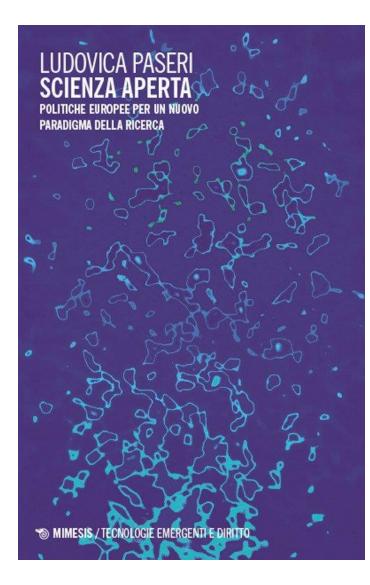
Data Regulations, Open Data and Open Science

Ludovica Paseri, PhD. EOLE 2024, Torino 29 November 2024



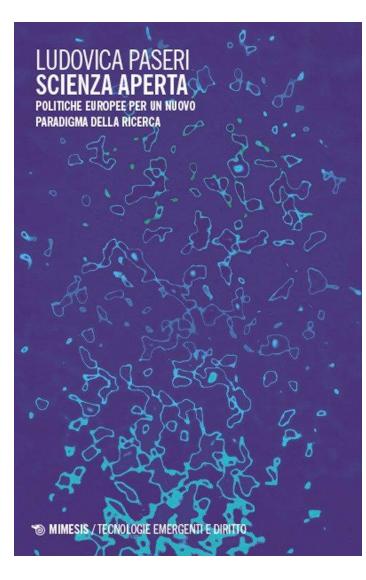
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LUDOVICA PASERI, Scienza aperta. Politiche europee per un nuovo paradigma della ricerca, Mimesis Edizioni, Milano-Udine, 2024.







LUDOVICA PASERI, Scienza aperta. Politiche europee per un nuovo paradigma della ricerca, Mimesis Edizioni, Milano-Udine, 2024.





UNIVERSITÉ DU

PhD-FSTM-2022-69 The Faculty of Science, Technology and Medicine ALMA MATER STUDIORIJM UNIVERSITA DI BOLOGNA

Alma Mater Studiorum University of Bologna - CIRSFID

DISSERTATION

Presented on 17/06/2022 in Bologna, Italy to obtain the degree of

DOCTEUR DE L'UNIVERSITÉ DU LUXEMBOURG EN INFORMATIQUE

AND

DOTTORE DI RICERCA IN

LAW, SCIENCE, AND TECHNOLOGY

By

Ludovica PASERI Born on 31 October 1992 in Saluzzo (Italy)

The European Legal Approach to Open Science and Research Data

https://amsdottorato.unibo.it/10393/.



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- 2. The notion of openness
- 3. Research data within the EU «politics of data»:
 - 3.1 Incoming research data
 - 3.2 Outcoming research data
- 4. Conclusions.

1. Introduction: Open Science Evolution

The origin of the phenomenon:



BOA December 1-2, 2001. BUDAPEST OPEN ACCESS INITIATIVE

https://www.budapestopenaccessinitiative.org

Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities

The Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities was published on 22 October 2003 in English. It is one of the milestones of the Open Access movement. The wording of the English version shall prevail.

https://openaccess.mpg.de/Berlin-Declaration

Bethesda Statement on Open Access Publishing

2003

https://www.ouvrirlascience.fr/bethesda statement-on-open-access-publishing



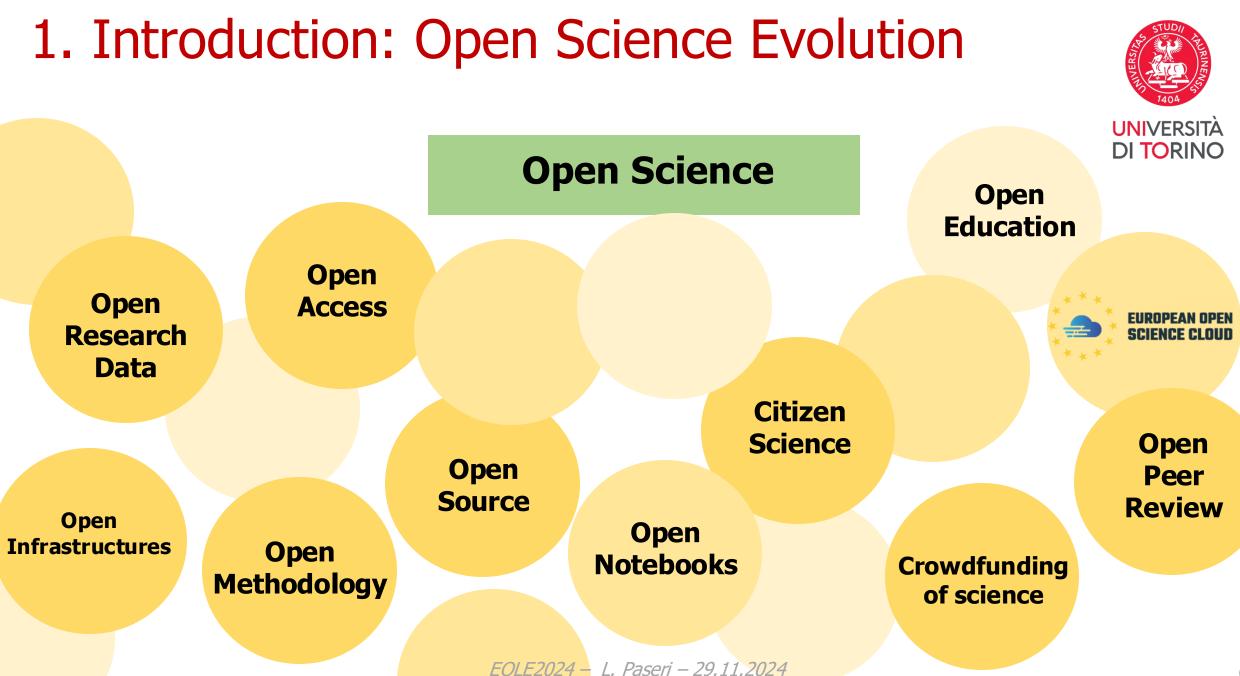
1. Introduction: Open Science Evolution

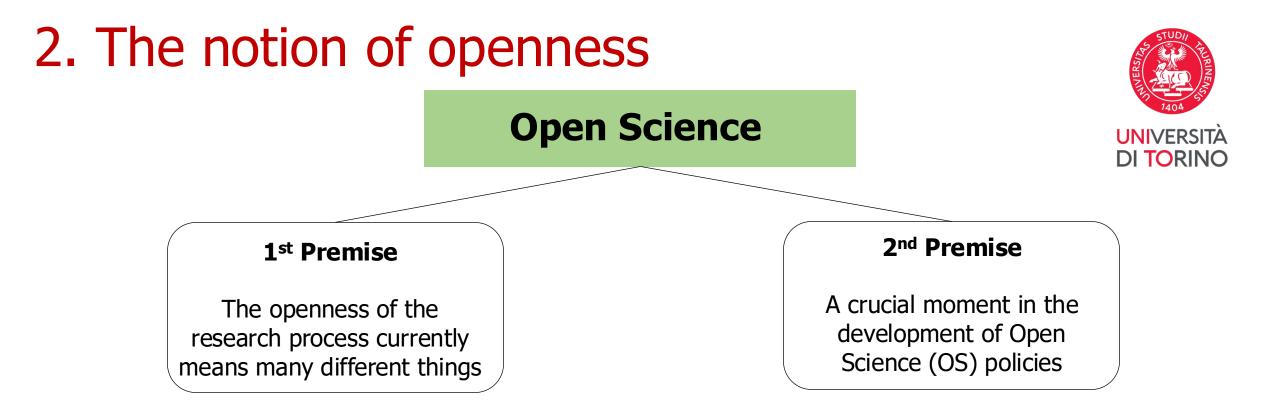
Open Science

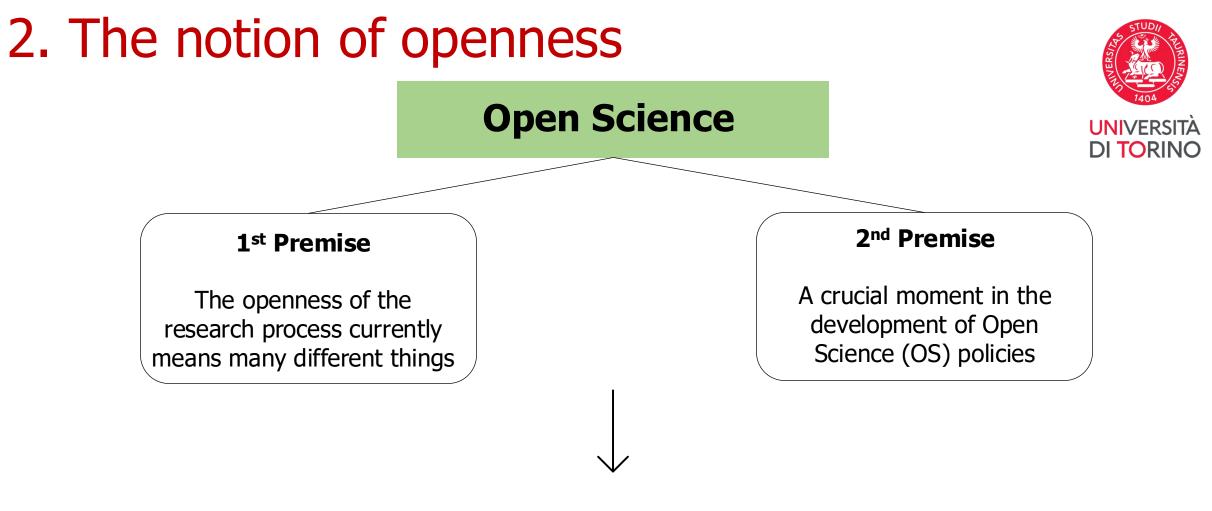


"Open access (OA) literature is digital, online, free of charge, and free of most copyright and licensing restrictions." P. Suber, Open access, The MIT Press (2012), p. 4.









How can we operate in this context? What definition of openness should we adopt?

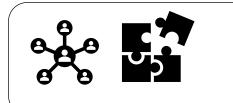
2. The notion of openness







Openness as institutional response



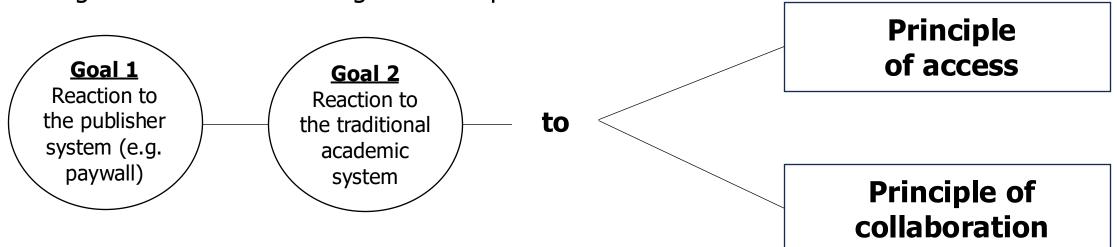
Openness for pluralism

2. The notion of openness



Openness as the democratisation

- A set of instances brought forward by part of the scientific community, associations and research entities fighting for broader and freer access to scientific knowledge;
- Open access <u>movement</u> and declarations;
- Strong relation with technological development.



Openness as institutional response

2. The notion of openness



- Response to the demands of the scientific community (e.g., open access movement);

- Response to private actors involved in the scientific research process.



2. The notion of openness UNIVERSITÀ **DI TORINO** 2000 2015 2016 2018 **>>> Digital Single** EU cloud 5th European EOSC launch freedom Market initiative - EOSC announcement: - Substantial - Formal origin of - Mid-term review of DSM (2017); - link with HPC; origin of Open Science. - Rec. access to and preservation - mix of concepts. Open of scientific information (2018). Science. Looking 2021 2020 forward **>>>** Horizon Tipping point EOSC Europe Association (i) von der Layen doctrine; (ii) COVID-19 pandemic; (iii) EOSC Portal; (iv) new ERA.

EOLE2024 - L. Paseri - 29.11.2024



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THE INSTITUTIONALISATION OF OPEN SCIENCE

EN Official Journal of the European Union 12.5.2021 L 170/1 (Legislative acts) REGULATIONS **REGULATION (EU) 2021/695 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 28 April 2021 establishing Horizon Europe - the Framework Programme for Research and Innovation, laying down its rules for participation and dissemination, and repealing Regulations (EU) No 1290/2013 and (EU) No 1291/2013 «as open as possible

as closed as necessary»

1. The Programme shall encourage open science as an approach to the scientific process based on cooperative work and diffusing knowledge, in particular (...):

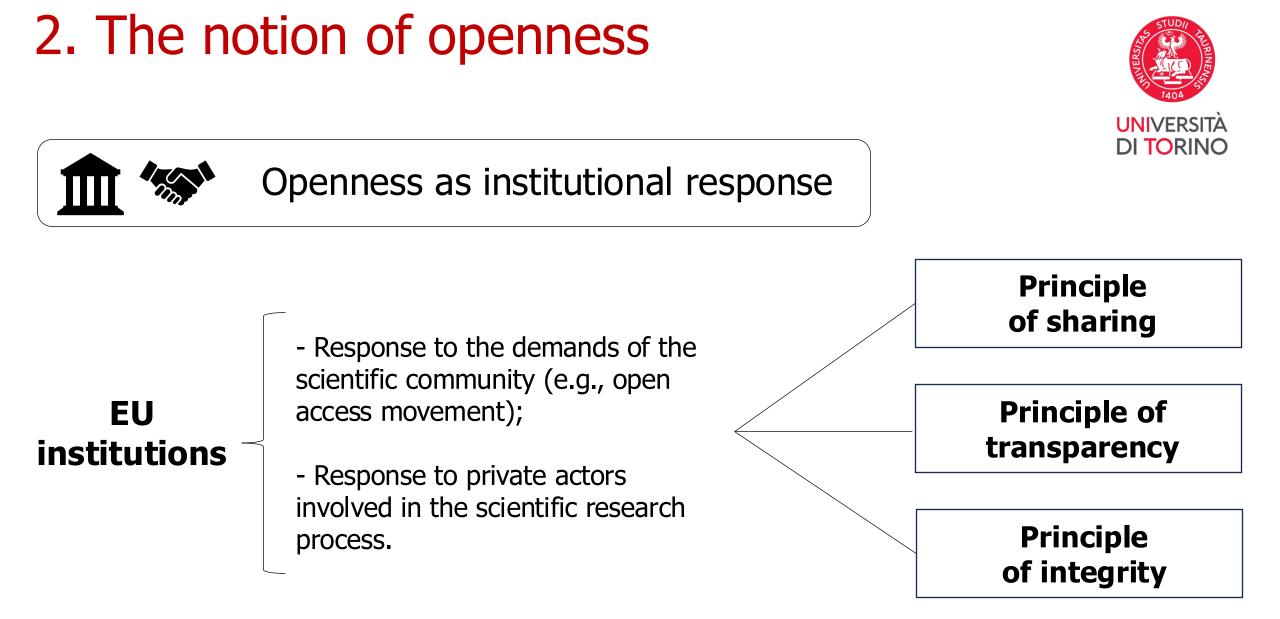
Article 14

Open Science

(a) open access to scientific publications resulting from research funded under the Programme;

(b) open access to research data, including those underlying scientific publications, in accordance with the principle 'as open as possible, as closed as necessary'.

2. The notion of openness



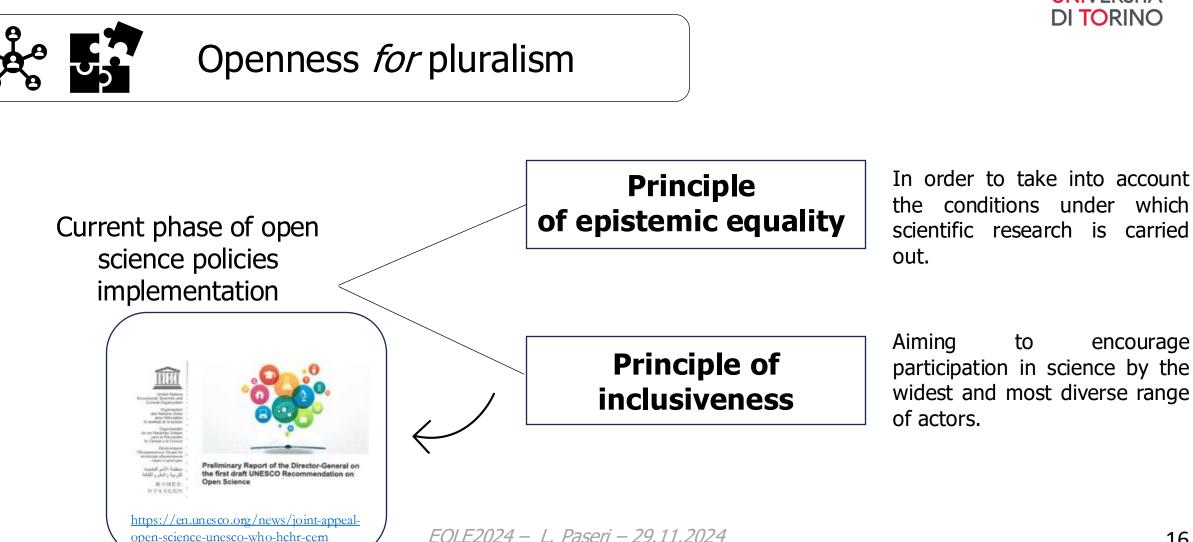
UNIVERSITÀ **DI TORINO** Openness for pluralism In order to take into account **Principle** the conditions under which of epistemic equality scientific research is carried Current phase of out. open science policies implementation Aiming to encourage **Principle of** participation in science by the widest and most diverse range inclusiveness of actors.



2. The notion of openness

open-science-unesco-who-hchr-cem





encourage

2. The notion of openness



Openness as the democratisation	Openness as institutional response	Openness for pluralism
 Principle of access Principle of collaboration 	 Principle of sharing Principle of transparency Principle of integrity 	 Principle of epistemic equality Principle of inclusiveness

3. Research data within the EU «politics of data»

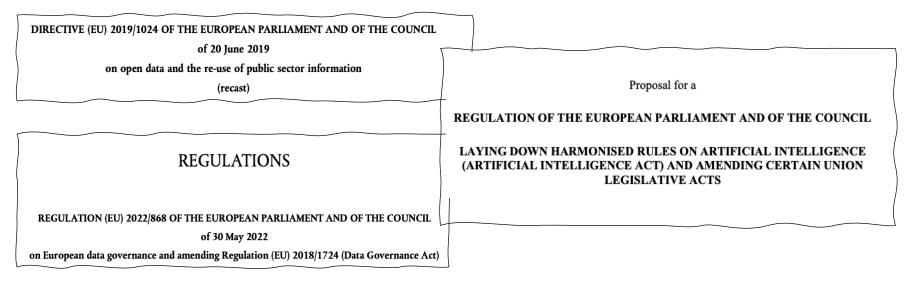


Legal framework





Cooperation & support in scientific research, ex article 167 TFEU

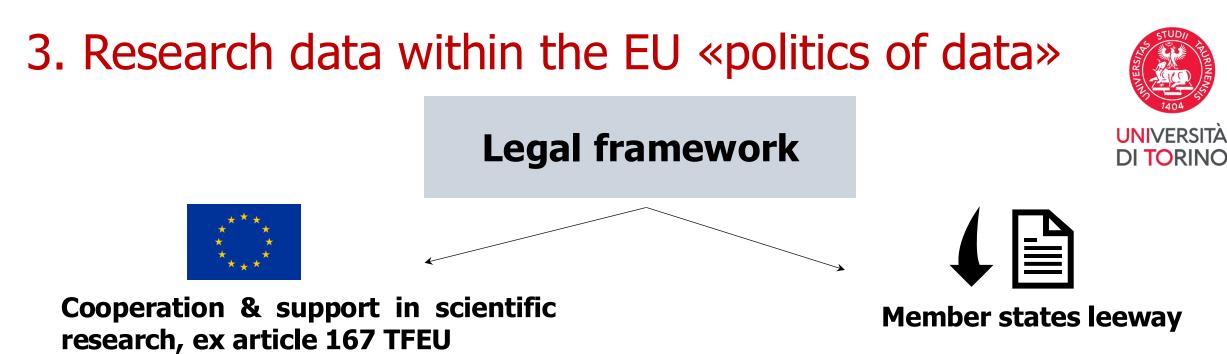


3. Research data within the EU «politics of data»

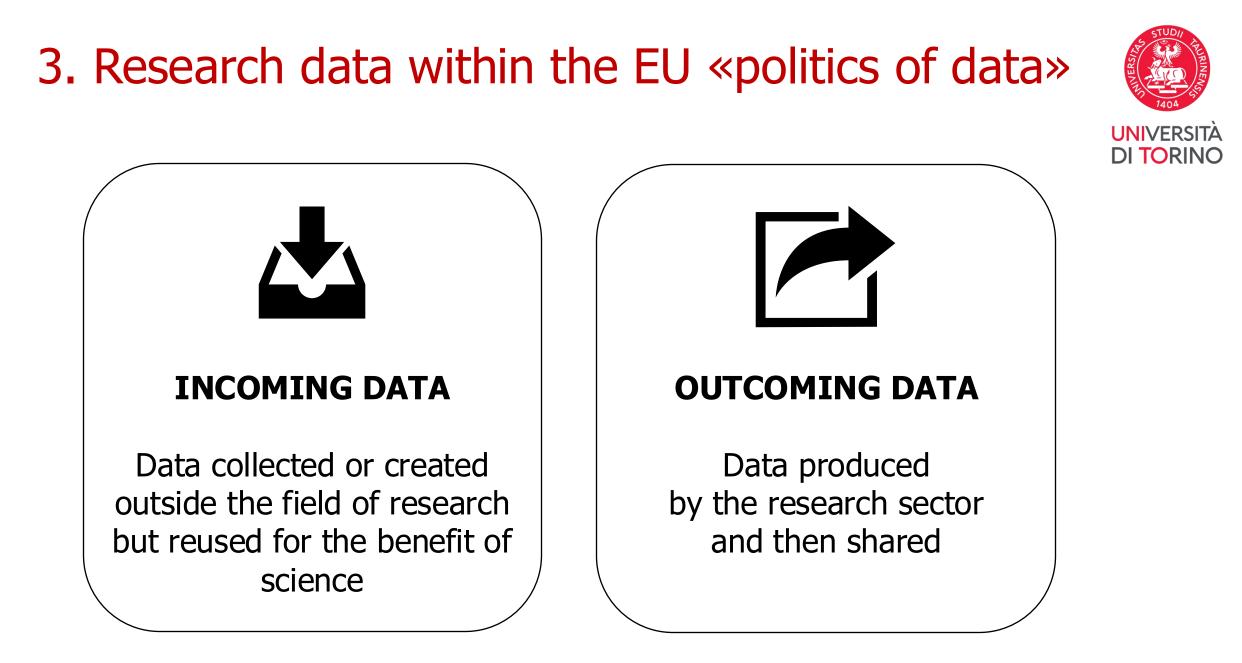
Acronym	Year	Source	Subject
AIA	2021	COM/2021/206 final	Artificial intelligence
CEAP	2020	COM/2020/98 final	Circular economy
Chips Act	2022	COM/2022/46 final	Semiconductors
Cyber Act	2019	Regulation 2019/881	Cybersecurity
DAct	2022	COM/2022/68 final	Fair data access and use
DGA	2020	COM/2020/767 final	Data governance
DHC	2018	COM/2018/233 final	e-Health and care
DMA	2020	COM/2020/842 final	Digital markets
DSA	2020	COM/2020/825 final	Digital services
ECL	2021	Regulation (EU) 2021/1119	Climate
EHDS	2022	COM/2022/197 final	Health data space
EUDS	2020	COM/2020/66 final	Overall data strategy
GDPR	2016	Regulation 2016/679	Personal data
Green Deal	2019	COM/2019/640 final	Climate, environment
ODF	2019	Directive 2019/1024	Open data framework

Table 1 The sources of data politics in EU law

Pagallo, U. «The Politics of Data in EU Law: Will It Succeed?». *DISO* **1**, 20 (2022). https://doi.org/10.1007/s44206-022-00021-3 UNIVERSITÀ DI TORINO



DIRECTIVE (EU) 2019/1024 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019	
on open data and the re-use of public sector information (recast)	Proposal for a
(ready)	REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
REGULATIONS	LAYING DOWN HARMONISED RULES ON ARTIFICIAL INTELLIGENCE (ARTIFICIAL INTELLIGENCE ACT) AND AMENDING CERTAIN UNION LEGISLATIVE ACTS
REGULATION (EU) 2022/868 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 May 2022 on European data governance and amending Regulation (EU) 2018/1724 (Data Governance Act)	



3. Research data within the EU «politics of data»



OUTCOMING DATA

Article 10 Research data Directive (EU) 2019/1024

Article 14 Open Science Regulation (EU) 2021/695

				12.5.2021	EN	Official Journal of the European Union	L 170/1
						Ι	
L 172/56	EN	Official Journal of the European Union	26.6.2019			(Legislative acts)	
) 2019/1024 OF THE EUROPEAN PARLIAMENT AND OF THE (of 20 June 2019 on open data and the re-use of public sector information	COUNCIL			REGULATIONS	
		(recast)					
					REGULATIO	N (EU) 2021/695 OF THE EUROPEAN PARLIAMENT AND OF THE CO	UNCIL
						of 28 April 2021	

establishing Horizon Europe – the Framework Programme for Research and Innovation, laying down its rules for participation and dissemination, and repealing Regulations (EU) No 1290/2013 and (EU) No 1291/2013

3. Research data within the EU «politics of data»



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INCOMING DATA

Reg. (EU) 2016/679 GDPR	4.5.2016 EN Official Journal of the European Union L 119/1 I (Legislative acts) REGULATIONS REGULATION (EU) 2016/679 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)	Reg. (EU) 2022/868 DGA (Data altruism)	I (Legislative acts) REGULATIONS	152/1
Reg. (EU) 2022/2065 DSA (Art. 40)	27.10.2022 EN Official Journal of the European Union L 277/1 I (Legislative acts) REGULATIONS REGULATION (EU) 2022/2065 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 October 2022 on a Single Market For Digital Services and amending Directive 2000/31/EC (Digital Services Act)	2023/2854 Data Act		EN eries 2023

4. Conclusions



- Do public universities and research centres have (or will they have) the capacity to benefit from the «politics of data» opportunities?
- Are the proper structures/infrastructures in place for compliance?
- What direction is openness in scientific research taking?



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