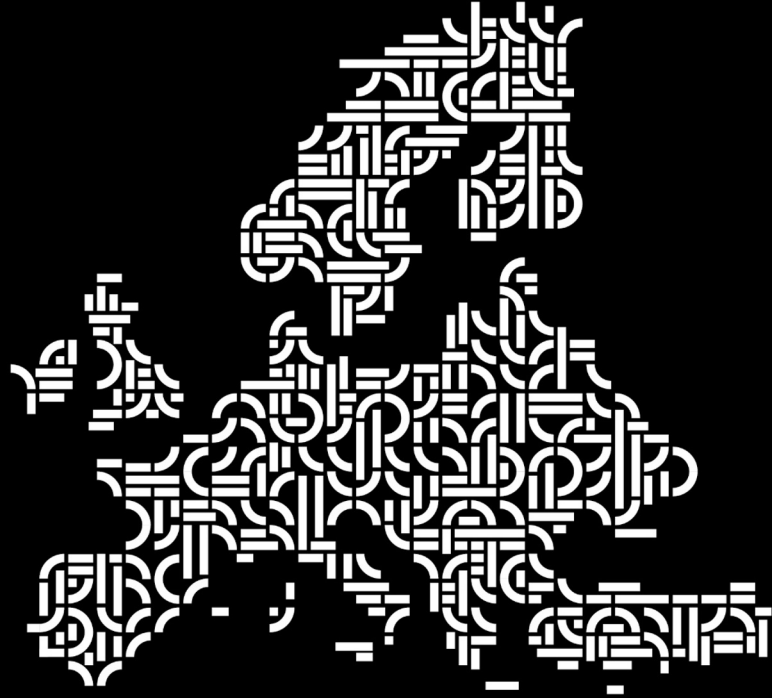


European University



EELISA

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InnoCORE WP5

Set up initiatives for joint research projects
(Enable joint research)

Simona Gallerani
Scuola Normale Superiore

Info Day
24th October 2023



EELISA InnoCORE has received funding from the European Union's Horizon 2020 research and innovation programme under GA No 101035811



WP5 Enable joint research – Objectives

- To support the research content of the learning activities of the consortium.
- To explore joint solutions to current socio-technical challenges.
- To develop science-based actions to foster further interactions and synergies.
- To enable joint research activities (students, researchers, faculty, and external stakeholders).
- To create and feed EELISA Clusters.

WP5 Enable joint research – Tasks

1. EELISA Connect: Strategic meetings → See Sara Barsanti talk
2. Development of the EELISA innoCORE networking platform
3. Identification and Coordination of EELISA Clusters

Linked to the EELISA Communities' platform (In collaboration with FAU)

1. Development of the EELISA InnoCORE Networking Platform

Proponent (Name, Surname) (*,*)

Institution (*)

e-mail address (*)

Statement of research interest (if any, not compulsory);

link to website (if any, not compulsory, both personal and lab websites)

TITLE (*)

ABSTRACT (*)

ACTION PROPOSED (*) Synergy with EELISA Erasmus+ (Task 5.8)

LAB & INFRASTRUCTURES (if any, not compulsory) ← See Antoine Mercier talk

COMMUNITIES (if any, not compulsory) Synergy with EELISA Erasmus+

SDG (Sustainable Development Goals, >=1) (*)

SRA (Strategic Research Areas, >=1) (*) Synergy with WP2

ERC (from the panel structure, >=1) (*)

Free keywords (if any, not compulsory)

PERSONAL INFO

(in phase of registration to the platform)

RESEARCH PROJECT INFO

LABELS

(Input for the «matching function»)

RESEARCH PROJECT

A research project is mainly defined by:

- (i) the problem the researcher aims to address,
- (ii) the methodology the researcher means to adopt;
- (iii) the results the researcher expects to obtain.

17 SUSTAINABLE DEVELOPMENT GOALS



WHAT DO WE MEAN WITH SRAs?

«STRATEGIC RESEARCH AREAS»

WHAT DO WE MEAN WITH SRAs?

«STRATEGIC RESEARCH AREAS»

1. Digital
2. Climate, Energy & Mobility
3. Social Sciences & Humanities
4. Health
5. Artificial Intelligence
6. Connectivity
7. Food, Bio-economy, Natural Resources, Agriculture & Environment
8. Culture, Creativity & Inclusive Society
9. Smart Industry & Space Technologies
10. Natural Sciences
11. Advanced Materials Science and Engineering

Strategic Research Areas (SRAs) (EELISA WP2):

SRAs refer to the 11 research areas selected as strategic by the EELISA consortium at the kick-off meeting.

WHAT DO WE MEAN WITH «ERC labels»?

The Scientific Council has organized the structure of the European Research Council (ERC) in 27 Panels:

<https://erc.europa.eu/sites/default/files/document/file/erc%20peer%20review%20evaluation%20panels.pdf>

which are divided in three domains: Physical Sciences and Engineering (PE), Life Sciences (LS), and Social Sciences and Humanities (SH).

PE contains 11 panels, LS contains 9 panels, SH contains 7 panels. The list of panels composing the ERC panel structure for the 2021 and 2022 calls can be found here

https://erc.europa.eu/sites/default/files/document/file/ERC_Panel_structure_2021_2022.pdf

WHAT DO WE MEAN WITH «PANELS»?

Physical Sciences and Engineering

Life Sciences

Social Sciences and Humanities

There are three main research domains in the ERC structure

PANELS

(to be taken from the ERC Panel structure)

Physical Sciences and Engineering

Mathematics

Fundamental Constituents of Matter

Condensed Matter Physics

Physical and Analytical Chemical Sciences

Synthetic Chemistry and Materials

Computer Science and Informatics

Systems and Communication Engineering

Products and Processes Engineering

Universe Sciences

Earth System Science

Life Sciences

Social Sciences and Humanities

Each main domain can be expanded in different Panels

KEYWORDS

(to be taken from the ERC Panel structure)

Physical Sciences and Engineering

Life Sciences

Social Sciences and Humanities

Mathematics

Fundamental Constituents of Matter

Condensed Matter Physics

Physical and Analytical Chemical Sciences

Synthetic Chemistry and Materials

Computer Science and Informatics

Systems and Communication Engineering

Products and Processes Engineering

Universe Sciences

Earth System Science

PE6_1 Computer architecture, pervasive computing, ubiquitous computing

PE6_2 Computer systems, parallel/distributed systems, sensor networks,

PE6_3 Software engineering, operating systems, computer languages

PE6_4 Theoretical computer science, formal methods, and quantum computing

PE6_5 Cryptology, security, privacy, quantum cryptography

PE6_6 Algorithms, distributed, parallel and network algorithms

PE6_7 Artificial intelligence, intelligent systems, multi agent systems

PE6_8 Computer graphics, computer vision, multi media, computer games

Each PANEL can be expanded in different KEYWORDS

These are the ERC label for your research project

FREE KEYWORDS IF ANY

The User may want to add to a *dynamically-updated database*

customized keywords (free keywords) that can help

to describe the research project

in a more clear and specific way

with respect to the keywords included in the ERC Panel structure.

TO SUMMARISE

Each research project can be labelled according to:

17 SUSTAINABLE DEVELOPMENT GOALS

11 STRATEGIC RESEARCH AREA (from the kick off meeting)

(several) PANELS (from the ERC panel structure)

(several) KEYWORDS (a dynamically updated database of free keywords)

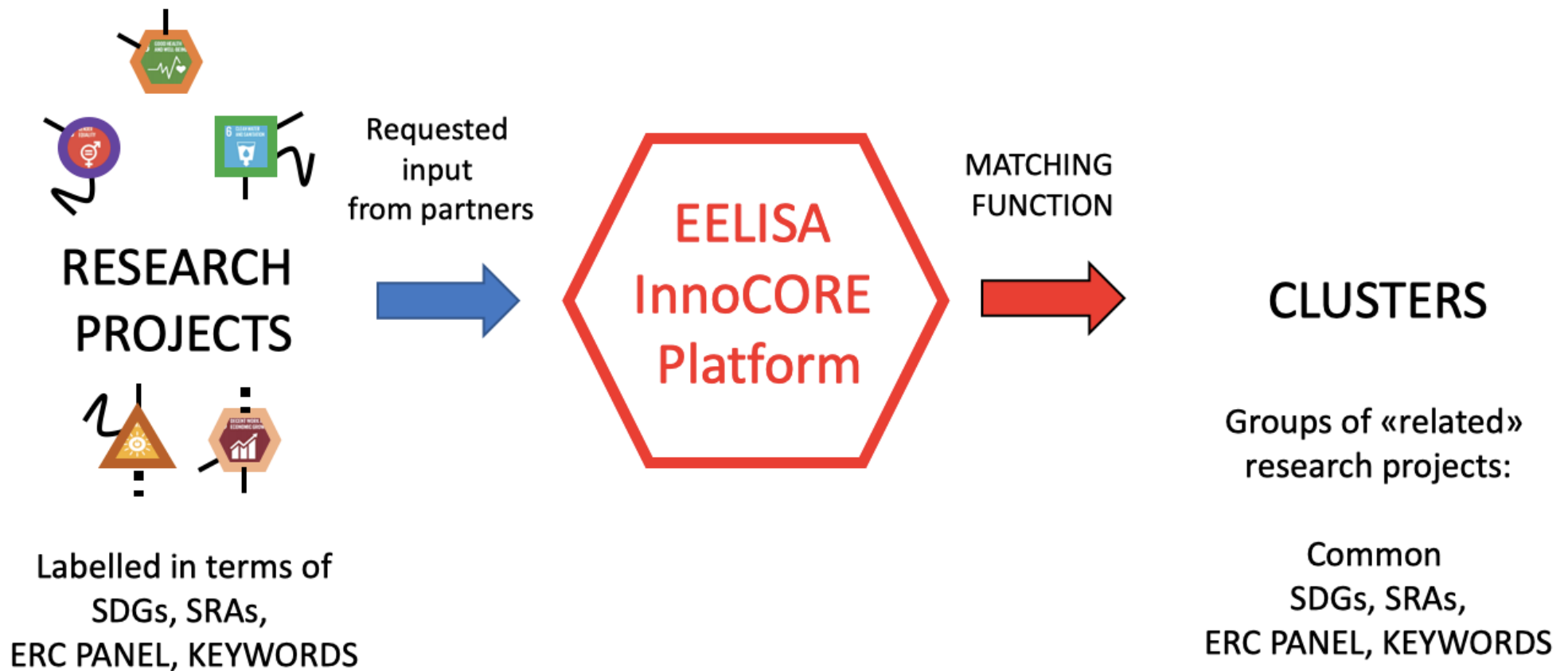
SDG (Sustainable Development Goals, >=1) (*)
SRA (Strategic Research Areas, >=1) (*) Synergy with WP2
ERC (from the panel structure, >=1) (*)
Free keywords (if any, not compulsory)



LABELS

(Input for the «matching function»)

2. Identification and Coordination of EELISA Clusters



number of projects 65

institutions:

BME	453 clusters matching SDGs
ENPC	530 clusters matching SRAs
FAU	211 clusters matching ERC PANELs
ITU	80 clusters matching Keywords
PSL	28 clusters matching ALL labels:
SNS	['UPM1-UPB10' 'UPM1-SSSA1' 'UPM1-FAU1' 'UPM4-SSSA1' 'UPB5-ENPC3'
SSSA	'UPB10-SSSA1' 'UPB23-ITU13' 'SSSA2-ITU2' 'SSSA2-ITU3' 'SSSA2-ITU4'
UPB	'SSSA2-ITU14' 'SSSA3-ITU2' 'SSSA3-ITU4' 'SSSA3-ITU14' 'SSSA4-ENPC3'
UPM	'ENPC2-ITU10' 'ENPC2-FAU2' 'ENPC3-ITU15' 'BME1-ITU6' 'BME2-ITU6'
	'BME2-ITU7' 'BME3-ITU6' 'BME4-ITU6' 'BME5-ITU6' 'BME5-ITU7' 'BME6-ITU6'
	'BME6-ITU7' 'BME7-ITU6']

The first EELISA Clusters

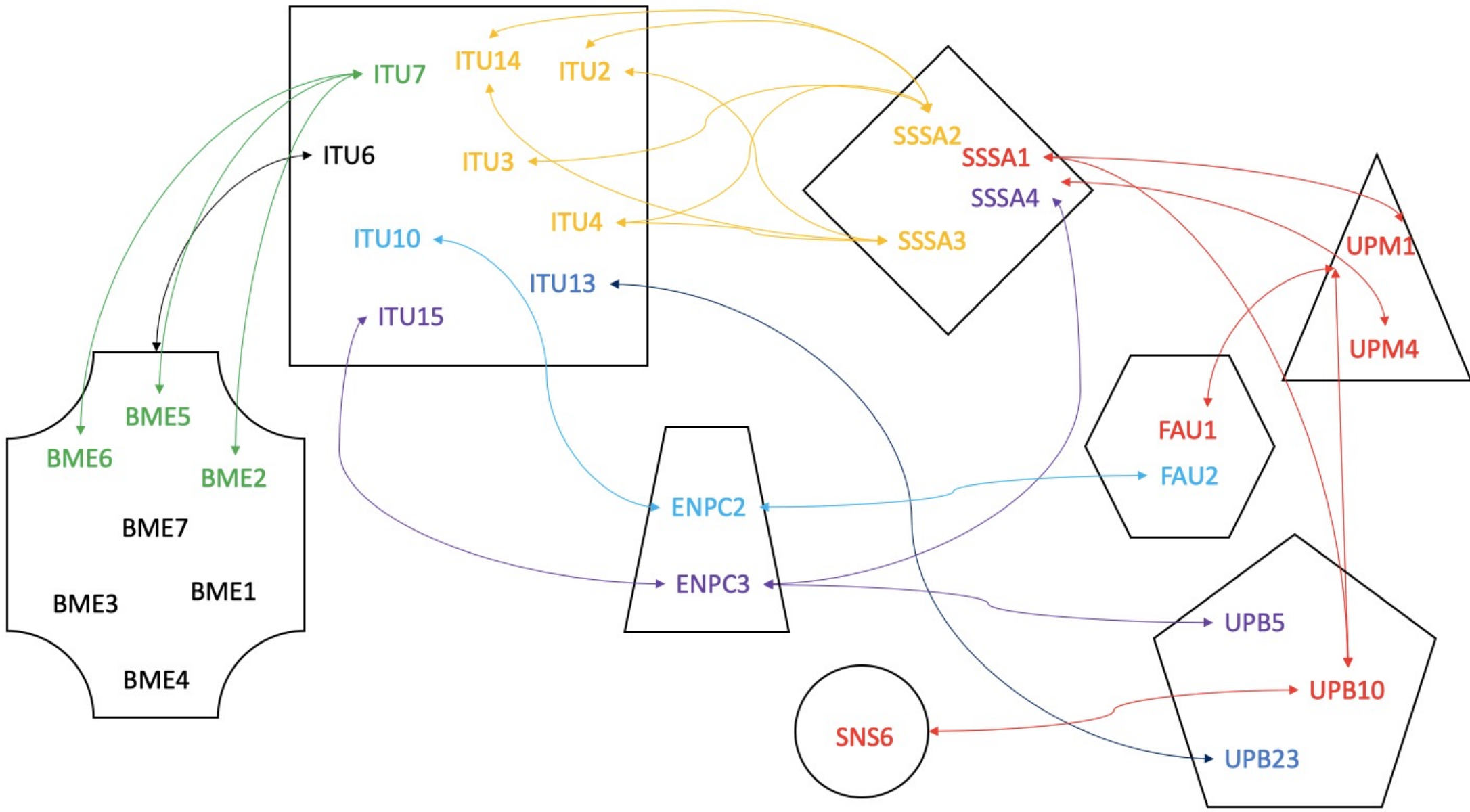
labels in the database

labels #1 Sustainable Development Goals: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17

labels #2 Strategic Research Areas : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

labels #3 ERC Panels : LS5, LS7, LS8, LS9, PE1, PE10, PE11, PE3, PE4, PE5, PE6, PE7, PE8, PE9, SH1, SH2, SH3, SH4, SH5, SH6, SH7

labels #4 ERC Keywords : LS5_7, LS7_12, LS7_14, LS7_2, LS7_9, LS8_1, LS9_1
1, LS9_5, PE10_1, PE10_12, PE10_17, PE10_3, PE10_4, PE10_6, PE10_7, PE10_9, PE11_1, PE11_14,
PE11_9, PE1_10, PE1_13, PE1_18, PE1_19, PE1_21, PE1_22, PE3_4, PE3_6, PE4_1, PE4_13, PE4_18,
PE4_2, PE4_5, PE5_1, PE5_10, PE5_6, PE5_8, PE6_10, PE6_11, PE6_12, PE6_13, PE6_14, PE6_2, PE6
_3, PE6_4, PE6_5, PE6_6, PE6_7, PE6_8, PE6_9, PE7_10, PE7_11, PE7_2, PE7_3, PE7_8, PE7_9, PE8
12, PE8_1, PE8_10, PE8_11, PE8_4, PE8_6, PE8_7, PE8_9, PE9_13, SH1_10, SH1_9, SH2_11, SH2_5,
SH3_1, SH3_11, SH3_12, SH3_13, SH3_14, SH3_2, SH3_4, SH3_6, SH3_7, SH3_9, SH4_2, SH4_5, SH4_
7, SH4_9, SH5_6, SH5_8, SH6_2, SH6_6, SH6_7, SH7_10, SH7_6, SH7_7, SH7_9, SH_9





Let us enter the platform together:

<https://eelisa.eu/>

<https://community.eelisa.eu/>

Sign in (create your account or Log in if you already have one)

For researchers → <https://community.eelisa.eu/research-network/>

[EELISA InnoCORE Networking Platform](https://eelisa.inera.it/match/list) → <https://eelisa.inera.it/match/list>



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Now it is your turn:

UPLOAD YOUR PROJECT AND ENJOY JOINT RESEARCH ACTIVITY WITHIN EELISA!

thank

you

Learn more: www.eelisa.eu



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