

EULF WORKSHOP on Methodologies for energy performance assessment based on location data

JRC Ispra (IT), 12-14 September 2016

Background information on the JRC Energy Pilot





Giacomo Martirano – JRC B6

www.jrc.ec.europa.eu

Serving society Stimulating innovation Supporting legislation





SUMMARY

- EULF Feasibility Study "Location Data for Buildings" related Energy Efficiency Policies"
- Outcomes of the first workshop "Spatial Data for Modelling Building Stock Energy Needs"
- The JRC Energy Pilot







Feasibility Study main objectives









Feasibility Study main achievements









Data gaps (both in terms of quality and relevance)











• Different methodologies

Top-Down approach (empirical - databases, metering)

Building adn	ninistration, Location (c	adastre)			
Energy performance and consumption related information					
Metering dat assessment	etering data (time series) energy performance, consumption sessment				
	Building performance assessment by measurement				
		Detailed calculat	ation acco	ording to CEN s	standards

Simplified calculation

Bottom-Up approach (Calculation)





EU- 28

Feasibility Study main conclusions

 Scaling-up concept
Region/ Member State
Building

EPBD/CoM/EED









• Need for a first workshop







Need for a first workshop







Outcomes of the first workshop

 A workshop on "Spatial data for modelling building stock energy needs" took place in Ispra in November 2015







Outcomes of the first workshop

- A workshop on "Spatial data for modelling building stock energy needs" took place in Ispra in November 2015
- 10 experts have been invited to share their experience
- The main conclusion, as well as the full version of the presented papers, are contained in a report
- An initial discussion aimed to finalize a set of initial Use Cases for the JRC Energy Pilot was started









The JRC Energy Pilot

- Phase 1, as part of EULF activities, started in 2015 and to be concluded by the end of 2016.
- Subsequent phases, as part of EULF and ELISE activities, as well as of JRC institutional programme, formally started in the second semester of 2016 and to be concluded by the end of 2020.
- The main components of the JRC Energy Pilot are a set of Use Cases, aimed at providing solutions to different stakeholders groups engaged in the lifecycle of Energy Efficiency EU policies.







JRC Energy Pilot Use Cases

- Use Case 1: INSPIRE Harmonization of existing Energy Performance Certificate datasets and creation of a web application for accessing them
- Use Case 2: Benchmark of different Energy Performance Labelling of buildings
- Use Case 3: Assessing the Energy Performance of buildings with dynamic measured data
- Use Case 4: Supporting Energy Efficiency driven renovation planning of the building stock at local level
- Use Case 5: Supporting integrated energy planning and monitoring at urban/local level (SEAP BEI/MEI)
- Use Case 6: Supporting the design and implementation of a regional energy strategy





• Use Case template (the recipe)

<

Use Case Description	n		
Name	A short name for the use case, usually describing an activity		
Primary user	<i>(</i> user <i>The main person or system or organization interested in the use case output</i>		
Data provider	The provider of input data which will be elaborated in the use case		
Goal	The goal of the primary user		
Description	A short narrative description of the use case		
Documentation	Include pointers to any additional documentation		
Pre-condition	ondition What are the pre-requisites? What input is required?		
Post-condition	-condition What is the output from the use case? What are the anticipated next steps?		
Flow of Events – from the perspectiv	Basic Path <i>Describe the basic steps needed for executing the use case re of the primary actor.</i>		
Step 1.			
Step n-1.			
European Union	isa		
Location Framework	18/09/2016 Joint Research Centre 14		



JRC Energy Pilot Use Cases

- Different status (level of maturity) of the implementation of the current Use Cases:
 - Use Case 1 running, to be completed by the end of 2016 and extended in 2017.
 - Detailed description of Use Cases 2 and 4 finalized. Partners to be identified for Use Case 2 and already identified for Use Case 4. Start expected in the first quarter of 2017.
 - Description of Use Cases 3 and 6 has to be finalized. Partners to be identified. (by the first quarter of 2017)
 - Description of Use Case 5 finalized. Activities not started yet.
- <u>Working document</u> containing the Use Cases description





The general context of this workshop





```
16
```



Thank you!

Questions?



