

# Towards Open Science: Challenges and Way Forward for European universities

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#OpenScience
#OpenAccess
#ResearchAssessment



**KRE Conference 7 November 2019, Prague** 



# EUA: An Introduction

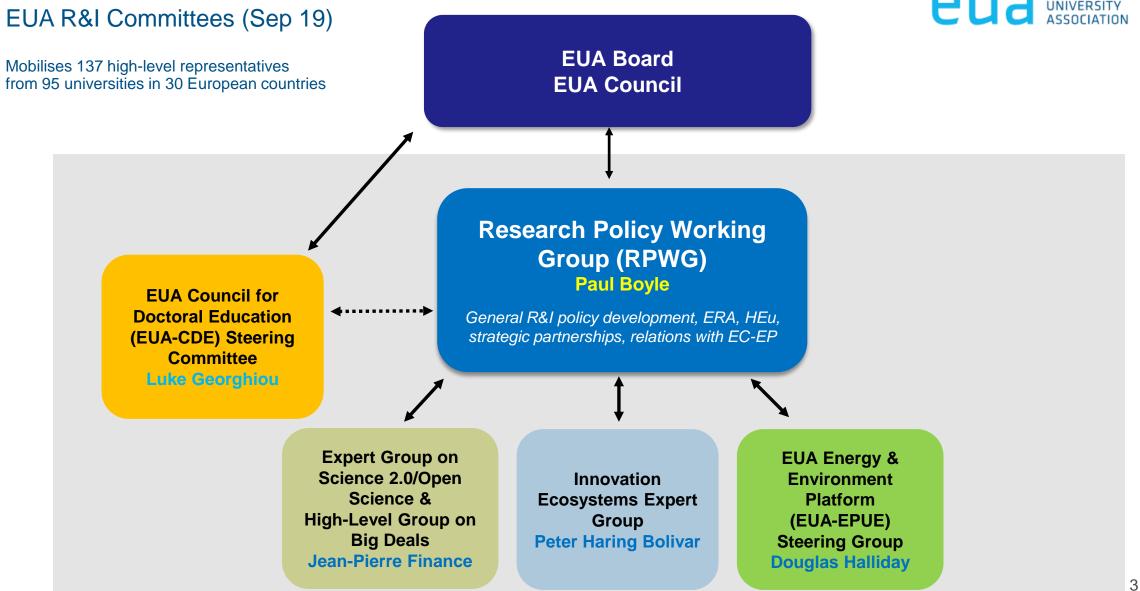
 Represents universities and national rectors' conferences in 48 European countries.

- **Guarantees** the hearing of the European Universities' independent voice and the decisions that will impact their activities positively.
- **Provides** a unique expertise in higher education and research; it is also a forum for exchange of ideas and good practices among universities.

More information:

https://eua.eu







# Open Science: Aims, Expectations and Hurdles



Why are there so many difficulties?

### Concentration of the publishing market, oligopolies and financial power:

Search for profit maximization → Control of prestigious reviews and large publication databases + management of the reviewing process + Sales of value-added services

Lack of transparency

### **Evaluation methods essentially based on bibliometrics (impact factor):**

→ researchers' appetence for prestigious journals reinforces the major publishers

#### **Regulatory limitations:**

Assignment of copyright and long embargo period hinders open archiving, uncertainty among researchers

Limitation of the TDM

#### Very large heterogeneity of the research population by field:

difficult to find a consensual publication model
Research data area is still in its infancy and very complex



### Transitioning to Open Science



#### **Open Science**

Compared to the "closed" nature of the current research system, **Open Science** aims to extend "the principles of openness to the whole research cycle, fostering sharing and collaboration as early as possible thus entailing a systemic change to the way science and research is done."

Transitioning to Open Science is a **shared responsibility** and requires a **concerted approach** uniting the main actors.

Definition:

**FOSTER** portal



# EUA priorities The need to address several dimensions simultaneously

- **Promote** institutional and European **Open Access policies** for research publications and data
- Achieve more **transparency** and greater sustainability in the **scholarly publishing system**: Monitore Institutional policies on OA, Big Deals agreements, Read & Publish Agreements
- Contribute to the development and implementation of Open Science infrastructures, e.g. EOSC, FAIR data
- Raise awareness and support universities in reviewing their approaches to research assessment



#### **EUA** priorities

#### Promotion of OA

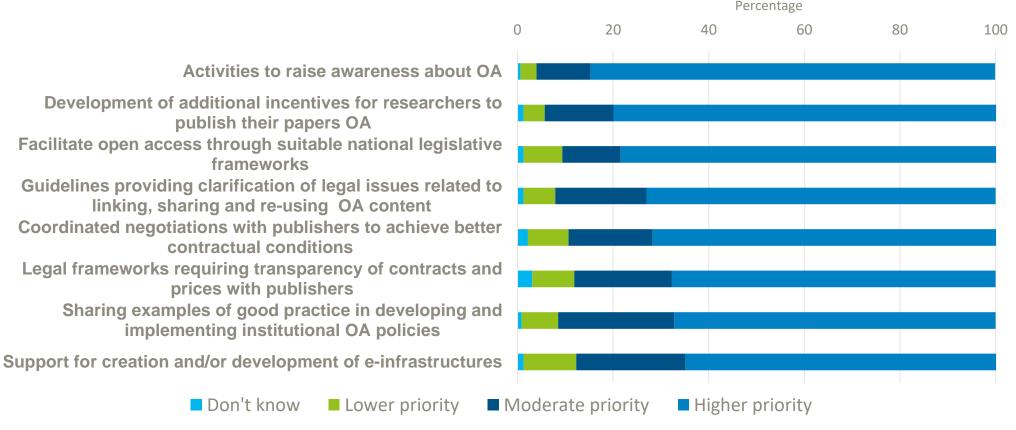
- Monitor OA's state of development in European universities
- → 3 EUA Surveys on Open Access (2015-2016, 2016-2017, 2017-2018) including:
  - Open Access for research publications (policies, instutional repositories, ...);
  - Open Access for research data (policies and practices, Research Data Management);
  - > 527 respondants having sent a response at least once.

#### Institutional Open Access policies (2018)

european university association

Source: 2017-2018 EUA Open Access Survey Results

#### **Priorities in OA to publications**

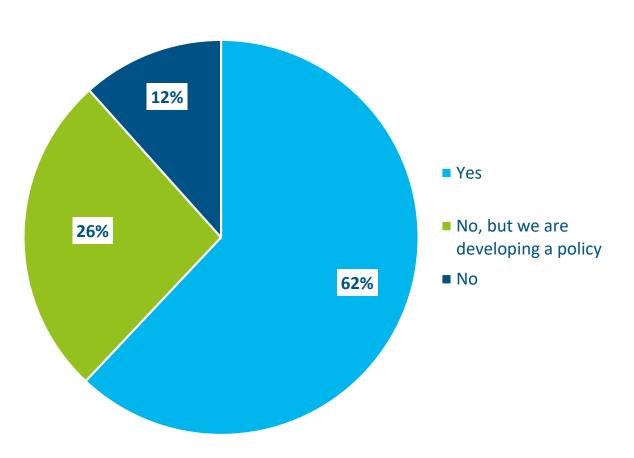


#### Institutional Open Access policies (2018)

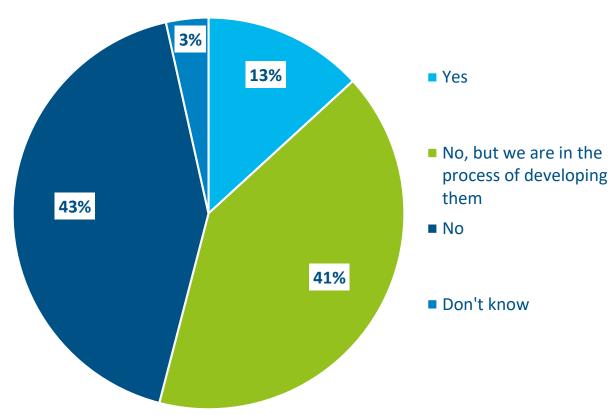
european university association

Source: 2017-2018 EUA Open Access Survey Results

#### **OA** policy to research publications



#### **OA** policy to research data





# EUA priorities Transparency

- Achieve more transparency and greater sustainability in the scholarly publishing system:
  - 2 EUA's Surveys on Big Deals (2018, 2019)

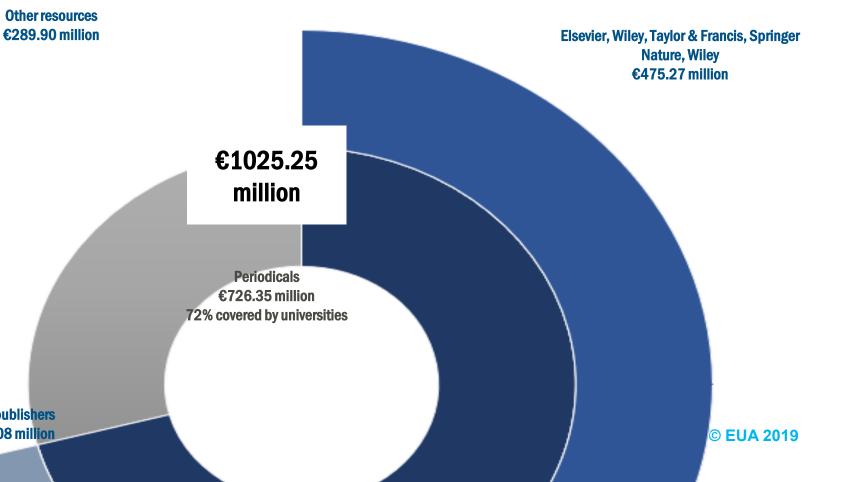
#### Transparent and sustainable scholarly publishing system? (2019)

Other publishers €251.08 million





- Data for 31 consortia in 30 countries
- Numbers not including: Article Processing Charges (APCs), consortia other than those participating in the survey and individual institutional contracts with publishers





# **EUA priorities**Transparency

- Achieve more transparency and greater sustainability in the scholarly publishing system:
  - Need to understand new negotiation models

Read & Publish Agreements: A survey has been launched on the future of the negotiation models with the support of 24 organisations representing national rectors 'conferences, national negotiating consortia and libraries.

- Need to be able to compare the cost of subscriptions (mainly Big Deals) and the cost of APC

New EUA 'release:



# Open Science infrastructures

### **EUA Signatory to the EOSC Declaration EUA Involved in OSPP**

- Open Science skills
- Data culture
- Promotion of the FAIR principles (Findable, Accessible, Interoperable, Reusable)
- Open Access and open standards
- Governance

#### **EUA** partners with the FAIRsFAIR project (2019-22)

- Foster FAIR data practices in Europe
- Focus on FAIR competences and policies

#### Source:

- EOSC Declaration
- FAIRsFAIR project



# Reviewing research assessment



# Research assessment

The European research and innovation landscape is increasingly making research publications and data openly available, creating a need to **review** university approaches to research assessment:

On the one hand, digitisation reinforces the use of quantitative criteria, and unfortunately of criteria that are too often biased, such as the journal impact factor.

On the other hand, appropriate incentives and rewards will ensure that researchers participate in the process of free access to research.



#### **EUA** events and activities

#### More information:

- EUA Roadmap (June 2018)
- EUA Briefing (April 2019)
- EUA Workshop (May 2019)
- Joint statement with Science Europe (May 2019)
- EUA survey report (October 2019)
- Conference with VSNU (November 2019)



- Roadmap (June 2018)
- Briefing on key concepts, issues and actors (April 2019)
- Survey report (October 2019)
  - Workshop (May 2019, Brussels)
  - Joint statement with Science Europe (May 2019)
  - Conference with VSNU (November 2019)

Develop policy and good practice recommendations



#### 2019 Open Science and Access Survey

Provides a comprehensive and up-to-date overview of the current state of research assessment in European universities,

Looks at why and how institutions are reviewing their evaluation practices.

Informs and strengthens the discussion on these issues.

#### **Participation**

- **260** valid institutional responses
- 32 European countries

#### Source:

2019 EUA Open Science and Access Survey Report





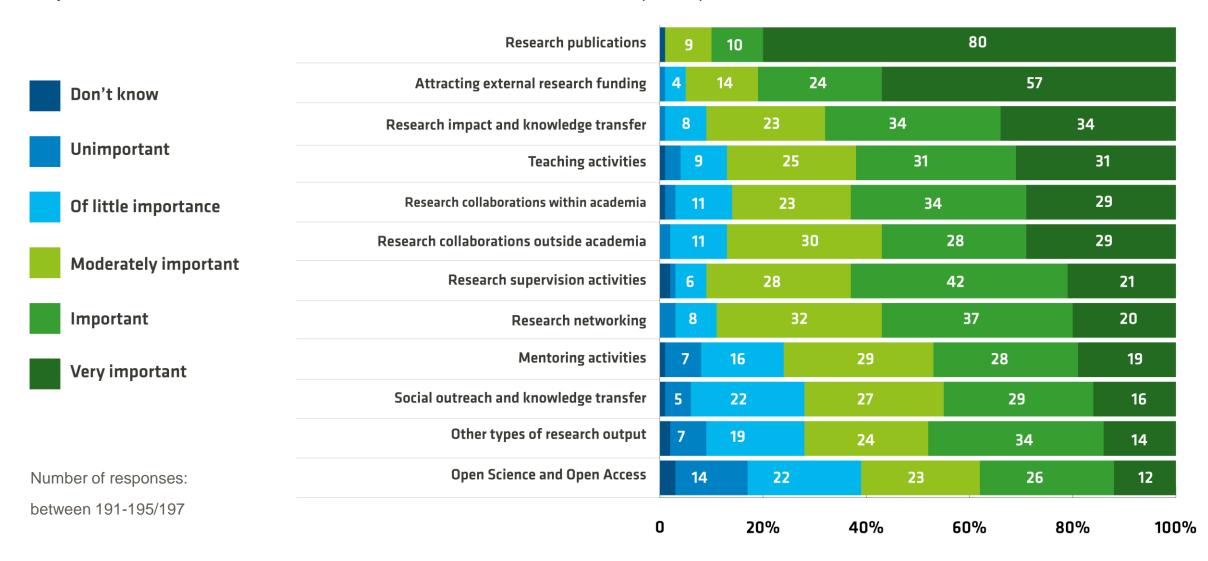
	Careers in research (in %)	Performance of research units (in %)	Internal research funding allocation (in %)
Highly autonomous	38	44	55
Mostly autonomous	41	39	35
Some autonomy	17	14	9
Low autonomy	4	3	1

Number of respondents:

197/197 (careers), 183/183 (research units) and 177/177 (funding allocation)

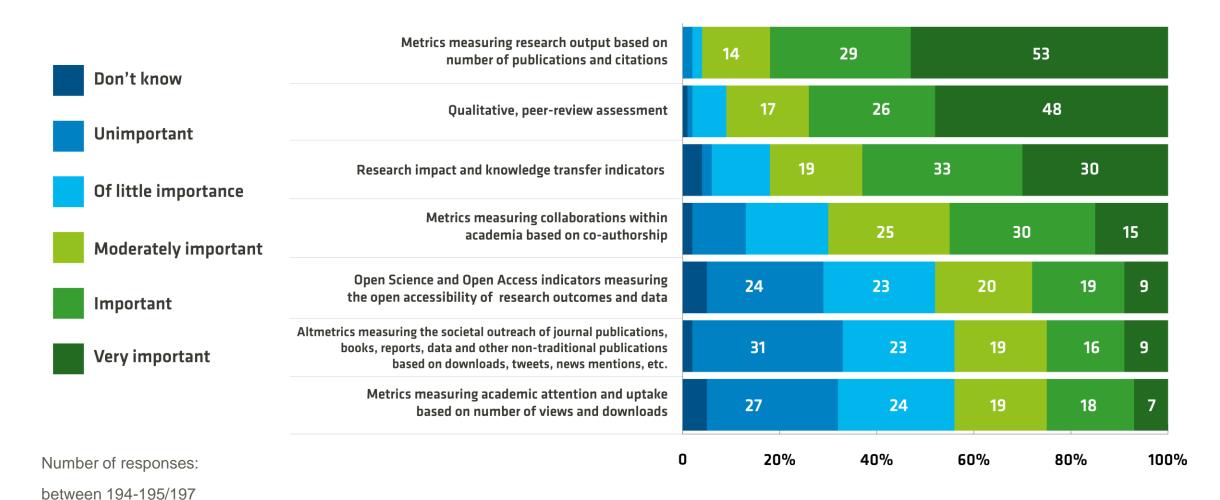
#### Importance of academic activities for careers in research (2019)





#### Evaluation of academic activities for careers in research (2019)

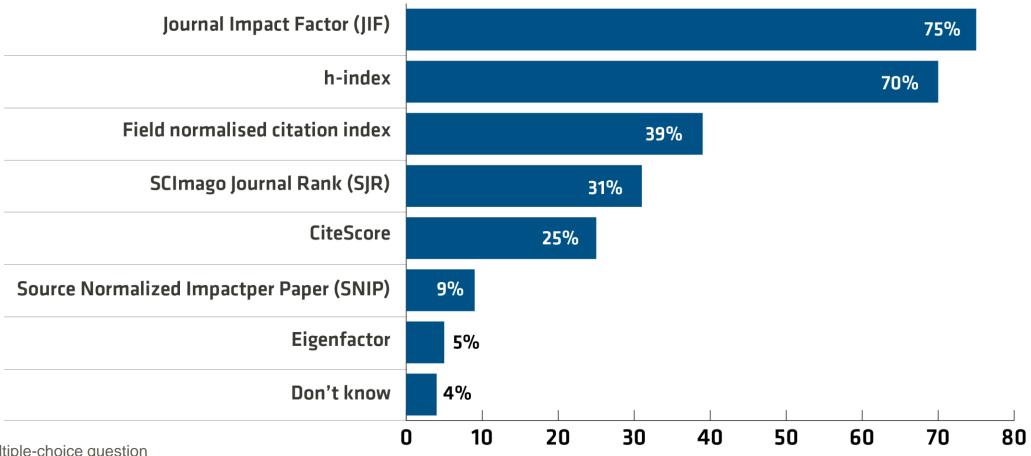




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#### Publication metrics used for careers in research (2019)





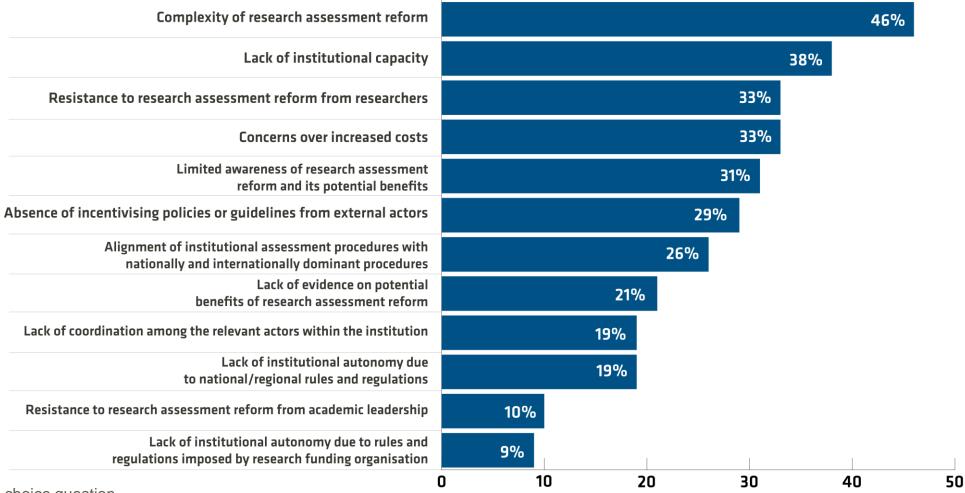
Multiple-choice question

Number of responses:

185/186

#### Main barriers and difficulties to review approaches to research assessment (2019)





Multiple-choice question

Number of responses:



# Key survey findings and recommendations

#### Need to broaden the range of academic activities that are incentivised and rewarded;

#### Widen the set of evaluation practices

- University approaches to research assessment focus on publishing research and attracting external funding
- Universities rely on a limited set of evaluation practices which are mostly geared towards assessing research publications, e.g. Journal Impact Factor
- Other evaluation practices are less widespread and less developed, e.g. Open Science and Access indicators

#### Reviewing research assessment is a shared responsibility and requires a concerted approach uniting the main actors

- Universities consider themselves largely autonomous to develop and implement approaches to research assessment
- Universities are keenly aware of external influences shaping their approaches to research assessment, e.g. governments, research funding organisations, competitive environment



### Thank you for your attention!

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#### Break the cost vicious cycle



