



UNIVERSIDADE D  
COIMBRA

# Comunidades de Ciência Aberta @UC 2024

**Perspetivas da Ciência  
Aberta em fóruns  
europeus: caso IES (UC)**



INSTITUTO  
DE INVESTIGAÇÃO  
INTERDISCIPLINAR  
UNIVERSIDADE D  
COIMBRA

## **OPEN SCIENCE** is...

*... an approach to research based on open cooperative work that emphasizes the sharing of knowledge, results and tools as early and widely as possible.*

*... mandatory under Horizon Europe, and it operates on the principle of being 'as open as possible, as closed as necessary.'*

European Research Executive Agency  
[https://rea.ec.europa.eu/open-science\\_en](https://rea.ec.europa.eu/open-science_en)

*Open Science has the potential of making the scientific process more transparent, inclusive and democratic.*

UNESCO  
<https://www.unesco.org/en/open-science>



# Comunidades de Ciência Aberta @UC 2024

*The European Commission identified open access as one of the five central themes of Responsible Research and Innovation.*

*European Commission*

*OS Thematic Group aims to explore the interactions and synergies between open science, in particular data management, and ethics.*

*EARMA Thematic Group*

*A more transparent and collaborative way of sharing knowledge, with benefits for all the stakeholders in research.*

*Head of Open Research @Taylor & Francis*

*Towards wide-scale adoption of open science practices: The role of open science communities.*

*INOSC*



18 countries



35 communities



2300+ members



by UNESCO



## European Research Area Platform

### ERA Policy Agenda 2022-2024

## ERA Action # 1

**Enable the open sharing of knowledge and the re-use of research outputs, including through the development of the European Open Science Cloud (EOSC)”**

**PRIORITY AREA: DEEPENING A TRULY FUNCTIONING INTERNAL MARKET FOR KNOWLEDGE.....4**

- 1 Enable the open sharing of knowledge and the re-use of research outputs, including through the development of the European Open Science Cloud (EOSC).....4
- 2 Propose an EU copyright and data legislative and regulatory framework fit for research ...5
- 3 Advance towards the reform the Assessment System for research, researchers and institutions to improve their quality, performance and impact.....6
- 4 Promote attractive and sustainable research careers, balanced talent circulation and international, transdisciplinary and inter-sectoral mobility across the ERA.....7
- 5 Promote gender equality and foster inclusiveness, taking note of the Ljubljana declaration...8
- 6 Deepening the ERA through protecting academic freedom in Europe .....9
- 7 Upgrade EU guidance for a better knowledge valorisation..... 10
- 8 Strengthen sustainability, accessibility and resilience of research infrastructures in the ERA..... 10
- 9 Promote a positive environment and level playing field for international cooperation based on reciprocity ..... 11

**AND DIGITAL TRANSITION, AND INCREASING SOCIETY S PARTICIPATION IN THE ERA..... 13**

- 10 Make EU R&I missions and partnerships key contributors to the ERA ..... 13
- 11 An ERA for green energy transformation..... 14
- 12 Accelerate the green/digital transition of Europe's key industrial ecosystems..... 15
- 13 Empower Higher Education Institutions to develop in line with the ERA, and in synergy with the European Education Area..... 16
- 14 Bring Science closer to Citizens..... 17

### **PRIORITY AREA: AMPLIFYING ACCESS TO RESEARCH AND INNOVATION EXCELLENCE**

#### **ACROSS THE UNION..... 18**

- 15 Build-up regional and national R&I ecosystems to improve regional/national excellence and competitiveness..... 18
- 16 Improve EU-wide access to excellence ..... 19
- 17 Enhance the strategic capacity of Europe's public research performing organisations ..... 19

### **PRIORITY AREA: ADVANCING CONCERTED RESEARCH AND INNOVATION INVESTMENTS**

#### **AND REFORMS ..... 20**

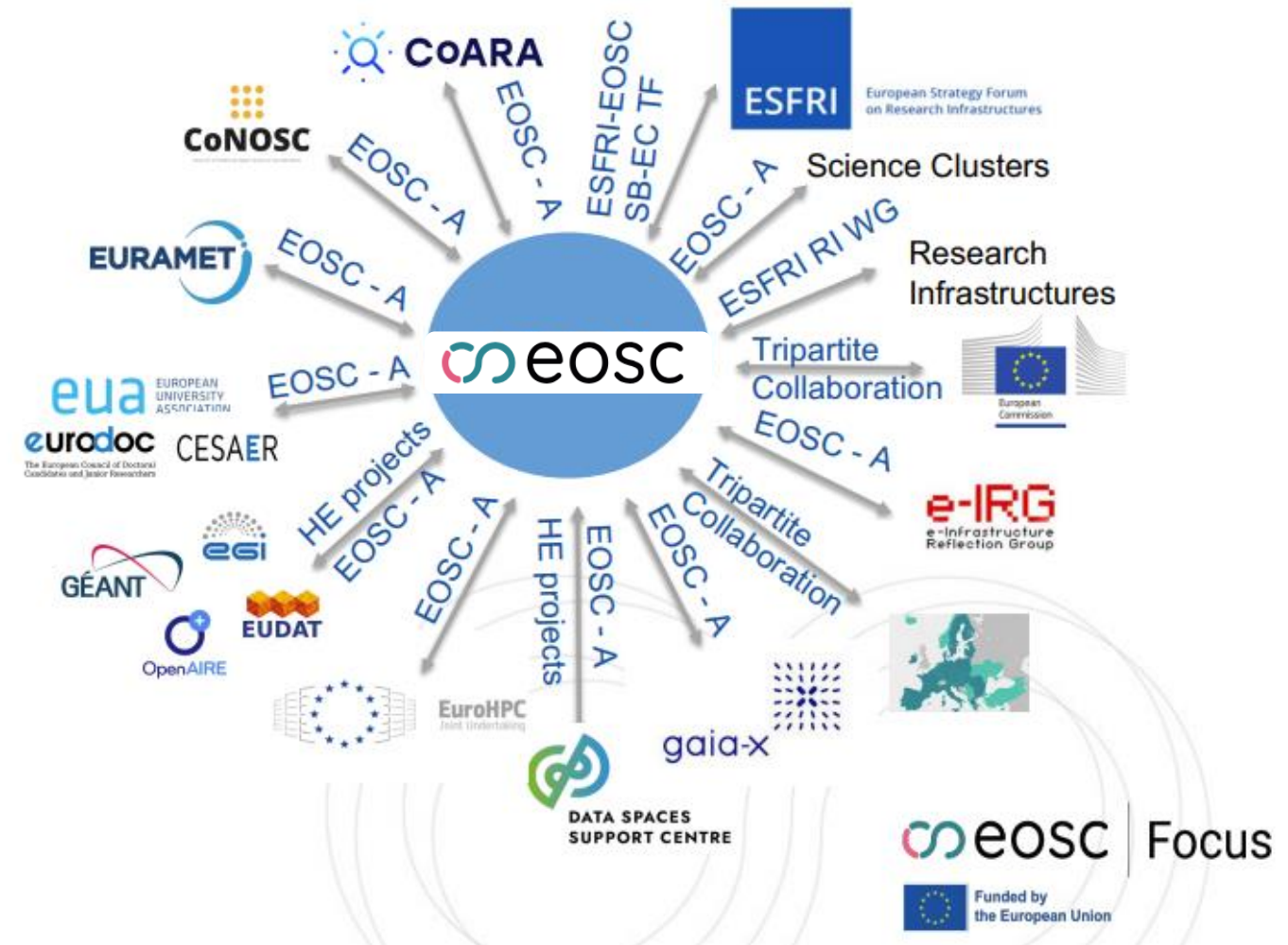
- 18 Facilitate a national process or ERA policy vehicle preparation for identification of running or planned measures contributing to the implementation of ERA..... 20
- 19 Establish an efficient and effective ERA monitoring mechanism ..... 20
- 20 Support to the prioritisation, coordination and direction of R&I investments and reforms ..... 21

European Open Science Cloud to develop a “Web of FAIR Data and Services” for science in Europe.

- Implementation Challenges
- Skills & Training
- Supporting grand societal challenges
- Engaging communities
- EOSC Core Procurement

## A federated system of systems

EOSC in the European Data Strategy landscape



## eosc EOSC vision in a nutshell

What

**EOSC is the European web of FAIR data and related services for research**

Research data that is easy to find, access, interoperate and reuse (FAIR)  
Trusted and sustainable research outputs are available within and across scientific disciplines

Why

**Unlock the full potential of research data to accelerate discoveries and innovation**

How

- Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'
- Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
- Establish a sustainable and federated infrastructure enabling open sharing of scientific results

Strategic  
Research and  
Innovation  
agenda (SRIA)  
[eosc.eu/sria-mar](https://eosc.eu/sria-mar)



## EOSC Association

Advancing Open Science in Europe

*Advancing Open Science to accelerate the creation of new knowledge, inspire education, spur innovation and promote accessibility and transparency (EOSC-A, Jul 2020; 250 Members & Observers)*



- Task forces
- General Assemblies
- Work groups (ByLaws, RoadMap, SRIA, AAPs)
- Tripartite Events
- Projects (Future, Skills4, Ice Breakers)



## EOSC Ice Breakers

Kuchma, Iryna<sup>1</sup> ; Ševkušić, Milica<sup>1</sup> ; Vipavc Brvar, Irena ; Franck, Gwen<sup>2</sup> ;  
Noro, Jorge Humberto Gomes<sup>3</sup> ; Dixon, Laura

**Open Science**

**FAIR data should become the default for EU-funded research.**

**Open Science**

**All universities should make it possible to share lab notebooks in a shared and mineable space mandatory.**

**Open Science**

**FAIR is easy to remember, but difficult to achieve.**

**Open Science**

**Research career evaluation systems should fully acknowledge Open Science activities.**

**Open Science**

**Open Science increases the quality and impact of science by fostering reproducibility and interdisciplinarity.**

**Open Science**

**All researchers should be trained to practice Open Science.**



## EOSC Ice Breakers

Kuchma, Iryna<sup>1</sup> ; Ševkušić, Milica<sup>1</sup> ; Vipavc Brvar, Irena ; Franck, Gwen<sup>2</sup> ;  
Noro, Jorge Humberto Gomes<sup>3</sup> ; Dixon, Laura

### Mythbusting

Only affiliated researchers can access data on the EOSC Portal and Marketplace.

### Answer

Everyone can access data on the EOSC Portal and Marketplace.

### EOSC

Training on EOSC should be included in study programmes at all levels.

### Ethical and legal issues

All researchers should be trained on ethical and legal issues.

### EOSC

Researchers who create software tools can benefit from making them available on the EOSC Marketplace.

### EOSC

A multilingual interface would make the EOSC Portal more user-friendly.

# Comunidades de Ciência Aberta @UC 2024



The Future is now - Agenda 2024-2028

*Agenda launched in EARMA Conf @Odense*

Community engagement  
Careers/ Professional Development  
Recognition/ Awarding

## **ERA Action#17**

*Enhancing the strategic capacity of Europe's public research performing, innovation and funding organizations.*



OI4RRA – Open Infrastructure Community  
For Reforming Research Assessment

Multilingualism & Languages Biases in  
Research Assessment

Reforming Academic Career Assessment  
Responsible Metrics & Indicators Working  
Group

## **National Chapters, Task Forces**



New initiative from EU Proj.s

*Path2Integrity & Integrity*

Partnerships/ Contributes from-to EOOSC

NERQ stands for:

- network for education in research  
quality, **integrity**, ethics, **OS** and **RRI**



Autonomy & Governance  
Digital Transition  
**Erasmus +**  
**Learning & Teaching**

Bologna Process  
**Doctoral Education**  
EU Research & Innovation Programmes  
Universities of the future

# Comunidades de Ciência Aberta @UC 2024

2002

Budapest Open Access Initiative   
[www.budapestopenaccessinitiative.org](http://www.budapestopenaccessinitiative.org)

2003

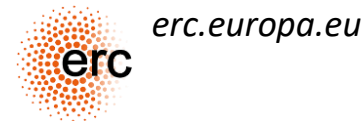
Berlin Declaration on Open Access to Knowledge on Science and Humanities  
[openaccess.mpg.de/Berlin-Declaration](http://openaccess.mpg.de/Berlin-Declaration)



**OPEN ACCESS**  
Initiatives of the Max Planck Society

2007

European Research Council (ERC) mandate open access to scientific articles from projects funded by the ERC



2018

Plan S, supported by Coalition S consortium  
*Making full and immediate Open Access a reality*



2019


Lei da Ciência (DL n.º 63)

*"As instituições de I&D devem contribuir para uma ciência aberta, de acordo com as melhores práticas internacionais, garantindo o acesso livre e aberto do público ao conhecimento científico e promovendo o envolvimento e interação com a sociedade."*

2020/21

Recomendações da UNESCO para a Ciência Aberta  
[www.unesco.org/en/open-science](http://www.unesco.org/en/open-science)

Comité de Aconselhamento Recomendações da UNESCO para a Ciência Aberta  
*Vice-Reitor da UC para a Comunicação, Cultura e Ciência Aberta, Delfim Leão*



EBSCO Open Day Lisboa

Auditório Mar da Palha - Oceanário de Lisboa (Parque das Nações)  
Esplanada D. Carlos I - 1990-005 Lisboa, Portugal

9 de maio de 2024  
Das 9h00 às 15h00

**UC OPEN SCIENCE**

Acesso Aberto

**Ciência Aberta na UC**

Políticas de Ciência Aberta

[Sobre Ciência Aberta](#) [Projetos e consórcios](#) [Links úteis](#) [Notícias](#)

The goals of the European Open Science policy (2016) under 8 axes:

1. FAIR principles
2. European Open Science Cloud (EOSC)
3. New generation of metrics
4. Free access to all scientific publications with peer reviewing
5. Inclusion of open science activities in the evaluation of research careers
6. Compliance with ethical research standards
7. Promotion of competencies for open science among researchers
8. Citizen science



*Política de Acesso Livre da UC  
23 Set 2010  
Rep. Digital Estudo Geral*



*Princípios orientadores da Política Nacional de Ciência Aberta*

# Comunidades de Ciência Aberta @UC 2024

*Fórum GDI - espaço de debate e partilha de ideias, projetos e boas práticas de Gestão de Dados de Investigação.*



FÓRUM  
GESTÃO DE DADOS  
DE INVESTIGAÇÃO

8.ª F-Coimbra, 9.ª F-Évora, 10.ª F-Setúbal  
11.ª Fórum Viseu (21/22 nov '24)

Redes – Data  
Stewardship  
International  
Network

Repositórios de  
Dados:  
Tecnologia,  
Org. & Certif.

Formação e  
competências  
para Gestão e  
Dados FAIR

Políticas,  
estratégias e  
recomendações  
GDI

*Ciência Aberta é o movimento que promove práticas de investigação mais abertas e colaborativas, nas quais publicações, dados, software, e outros tipos de produção científica, são partilhados o mais cedo possível e disponibilizados para reutilização.*



*Open Science in the service of creating new knowledge, inspiring education, spurring innovation and promoting accessibility and transparency.*



# OPERAS

open scholarly communication in the european  
research area for social sciences and humanities

Executive Assembly OPERAS

[operas-eu.org](http://operas-eu.org)

Leading Special Interest Group:  
Multilinguismo

Project Collaboration:



Discover Connect Collaborate



CO-OPERAS IN:

- implementing GO-FAIR
- bridging CSH Data to EOSC



International Networks, 3 pillars





## Objectives

- Screening existing and emerging Open Science practices
- Constructing comprehensive understanding of Open Science practices
- Creating new tools to accelerate adoption of Open Science practices
- Fostering a cultural shift towards Open Science
- Mainstreaming of Open Science practices



RI4C2

Research & Innovation  
For Cities & Citizens

**WP3**

**EC2U People  
Empowerment**

*led by the University of Coimbra*

**WP7**

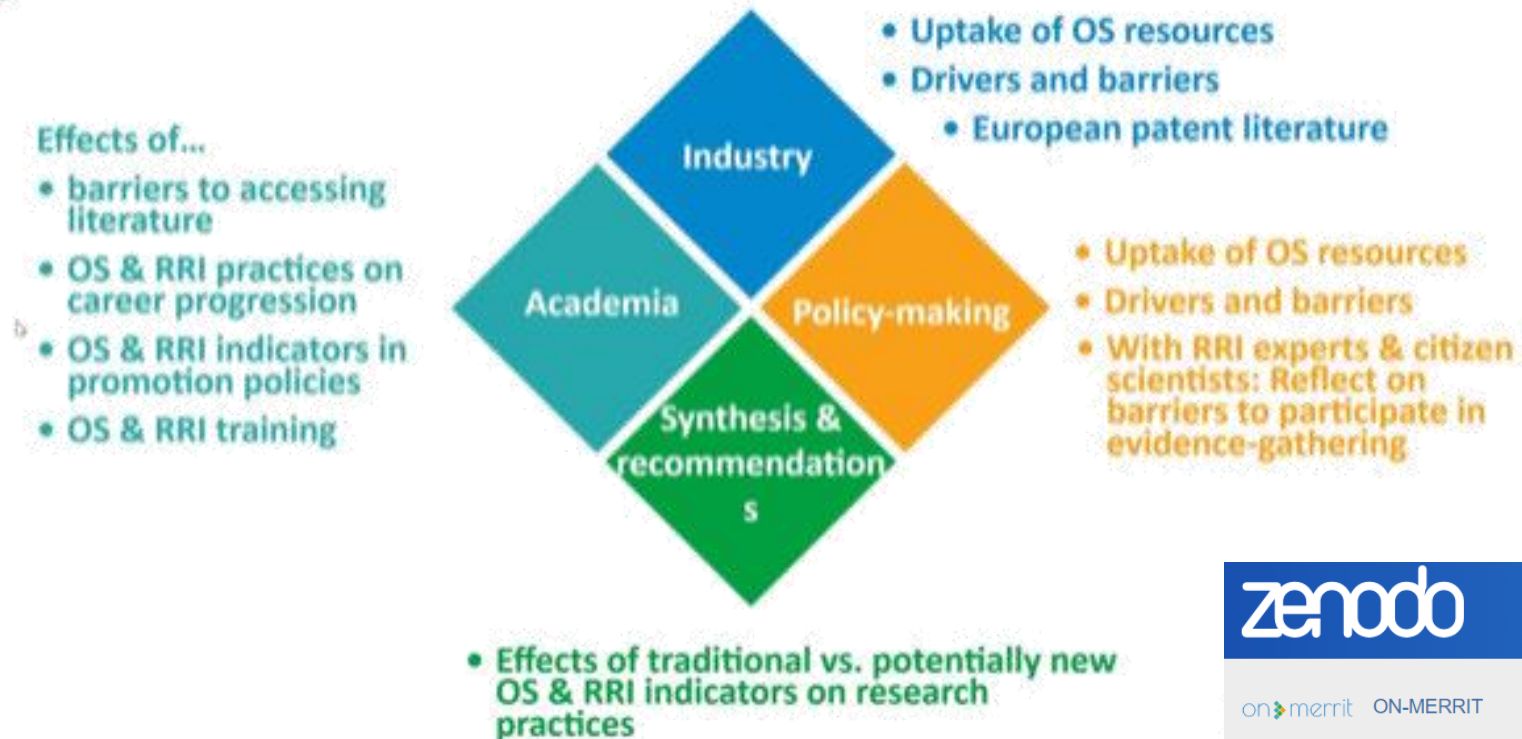
**Open EC2U**

*led by the University of Turku*

*to create a shared Pan-European Knowledge Ecosystem (PEKE)*

**Research & Innovation For Cities & Citizens – RI4C2**

## ON-MERRIT project key research questions



zenodo Search records... Communities My dashboard


onmerrit ON-MERRIT

Published March 14, 2022 | Version 1.0

Project deliverable Open

Global Thinking. ON-MERRIT recommendations for maximising equity in open and responsible research


# ROYAL SOCIETY OPEN SCIENCE

 Open Access

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Research articles

## Toward equitable open research: stakeholder co-created recommendations for research institutions, funders and researchers

Nicki Lisa Cole , Stefan Reichmann and Tony Ross-Hellauer

Published: 01 February 2023 | <https://doi.org/10.1098/rsos.221460>

We especially thank Juan Alperin, Neil Jacobs, Valerie McCutcheon and Jorge Noro for very constructive comments and suggestions on advanced drafts of our Recommendations Briefing.

	Education, Belgium
McCutcheon, Valerie	University of Glasgow, Scotland
Mendes Moreira, João	Foundation for Science & Technology, Portugal
Meyer, Dagmar	European Research Council Executive Agency, Belgium
Noro, Jorge	University of Coimbra, Portugal
Osano, Philip	Stockholm Environment Institute, Africa Centre, Kenya

# nature medicine

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Correspondence | Published: 21 March 2024

## Understanding the provenance and quality of methods is essential for responsible reuse of FAIR data

[Tracey L. Weissgerber](#) , [Małgorzata Anna Gazda](#), [Gustav Nilsson](#), [Gerben ter Riet](#), [Kelly D. Cobey](#), [Julia Prieß-Buchheit](#), [Jorge Noro](#), [Robert Schulz](#), [Joeri K. Tjeldink](#), [Evgeny Bobrov](#), [Alexandra Bannach-Brown](#), [Delwen L. Franzen](#), [Ugo Moschini](#), [Florian Naudet](#), [Ulrich Mansmann](#), [Maia Salholz-Hillel](#), [Anita Bandrowski](#) & [Malcolm R. Macleod](#)

# Comunidades de Ciência Aberta @UC 2024

Resumo de alguns Resultados/ Ações @UC:

- **Papeis de liderança e coordenação** nas áreas CSH (OPERAS, Triple, Craft-via IUC)
- Papeis de decisão em **fóruns europeus** (EOSC, CoARA, Coimbra Group, EUA, EARMA, EC2U/RI4C2)
- Iniciativa UC para **implementação de OSC** – Coimbra (INOSC)
- Cooordenação da Iniciativa a implementação de **Data Stewardship Network** (Nat./ Int.)
- **Tese PhD**, FLUC: “Gestão de dados de investigação: articulações e práticas para a partilha dos dados na universidade”
- Artigos publicados **em revistas internacionais** de relevo (Royal Society Open Science, Nature Med)
- **Apresentações** e participação em **painéis estratégicos** no Fórum GDI (rede nacional) – 8.º Forum organizado pela UC.
- Alinhamento e contributo à estratégia de UC Reitoria (pelouros Ciência Aberta e Investigação)
- Participação nas edições CCA – **Comunidades de Ciência Aberta**, na UC (1.ª Ed. Rómulo)
- Sessões dedicadas iniciativa “**Formações iiiUC**”, e outras formações e ações pelas UI&Ds (ex.: ICNAS, CISUC, CFE, CIAS, CECH)

Participação UC no 10.º Fórum GDI  
*Setúbal (2023)*



## Outros exemplos de Apresentações/ Ações (UC)

Multidisciplinary Doctoral Schools as Clusters of PhD programs outside the walls of Faculties, EUA 2022

HORIZON-INFRA-2023-EOSC-01 – Candidatura UnLockSafe - Standard Operating Procedures for Sensitive Data Managing in EOSC

Quadro de Competências para a Gestão de Dados de Investigação e Dados FAIR, F-GDI 2023

Criar uma Comunidade de Ciência Aberta: passos e desafios na Universidade de Coimbra, F-GDI 2023

All aboard to reach public engagement at University of Coimbra, EARMA 2023

Política de Gestão de Dados de Investigação na Universidade de Coimbra - o papel do data stewardship e o plano de implementação, F-GDI 2022

Train-the-Trainer: An active learning course on understanding & using EOSC, EOSC 2022

Desenvolvimento de redes nacionais de Data Stewards na Europa: casos de estudo e discussão de um roteiro para Portugal, F-GDI 2023

...

...

*Open Science increases the quality and impact of science by fostering reproducibility and interdisciplinarity.*

*It makes science more efficient through better sharing of resources, more reliable through better verification and more responsive to society's needs.*

*European Comission*





Thank you!

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