

EEnvest H2020 project GA #833112

# EEnvest platform 29 June 2022 EEnvest Final Conference Dimitris Ntimos



## Our goal is to develop...

...a user-friendly online platform to promote investments in **Energy Efficiency Building Retrofits...** 

...which acts as a match-making service, connecting building owners with potential investors...

... using an innovative de-risking model that simplifies the assessment of potential outcomes for both sides...

...operating in a secure environment that ensures data integrity

...developed based on existing IES products and new risk probability calculation models



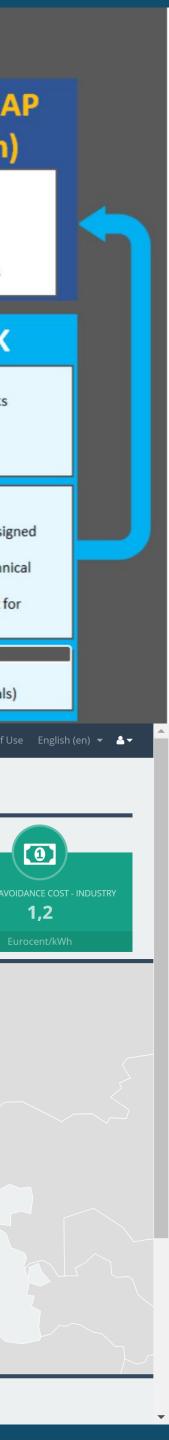
## **EEnvest Energy Efficiency Project:**

- \_ A Building retrofit project, where the Owner has already performed an engineering analysis outside the platform
- \_ The owner wants to assess the quality and risks of their projects and attract investors
- The investor wants to trust and assess the risks of a green investment without diving into details
- \_ Focus is on commercial buildings

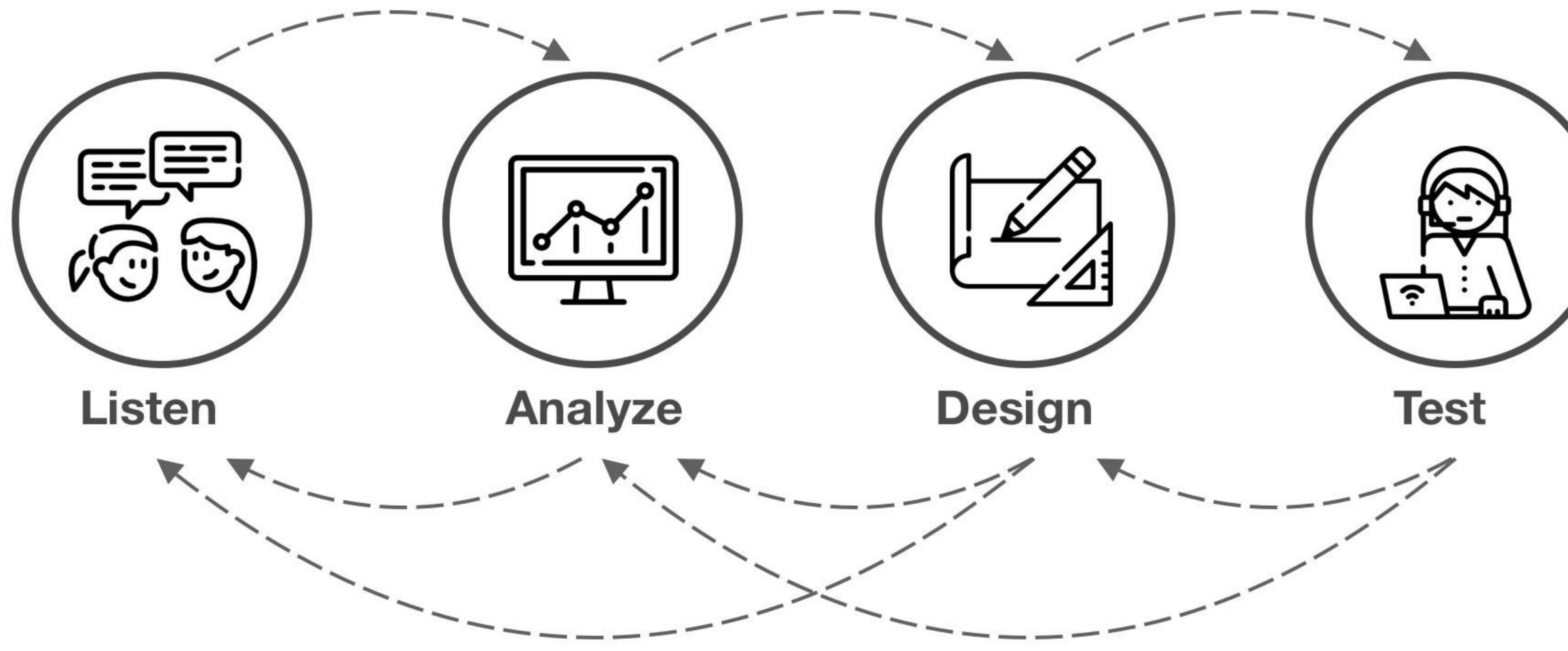




### **BUILDING RENOVATION PASSPORT**



# **Design Process**



medium.com/@prabhani

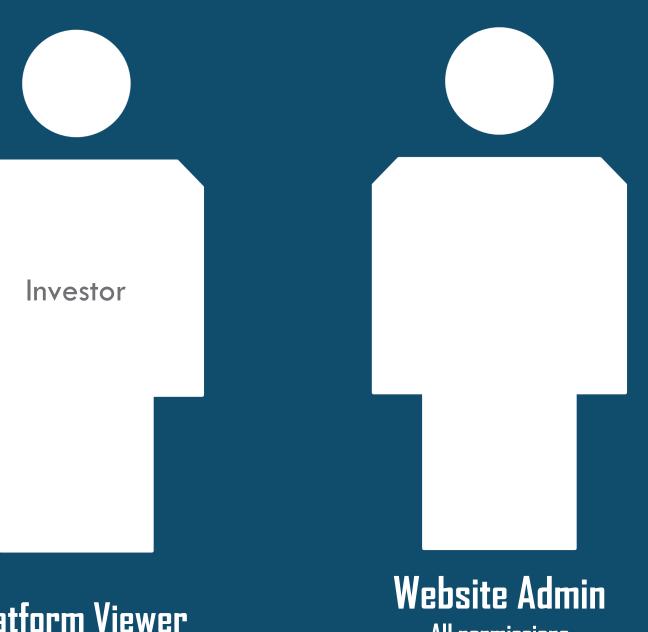


# Who is the user?

Project Promoter

**Project Uploader/Viewer** Data Upload View results of their own portfolio Customise/Filter results

Platform Viewer View results of all portfolios Customise/Filter results



All permissions



# What are the users needs and pain po



- · Delays in construction timing and latest renovations, along with their improvements · I want to know the competence/skill of executor of works

- In current platforms information is too technical and parameters are not understandable · The current platforms don't help with decision making,
- · Building investors for banks have their own risk assessment, and don't see any added values
- Too much financial information in the current platforms

- · Building investors for banks want to see a rating in energy efficiency In order to issue
- green bonds
- Not evaluating appraisal of buildings
- · Current platforms are not updated frequently

What kind of issues do you face in the decision making of an energy efficiency investment, regarding technical/financial evaluation and risk assessment?

> Other: Energy Agency, 100% publicly owned EnergieAgentur: Finding the correct of investment cost and return. Having correct and reliable data on energy consumption and cost

### Aspirations

" I want to invest in a building that has the best outcomes of all"

### Building indicators I am interested in

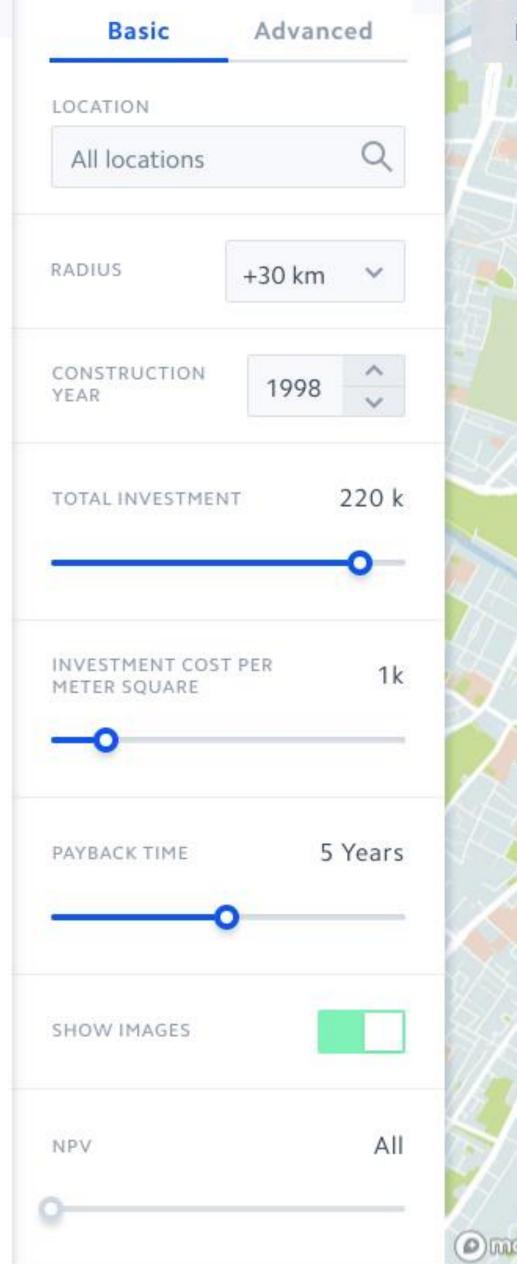
- Simple payback time
- · Project and equity IRR
- Project and equity NPV
- Increase in investment cost
- · Want to know the building's productivity
- Increased building value
- · Inaccurate baseline data provided
- · Keep low costs for maintenance
- · Non-adequate use of equipment by users
- · Variation in energy prices
- Management costs

### **Hesitations and Pain points**



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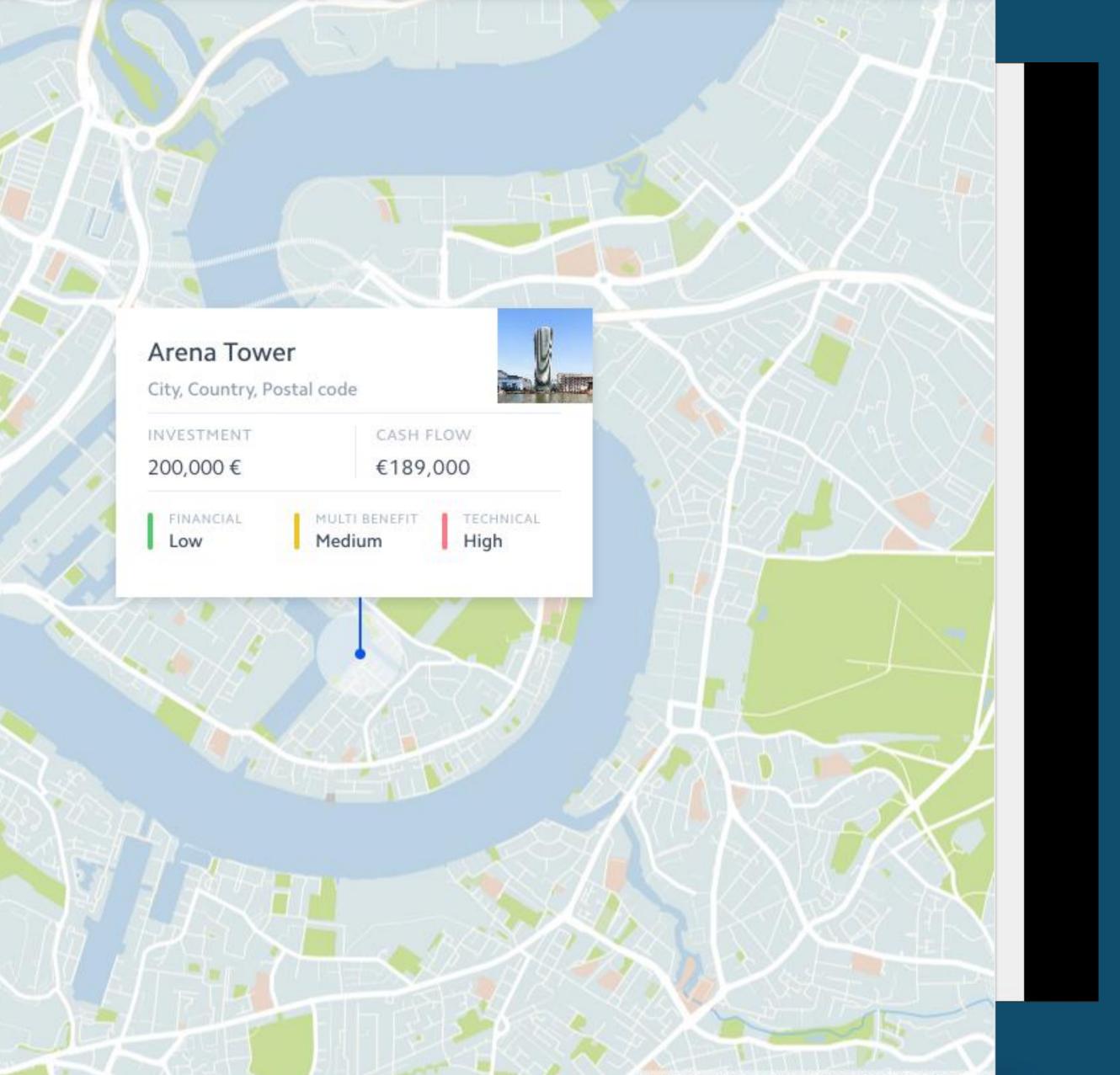
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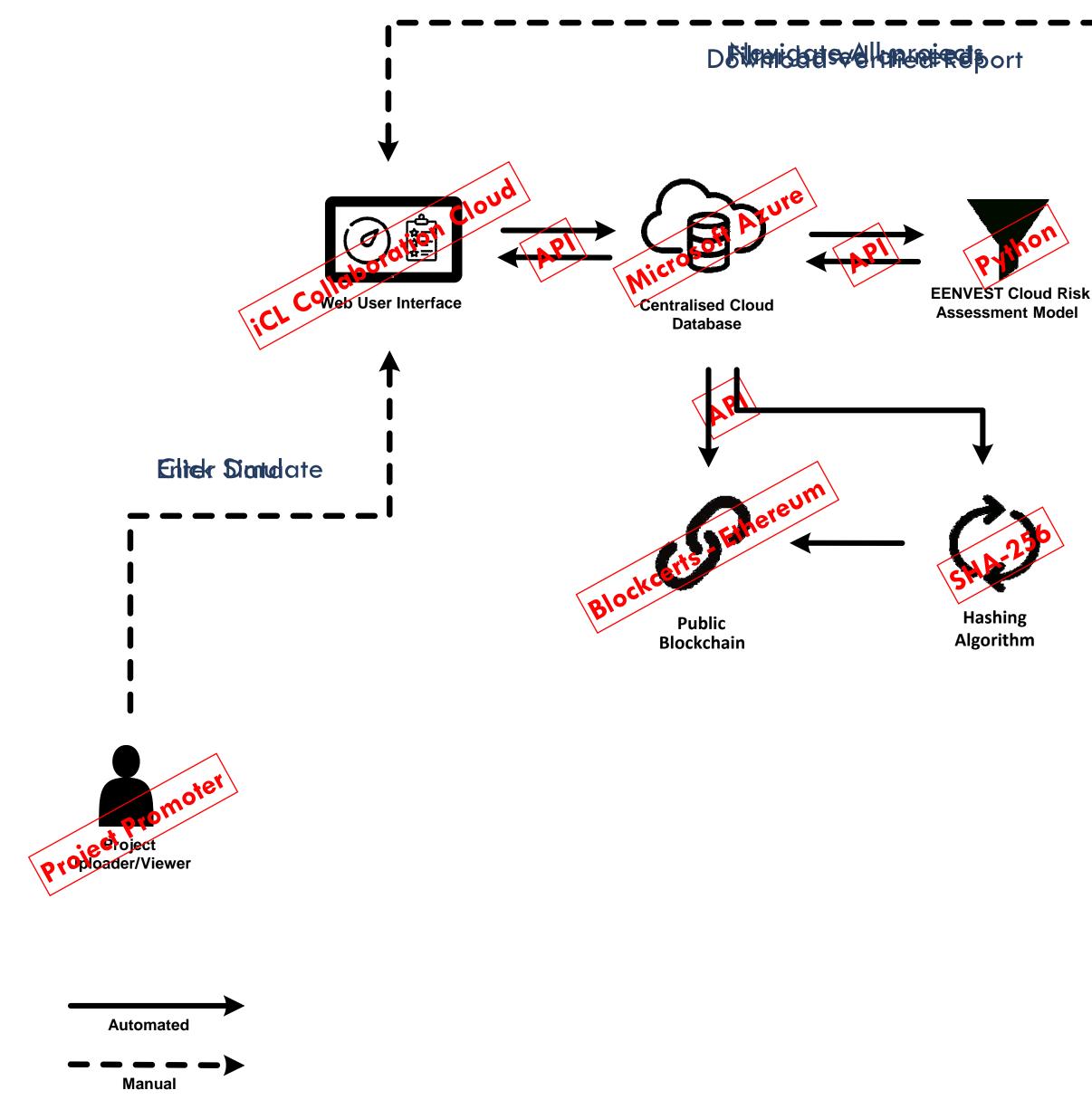


## Find Investments

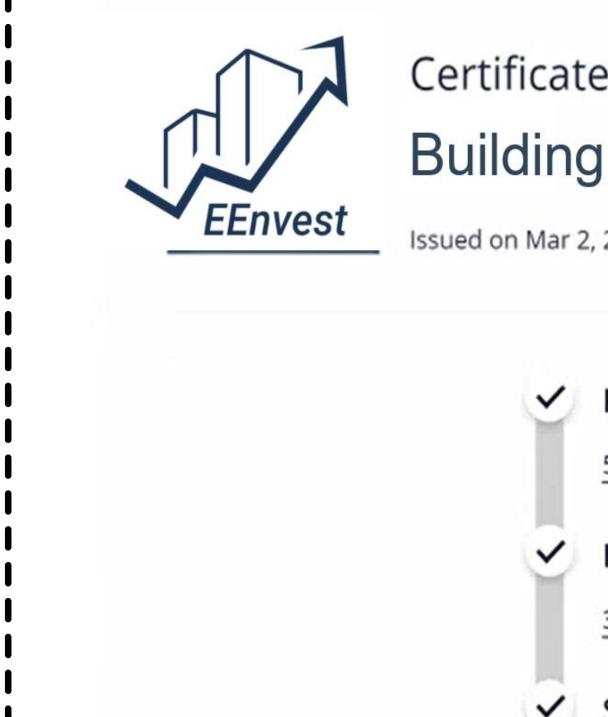




## EEnvest platform infrastructure and workflow

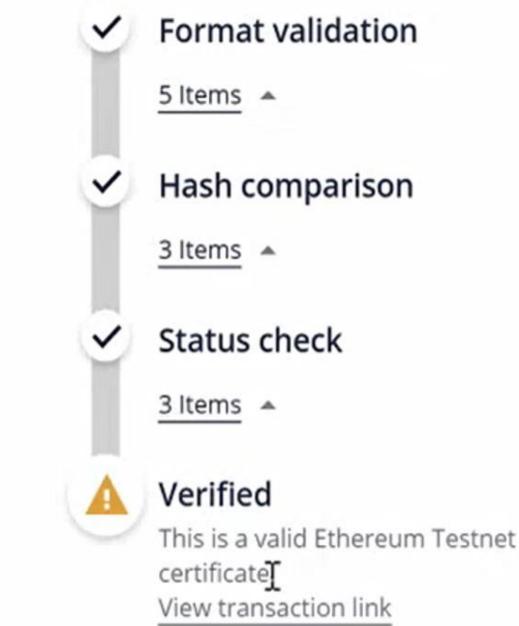


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## Certificate of Authenticity **Building ID**

Issued on Mar 2, 2021 by EEnvest













# EEnvest platform





### Search & Match Platform

Profit Through Savings & Energy Efficiency

Continue to IES login



This project has received funding by the EU under GA 833112



## IES

## Register

Already registered, sign in here

### Firstname

Lastname

Email

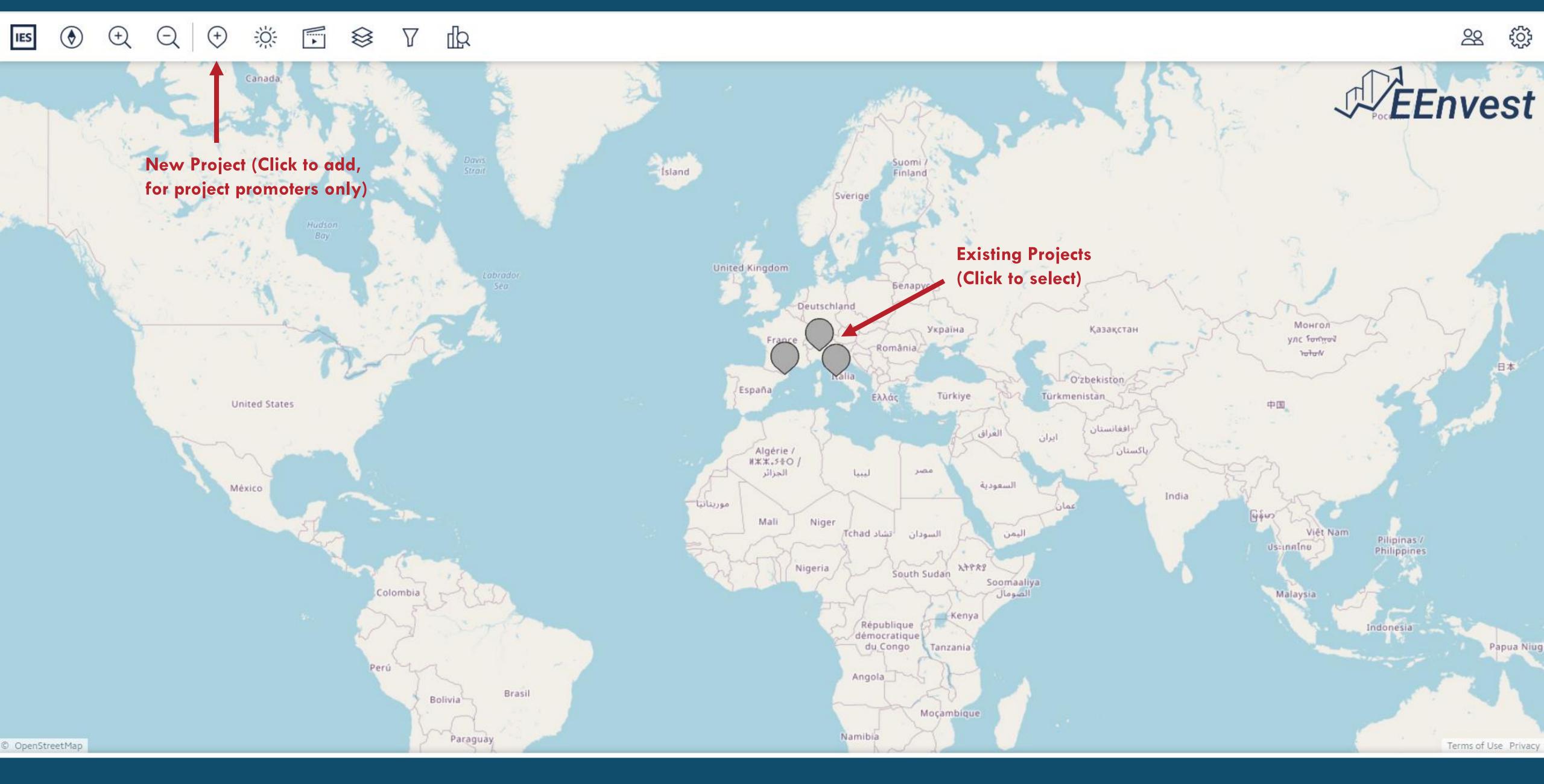
Password

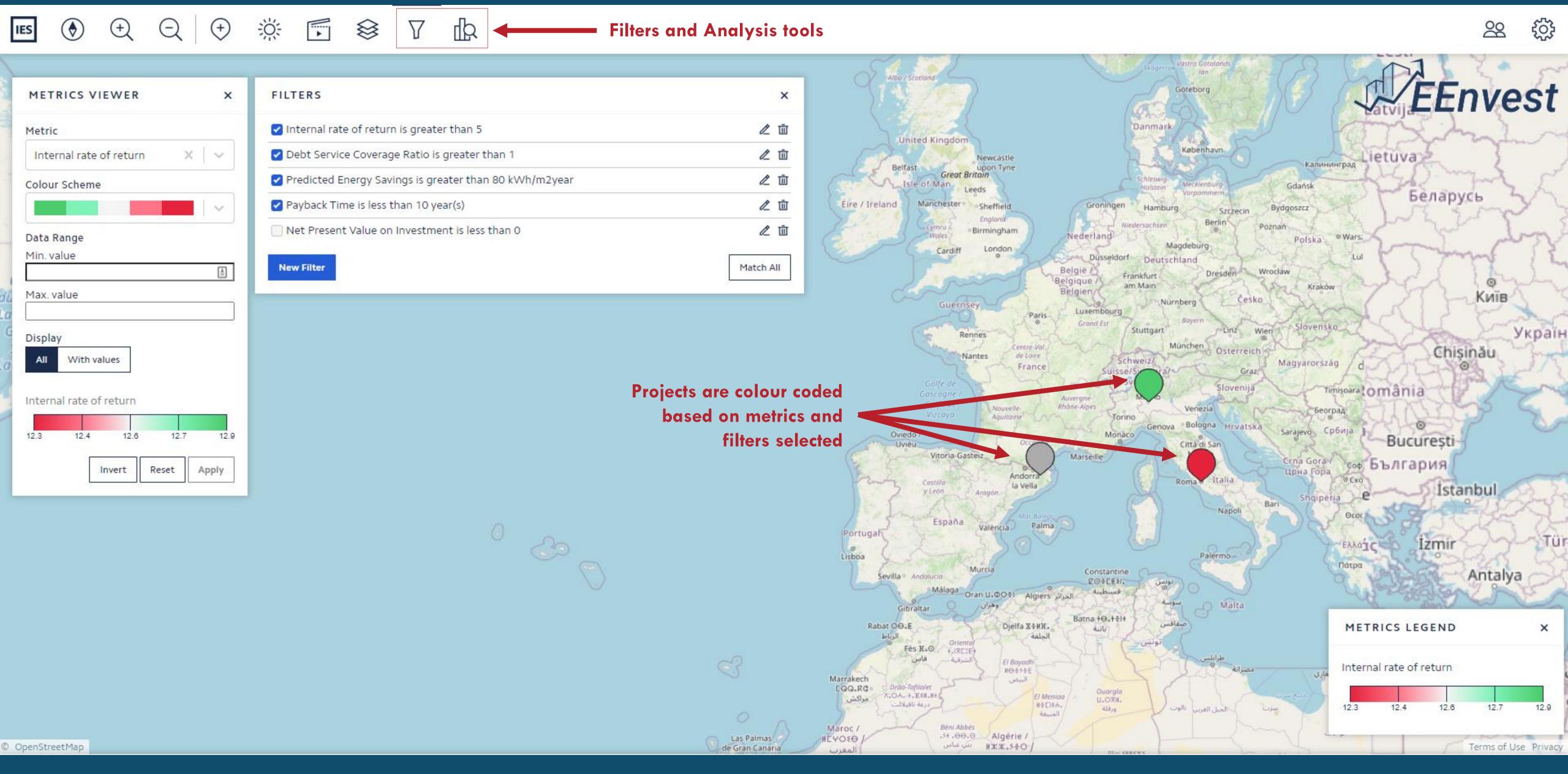
Repeat Password

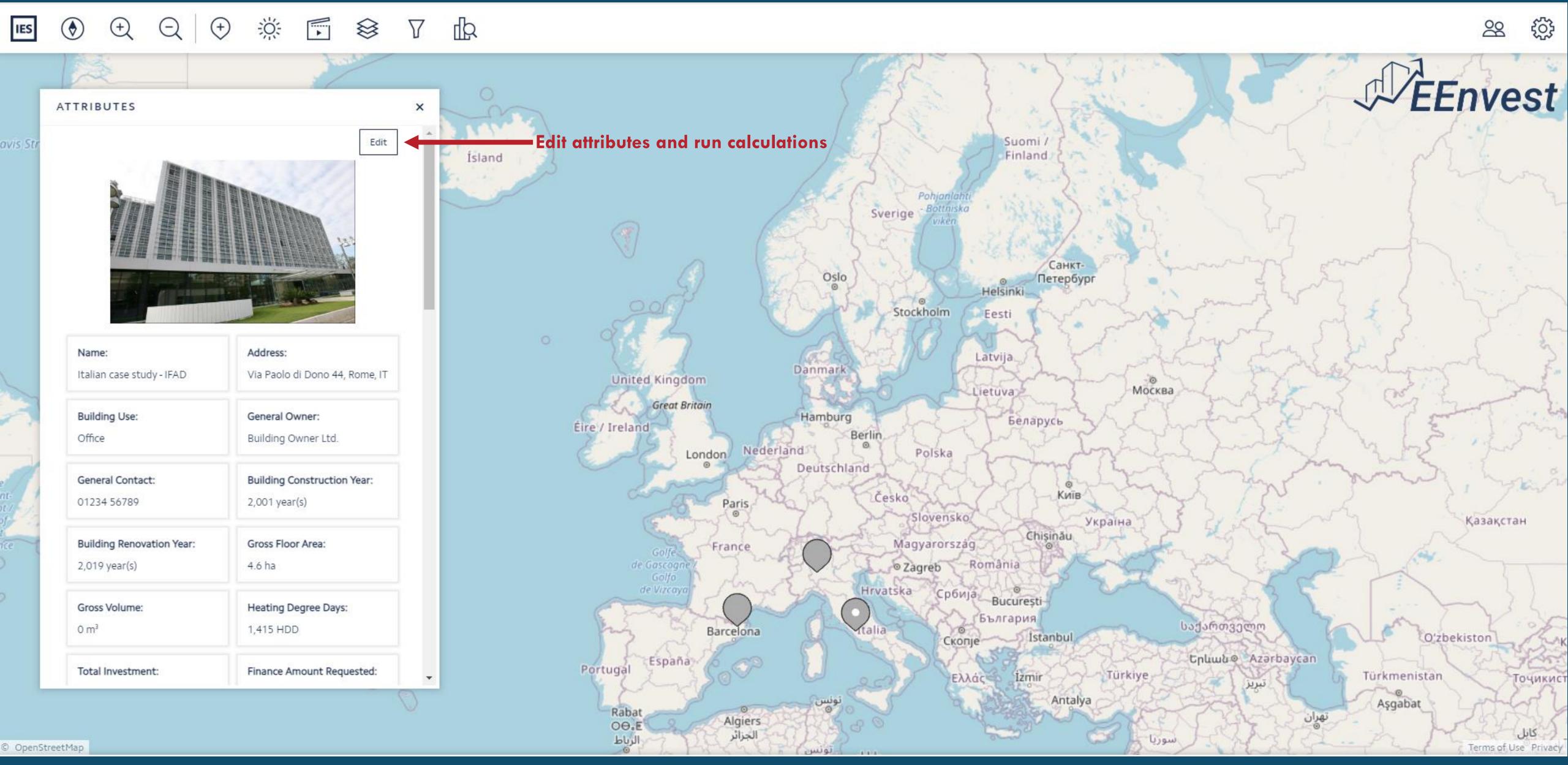
I have read and agree to the Terms

REGISTER









## 

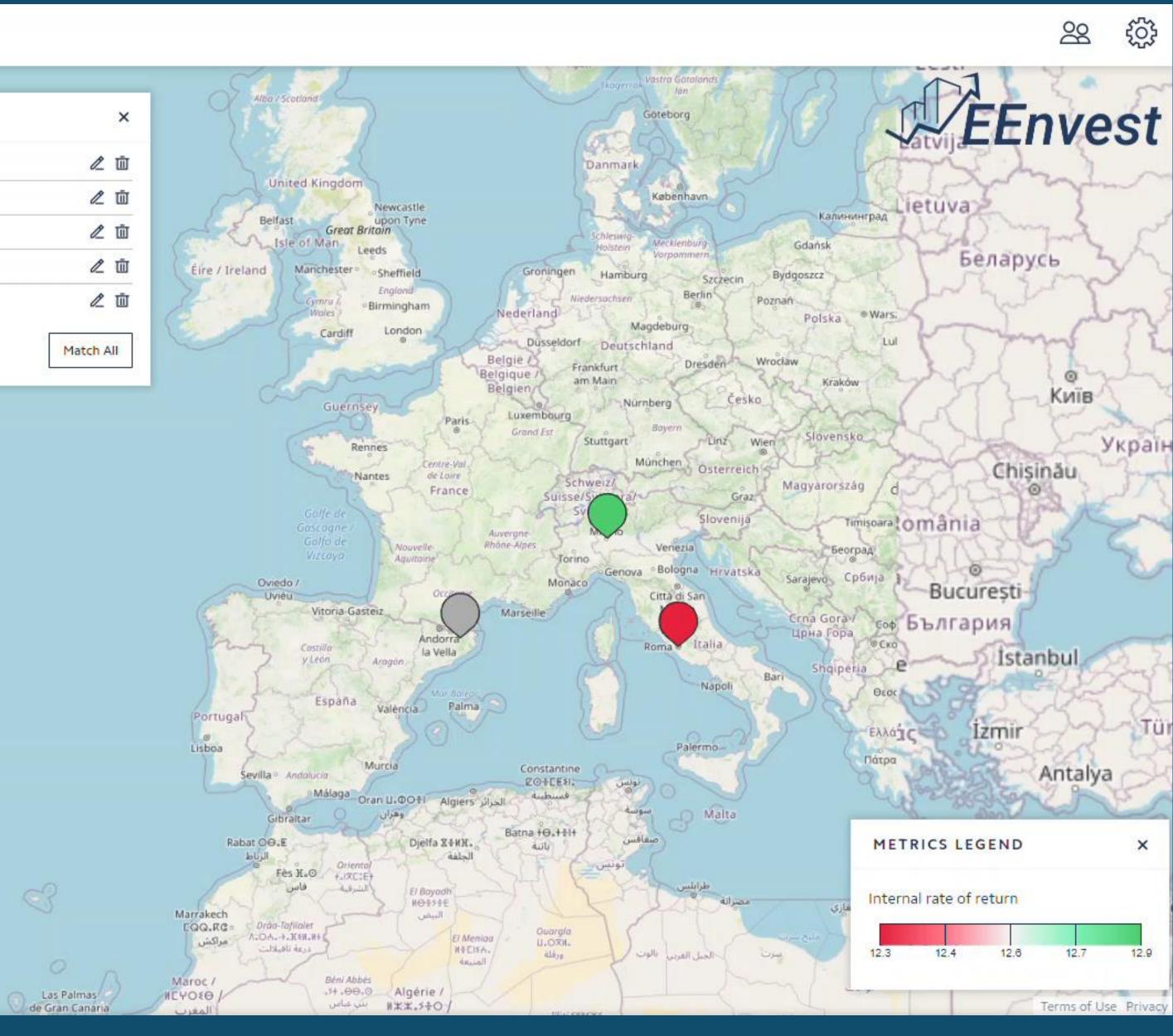
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### FILTERS

Debt Service Coverage Ratio is greater than 1	
Predicted Energy Savings is greater than 80 kWh/m	2year
Payback Time is less than 10 year(s)	
Net Present Value on Investment is less than 0	
New Filter	
New Filter	

63



### 

Labrador	0%	5,605.14
Sea	Payback Time:	Maturity:
	7.63 year(s)	10.25 year(s)
	Internal rate of return:	
120	12.28	
$\langle A_{2} \rangle = 2 \lambda$	Net Present Value on Investment	t:
	1.39	
	Debt Service Coverage Ratio:	Carbon Dioxide Emission:
	3.12	600 ppm
	Predicted Energy Savings:	Jobs Created:
	100 kWh/m2year	23.4
	EU Taxonomy:	
	Yes	
	EENVEST PDF Report:	
	https://ieseenvestsa01.blob.c	core.windows.net/eenvestst
	Blockchain Verified Report:	
	https://ieseenvestsa01.blop.c	ore.windows.net/eenvests

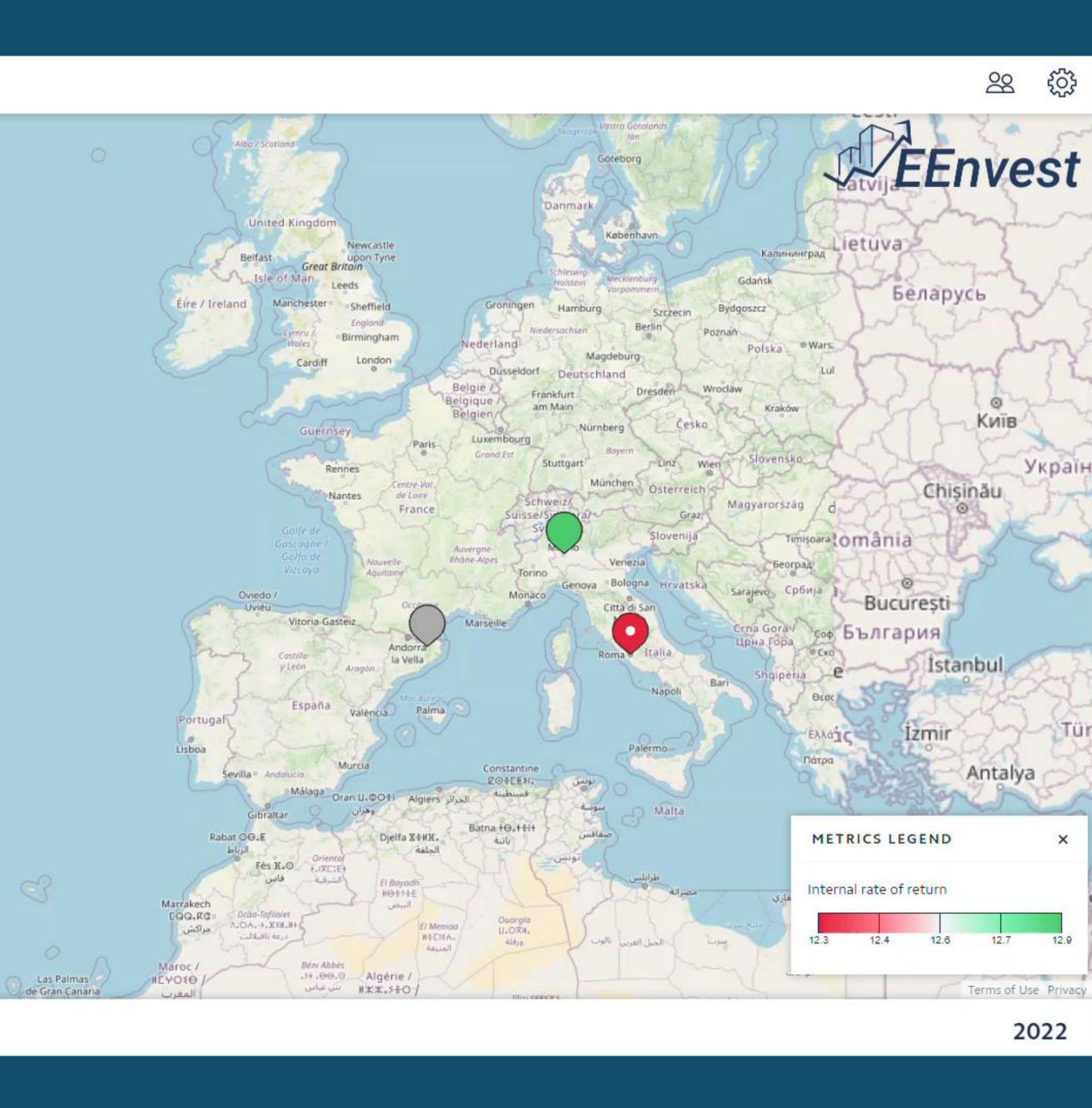
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© OpenStreetMap

Scenario Baseline

https://ieseenvestsa01.blob.core.windows.net/eenveststorage/ab728a31-86de-4405-b4e1-ddc095dc7df2.json?se=20...

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۹	K Advanced	List	Grid	Мар	Newest first	~
7	LOCATION					
	All locations Q				Arena Tower City, Country, Postal cod	e
	RADIUS +30 km ✓				INVESTMENT 200,000 €	T( 1
	CONSTRUCTION YEAR 1998				CO <sub>2</sub> SAVED 370 ton p/ year	M +
	TOTAL INVESTMENT 220 k				Report +	- Com
	INVESTMENT COST PER 1k				Building Name City, Country, Postal cod	
	PAYBACK TIME 5 Years				INVESTMENT 200,000 €	1
					CO <sub>2</sub> SAVED 370 ton p/ year	M +
	SHOW IMAGES					
	D Compare	-	Building name £200.000	1	Building name 2 £200,000	

### I Investments

Arena Tower City, Country, Postal cod	e	FINANCIAL Low	MULTI BENEFIT TECHNICAL Medium High
INVESTMENT 200,000 €	TOTAL NET CASH FLOW 189,000 €	PAYBACK 6 years	COST/M² 20,000 €
			100
CO <sub>2</sub> SAVED 370 ton p/ year	MARKET VALUE INCREASE + 6,90 % Compare	NPV 20.000 € te	IRR 4,20 %
370 ton p/ year	+ 6,90 % Compare Tavourit	20.000€	
370 ton p/ year	+ 6,90 % Compare Tavourit	20.000 € te	4,20 % MULTI BENEFIT TECHNICAL







Building name 3 £200.000



Building name 4 £200\_000

E FINANCIAL E MULTI RENEFIT E TECHNICAL



# EEnvest





# Thank you Dimitrios.Ntimos@iesve.com

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