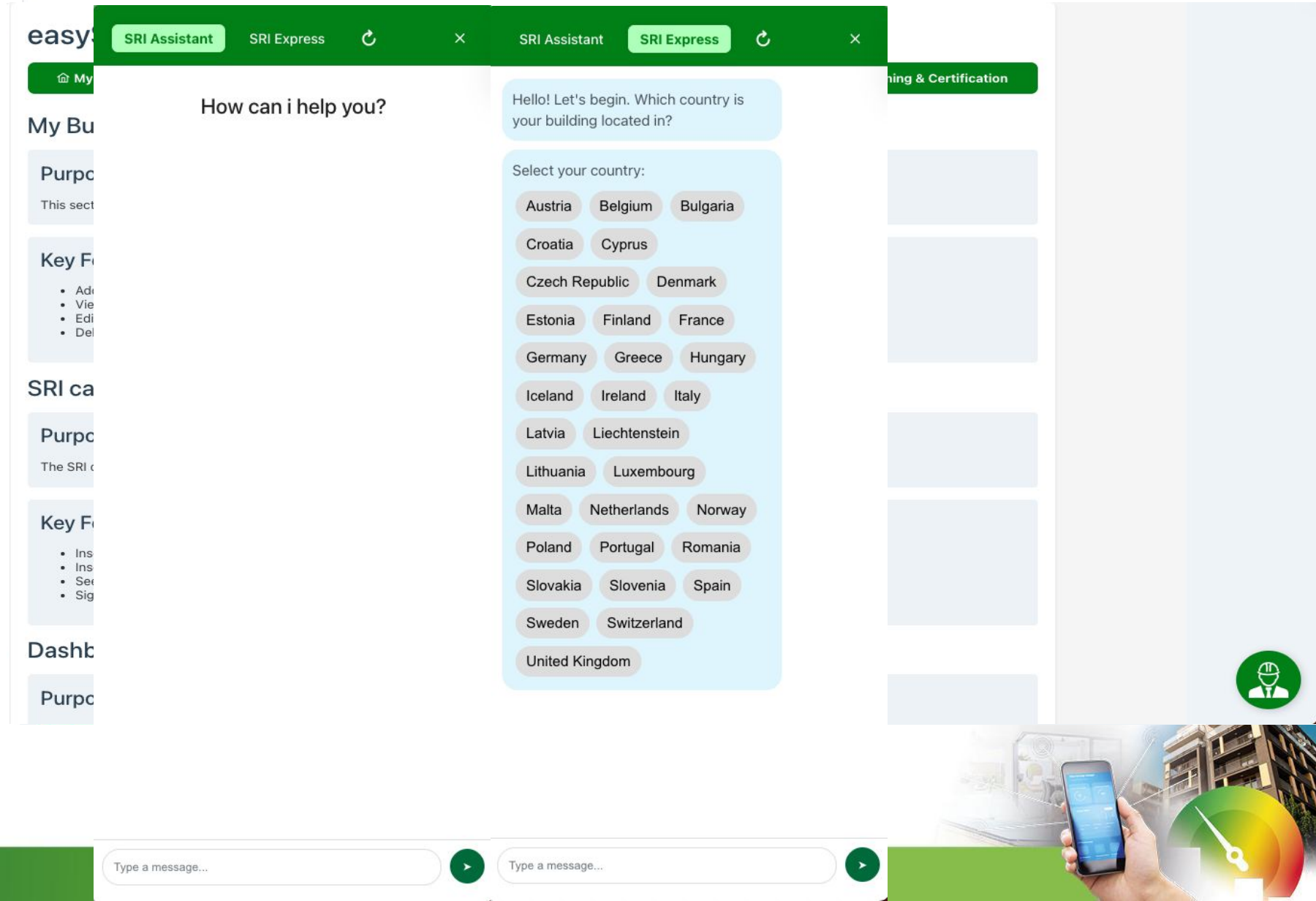


<https://easysri.itl.gr/>



easySRI Tools/Features — What it does

- ✓ **My Buildings:** central register with full building profiles and SRI history.
- ✓ **SRI Calculation Wizard:** guided assessment, supports domains, services, and functionality levels.
- ✓ **Recommendation System:** upgrade options with impacts and budget.
- ✓ **Investment Portfolio:** plan, prioritise, and track retrofit actions.
- ✓ **Dashboard (Admin):** KPIs by impact criterion & domain, trends, and map view.
- ✓ **Reporting & Data:** exports for compliance, import SRI data when available.



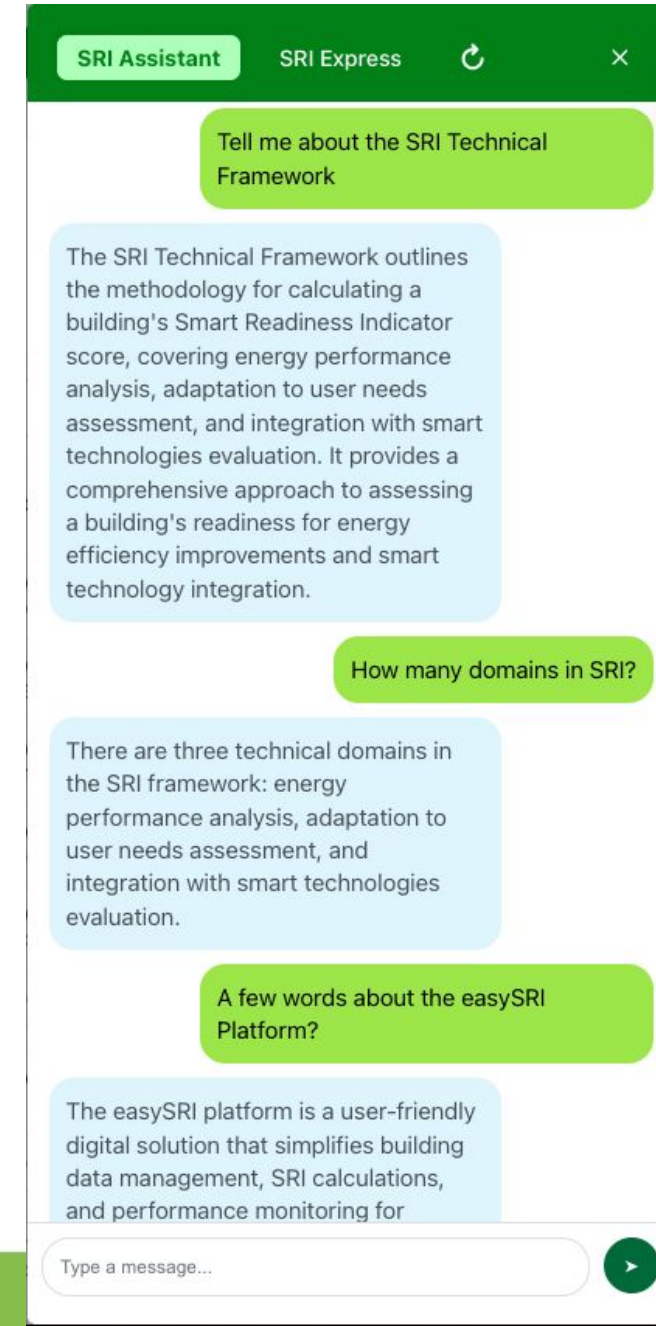
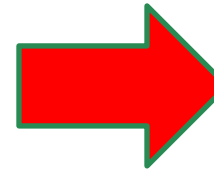
AI-powered SRI Assistant

Features (indicatively)

- ✓ Information about SRI Technical framework
- ✓ Training material
- ✓ Helps navigating the easySRI platform
- ✓ And more...

Benefits

- ✓ **User-Friendly** – Guides users through SRI and platform navigation.
- ✓ **Always Accessible** – Available anytime for quick support.
- ✓ **Efficient** – Simplifies learning with instant explanations.
- ✓ **Seamless Integration** – Works smoothly within easySRI.

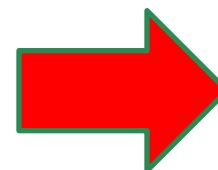


SRI Express

- ✓ **SRI Express** (the chatbot that guides you through the SRI assessment steps)

Benefits

- ✓ **Faster Assessments** – Streamlines the SRI process with an interactive chatbot.
- ✓ **Simplified Experience** – Eliminates manual data entry with guided responses.
- ✓ **User-Friendly** – No need for expert knowledge; the chatbot leads the way.
- ✓ **Reduced Errors** – Minimizes mistakes by ensuring structured inputs.



Up to 60-80% Reduction in Assessment Time

Faster, Smarter, More Efficient!



Instead of typical method A (simplified SRI Assessment)

SRI Assistant

SRI Express

Hello! Let's begin. Which country is your building located in?

Select your country:

Austria

Belgium

Bulgaria

Croatia

Cyprus

Czech Republic

Denmark

Estonia

Finland

France

Germany

Greece

Hungary

Iceland

Ireland

Italy

Latvia

Liechtenstein

Lithuania

Luxembourg

Malta

Netherlands

Norway

Poland

Portugal

Romania

Slovakia

Slovenia

Spain

Sweden

Switzerland

United Kingdom

Type a message...



My Buildings > Sustainable Places 2025, Milan, Italy

Building Information

Building Certificates

+ New Certificate

Results: 2

Search Filters Clear					
Certificate No. ↑↓	Signed ↑↓	Method ↑↓	SRI Score ↑↓	Last Update ↑↓	Actions
0000001045	-	Simplified	8,84%	05/10/2025 - 21:22	
0000001044	-	Express	8,84%	05/10/2025 - 20:31	

Show 1 to 2 from 2 records

<<<>>>

1

>>>

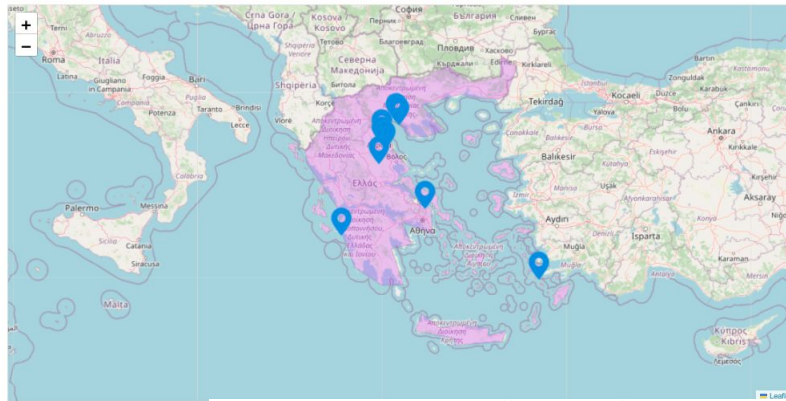
10



Dashboard for Building Portfolio Management

- ✓ Number of SRI Assessments
- ✓ Average Overall SRI Score (express, simplified and detailed assessment) + more detail
- ✓ Location-based view (with filtering)
- ✓ Distribution of SRI Ratings
- ✓ Peer Group Comparisons
- ✓ And more...

Location-Based View



Historical Trends and Progress Tracking

0000000012

[Go to selected building](#)

Time-Series Analysis



Filters

Country:

Climate Zone:

Building Type:

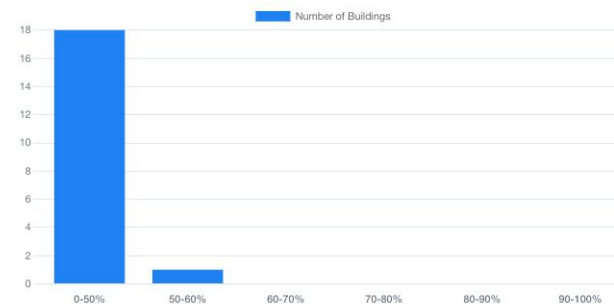
Building Usage:

Total useful floor Area of the building:

Year of construction:

Building state:

Distribution of SRI Ratings



Admin Dashboard

Average SRI Score

25.5 %

Express

Simplified

Detailed

Number of Assessments

375

Score per Key Functionality

Energy Performance & Operation	26,20 %
Response to User Needs	29,68 %
Energy Flexibility	20,63 %

Score per Impact Criterion

Energy Efficiency	34,34 %
Maintenance & Fault Prediction	18,06 %
Comfort	32,99 %

Score per Technical Domain

Heating	40,54 %
Cooling	16,28 %
Domestic Hot Water	22,84 %
	15,64 %
	13,82 %
	15,40 %
	3,25 %
	18,42 %
	8,08 %

Peer Group Comparisons

0000000012

[Filters](#)

[Go to selected building](#)

Overall SRI score



Score per Key Functionality



Score per Impact Criterion



Score per Technical Domain



Top/Bottom Performers

Top Performers

- Building certificate 0000000057 - 57,13%
- Building certificate 0000000052 - 37,56%
- Building certificate 0000000071 - 28,36%

Bottom Performers

- Building certificate 0000000064 - 9,47%
- Building certificate 0000000067 - 9,63%
- Building certificate 0000000133 - 10,24%



Investment Portfolio

Two options

- ✓ **SRI Optimizer** based on cost categories (automation, installation, operation and management)
- ✓ **RES & BESS Optimizer**

Smart Devices		
>	G120P 3or35B Variable Speed Drive and G120P IP55 PAN EXT and G120P AIRSHEET FSA and G120P IOP 2 BT Intelligent operator panel	Netherlands
>	WFW636 D110 Electronic impeller type hot water meter and M bus radio communication and S mode WTT662 BA1100 Network node	Netherlands
>	RDF600KN Flush mount KNX room thermostat	Italy
>	RDS110 Smart Room Thermostat	Italy
>	RVL482 Heating controller for boiler temperature control for modulating or 2 stage burners with DHW heating	Italy
>	N543D51 Solar protection actuator and 8xAC230V and 6A with end position detection	Italy
>	RVL482 Heating controller for boiler temperature control for modulating or 2 stage burners with DHW heating	Cyprus

Investment Portfolio

+ New Investment

Results: 4

	Building Name	Identification No.	Building Address	Owner Name	Building Type	Method	SRI Score	Actions
▼		BU-0000000600			Residential			
		CERT-0000000667				Detailed	23,66%	→
>		BU-0000000464			Residential			
▼		BU-0000000011			Non-residential			
		CERT-0000000056				Detailed	33,46%	→

easySRI Recommendation System

SRI Optimizer

- ✓ **Step 1: Input Selection**
Users select their **country** and set an **investment budget** to receive smart upgrade recommendations.
- ✓ **Step 2: Optimization & Results**
An algorithm optimizes SRI improvements **within budget**, providing **total cost**, optimized **SRI score**, and **recommended investments**.

Step 1

New Investment

Building

0000000464

Certificate

0000000525

Country

Cyprus

Investment Costs €

4500

⊗ Cancel

⊕ Create new investment

Total SRI Score

23.13%

Investment after Optimization:

€2933

Suggested Products

Upgrade info: For H-2a Upgrade level from 1 to 2
Smart device: RVL482 Heating controller for boiler temperature control for modulating or 2 stage burners with DHW heating
Devices needed: 5

Upgrade info: For H-2b Upgrade level from 1 to 2
Smart device: RVL482 Heating controller for boiler temperature control for modulating or 2 stage burners with DHW heating
Devices needed: 5

Upgrade info: For V-1a Upgrade level from 3 to 4
Smart device: RMU710B 1 Universal controller
Devices needed: 2

Upgrade info: For C-3 Upgrade level from 3 to 4
Smart device: UH50 A74 00 Ultrasonic heat meter and RS 485 MSorTP BACnet module and WZU5 2815 pair of temperature sensors
Devices needed: 2

Step 2



Improving and demonstrating the potential of SRI



<https://www.easysri.eu/en/>



<https://www.linkedin.com/company/easysri>



https://twitter.com/sri_easy



<https://www.youtube.com/@easysri2022>



SMART²

Smart-Tools for Smart Buildings





**SRI
Observatory**



Smart Ready Go!™



**Smart Readiness
Virtual Training
Centre**



SRI FAQ



CWA 19183



Click on the items to
access the online
resources

SMART²



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SRI

Observatory



SRI Observatory

The site to stay up-to-date on the latest Smart Readiness Indicator (SRI) policy developments at the EU level, track and compare national implementation statuses, and learn about the most relevant research advancements in building smartness.



The SRI Observatory is a result of the
Smart Square project



Smart

Ready

Go!™



Futureproofing SRI Assessments

The Smart-Ready-Go! Tool – Main Functionalities



About

A short introduction about SRI, including tutorials and documentation.



Assessment

Supports Method A and Method B.



Call Centre

Oversimplified method for calculating the SRI.



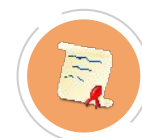
Dashboard

Visualizes assessments across EU countries.



Virtual Training Centre

Platform for learning smart-ready buildings.



Contact Us

Help for easy communication with the user.



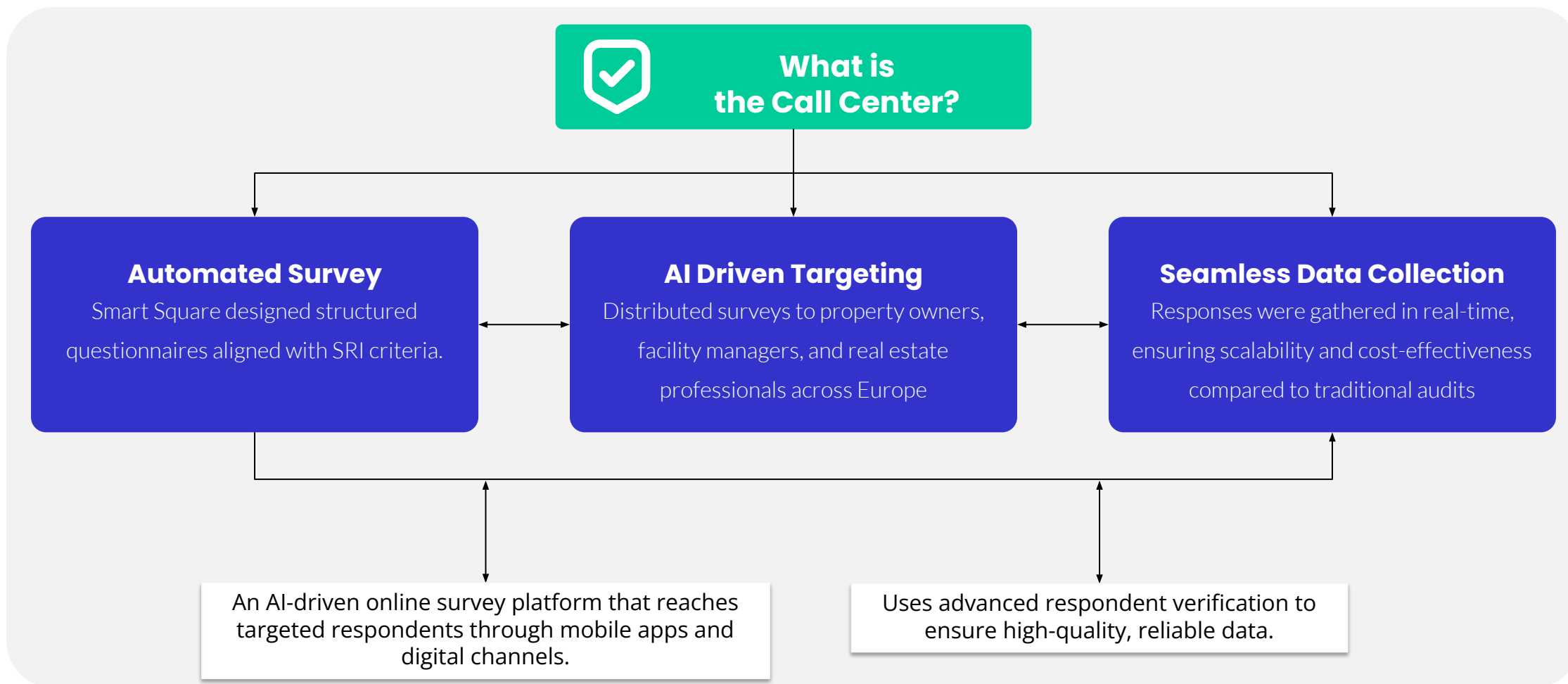


WELCOME TO



Scalable SRI Assessments

The Call Center





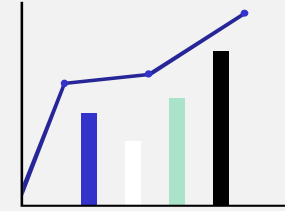
5000+ Assessments

5,000+ automated SRI
assessments conducted
efficiently



Visualization Dashboards

Data processed and visualized
through Smart Square's
open-access dashboards.

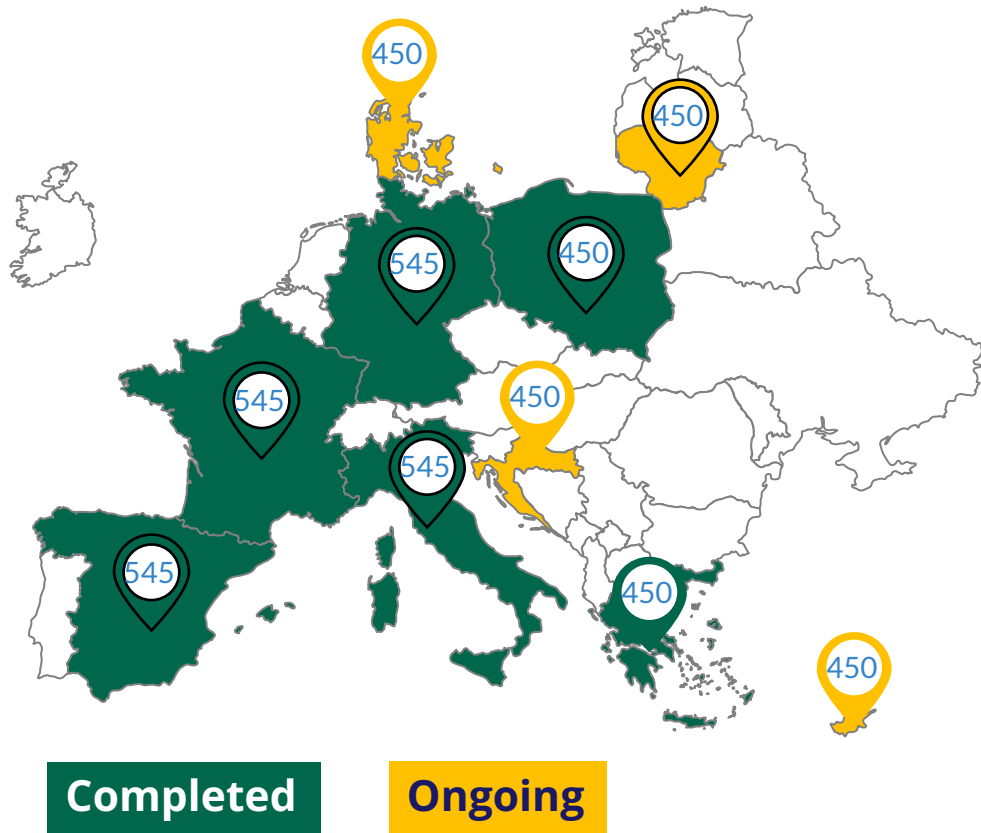


Replicable model

A scalable, replicable model for
assessing the smart readiness of
buildings across the EU

Scalable SRI Assessments – Automated Data Collection with Call Centers

SRI Data Collection: Progress & Insights Across Europe



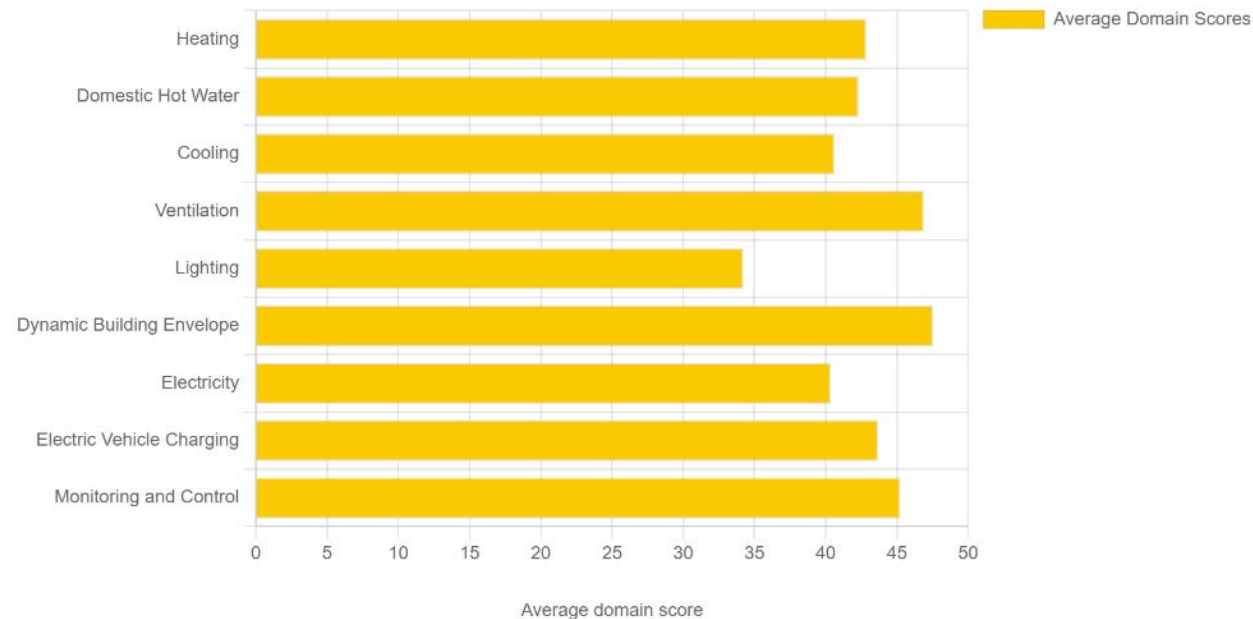
Key points

- **Automated SRI Assessments at Scale** – Utilizing Pollfish for large-scale data collection, enabling efficient and automated SRI evaluations across multiple countries through call centres.
- **Extensive Data Collection Across Europe** – SRI assessments were conducted in 10 countries, with 6 completed (3,980 assessments) and 4 pending (1,800 additional surveys), covering diverse building conditions.
- **Key Insights from Major Markets** – The collected data allows insights into average smartness conditions in Germany, Italy, Spain, and France, shaping future smart building policies.

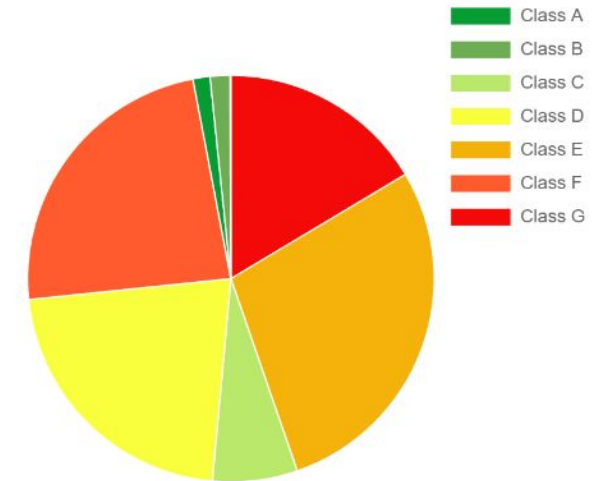
Scalable SRI Assessments – Automated Data Collection with Call Centers

Overview of 545 Assessments, conducted in Germany

Domain Scores

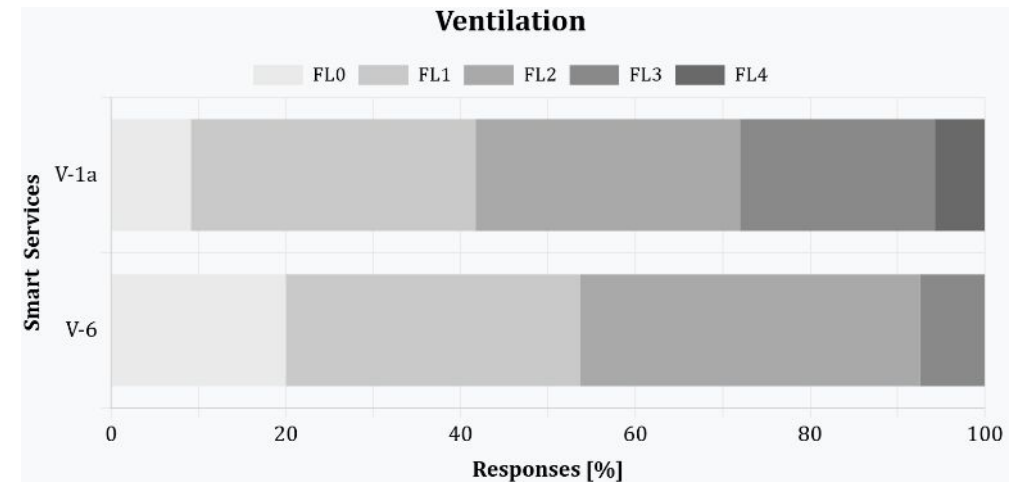
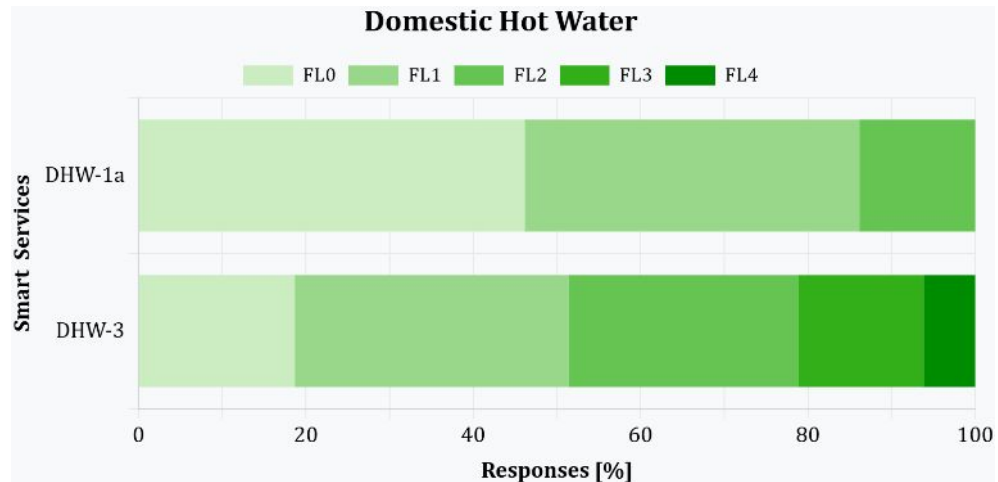
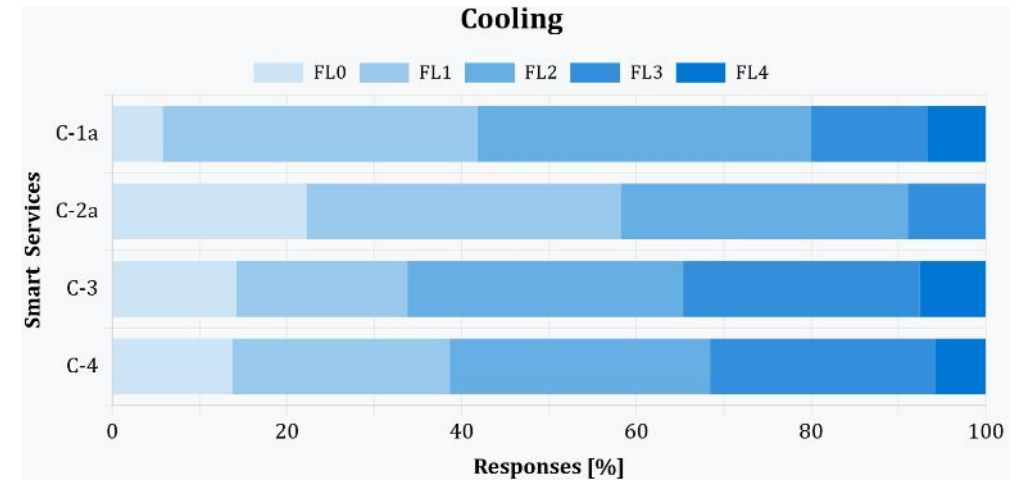
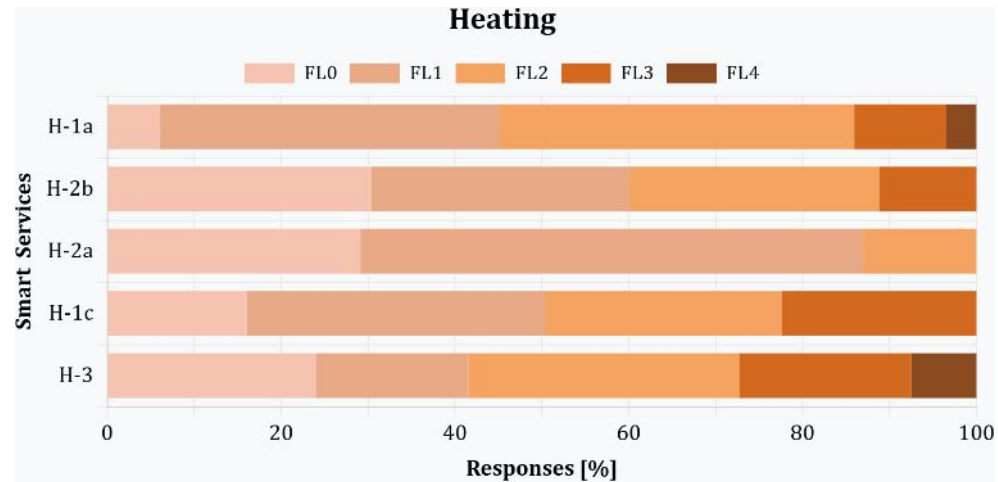


SRI Class



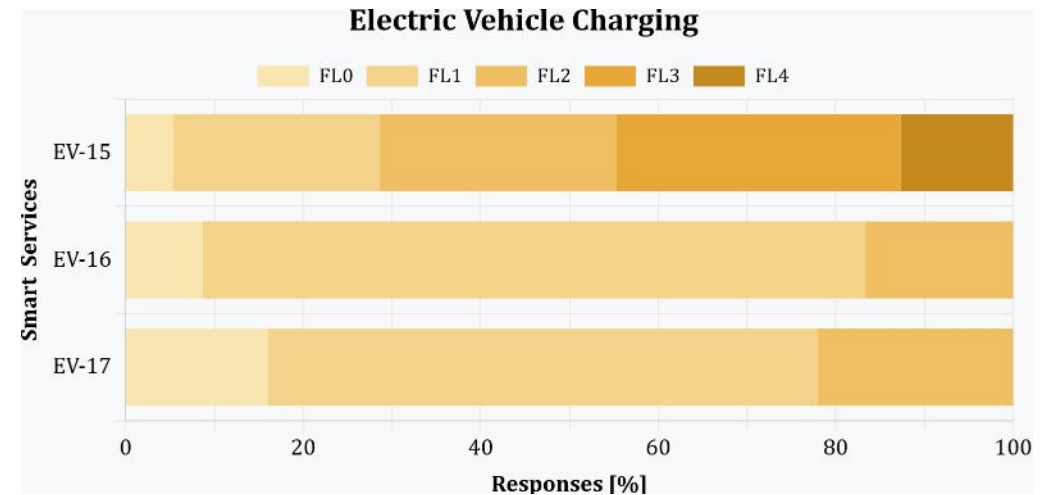
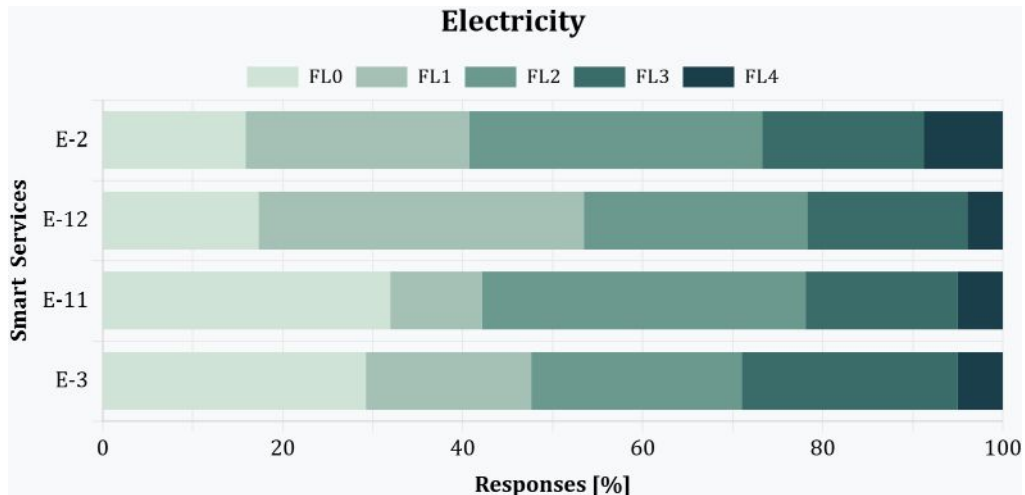
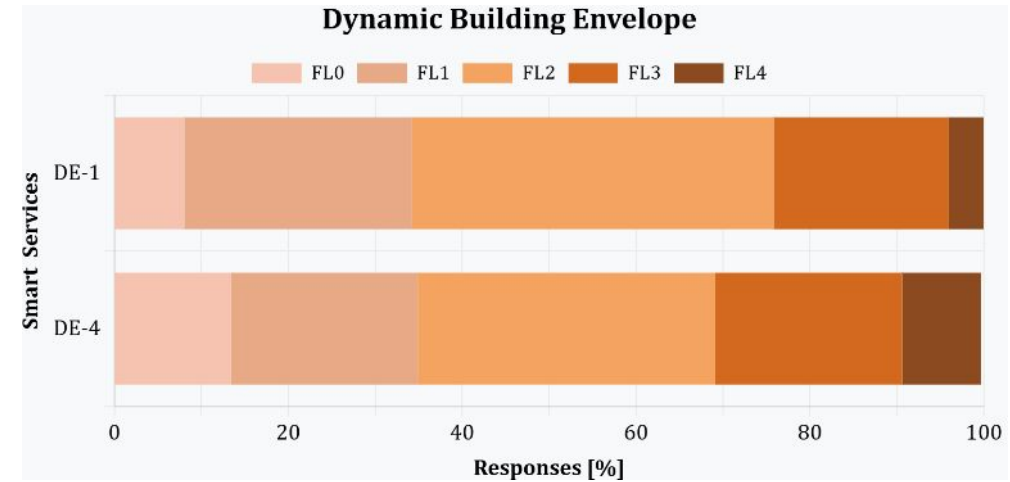
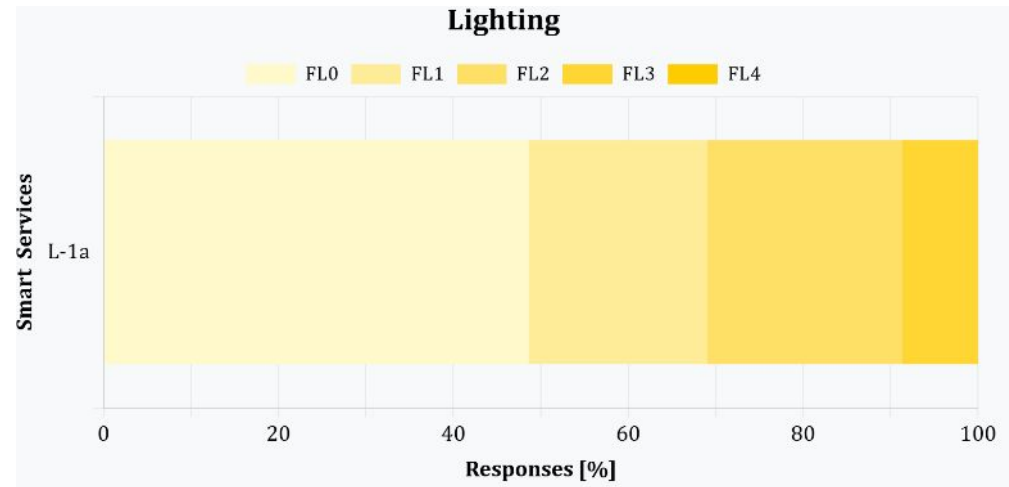
Scalable SRI Assessments – Automated Data Collection with Call Centers

Overview of 545 Assessments, conducted in Germany



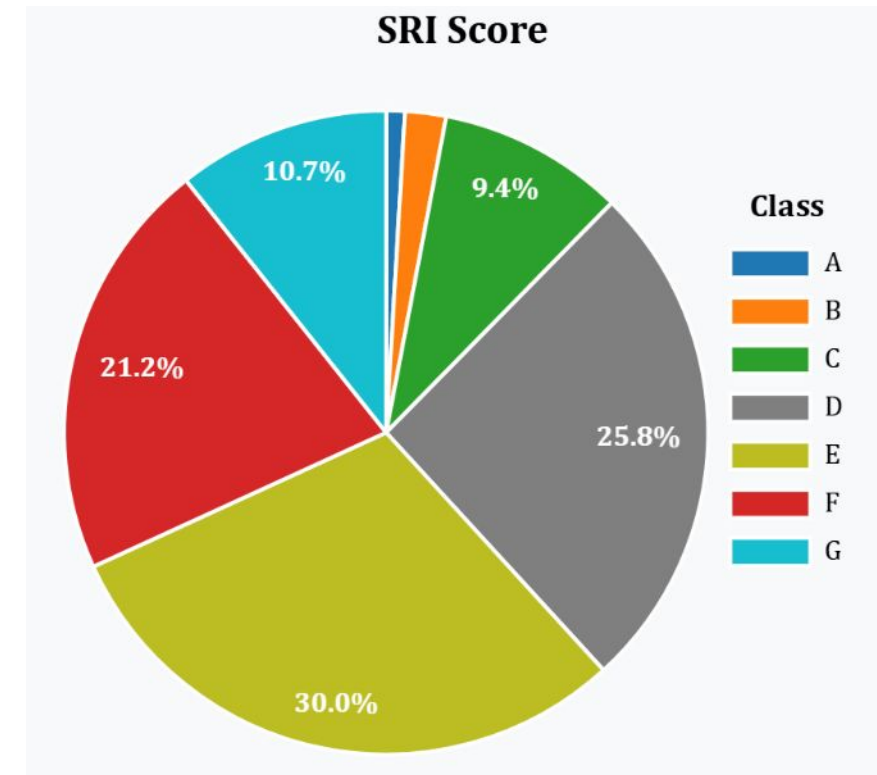
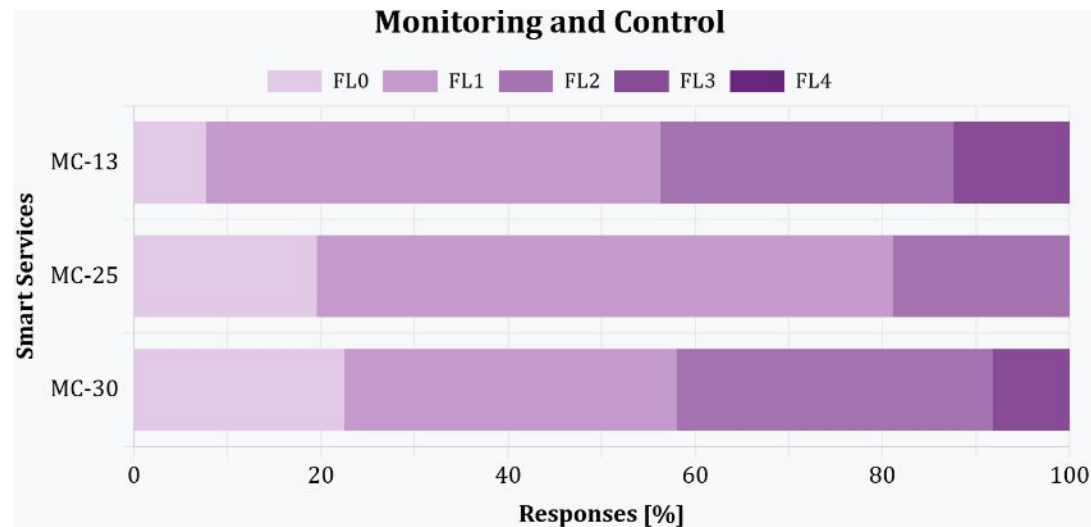
Scalable SRI Assessments – Automated Data Collection with Call Centers

Overview of 545 Assessments, conducted in Germany



Scalable SRI Assessments – Automated Data Collection with Call Centers

Overview of 545 Assessments, conducted in Germany



1. Scalable SRI Assessments – Automated Data Collection with Call Centers

Overview of 545 Assessments, conducted in Germany

Pollfish Results: Case Study- Germany										
 Heating	H-1a: Individual room control FL 2	H-2a: On/Off-control of heat generator FL 0	H-2a: Variable temperature control depending on outdoor temperature FL 1	H-1c: Outside temperature compensated control FL 1	H-3: Central or remote reporting of current performance KPIs and historical data FL 2					
 DHW	DHW-1a: Automatic control on / off FL 0	DHW-3: Indication of actual values FL 1								
 Cooling	C-1a: Individual room control FL 2	C-2a: Multi-stage cooling adjusts to load or demand FL 1	C-3: Central or remote reporting of current performance KPIs and historical data FL 2	C-4: Self-learning optimal control of cooling system FL 2						
 Ventilation	V-1a: Occupancy detection control FL 2	V-6: Real-time and historical IAQ data accessible to occupants FL 2								
 Lighting	L-1a: Manual on/off switch FL 0									
 DE	DE-1: Motorized operation with automatic control based on sensor data FL 2	DE-4: Position of each product, fault detection, predictive maintenance FL 2								
 Electricity	E-2: Actual values and historical data FL 2	E-3: None FL 0	E-11: Actual values and historical data FL 2	E-12: Reporting on current electricity consumption on building level FL 1						
 EV	EV-15: 0-9% of parking spaces has recharging points FL 2	EV-16: 1-way controlled charging FL 1	EV-17: Reporting information on EV charging status to occupant FL 1							
 M&C	MC-13: Central or remote reporting of realtime energy use per energy carrier FL 1	MC-25: Demand side management possible for some individual TBS FL 1	MC-30: Single platform that allows manual control of multiple TBS FL 1							

	The domain is absent
	Not applicable
	Functionality level 0
	Functionality level 1
	Functionality level 2
	Functionality level 3
	Functionality level 4

1. Scalable SRI Assessments – Automated Data Collection with Call Centers

Overview of 545 Assessments, conducted in France

Pollfish Results: Case Study- France										
 Heating	H-1a: Central automatic control FL 1	H-2b: On/Off-control of heat generator FL 0	H-2a: Variable temperature control depending on outdoor temperature FL 1	H-1c: Outside temperature compensated control FL 1	H-3: None FL 0					
 DHW	DHW-1a: Automatic control on / off FL 0	DHW-1b: Automatic control on / off FL 0	DHW-3: None FL 0							
 Cooling	C-1a: Individual room control FL 2	C-2a: Multi-stage cooling capacity control based on load or demand FL 1	C-3: None FL 0	C-4: Self-learning optimal control of cooling system FL 2						
 Ventilation	V-1a: Clock control FL 1	V-6: None FL 0								
 Lighting	L-1a: Manual on/off switch FL 0									
 DE	DE-1: Motorized operation with automatic control based on sensor data FL 2	DE-4: Position of each product & fault detection FL 1								
 Electricity	E-2: Actual values and historical data FL 2	E-3: On site storage of electricity FL 1	E-11: Actual values and historical data FL 2	E-12: None FL 0						
 EV	EV-15: 10-50% or parking spaces has recharging point FL 3	EV-16: 1-way controlled charging FL 1	EV-17: Reporting information on EV charging status to occupant FL 1							
 M&C	MC-13: Real-time energy reporting per carrier in one interface FL 2	MC-25: Demand side management possible for some individual TBS FL 1	MC-30: Single platform that allows automated control coordination between TBS FL 2							

	The domain is absent
	Not applicable
	Functionality level 0
	Functionality level 1
	Functionality level 2
	Functionality level 3
	Functionality level 4

1. Scalable SRI Assessments – Automated Data Collection with Call Centers

Overview of 545 Assessments, conducted in Spain

Pollfish Results: Case Study- Spain										
Heating	H-1a: Central automatic control FL 1	H-2b: On/Off-control of heat generator FL 0	H-2a: Variable temperature control depending on outdoor temperature FL 1	H-1c: Outside temperature compensated control FL 1	H-3: Central or remote reporting of current performance KPIs and historical data FL 2					
DHW	DHW-1a: Automatic control on / off FL 0	DHW-1b: Automatic control on / off and scheduled charging enable FL 1	DHW-3: Indication of actual values FL 1							
Cooling	C-1a: Central automatic control FL 1	C-2a: On/Off-control of cooling production FL 0	C-3: Central or remote reporting of current performance KPIs and historical data FL 2	C-4: Self-learning optimal control of cooling system FL 2						
Ventilation	V-1a: Clock control FL 1	V-6: Air quality sensors FL 1								
Lighting	L-1a: Manual on/off switch FL 0									
DE	DE-1: Motorized operation with automatic control based on sensor data FL 2	DE-4: Position of each product, fault detection & predictive maintenance FL 2								
Electricity	E-2: Actual values and historical data FL 2	E-3: On site storage of electricity FL 1	E-11: Actual values and historical data FL 2	E-12: Real-time feedback or benchmarking on building level FL 2						
EV	EV-15: 0-9% of parking spaces has recharging points FL 2	EV-16: 1-way controlled charging FL 1	EV-17: Reporting information on EV charging status to occupant FL 1							
M&C	MC-13: Central or remote reporting of realtime energy use per energy carrier FL 1	MC-25: Demand side management possible for some individual TBS FL 1	MC-30: None FL 0							

	The domain is absent
	Not applicable
	Functionality level 0
	Functionality level 1
	Functionality level 2
	Functionality level 3
	Functionality level 4

1. Scalable SRI Assessments – Automated Data Collection with Call Centers

Overview of 545 Assessments, conducted in Italy

Pollfish Results: Case Study- Italy										
 Heating	H-1a: Central automatic control FL 1	H-2b: Variable control of heat generator capacity depending on load or demand FL 2	H-2a: Variable temperature control depending on outdoor temperature FL 1	H-1c: Outside temperature compensated control FL 1	H-3: Central or remote reporting of current performance KPIs and historical data FL 2					
 DHW	DHW-1a: Automatic control on / off FL 0	DHW-1b: Automatic control on / off FL 0	DHW-3: None FL 0							
 Cooling	C-1a: Individual room control FL 2	C-2a: On/Off-control of cooling production FL 0	C-3: None FL 0	C-4: Self-learning optimal control of cooling system FL 2						
 Ventilation	V-1a: Clock control FL 1	V-6: Real-time and historical IAQ data accessible to occupants FL 2								
 Lighting	L-1a: Manual on/off switch FL 0									
 DE	DE-1: Motorized operation with automatic control based on sensor data FL 2	DE-4: Position product, fault detection, predictive maintenance, real-time sensor data FL 3								
 Electricity	E-2: Current generation data available FL 1	E-3: On site storage of electricity FL 1	E-11: Actual values and historical data FL 2	E-12: None FL 0						
 EV	EV-15: 10-50% or parking spaces has recharging point FL 3	EV-16: 1-way controlled charging FL 1	EV-17: Reporting information on EV charging status to occupant FL 1							
 M&C	MC-13: Central or remote reporting of realtime energy use per energy carrier FL 1	MC-25: Demand side management possible for some individual TBS FL 1	MC-30: Single platform that allows automated control coordination between TBS FL 2							

	The domain is absent
	Not applicable
	Functionality level 0
	Functionality level 1
	Functionality level 2
	Functionality level 3
	Functionality level 4

1. Scalable SRI Assessments – Automated Data Collection with Call Centers

Overview of 450 Assessments, conducted in Poland

Pollfish Results: Case Study- Poland										
 Heating	H-1a: Central automatic control FL 1	H-2b: Variable control of heat generator capacity depending on the load demand FL 2	H-2a: Constant temperature control FL 0	H-1c: No automatic control FL 0	H-3: None FL 0					
 DHW	DHW-1a: Automatic control on / off FL 0	DHW-1b: Automatic control on / off FL 0	DHW-3: Indication of actual values FL 1							
 Cooling	C-1a: Central automatic control FL 1	C-2a: On/Off-control of cooling production FL 0	C-3: Central or remote reporting of current performance KPIs FL 1	C-4: Scheduled operation of cooling system FL 1						
 Ventilation	V-1a: No ventilation system or manual control FL 0	V-6: None FL 0								
 Lighting	L-1a: Manual on/off switch FL 0									
 DE	DE-1: Motorized operation with manual control FL 1	DE-4: Position of each product & fault detection FL 1								
 Electricity	E-2: Current generation data available FL 1	E-3: On site storage of electricity FL 1	E-11: Actual values and historical data FL 2	E-12: None FL 0						
 EV	EV-15: 0-9% of parking spaces has recharging points FL 2	EV-16: 1-way controlled charging FL 1	EV-17: Reporting information on EV charging status to occupant FL 1							
 M&C	MC-13: Central or remote reporting of realtime energy use per energy carrier FL 1	MC-25: Demand side management possible for some individual TBS FL 1	MC-30: Single platform that allows manual control of multiple TBS FL 1							

	The domain is absent
	Not applicable
	Functionality level 0
	Functionality level 1
	Functionality level 2
	Functionality level 3
	Functionality level 4

1. Scalable SRI Assessments – Automated Data Collection with Call Centers

Overview of 450 Assessments, conducted in Greece

Pollfish Results: Case Study- Greece										
 Heating	H-1a: Central automatic control FL 1	H-2b: On/Off-control of heat generator FL 0	H-2a: Constant temperature control FL 0	H-1c: Outside temperature compensated control FL 1	H-3: None FL 0					
 DHW	DHW-1a: Automatic control on / off FL 0	DHW-1b: Automatic control on / off FL 0	DHW-3: Indication of actual values FL 1							
 Cooling	C-1a: Individual room control FL 2	C-2a: On/Off-control of cooling production FL 0	C-3: None FL 0	C-4: No automatic control FL 0						
 Ventilation	V-1a: Clock control FL 1	V-6: Air quality sensors FL 1								
 Lighting	L-1a: Manual on/off switch FL 0									
 DE	DE-1: Motorized operation with manual control FL 1	DE-4: Position of each product, fault detection & predictive maintenance FL 2								
 Electricity	E-2: Current generation data available FL 1	E-3: On site storage of electricity FL 1	E-11: Actual values and historical data FL 2	E-12: None FL 0						
 EV	EV-15: Ducting (or simple power plug) available FL 1	EV-16: 1-way controlled charging FL 1	EV-17: Reporting information on EV charging status to occupant FL 1							
 M&C	MC-13: Central or remote reporting of realtime energy use per energy carrier FL 1	MC-25: Demand side management possible for some individual TBS FL 1	MC-30: Single platform that allows manual control of multiple TBS FL 1							

	The domain is absent
	Not applicable
	Functionality level 0
	Functionality level 1
	Functionality level 2
	Functionality level 3
	Functionality level 4

Interactive Open-Access Dashboards

Tracking SRI growth in real time!



Unlocking Insights with Interactive Dashboards

1. **Smart Ready Go dashboards provide real-time tracking** of Smart Readiness Indicator (SRI) assessments, ensuring **transparent and data-driven decision-making**.
2. These dashboards **visualize trends, regional insights, and assessor performance**, supporting **smart building policies and market adoption**.
3. The system **enhances credibility** by distinguishing between **general, personal, and certified assessments**, ensuring high-quality data for stakeholders.
4. A new **Call Center Dashboard** expands assessment reach, enabling **large-scale automated data collection** across multiple countries.

Interactive Open-Access Dashboards

Tracking SRI growth in real time!



General Dashboard

Displays all SRI assessments, including those from certified and non-certified assessors, offering a complete snapshot of smart readiness trends and market-wide adoption progress.



Certified Assessors Dashboard

Features only assessments conducted by certified professionals, ensuring reliable, high-quality data that can be trusted for policy development and industry benchmarking.



Personal Dashboard

Provides secure access for each assessor to monitor, manage, and analyse their own SRI evaluations, improving workflow efficiency and personal performance tracking.

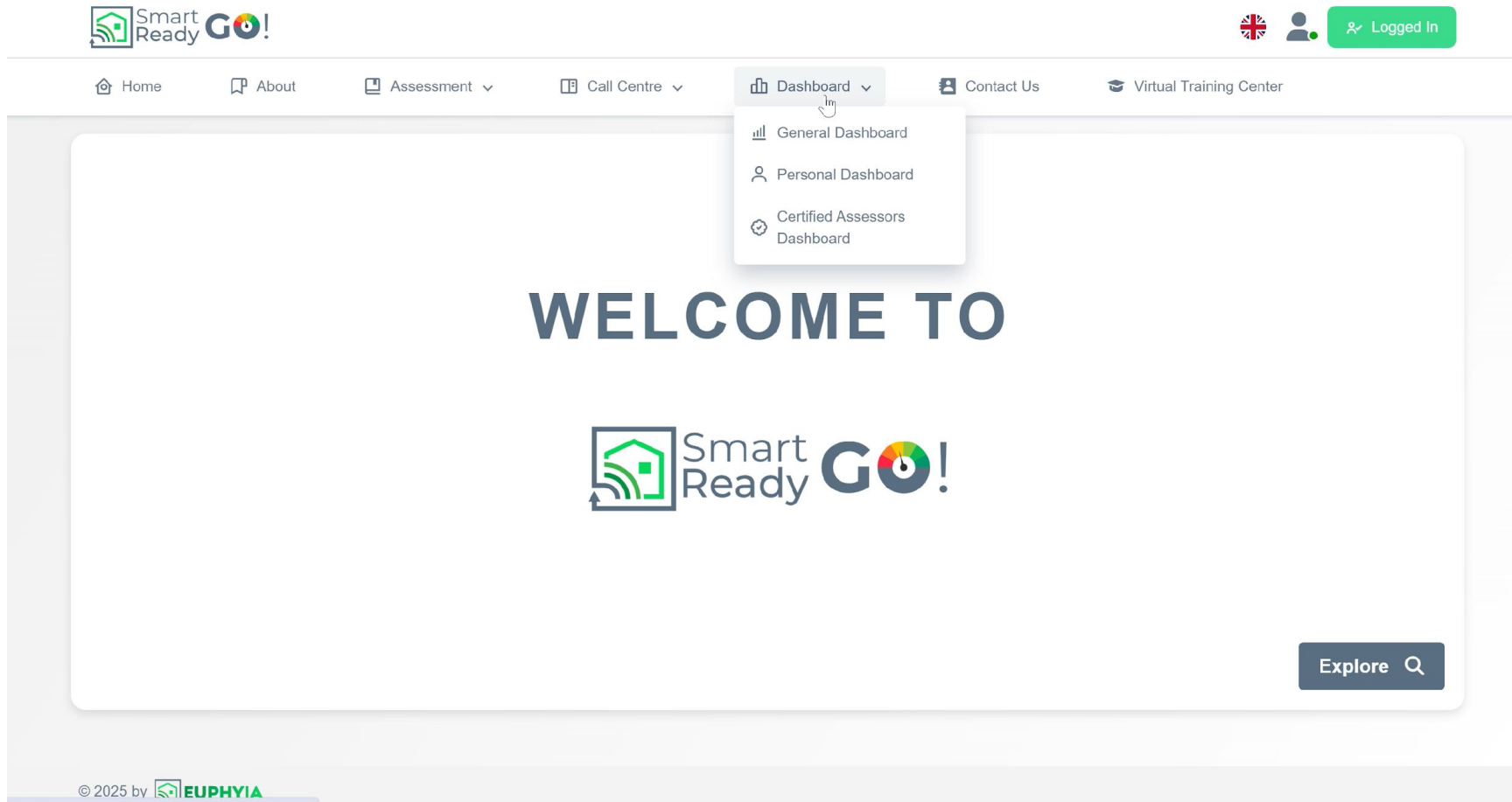


Call Center Dashboard

Dedicated to large-scale surveys, enabling automated data collection across multiple European markets to track SRI adoption, trends, and regional smartness insights.

Interactive Open-Access Dashboards

Tracking SRI growth in real time!





Thank you!



Pablo Carnero - pcm@rehva.eu
Technical EU Project Officer



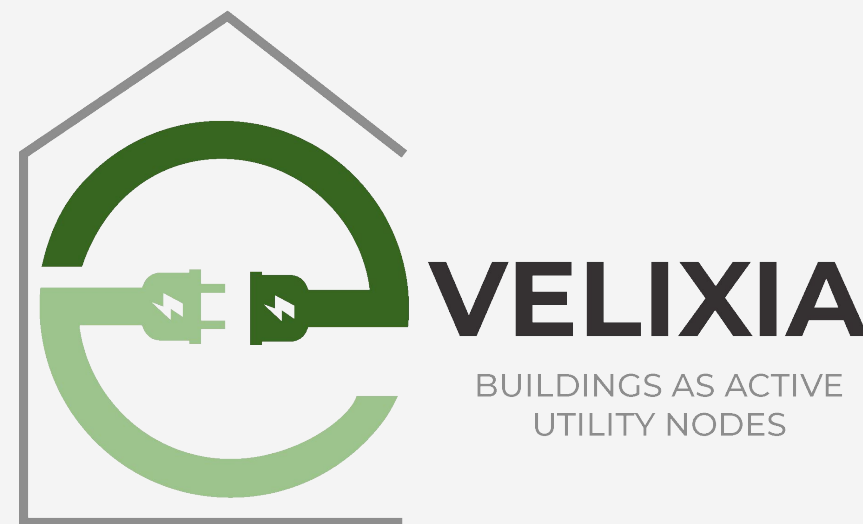
"Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them"



SRI Advisor tool as part of the BAUN ambition of EVELIXIA project

Igor PEREVOZCHIKOV, R2M Solution France
Stavros KOLTSIOS, CERTH

Sustainable Places 2025
9 October 2025
Milan, Italy



Smart Grid-Efficient Interactive Buildings



This project has received funding from the European Union's Horizon Europe Framework Programme for Research and Innovation under grant agreement no 101123238



PROJECT IDENTITY CARD



EVELIXIA: Smart Grid Efficient Interactive Buildings

Project Number	101123238
Project Name	Smart Grid Efficient Interactive Buildings
Topic/Type of Action	HORIZON-CL5-2022-D4-02-04 / IA
Project Starting Date	1 October 2023
Project Duration	48 months

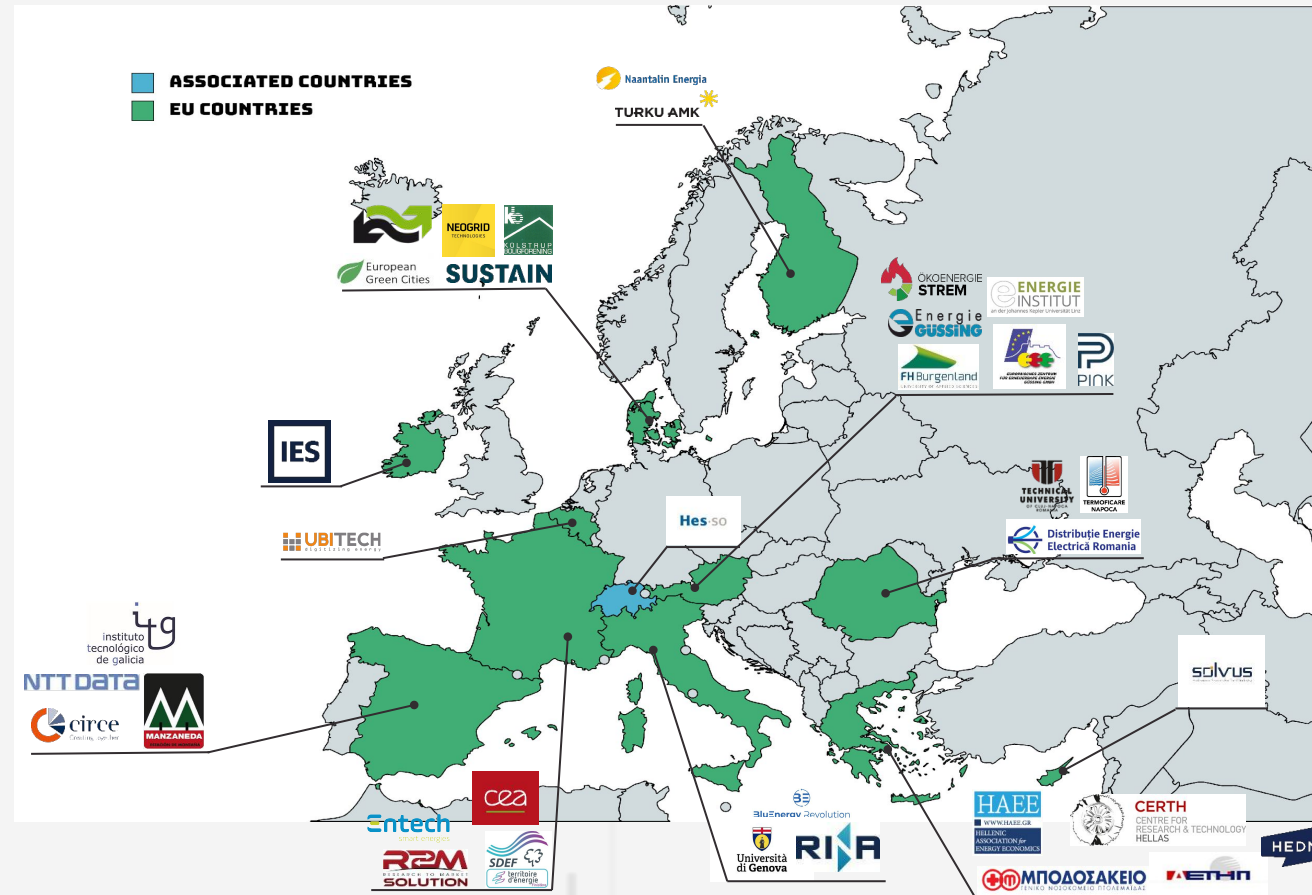
36 partners in **total**

12 EU countries

7 pilot site ecosystems (AT, DK, FI, FR, GR, RO, SP)

SUSTAINABLE PLACES 2025

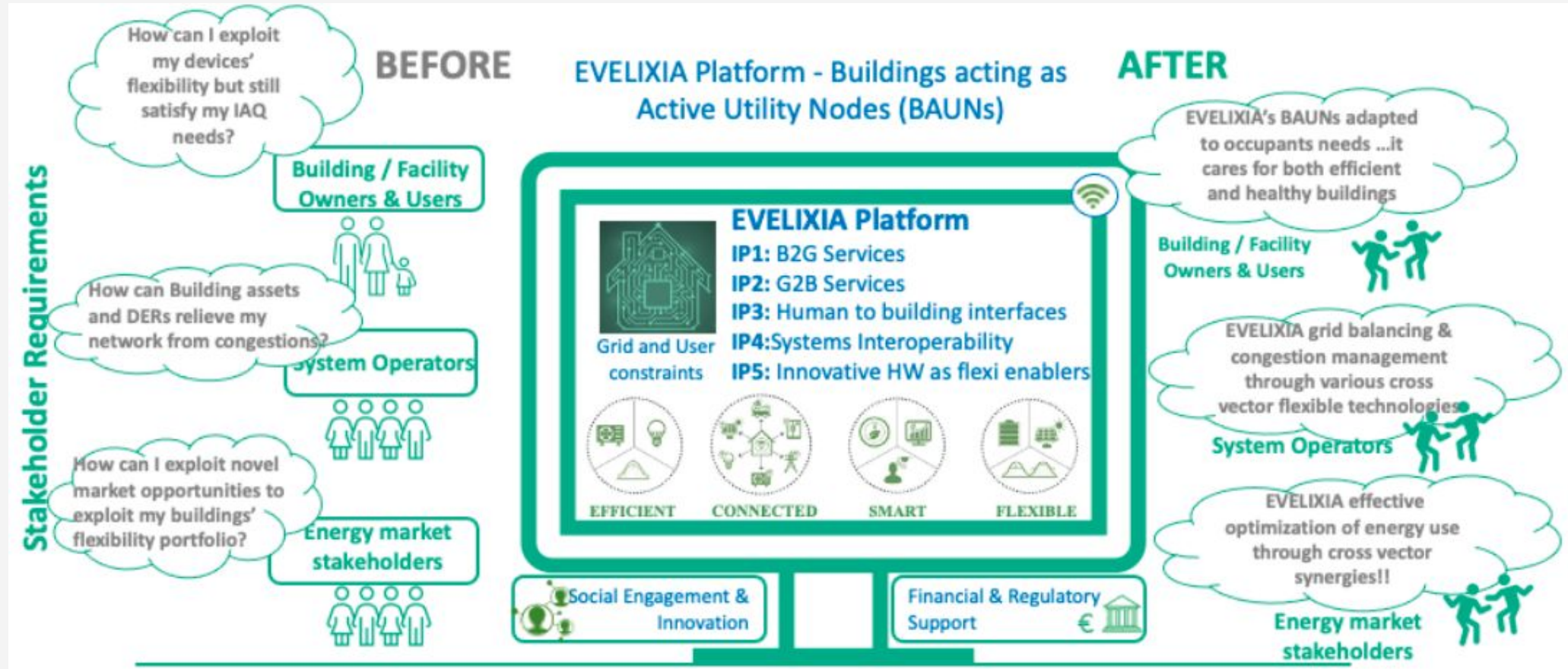
8-10 October 2025



EVELIXIA Project concept

Goal: realize Buildings as Active Utility Nodes (BAUN)

Data and model-driven B2G and G2B services;
EVELIXIA Autonomous Building Digital Twin (ABDT) and
the Autonomous District Digital Twin (ADDT)



Development of a **Services Marketplace** where stakeholders can construct, access and exploit **novel services and relevant business models**

SUSTAINABLE PLACES 2025

8-10 October 2025



EVELIXIA Stakeholders Interaction Platform, incorporating the Live Digital Building Logbook and Visual Analytics Engine;
Based on **Blockchain Infrastructure** to ensure users' **ownership of data**, assets and services respecting their **privacy and security**



Carle van Loo, Spanisches Konzert

- The SRI Advisor tool provides Building Owners and Managers with tailored recommendations on how to level up their SRI class by 1, 2 or 3 letters.
- The tool analyses the possible technology upgrade packages, with a view to determining the most cost-effective building upgrades to achieve a higher SRI score.
- The tool further advances SRI advising functionalities to compute ad-hoc, tailored recommendations, exploiting building accurate modelling characteristics that EVELIXIA enables.



SRI Advisor tool functional view

SRI Advisor tool

SRI calculation
tool

Online tool
developed by
CERTH based on
the SRI generic
technical framework

Database with a list of possible interventions, associated costs and benefits

Service	Functionality Level 0	Functionality Level 1	Functionality Level 2	Functionality Level 3	Functionality Level 4
Example: Window solar shading control	No sun shading or only manual operation	Motorized operation with manual control	Motorized operation with automatic control based on sensor data	Combined light/blind/HVAC control	Predictive blind control (e.g. based on weather forecast)

Action
CAPEX
OPEX
SRI score

Action
CAPEX
OPEX
SRI score

Action
CAPEX
OPEX
SRI score

Action
CAPEX
OPEX
SRI score

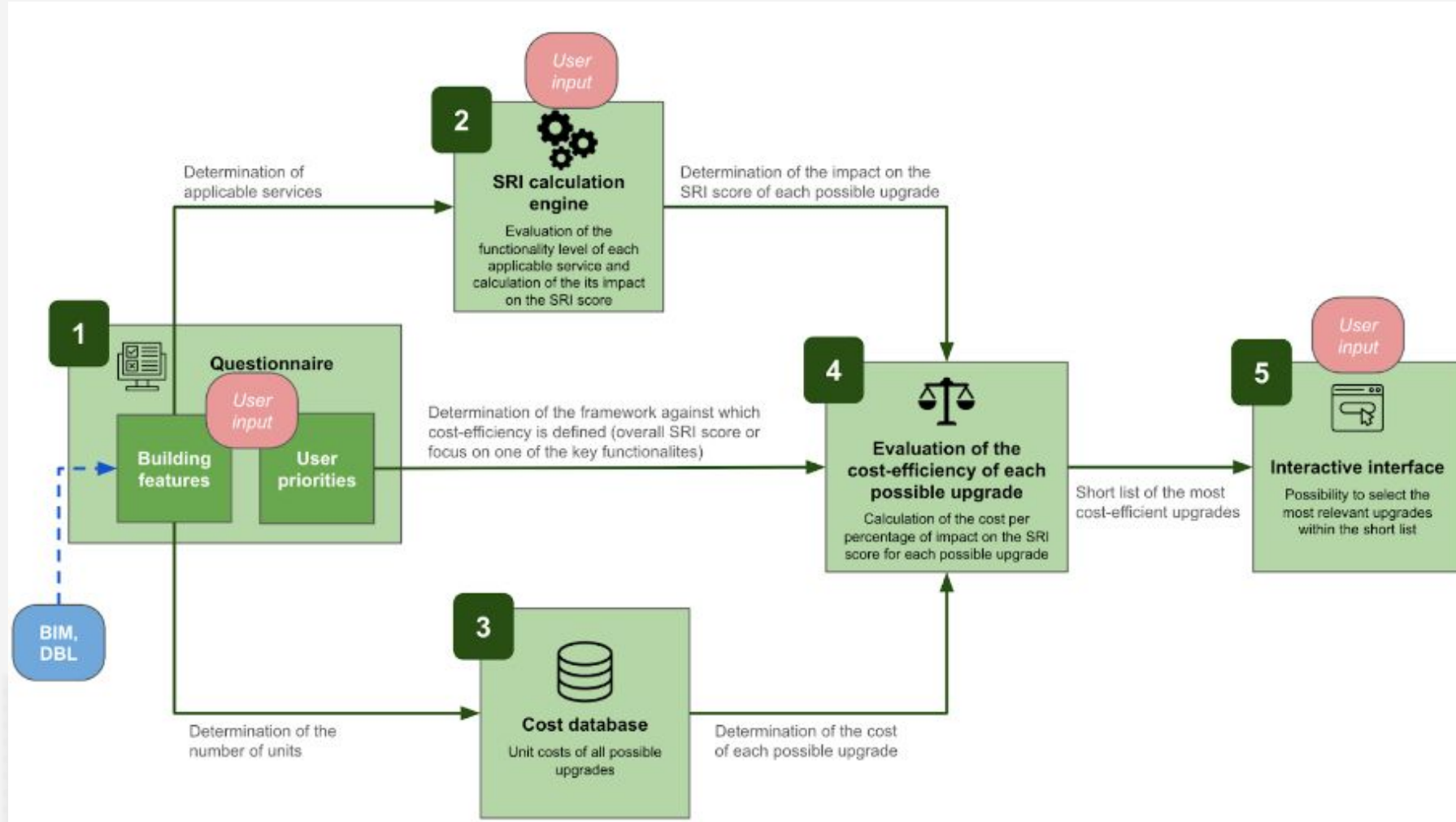
Optimisation engine

to select the most cost-efficient renovation package

Objective function:
maximising the net present value (NPV) of possible renovation packages



SRI Advisor tool architecture

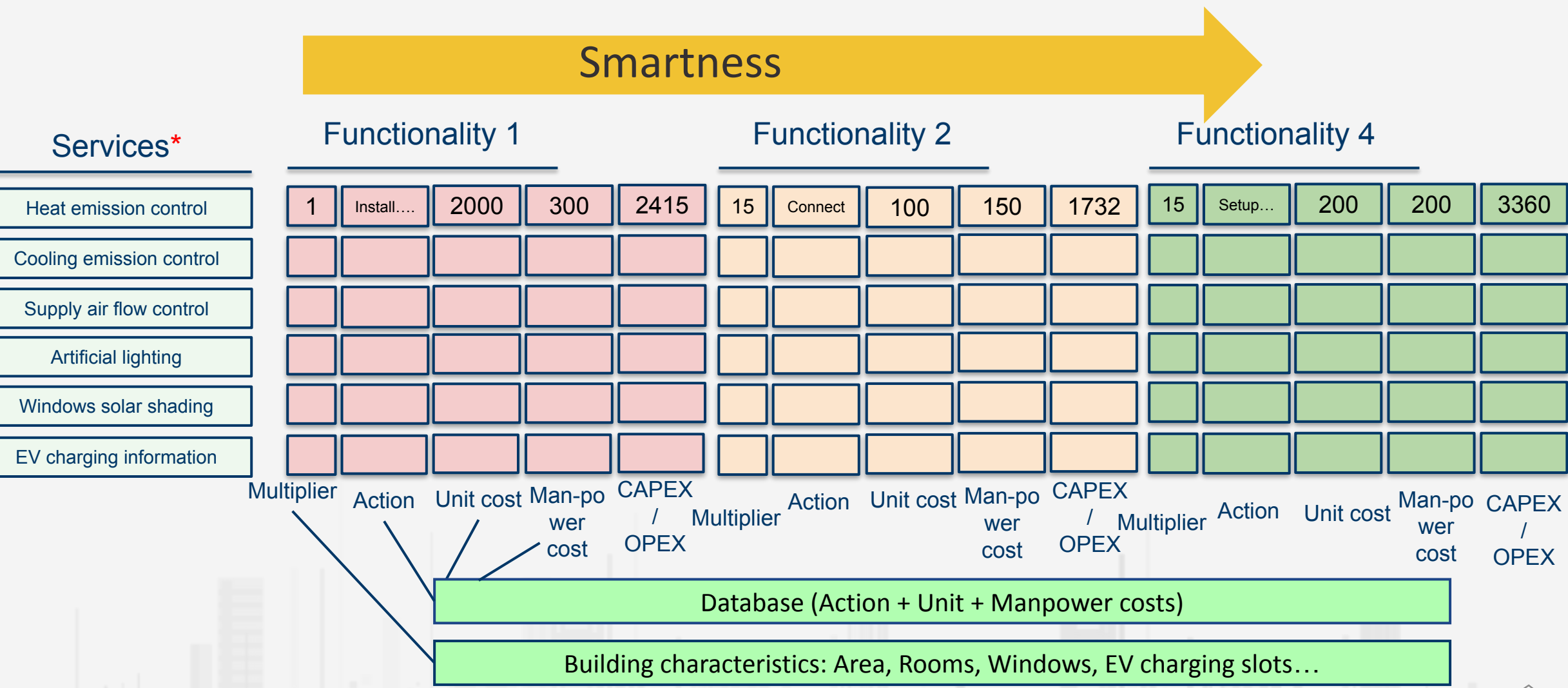


SUSTAINABLE PLACES 2025

8-10 October 2025



Cost database



SUSTAINABLE PLACES 2025

8-10 October 2025

**In this simplified example the number of services is limited to 6 and illustrative cost data are used*



SRI Advisor tool challenges

- Depend on each country
- Depend on different possible technological choices
- Vary in time

Same as CAPEX +
depend on lifetime
Sometimes expressed
as a % of CAPEX

Running the SRI
assessment tool

Different actions
possibles

More complicated and
multi-dimensional!

Action •
• CAPEX
• OPEX
• SRI score
Benefits •



Energy
efficiency



Maintenance
and fault
prediction



Comfort



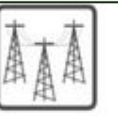
Convenience



Health, well-
being and
accessibility



Information to
occupants



Energy
flexibility and
storage

1. Evaluate energy

savings: *how much energy may be saved if blinds are motorized??*

2. Monetize the savings:
depends on country,
electricity tariff, etc

1. Evaluate convenience

benefits: *which scale to use to measure the increased convenience of motorizing blinds??*

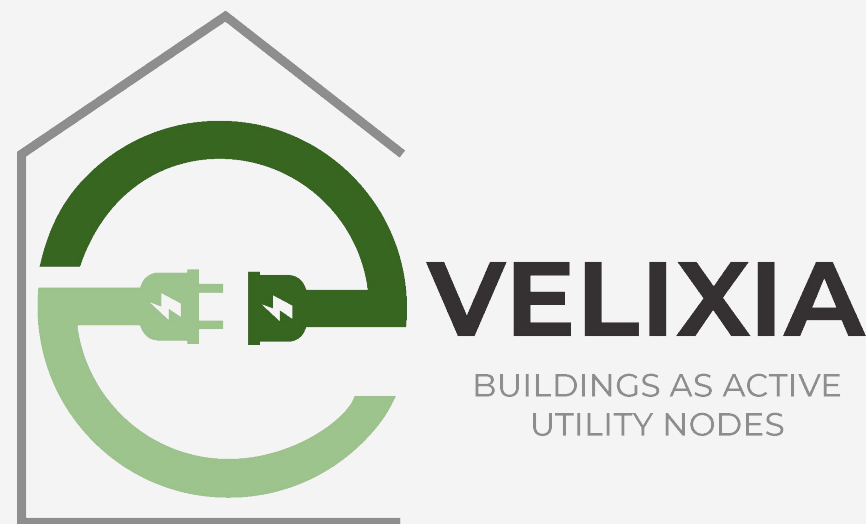
2. Monetize the benefits:
how??



THANK YOU!

Igor PEREVOZCHIKOV, R2M Solution France
Stavros KOLTSIOS, CERTH

Sustainable Places 2025
9 October 2025
Milan, Italy



Smart Grid-Efficient Interactive Buildings





iEPB

Integrated EPB Assessments. A pathway for effective EPBD implementation.

Sustainable Places 2025 | Smart Readiness Indicator. Market uptake

9 October 2025

Eva Lucas Segarra
PhD Architect



Co-funded by
the European Union



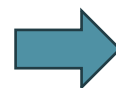
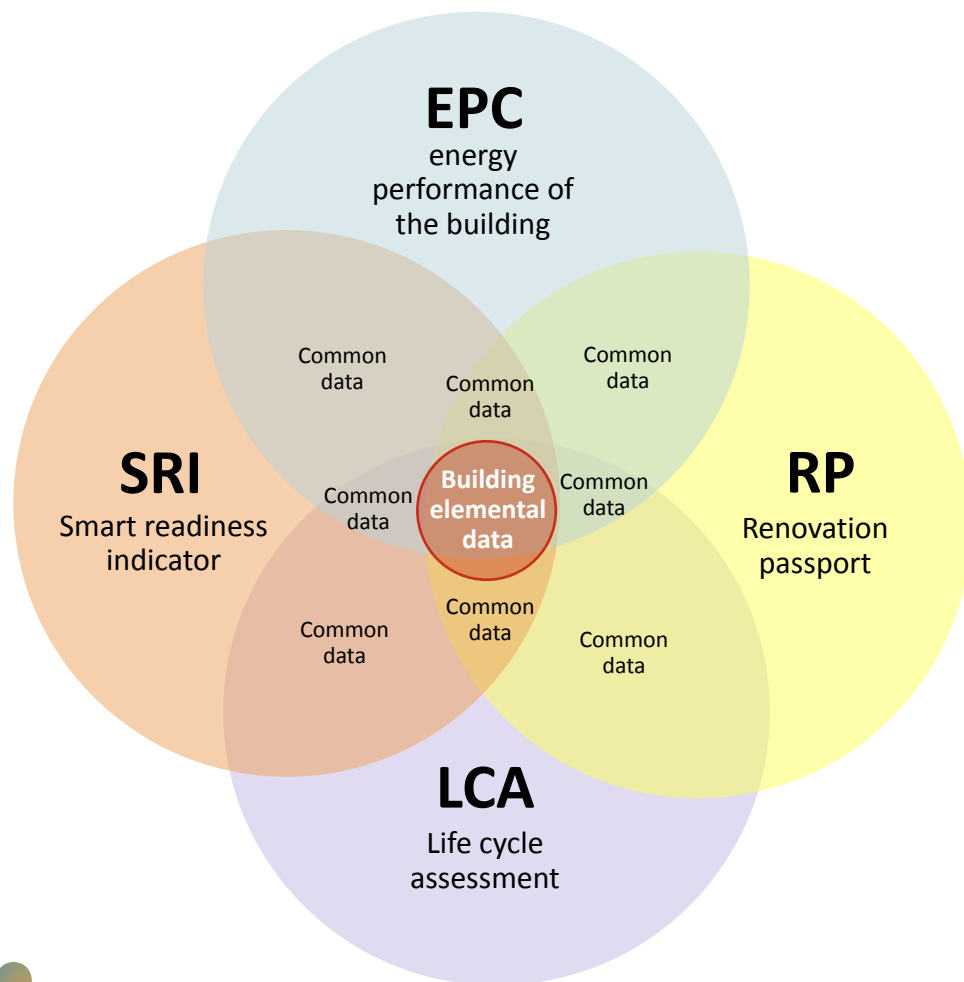
**GENERALITAT
VALENCIANA**

Vicepresidència Segunda y
Conselleria de Serveis Socials,
Igualtat y Vivenda



IVE
Instituto Valenciano
de la Edificación

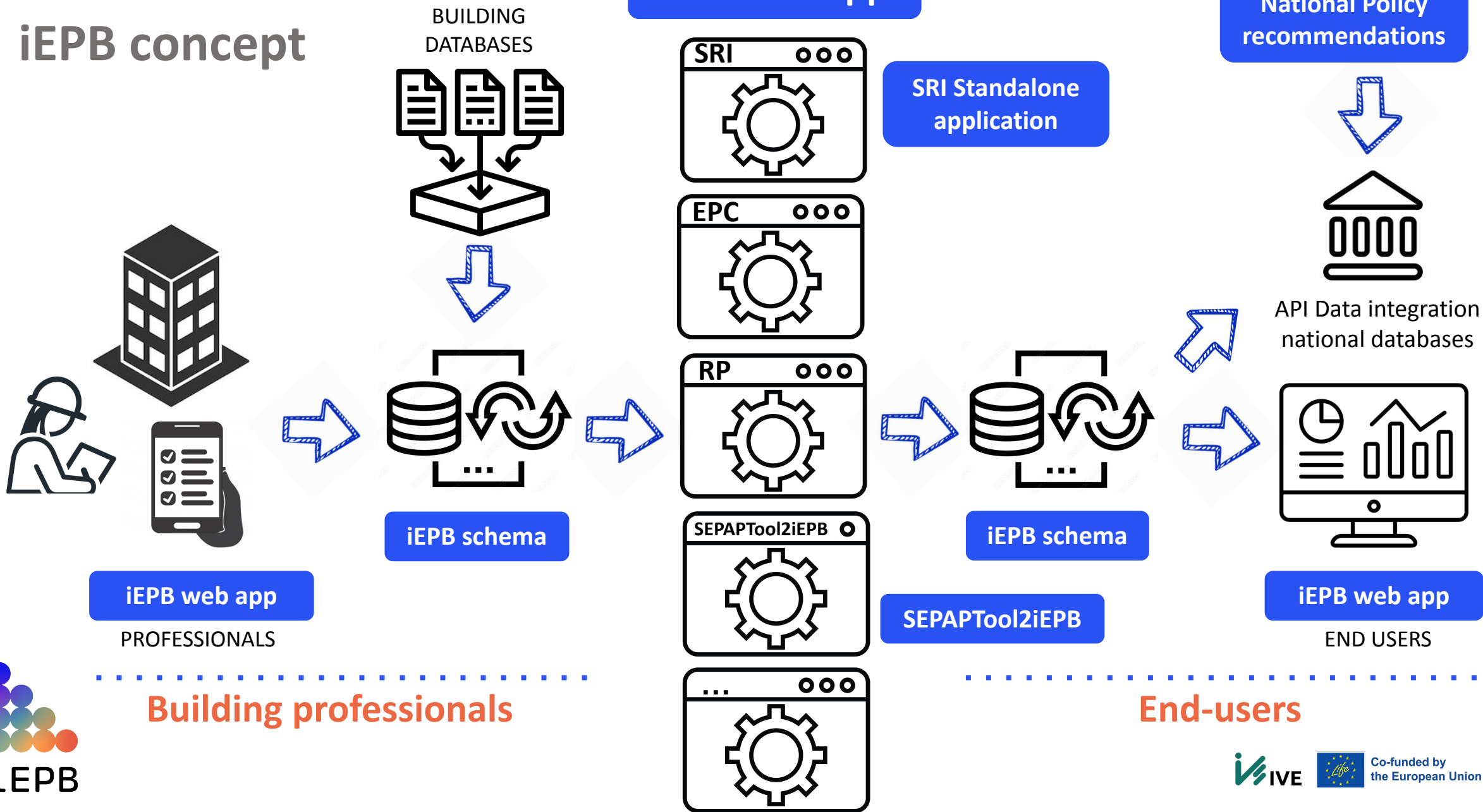
Main objective – EPB Common data model



**Common
data model**
iEPB schema

Improve the synchrony
between multiple building
performance assessments -
notably among EPCs, the SRI
and RP - by developing a
**Common data model for EPB
Assessments**

iEPB concept



SRI Standalone app - Concept

- Command line tool, without graphical interface, developed in **Python**.
- This application loads the SRI-related data included in the **iEPB schema** format and calculates the **Total output** and **Key Functionalities** (KF1, KF2 and KF3) results of the SRI in any country
- It can be **adaptable to any national context**
- It works as an **SRI calculation engine** and could be **incorporated in any other existing tool**

```
C:\Program Files\SriStandAlone>SRISStandAlone.exe -h
usage: SRISStandAlone.exe [-h] [-i IMPORT_FILE] [-o OUTPUT_FILE] [-p [RESULT_FILE]] [-s [RESULT_SRI]]
                        [-kf1 [RESULT_KF1]] [-kf2 [RESULT_KF2]] [-kf3 [RESULT_KF3]] [-x [EXTRACT_FILES]]
                        [-e PACKAGE_FILES PACKAGE_FILES] [-v [SHOW_VERSION]]

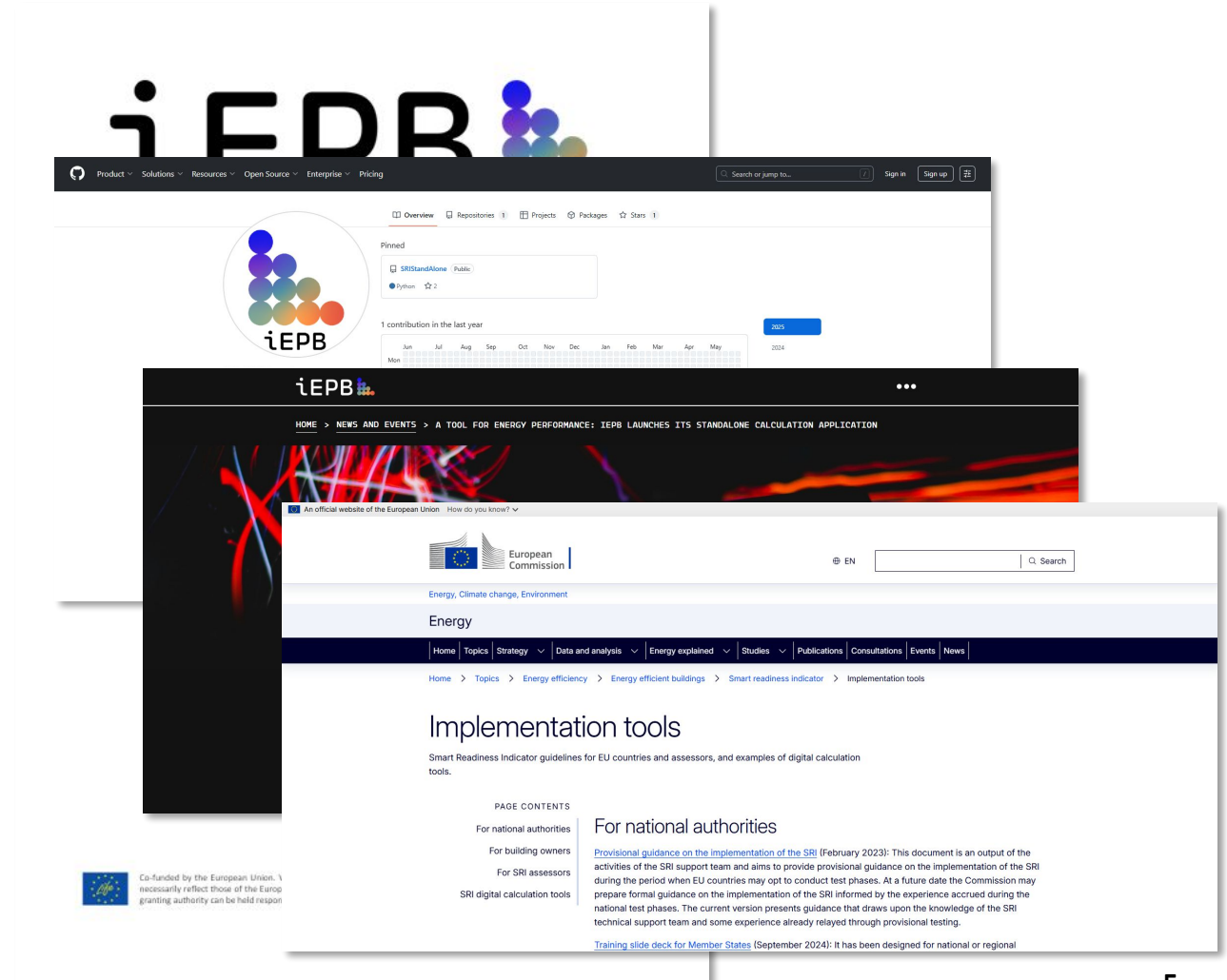
SRI Stand Alone Applicationl

options:
  -h, --help            show this help message and exit
  -i IMPORT_FILE, --import_file IMPORT_FILE
                        Input file
  -o OUTPUT_FILE, --output_file OUTPUT_FILE
                        Output file
  -p [RESULT_FILE], --result_file [RESULT_FILE]
                        Print results
  -s [RESULT_SRI], --result_SRI [RESULT_SRI]
                        Print main result only
  -kf1 [RESULT_KF1], --result_kf1 [RESULT_KF1]
                        Print kf1 result
  -kf2 [RESULT_KF2], --result_kf2 [RESULT_KF2]
                        Print kf2 result
  -kf3 [RESULT_KF3], --result_kf3 [RESULT_KF3]
                        Print kf3 result
  -x [EXTRACT_FILES], --extract_files [EXTRACT_FILES]
                        Extract xml and gbXML from iEPB file
  -e PACKAGE_FILES PACKAGE_FILES, --package_files PACKAGE_FILES PACKAGE_FILES
                        Package xml and gbXML in iEPB file
  -v [SHOW_VERSION], --show_version [SHOW_VERSION]
                        Show version of software
```



SRI Standalone app – Open-source kernel

- Guidelines for the use of the SRI Standalone app
- Publicly available at:
 - [GitHub](#)
 - [iEPB website](#)
 - [European Commission's official SRI page](#)



SRI Standalone app - Functionalities

- **Help (-h):** it shows available options of the program and a brief explanation of each option.
- **Import file (-i):** import the project data provided
- **Output file (-o):** SRI calculated of the iEPB file is recalculated and exported to the path specified
- **Result file (-p):** prints all the results on the screen
- **Result SRI (-s):** displays the total result of the project (SRI) on the screen
- **Result Kf1: (-kf1):** prints the total 'Energy performance and operation' (Kf1) result on screen
- **Result Kf2: (-kf2):** prints the total 'Response to user needs' (Kf2) result on screen
- **Result Kf3: (-kf3):** prints the total 'Energy flexibility' (Kf3) result on screen
- **Extract files (-x):** the xml that are given in the -i argument are extracted
- **Package files (-e):** creates a new iEPB file that includes the files defined in the -e section (xml & gbMXL)
- **Show version (-v):** prints the program version on the screen



SRI Standalone app - Advantages

Automatic official SRI calculation

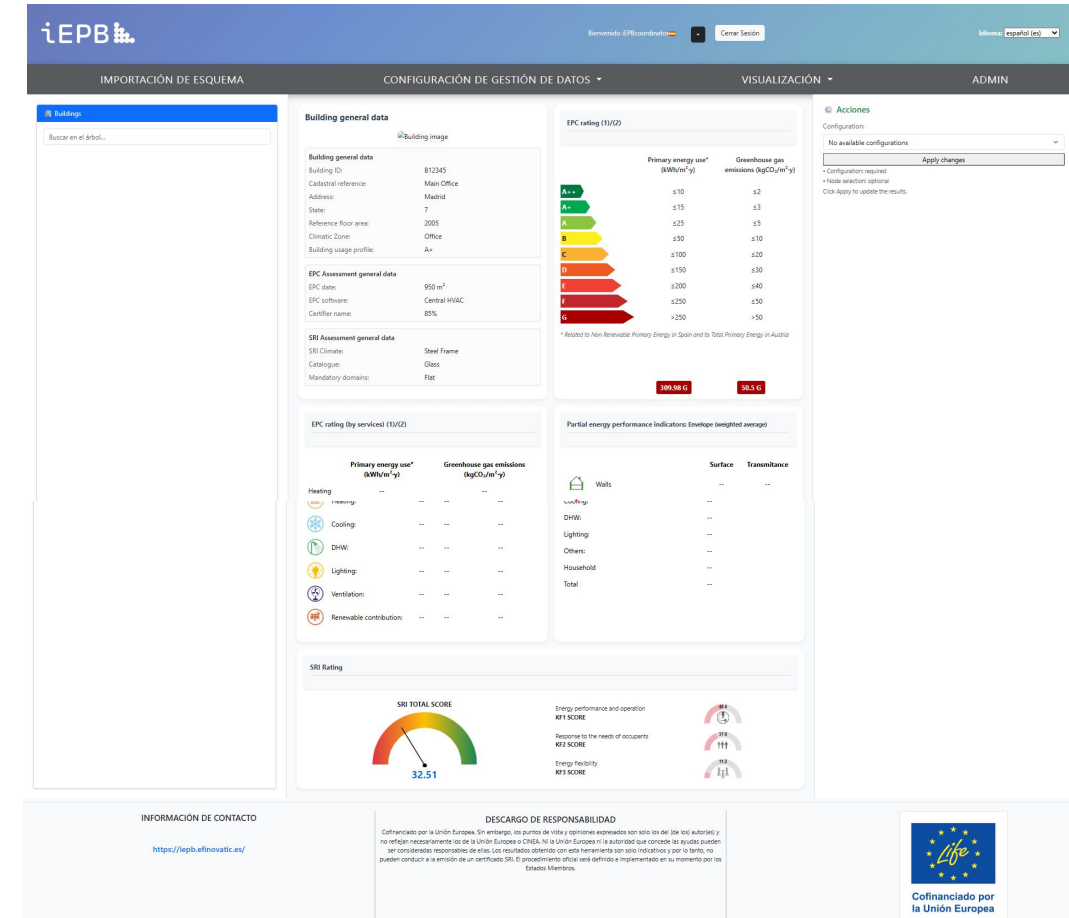
Automatically performs the official SRI computation using the harmonised EU methodology and it is adaptable to any national context.

Core calculation engine

Can be easily integrated into national or commercial tools, avoiding duplicated developments and ensuring consistency across countries.

Built on the iEPB Common Data Model

Based on the **iEPB schema** to enable seamless data exchange and reuse between different assessments (EPC, RP...), supporting integrated multi-assessment reports in the **iEPB web app** and smarter renovation decisions.





Thank you!



<https://iepb-project.eu/>



iepb_coordinator@five.es



[@iEPB_eu](https://twitter.com/iEPB_eu)



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



Co-funded by
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EPC and SRI certification: the SmarterEPC tools

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The SmarterEPC project at a glance

The policy context:



- **The SRI becomes a regulatory instrument**, in general applicable on a voluntary basis, but possibly **mandatory** for buildings with **HVAC systems > 290 kW**
- **Complementary relation of the SRI to the EPCs** is to be clarified
- **Some flexibility is left to Member States** in implementation modalities, but **guidance at EU level** is needed



What SmarterEPC offers:



- **Detailed documentation** of existing EPC and SRI calculation tools
- **Thorough analysis** of EPC and SRI current coverage and uptake policies, with a focus on 7 EU countries



- **Standardized procedures for on-site EPC and SRI audits** based on existing energy audit standards
- **A digital hub including smart data collection for integration of EPC and SRI** and the connection to existing calculation tools
- **An advanced training programme** bridging with the training programmes of the EPC and SRI tools integrated into the hub



- **A roadmap and a support center** to guide Member States in the implementation of the SRI in conjunction with EPCs
- **A template for joint EPC and SRI certificates**, fully aligned with the EPBD requirements



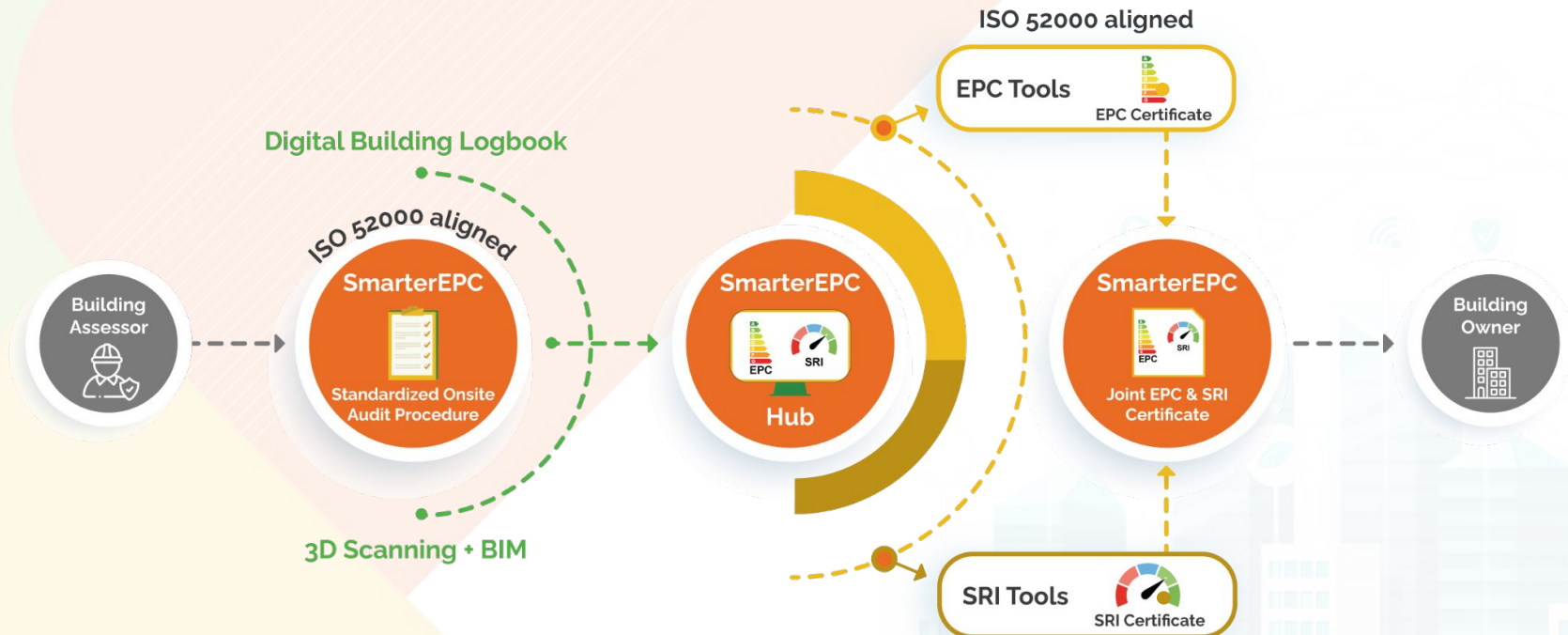
- **An approach for de-risking financing** of energy efficiency and smartness upgrade measures



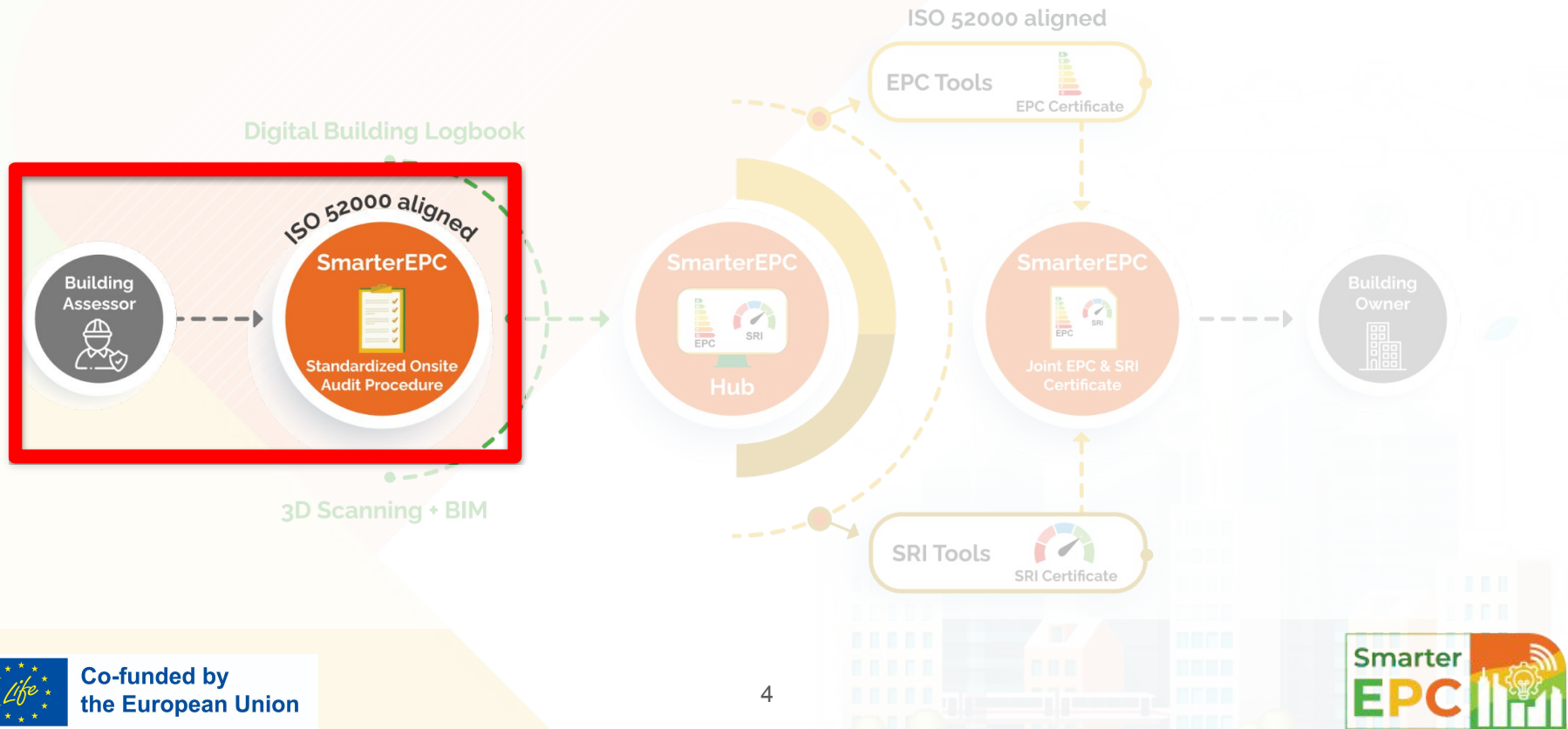
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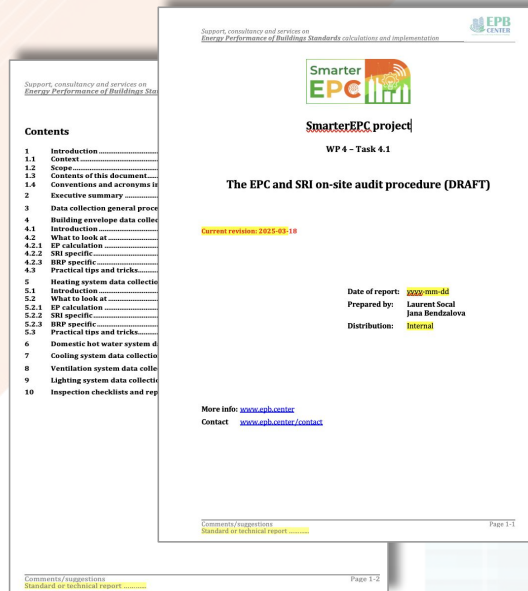
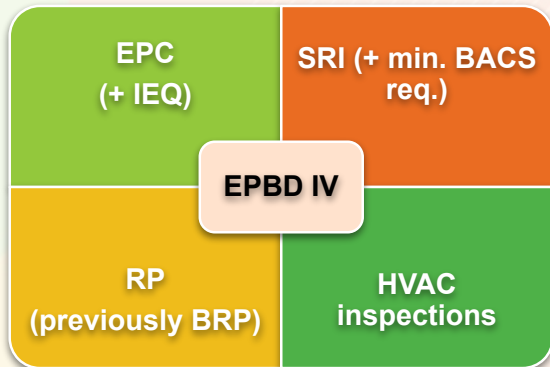
The user journey targeted by SmarterEPC based on 3 main tools



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Standardised Onsite Audit Procedure



July-September 2025:

23 building assessors from 12 EU countries reviewed the draft procedure prepared by EPB Center experts

October-November 2025:

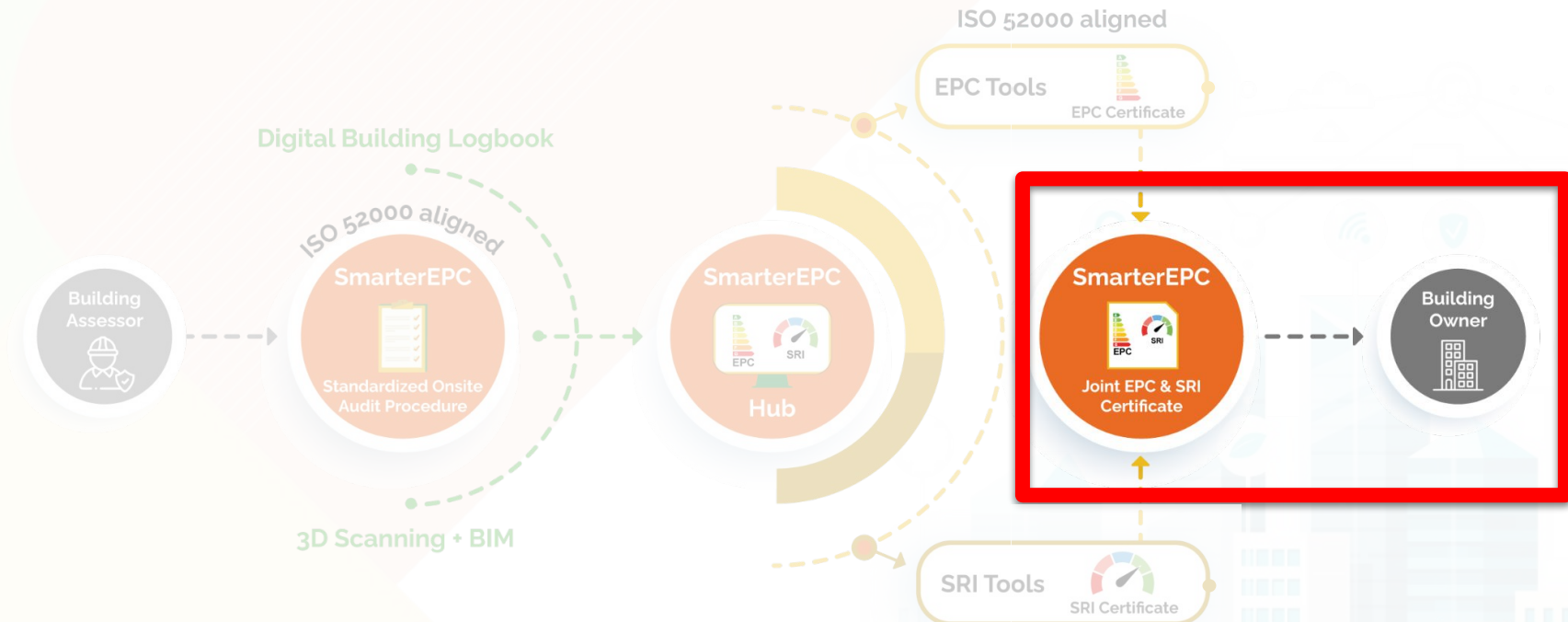
The same assessors are going to review the corresponding training programme in [CEN-CE Learning Management System](#)



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Joint EPC & SRI certificate

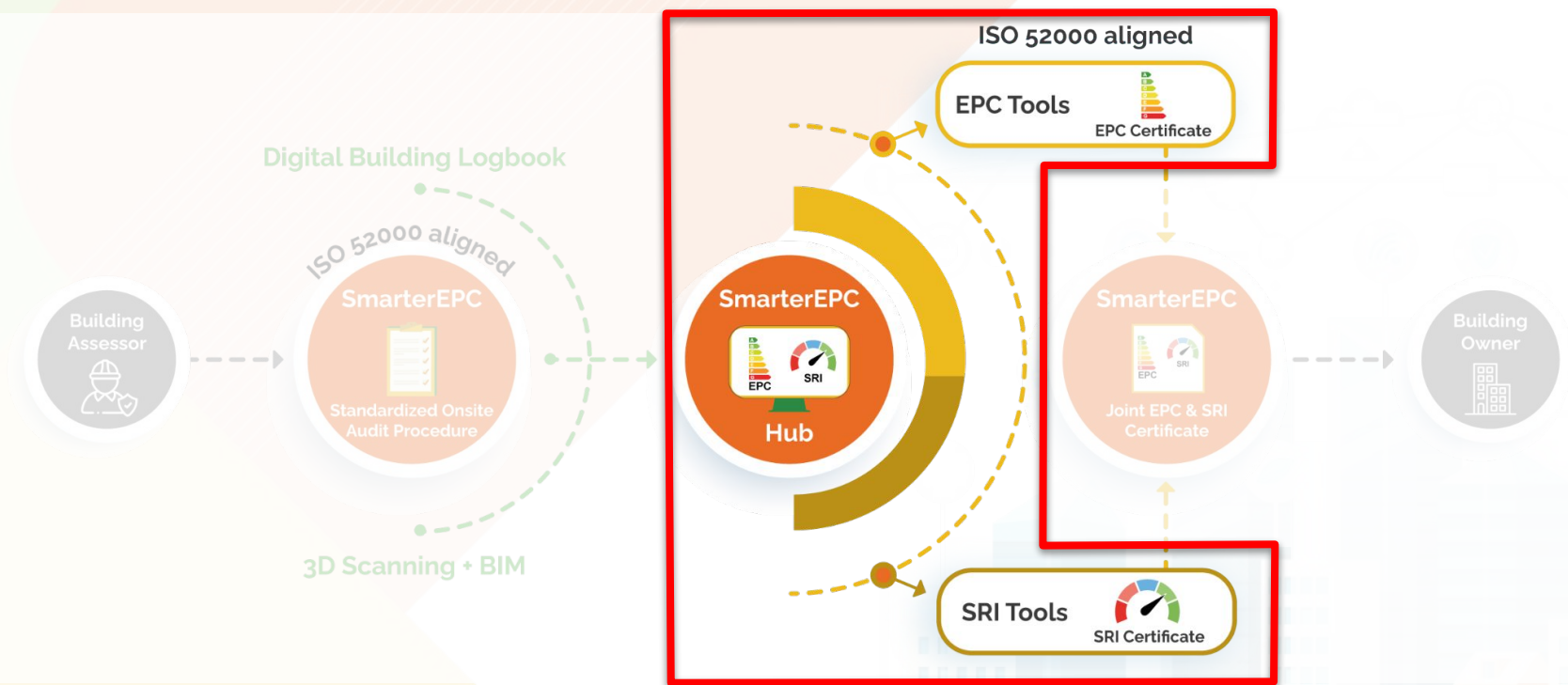
Integrated Energy Performance and Smart Readiness Certificate			
Building ID Building Name Building Usage Usage	Date of Assessment dd-mm-yyyy Location City, Country	Assessor Name Name Surname Net Floor Area Area ^{m²}	Building Type Res/Non Res Year of Construction
Building Energy Rating kWh/m²/yr A > 0.5 B 0.51 - 0.75 C 0.76 - 1.0 D 1.01 - 1.50 E 1.51 - 2.00 F 2.01 - 2.50 G > 3.00		Smart Readiness Indicator % A 90-100% B 80-90% C 65-80% D 50-65% E 35-50% F 20-35% G 0-20%	
Reference values • Minimum energy performance requirements X • Minimum energy performance standards X • Nearly zero-energy building requirements X • Zero-emission building requirements X		Optimize Energy Efficiency and Performance XXX% Adapt to Occupant Needs XXX% Adapt to Signals from the Grid XXX%	
Carbon Dioxide (CO₂) Emissions Indicator kgCO ₂ /m ² /yr 0 to >120 Very Environmental friendly to Not Environmental friendly X		Smart Readiness Impact Criteria • Energy Efficiency XXX% • Energy Flexibility and Storage XXX% • Comfort XXX% • Convenience XXX% • Health, Well-being & Accessibility XXX% • Maintenance and Fault Prediction XXX% • Information to Occupants XXX%	
Energy Consumption, Production, and System Features Overview • Calculated annual primary energy consumption MWh/year X,XXX • Calculated final energy consumption MWh/year X • Renewable energy production (kWh)/year XXX • Main energy carrier and type of renewable energy source XXX • Calculated energy needs in kWh(m ²) XXX • React to external signals and adjust the energy consumption Yes/No • Heat distribution system is capable to work at low or more efficient temperature levels Yes/No • Renovation passport is available Yes/No • Digital Building Logbook is available Yes/No			

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Building Envelope and Systems		Smart Readiness Technical Domain				
Average U-value for the opaque elements (W/m ² K)	XXX	Heating	XXX%			
Average U-value for the transparent elements (W/m ² K)	XXX	Domestic Hot Water	XXX%			
Type of transparent elements	Type	Cooling	XXX%			
Number of recharging points for electric vehicles	XXX	Ventilation	XXX%			
Type of recharging points for electric vehicles	Type	Lighting	XXX%			
Energy storage systems	Yes/No	Dynamic Envelope	XXX%			
Type of energy storage systems	Type	Electricity	XXX%			
Size of energy storage systems (kWh)	XXX	Electric Vehicle Charging	XXX%			
Sensors that monitor the indoor environmental quality	Yes/No	Monitoring and Control	XXX%			
Controls that respond to the levels of indoor environmental quality	Yes/No					
Operational Energy Metrics						
Heating Cooling DHW Ventilation Lighting Energy use (kWh/m ² /year) XXX XXX XXX XXX XXX Peak load (kW) XXX XXX XXX XXX XXX Energy carrier Carrier... Carrier... Carrier... Carrier... Carrier...						
Detailed Smart Readiness Technical Domain and Impact Criterion Scores						
	Energy Efficiency	Energy Flexibility & Storage	Comfort	Convenience	Health, Well-being & Maintenance & Information Accessibility	SRI
Total	XXX%	XXX%	XXX%	XXX%	XXX%	XXX%
Heating	XX %	XX %	XX %	XX %	XX %	XX %
DHW	XX %	XX %	XX %	XX %	XX %	XX %
Cooling	XX %	XX %	XX %	XX %	XX %	XX %
Ventilation	XX %	XX %	XX %	XX %	XX %	XX %
Lighting	XX %	XX %	XX %	XX %	XX %	XX %
DE	XX %	XX %	XX %	XX %	XX %	XX %
Electricity	XX %	XX %	XX %	XX %	XX %	XX %
EV	XX %	XX %	XX %	XX %	XX %	XX %
M&C	XXX%	XXX%	XXX%	XXX%	XXX%	XXX%

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The SmarterEPC hub (under development)

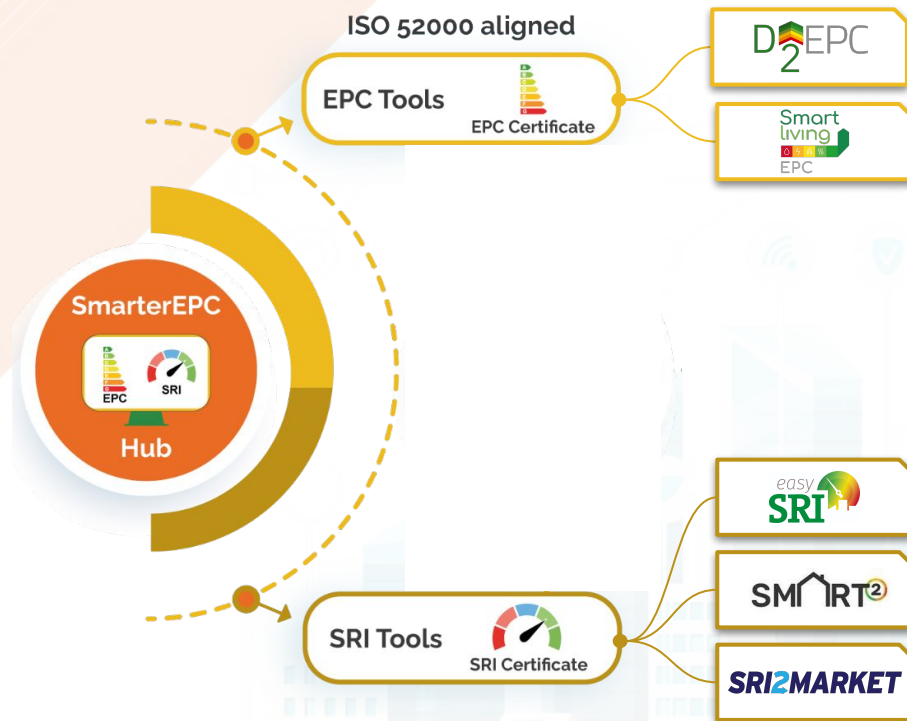
The hub connects with NextGenEPC and SRI digital tools

It integrates with existing EPC and SRI methodologies while aligning with EU regulatory frameworks

It is designed to enhance energy efficiency and smart readiness assessments across Europe

Its adaptable architecture supports future technological and regulatory advancements

Continuous improvements, guided by user input, will make it a more effective and user-friendly tool for building energy performance evaluations



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The challenges faced by the SmarterEPC hub and how we address them

Easy registration and sharing of user accounts with the SRI and EPC tools

Prerequisites associated with use of the SRI and EPC tools

Interoperability / File formats

Policy uncertainty concerning EPC, SRI, and their possible integration



- SmarterEPC adopts a flexible and modular approach, making it available to the European Commission, Member States and stakeholders to contribute to the decision-making process
- Technical challenges faced by the project are thoroughly documented as lessons learnt useful for exploitation and replication purposes, and support to policymakers



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Thank you!

SmarterEPC: a hub of digital tools
for building smartness and
energy performance in one click.



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