

## How FAIR does national European research data policy need to be?

Open Science strategic approaches and the importance of open research data



6 October 2020, Webinar

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## A range of national policies >14





## OS policy framework and alignment

- \* International
- \* National
- \* Research funder
- \* Institution
- \* Other stakeholders



## SPARC Europe study into funder policies, rewards and incentives

- \* Science Europe, EFC, ALLEA
- \* Report 30 Sept 2019
- https://zenodo.org/record/3401278

\* A snapshot in time

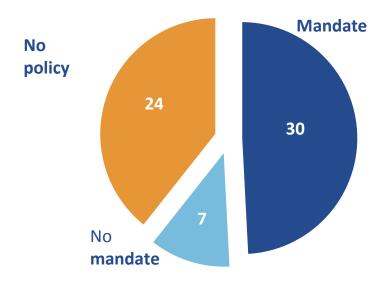




## OA policy development status

37 with an **OA** policy:
 30 mandates

24 no OA policy;
 50% of those developing one

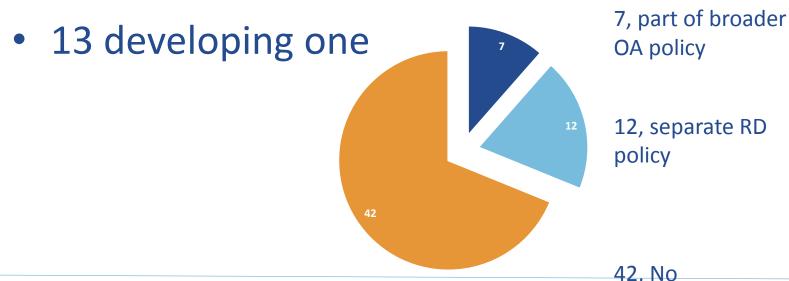




### OS policy development status

19 with an OS policy:12 a separate RD policy

42 no research data policy





- \* National updates
- \* An overview of Covid-19 policies
- **X** EOSC policy activity

https://doi.org/ 10.5281/ zenodo.4005612







## European national policy analysis

- \* EC Project: <a href="https://fairsfair.eu">https://fairsfair.eu</a>
  - Fostering FAIR Data Practices in Europe
- **\*** 1 Mar 2019
- \* 36 months
- ★ 22 partners



National policy landscape analysis





## policy deliverables

★ D3.1 FAIR Policy landscape analysis

https://zenodo.org/record/3558173

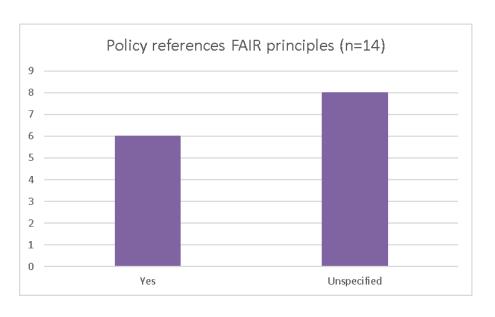
Over 20 RD policy characteristics analysed

D3.3 PolicyEnhancementRecommendationshttps://zenodo.org/record/3686901





#### References to FAIR



refer to FAIR specifically to better promote a culture of FAIR practice

E.g. Netherlands,Finland, France,Ireland, Spain, UK



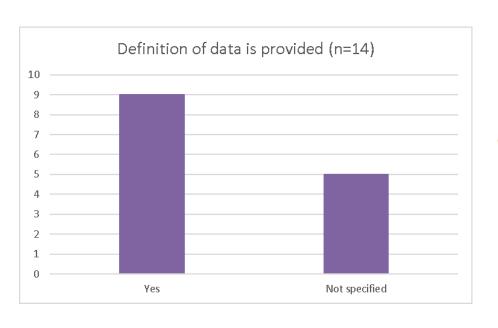
#### FAIRSFAIR Rec on FAIR

Note: emphasis added

2. Cooperate with relevant initiatives to support funding bodies to characterise and, where needed, enhance policies to align with FAIR principles - either explicitly or implicitly.



#### The definition of data



- What outputs are covered by the term?
- What data specifically do you expect researchers to make available?



#### The definition of data

#### **\*** France:

"Research data: Factual records (figures, texts, images, sounds, videos, etc.) used as primary sources for research and which are generally accepted by the scientific community as being necessary to validate research results."

French *National Plan for Open Science*, 2018, https://www.ouvrirlascience.fr/national-plan-for-open-science-4th-july-2018/



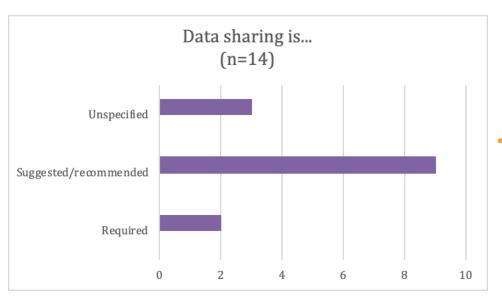
#### FAIRSFAIR Rec on definitions

Note: emphasis added

6. Working with research communities to define data outputs, policymakers should adopt standard descriptions to ensure that definitions provide clarity on the range of outputs that should be considered and what might be considered "FAIR enough"



#### A mandate to share data

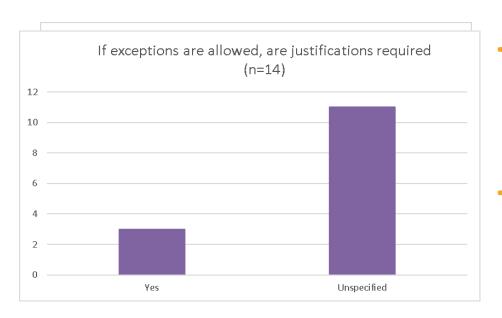


Majority recommend rather than require

Those who require it are Norway and Slovenia, with F plan to introduce a mandate



#### Exceptions to data provision



- \* As open as possible but as closed as necessary ...
  - national security, or where there are issues relating to confidentiality, privacy, intellectual property rights, and trade secrets.



#### Exceptions to data provision

Note: emphasis added

The UK's Concordat on Open Research Data includes an extensive section on exceptions to data sharing

"constraints on openness must not be applied on a blanket basis but should be justified and justifiable case by case. Research organisations or individual researchers withholding data must therefore consider carefully the grounds on which they are acting and be prepared to justify their actions."

UK: Concordat on Open Research Data, p. 9, 10



# Data sharing and exceptions to data provision

Note: emphasis added

Slovenia: data sharing exceptions succinct, and state that if data cannot be made available, its associated metadata should be made available making clear what data are available and where.

National Strategy of Open Access to Scientific Publications and Research Data in Slovenia 2015-2020, 2015, p. 6



### Exceptions to data provision

Note: emphasis added

#### \* Norway:

Closed access can be temporary and that controlled access options should be considered where open access is not feasible.

National Strategy on Access to and Sharing of Research Data, p. 6



### FAIRSFAIR Rec on Exceptions

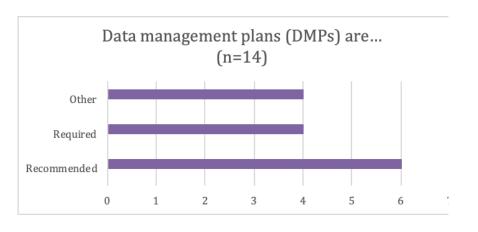
Note: emphasis added

7. Standardised exceptions for not sharing data should be developed and promoted in associated policy guidance

 Standard exceptions should be added to metadata schemas used by repositories for consistency.



## Data Management Plans (DMPs)



★ 4 require them:F, SLO, IRL, NO

Pre or post award, or monitor throughout (0)



#### FAIRSFAIR Rec on DMPs

Note: emphasis added

14. Require **updating of DMPs over the research lifecycle** leading to comprehensive, high-quality end stage DMPs that are included in end-stage reporting.

15. Policies and related guidance should emphasise that data management planning and sharing data supports research integrity goals, enhances data quality and contributes to reproducibility and transparency.



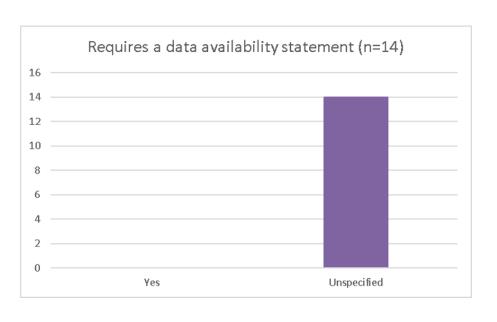
### Stimulating data re-use

Research data re-use saves time, increases potential for collaboration, enhances the return on investment for research activities, increases the **impact** of research funding, and accelerates the pace of **discovery** 

Re-use stimulated by e.g. NL, NO, SLO, SK and UK



## Data availability statement / ACCESS



- where and under what conditions data can be accessed
- make link between publication and underlying data
- part of good research practice



## FAIRSFAIR Rec on Data Availability Statements

Note: emphasis added

12. Working collaboratively, define and require standardised Data Accessibility Statements



## Addresses Intellectual Property: Reuse



- Mainly referred to under conditions for not making data available
- Open licensing by 5
- Challenges
  - More research / guidelines needed into ownership
  - Business research communities/ knowledge transfered to be?



#### FAIRSFAIR Rec on IP

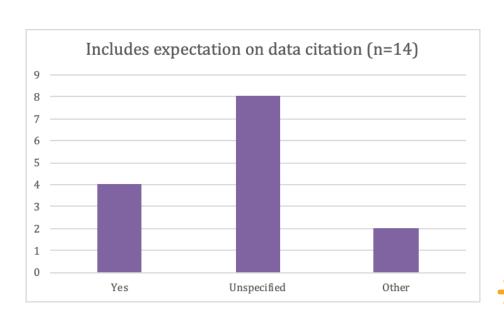
Note: emphasis added

9. Working with relevant stakeholders, support adoption of rights and licensing documentation schemas for different types of research outputs as they are defined

11. Provide **legal guidance** on choosing appropriate licenses during active stage of research and for assessing the compatibility of different license types when reusing multiple data outputs



## Rewarding sharing research data



Progress the
recognition of data
and other research
outputs including
software as legitimate
research outputs in
their own right

- Recognise authors in a standardised way
- \* E.g. CH, IRL, NO, UK



#### FAIRSFAIR Rec on Data Citation

Funding bodies and publishers could **strengthen their requirements in relation to data citation** and provide clearer guidance on how to do this in a standardised way

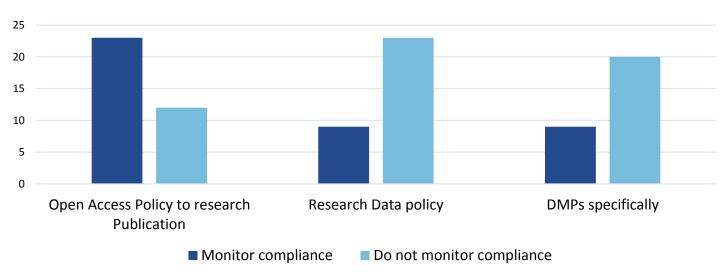
20. Provide guidance on how to cite a broader range of research outputs including data and software...

And above all include data in research evaluation systems



## Monitoring policy compliance

#### Number of funders monitoring Open Science policy compliance

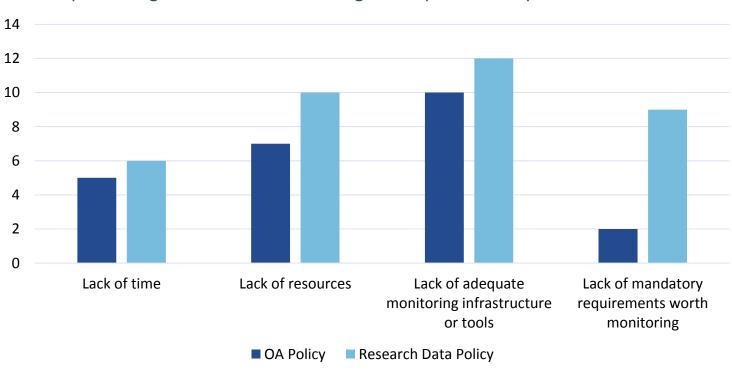


SPARC Europe, *Insights into European research funder Open policies and practices,* 2019, DOI: 10.5281/zenodo.3401278



### Monitoring compliance: Why not

#### Factors preventing funders from monitoring their Open Science policies



SPARC Europe, *Insights into European research funder Open policies and practices,* 2019, DOI: 10.5281/zenodo.3401278



## FAIRSFAIR Rec on compliance monitoring

Note: emphasis added

22. Support stakeholders to consider compliance monitoring across the FAIR ecosystem using identifiers and knowledge graphs. An emphasis should be placed on rewarding good practice but, where necessary, the introduction of penalties for non-compliance should be considered



## How FAIR does OS national policy need to be?

The more you consider what it means to be FAIR, and the more you specify that in your requirements or recommendations, the more FAIR your country's research data



### Key references

An Analysis of Open Science Policies in Europe, v6 <a href="https://doi.org/10.5281/zenodo.4005612">https://doi.org/10.5281/zenodo.4005612</a>

D3.1 FAIR Policy landscape analysis https://zenodo.org/record/3558173

 D3.3 Policy Enhancement Recommendations https://zenodo.org/record/3686901



#### THANK YOU, Any questions?



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After spending more than 250 days over the course of 20 months working to help shape key EU legislation, our secontmendations for:

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- \* the Open Data and Public Sector Information Directive and \* Herizon Europe
- were largely implemented

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> € 1.000.000

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