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# EASME

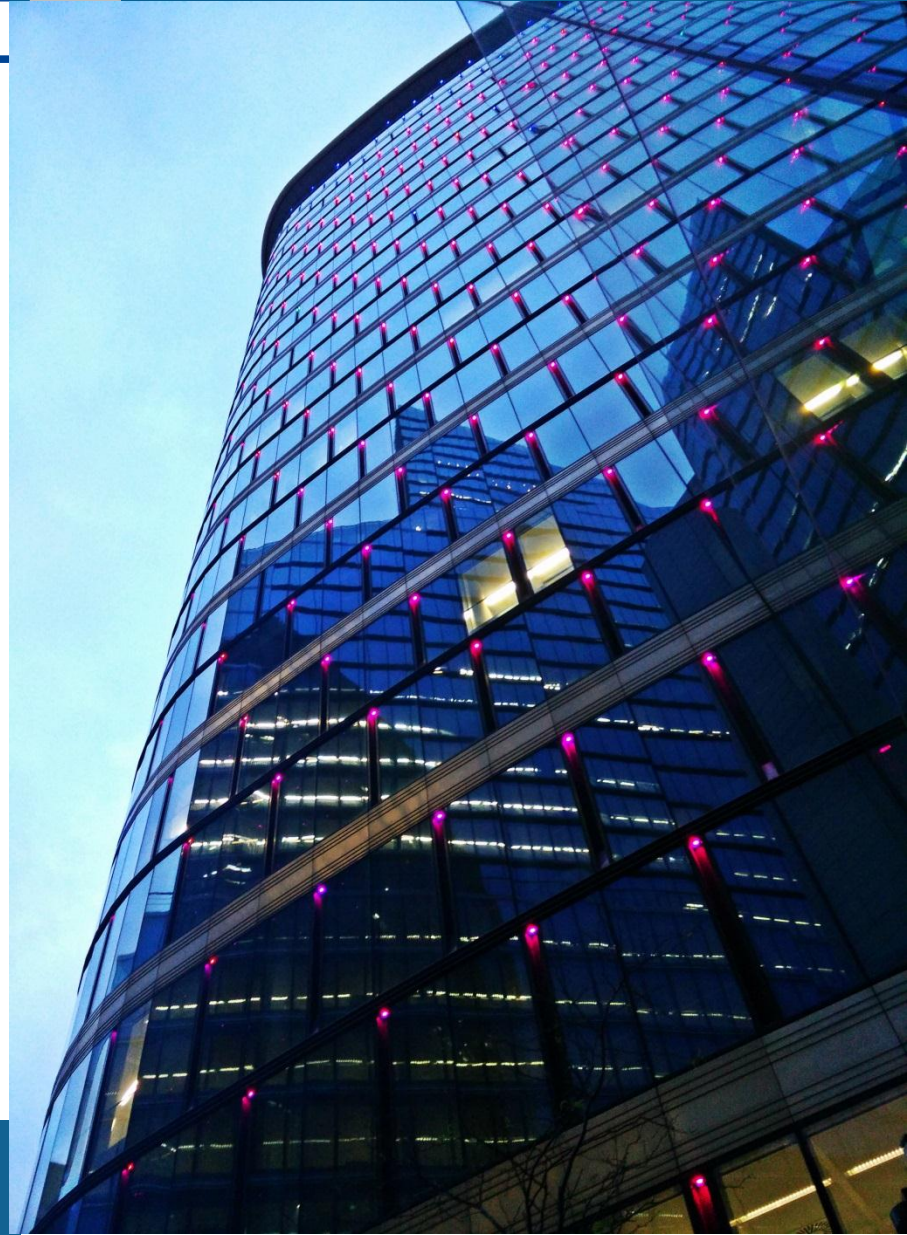
Executive Agency for Small and Medium-sized Enterprises

## EU support for energy efficiency under Horizon 2020

Zagreb Energy Week  
10.05.2017

**Philippe MOSELEY**  
Project Advisor  
Horizon 2020 Energy Unit (Buildings)

*Executive  
Agency  
for SMEs*





# EASME

Executive Agency for Small and Medium-sized Enterprises



**SME SUPPORT**



**ENERGY**



**ENVIRONMENT**



**MARITIME**



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# Clean Energy for all Europeans

## ACHIEVING THE BINDING 30% ENERGY EFFICIENCY TARGET BY 2030



### Energy Efficiency Directive

- Binding 30% energy efficiency target for 2030;
- Create 400,000 new jobs;
- Reduce gas imports by 12%;
- Save € 70 billion in fossil fuel imports;
- Empower consumers by granting access to information on their energy consumption.



### Energy Performance of Buildings

- Clear vision for a decarbonised building stock by 2050;
- Smart & Efficient buildings through use of Information and Communication Technologies and Smart Technologies;
- Smart Finance for Smart Buildings initiative:
  - More effective use of public funding
  - Aggregation of funds
  - De-risking
- Protect vulnerable groups & address energy poverty.



### Ecodesign Working Plan 2016-2019

- List of new product groups;
- Outline on how ecodesign will contribute to circular economy objectives;
- Specific measures on air conditioning;
- Guidelines on voluntary agreements.

## EASME's role within the European Commission

- Manage EU programmes
- Feed project outcomes into EU policymaking





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THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

*Research*

*Demonstration*

*Market Uptake*

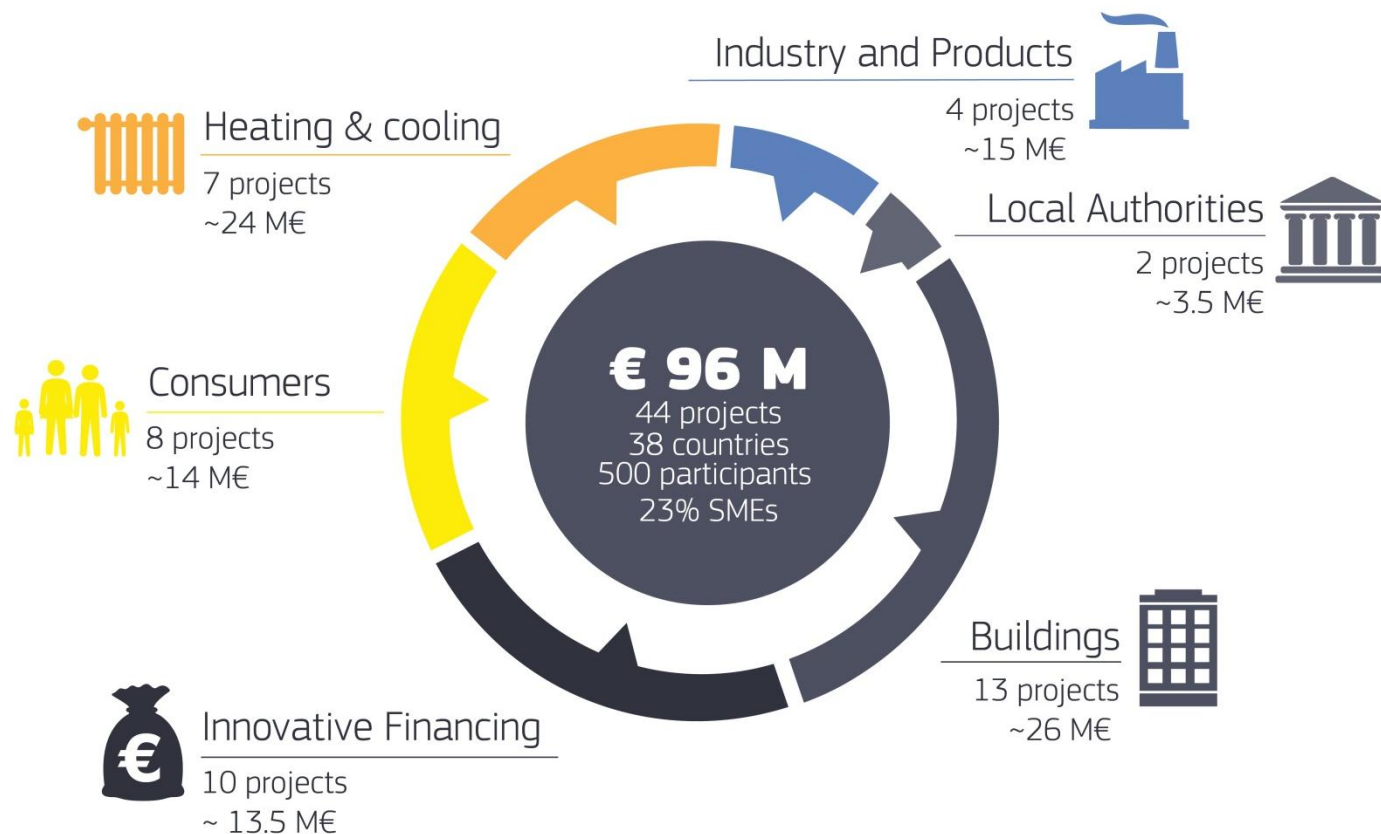
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# H2020 Energy Efficiency 2016 call results



# Secure, Clean and Efficient Energy

Main areas	2017, Million EUR
Energy Efficiency	104
Smart Cities and Communities	69
Competitive Low-Carbon Energy	423
SME Instrument	50
ELENA (project dev. assistance)	20
Tenders and other actions	34



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# Secure, Clean and Efficient Energy

Main areas	2017, Million EUR
Energy Efficiency	104

## Funding areas



**Buildings**



**Heating &  
Cooling**



**Consumers**



**Industry &  
Products**



**Finance for  
Sustainable  
Energy**





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# Secure, Clean and Efficient Energy

Main areas	2017, Million EUR
Energy Efficiency	104

## Types of action

*Research*  
100% funding

*Demonstration*  
70% funding

*Market Uptake*  
100% funding



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Heating &  
Cooling



Consumers



Buildings



Industry &  
Products



Finance for  
Sustainable  
Energy

Coordination  
& Support  
Actions

EU support: 100%

EE02

EE06

EE11

EE15

EE22

EE09

EE14

EE16

EE23

EE18

EE24

EE19\*

**Deadline:**  
**7 June 2017**

<http://ec.europa.eu/easme/en/energy>



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**Heating &  
Cooling**



Consumers



Buildings



Industry &  
Products

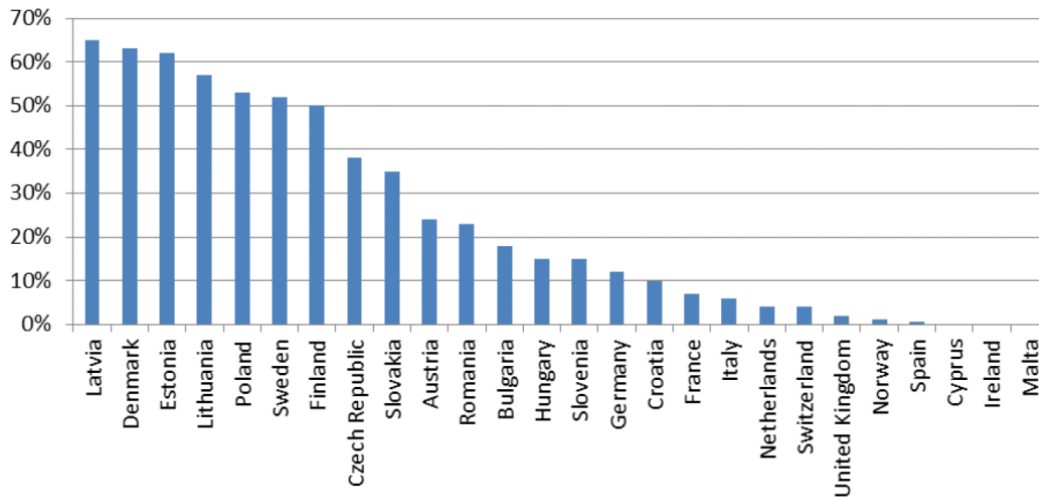


Finance for  
Sustainable  
Energy

**Coordination  
& Support  
Actions**

**EE02 - Improving existing district heating networks**

## EE-02: Improving district heating networks



Population served by district heating (2013). Source: European Commission using data from Euroheat & Power

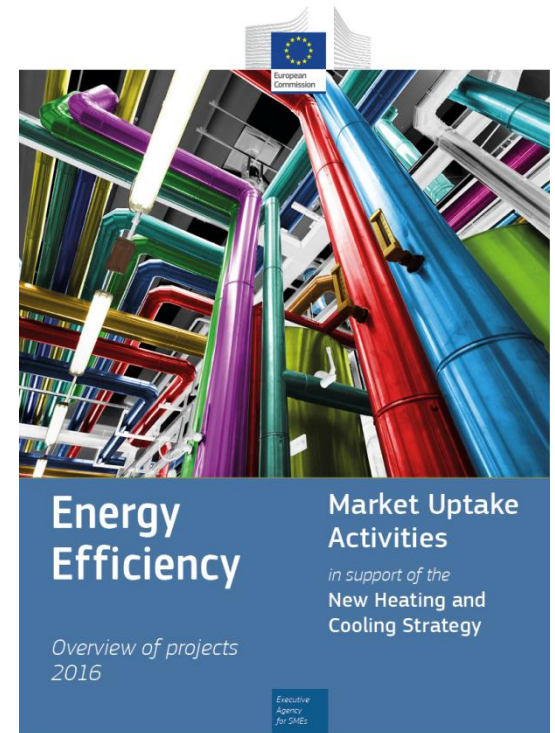


- Many DH systems are **old and inefficient**, use fossil fuels
- **Poor maintenance**, high customer costs, limited user control
- Many customers **disconnect** from networks to install individual systems

# Market uptake for heating and cooling

Project examples including:

- Strategic and spatial planning for heat networks e.g. [European Thermal Atlas](#)
- Capacity building e.g. [RES H/C SPREAD](#)



<https://ec.europa.eu/easme/en/heating-and-cooling>



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Heating &  
Cooling



Consumers



Buildings



Industry &  
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Finance for  
Sustainable  
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Coordination  
& Support  
Actions

EE-06 - Engaging private consumers

EE-09 - Activating public authorities

**Deadline:**  
**7 June 2017**

<http://ec.europa.eu/easme/en/energy>



# EE-09 a/b: Engaging & activating public authorities

Why public authorities?

- ✓ spending power (19% of EU GDP)
- ✓ pivotal role in their communities
- ✓ important driver in energy transition



## EE-09a Engaging public authorities

- Innovative approaches
- Ambition in plans and measures
- Multi-stakeholder engagement
- Focus on sectors with high energy saving potentials
- Capitalising on synergies with e.g. Covenant of Mayors, Smart Cities & Communities or similar



# EE-09b Peer to peer learning for public authorities

- Enhance public authorities' capacity to deliver the energy transition
- Innovative energy-related exchange programmes for staff
- Need to scale up peer-learning to exploit full potential





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Heating &  
Cooling



Consumers



**Buildings**



Industry &  
Products



Finance for  
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Actions

**EE11 - Promoting deep renovation of buildings**

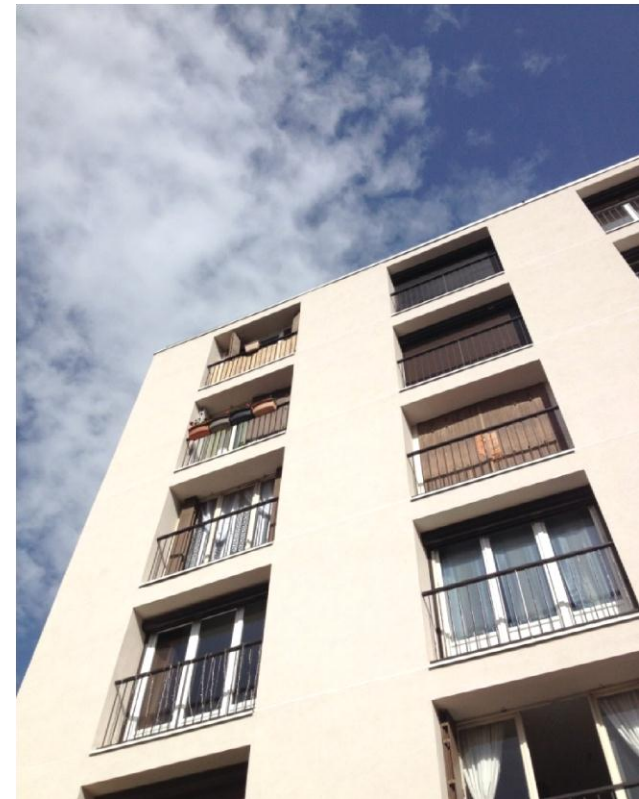
**EE14 - Construction skills**

**Deadline:**  
**7 June 2017**

<http://ec.europa.eu/easme/en/energy>

# EE-11 Deep renovation of buildings

- Overcome common barriers to renovation
- Improve energy performance and speed up rate of renovation
- Improve environmental, health and well-being outcomes
- Improve compliance with regulations



# Example of deep renovation: Transition Zero

- Standardised, affordable home renovations in record time
- Minimal disturbance of occupants – successful Dutch model 'Energiesprong' scaled-up and transferred to UK and French markets
- Involves social housing associations, suppliers and financiers



<http://transition-zero.eu/>





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# Is the workforce ready? EE-14 Construction skills



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Heating &  
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Consumers



Buildings



Industry &  
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Actions

**EE15 - Increasing capacities in industry and services**

**EE16 - Implementing EU product efficiency legislation**

**EE18 - Energy efficiency of industrial parks**

Public  
Procurement of  
Innovation

**EE19 - Public Procurement of Innovative Solutions**

<http://ec.europa.eu/easme/en/energy>

**Deadline:  
7 June 2017**

# EE-19 Public procurement of innovative solutions

- Speed up public sector modernisation
- Get better value for money through cooperation
- Address issues of common interest together





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# Example of PPI: the CEPPI project

<http://www.ceppi.eu>



ABOUT CEPPI CITIES TENDERS GUIDANCE & LEARNING KEEP INFORMED



5 CITIES  
AND  
4 EXPERT PARTNERS



LOOKING FOR  
SUSTAINABLE ENERGY  
SOLUTIONS



THROUGH  
PUBLIC PROCUREMENT  
OF INNOVATION



TO ACHIEVE  
ENERGY SAVINGS  
of 33 GWH PER YEAR





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Heating &  
Cooling



Consumers



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Finance for  
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Actions

**EE22 - Project Development Assistance**

**EE23 - Innovative financing schemes**

**EE24 - Making the energy efficiency market investible**

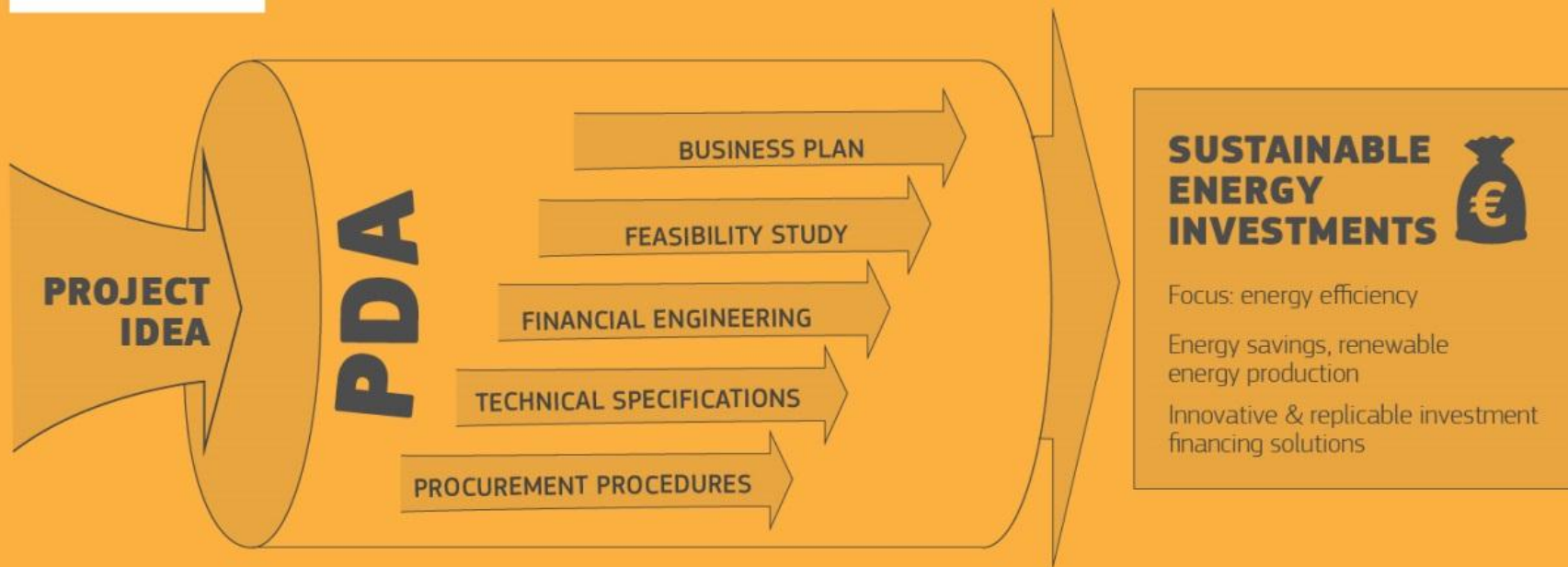
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# EE-22 Project Development Assistance (PDA)

## WHAT





# EE-22 Project Development Assistance (PDA)

## Target groups for PDA include:

- Public and private project promoters
- Public authorities
- Public or private infrastructure operators  
estate managers
- Energy service companies (ESCOs)



# EE-22 Project Development Assistance (PDA)

**FOCUS ON...**

ENERGY EFFICIENCY INVESTMENTS IN



Existing public and private buildings



Street lighting



Retrofitting of existing district heating/cooling



Urban transport



Industry and services

**Size of investment portfolio: EUR 7.5 million – EUR 50 million**



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# Information Resources

## Horizon 2020 Participant Portal

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>





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Find out more

<http://ec.europa.eu/easme/en/energy>

EASME on Twitter



@H2020EE • @PhilippeMoseley

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