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EOSC Contributions to Research Assessment

21 September 2023

Madrid, Spain

#EOSCsymposium23

 eosoc

 EOSC Future

 EU23
SPANISH PRESIDENCY
COUNCIL OF THE EUROPEAN UNION



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EOSC contributions to Research Assessment Agenda

Introductory talks

- **EC/ERA Action 3 on research assessment** - Michael Arentoft, Head of Unit, Open Science, DG R&I, European Commission
- **CoARA commitments for research assessment** - Lidia Borrell-Damián, Secretary General Science Europe
- **Research Assessment at the EOSC Association** - Gareth O'Neill, Principal Consultant Open Science at Technopolis Consulting Group Belgium

EOSC contributions to Research Assessment Agenda

Panel discussion, Moderator: **Marialuisa Lavitrano**, University Milano Bicocca

Panelists:

- **Michael Arentoft**, Head of Unit, Open Science, DG R&I, European Commission.
- **Lidia Borrell-Damián**, Secretary General Science Europe.
- **Antonino Rotolo**, Professor at the University Alma Mater Bologna
- **Gareth O'Neill**, Principal Consultant Open Science at Technopolis Consulting Group Belgium
- **Giulia Malaguarnera**, Outreach and Engagement Officer of OpenAIRE

Open discussion with the audience

EOSC contributions to Research Assessment

EOSC can make significant contributions to research assessment in several ways, for instance in the fields of Data Accessibility, Collaborative Research, Enhanced Metrics, Long-Term Preservation and Integration with Existing Assessment Systems.

This session looks to explore how EOSC's contributions can influence and shape research assessment practices by emphasizing openness, collaboration, and the integration of diverse research outputs, and how EOSC can contribute to the development and implementation of Open Science indicators that can be used in research assessment.



ERA Action 3

Reforming Research Assessment

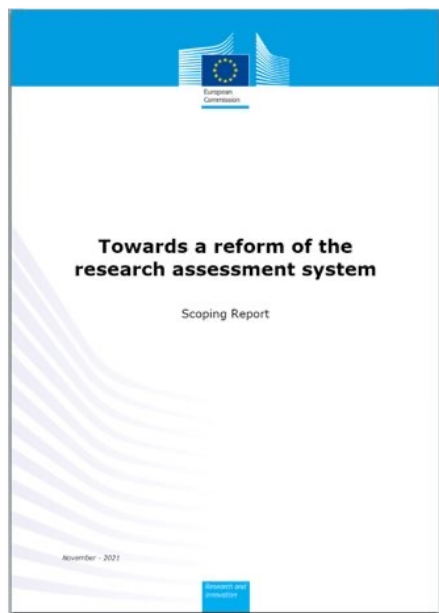
Michael Arentoft
European Commission

21 September 2023 | EOSC Symposium 2023/2023



ERA Action on reforming research assessment

[Commission Scoping Report](#) November 2021



[Agreement on Reforming Research Assessment](#)
20 July 2022



617 signatories
(13 Sep 2023)



[Coalition Constitutive Assembly](#)
1 December 2022



535 members of CoARA
(13 Sep 2023)



[Ongoing](#)

- Signatories **reviewing and/or developing criteria, tools and processes** in line with the Agreement principles and commitments
- First round of **CoARA Working Groups** to start operations

Common vision

Assessment of research, researchers, and research organisations, **recognises the diverse outputs, practices and activities** that maximise the quality of research and resulting impacts.

This requires basing assessments primarily on **qualitative judgement**, supported by **responsible use of quantitative indicators**.

Signatories agree to:

- ✓ Base actions on **10 Principles**
- ✓ Implement **10 Commitments** for change
- ✓ Follow a common **timeframe** for implementation
- ✓ Organise and operate the **Coalition** as a space for **mutual learning and collaboration** that supports and facilitates the implementation of the Commitments by the members, while respecting their autonomy

Requires bottom-up & top-down action



Stakeholder-driven coalition

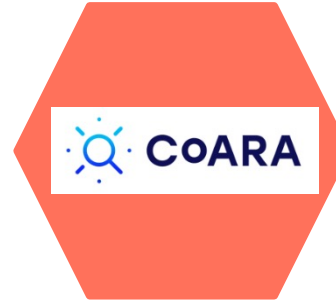
- Members committed to pilot and implement changes in their research assessment criteria and processes
- Active mutual learning and sharing of experiences

National authorities

- Support to organisations willing to implement changes (importance of national framework conditions)
- Help preventing contradictions across different assessment systems and types (metrics trickle down)

EC support to reforming research assessment

Liaison with MS/AC
Facilitate the setting up
of national/regional
framework conditions



- Active CoARA member (as research funder)
- CoARA Steering Board observer
- Financial (Horizon Europe) and in-kind support to CoARA operations

- Evolution of assessment practices for EC funding on R&I
- Synergies with other EU policy initiatives (University Alliances, EOSC, ORE ... others)



- Foster global alignment and cooperation

ERA Action 3 - Deliverables



Agreement on Reforming Research Assessment and Coalition for Advancing Research Assessment (**completed**)



Implementation/work plan of Coalition including sharing and mutual learning from pilots by Coalition members (**ongoing**)



Analysis of barriers to reform & support to conducive national framework conditions (**ongoing**)

EOSC & Reforming research assessment

RRA Principle 4: Ensure independence and transparency of the data, infrastructure and criteria necessary for research assessment and for determining research impacts; in particular by clear and transparent data collection, algorithms and indicators, by ensuring control and ownership by the research community over critical infrastructures and tools, and by allowing those assessed to have access to the data, analyses and criteria used

RRA Commitment 10: Evaluate practices, criteria and tools based on solid evidence and the state-of-the-art in research on research, and make data openly available for evidence gathering and research. This commitment will ensure that assessment approach decisions are evidence informed. It will help organisations reflect on their own processes, gain understanding about whether assessment practices achieve the desired goals, and engage in evolutive assessment based on new evidence as it becomes available. It will also help to ensure control and ownership of research assessment data by the research community.

CC of June 2022, point 14: INVITES the Member States, the Commission and stakeholders to promote independence, openness, reproducibility and transparency of the data and criteria necessary for research assessment and for determining research impacts; CONSIDERS that data and bibliographic databases used for research assessment should, in principle, be openly accessible and that tools and technical systems should enable transparency

- EOSC can allow the gathering and monitoring of information and data on the use and uptake of research outputs and of open science practices across borders and disciplines.
- At the same time, reforming research assessment would promote the uptake of EOSC by the research community at large.
- GRASP-OS project.

Thank you



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EOSC Contributions to Research Assessment

**Lidia Borrell-Damián,
Secretary General Science Europe
Thursday, 21 September 2023, 12:00-13:00**

Science Europe's focus on Research Culture & Values

A Values Framework for the Organisation of Research (2022)



Ensuring that the Values that are at the heart of our research systems are reflected in policies and practices.

Research culture brings together research assessment reform and open science and mutually enables positive change...

Open Science & Research Assessment Reform



Core commitments include:

Recognise the diversity of contributions to research...

Base research primarily on qualitative evaluation...

<https://coara.eu>



INITIATIVES MUTUALLY
ENABLE ONE-ANOTHER FOR
A MORE POSITIVE
RESEARCH CULTURE THAT
PROMOTES **RESEARCH
QUALITY.**



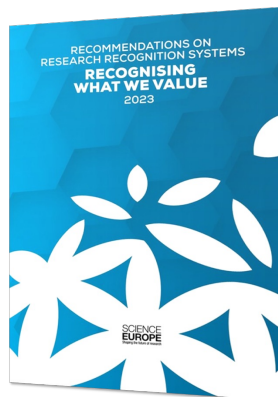
Task Force on Research
Careers, Recognition, and
Credit

Open science criteria as
part of career assessments



Assessment criteria for funding
and career progression based on
values, e.g.:

“Openness and Transparency”
“Integrity and ethics”.



FAIR research data management: Science Europe Guidelines

- Sharing and re-use of research data are essential to verify research findings and foster new research
- Research data should be findable, accessible, interoperable, and re-usable (FAIR).
- Science Europe promotes data sharing by:



Weblinks embedded!

Promoting the alignment of research data management policies and practices across research stakeholders in Europe

Supporting researchers with clear guidance on how to plan the management of their data from the very beginning and throughout the research process

Providing guidance to reviewers of data management plans and institutional data stewards

- **SE RDM Guide** recommended in the Framework Programme

Adaptability of the SE practical guidance

- The different elements of the guide provide the basis for aligned RDM policies and practices,
- while leaving flexibility for organisations to accommodate legislative frameworks, institutional circumstances, or disciplinary requirements.
- The different elements of this guide can and should be adapted accordingly.
- These changes should be referred to in the institutional policies, in the guidance for researchers and in the guidance for DMP reviewers.
- To allow for easy adaption of the Guide to institutional or disciplinary requirements, all elements of the Guide are available as adaptable word templates at [scieur.org/rdm](https://www.scienceeurope.org/our-resources/practical-guide-to-the-international-alignment-of-research-data-management).

- **Core requirements for data management plans:** six aspects that every DMP should cover, with detailed guiding questions.
- **Criteria for the selection of trustworthy repositories:** four topics detailing criteria that every trusted repository should meet.
- **Guidance for researchers:** more detailed information and examples to support researchers in complying with organisational requirements.
- **Guidance for reviewers:** guidance to support the evaluation of DMPs by reviewers, aligned with the DMP core requirements presented in previous parts.



Thank you!

Lidia.borrell-damian@scienceeurope.org



EOSC Contributions to Research Assessment

Gareth O'Neill (Technopolis Group)

21 September 2023 in Madrid #EOSCSymposium2023

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Research Assessment at EOSC Association



Task Force on
Research Careers,
Recognition, and Credit



- One of 13 task forces at EOSC Association developing policies and practices for EOSC
- Addresses incentives and rewards for researchers to manage and share their (digital) research activities, processes, and outputs
- Consists of around 30 participants from members and observers of EOSC Association
- Developing a position paper on EOSC as an enabler of research assessment and reforming assessment to support researchers with EOSC

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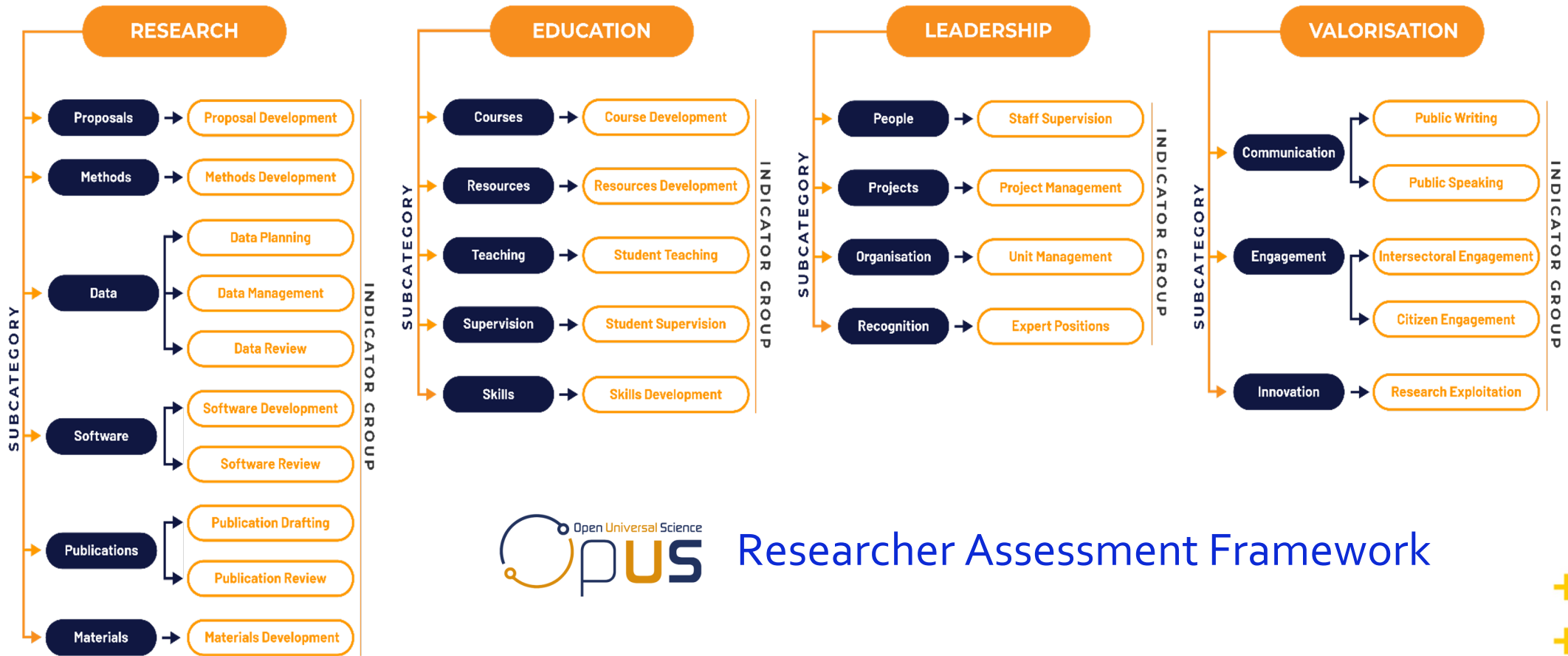
Research Assessment in the OPUS Project



- Widening ERA project to incentivise and reward researchers via assessment to do Open Science
- Developing a comprehensive framework which:
 - focuses on assessing individual researchers
 - consists of indicators/metrics for RPOs/RFOs
 - applies to countries/disciplines/organisations
 - combines quantitative/qualitative approach
 - covers full spectrum of researcher activities
 - includes both open and non-open activities
 - allows flexibility to implement at RPOs/RFOs
 - supported by interventions for RPOs/RFOs

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Research Assessment in the OPUS Project



Researcher Assessment Framework

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Next Generation Metrics to include Open Science

Giulia Malaguarnera
OpenAIRE

graspos



The Infrastructure

Open Science has many flavours & parameters

Metadata is missing or is not good

Fragmented metrics data for openness & usage. Owned by commercial providers.

Novel indicators are not just not just about numbers. Composite indicators based on AI

GraspOS at a glance

Develops, assesses and puts into operation an **open and trusted federated infrastructure for next generation research metrics and indicators**.

A Research Metrics Dataspace: Offers **data, tools, services** and **guidance** to support and enable policy reforms for research assessment.

At three levels

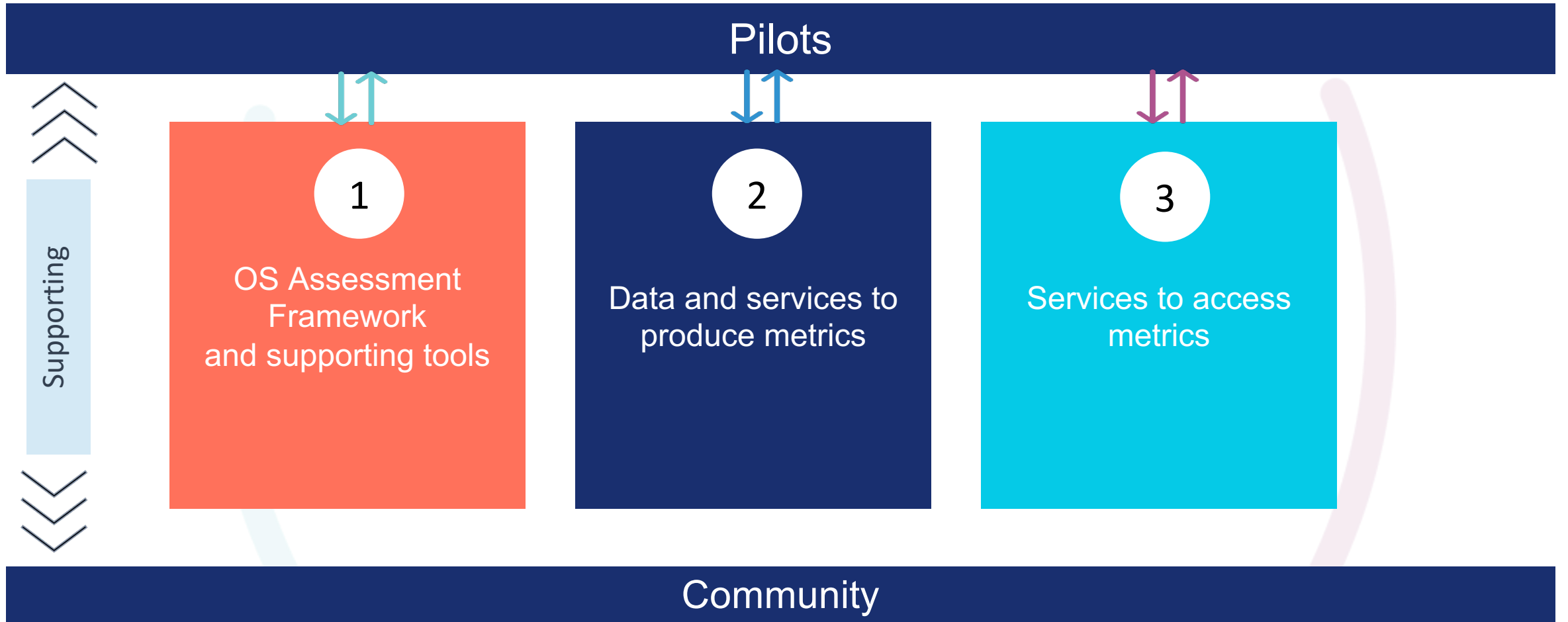
- individual/group researchers
- research and funding performing organisation
- country

Budget: 2.985M

Start date: 1/1/2023

Duration: 36M

3 pillars of actions



Let's make it happen! Together.

THANK YOU





Stay tuned

symposium23.eoscfuture.eu