



EOSC-Nordic WP4 FAIR Data

Andreas O Jaunsen (NeIC / WP4 lead)

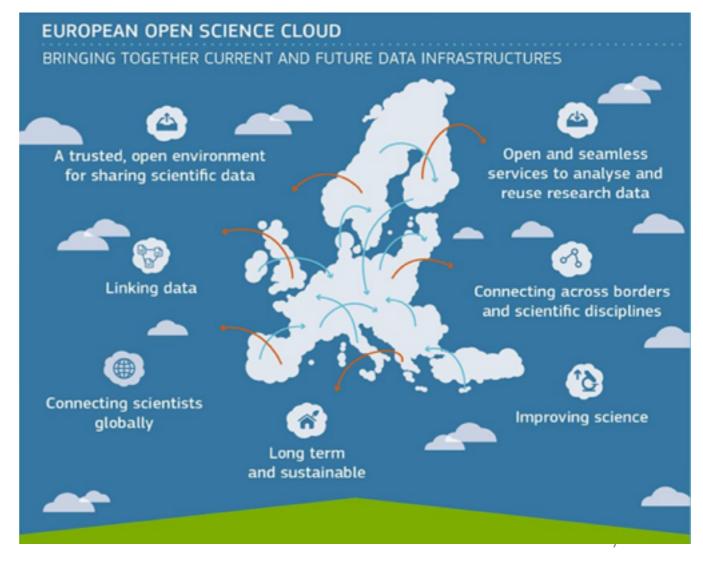


EOSC-Nordic project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 857652

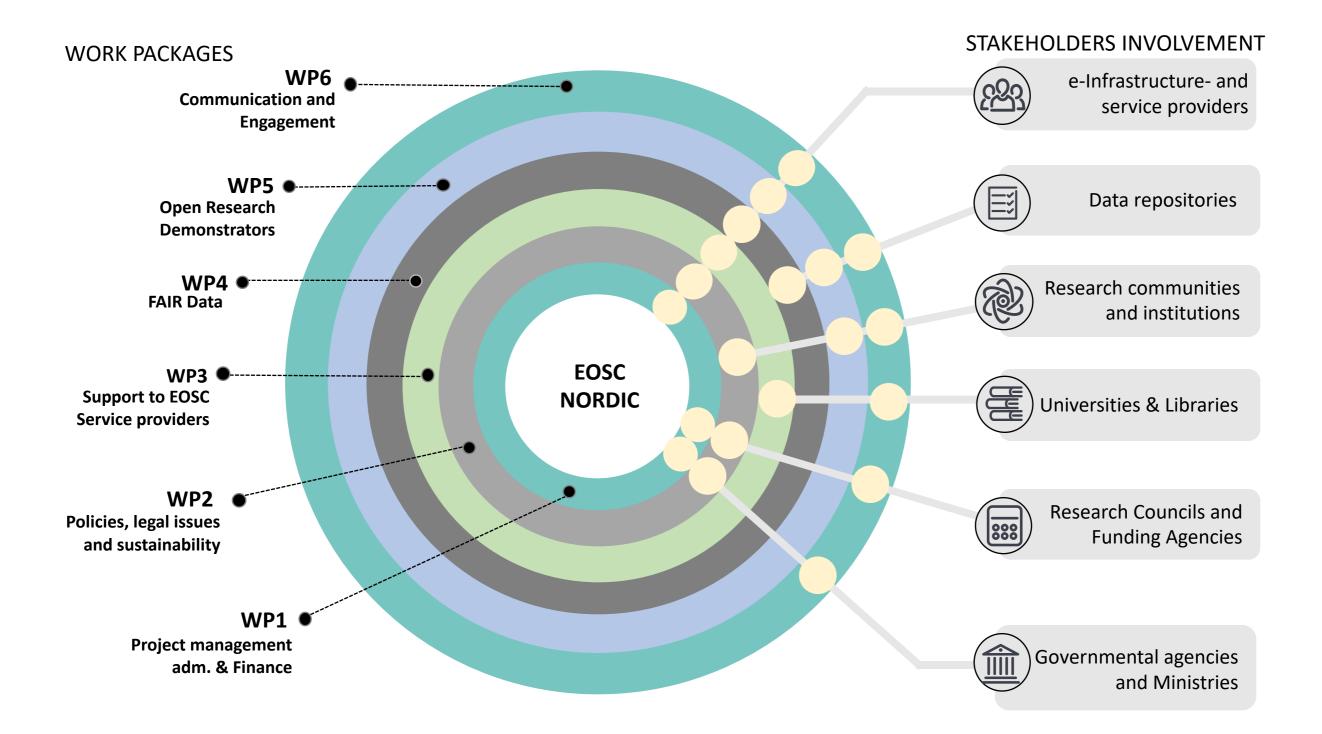
EOSC - European Commission's vision for Federating Data Infrastructures



- Vision for the European Open Science Cloud (EOSC) presented in the Commission communication on the 'European Cloud Initiative', as a part of the Digital Single Market Strategy [April 2016]
- "A seamless environment enabling interdisciplinary research, an environment to foster data-intensive innovation. The EOSC will allow for universal access to data and a new level playing field for EU researchers." [EOSC Strategic Implementation Roadmap 2018-2020]
- From 2021 fully operational





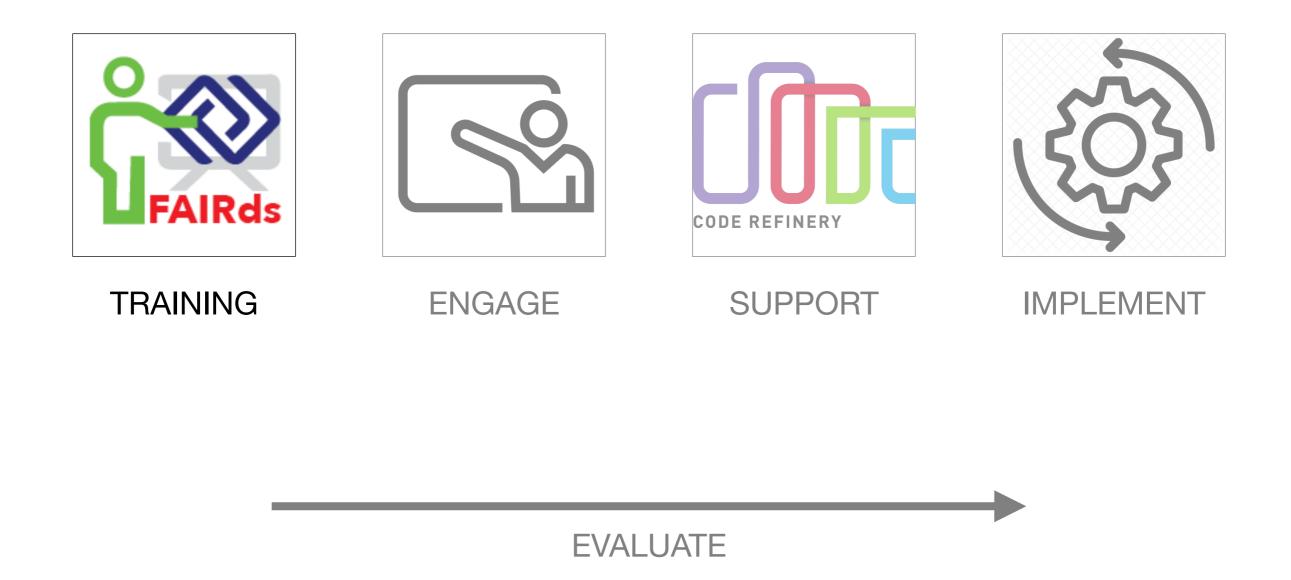


WP4 members









Nordic FAIR data stewardship: an introduction course



Supported by F/IR

Machine-readable and human-friendly

October 5-9, 2020

Uppsala, Sweden

Sponsored by

NORDIC E-INFRASTRUCTURE COLLABORATION

Svensk nationell datatjänst

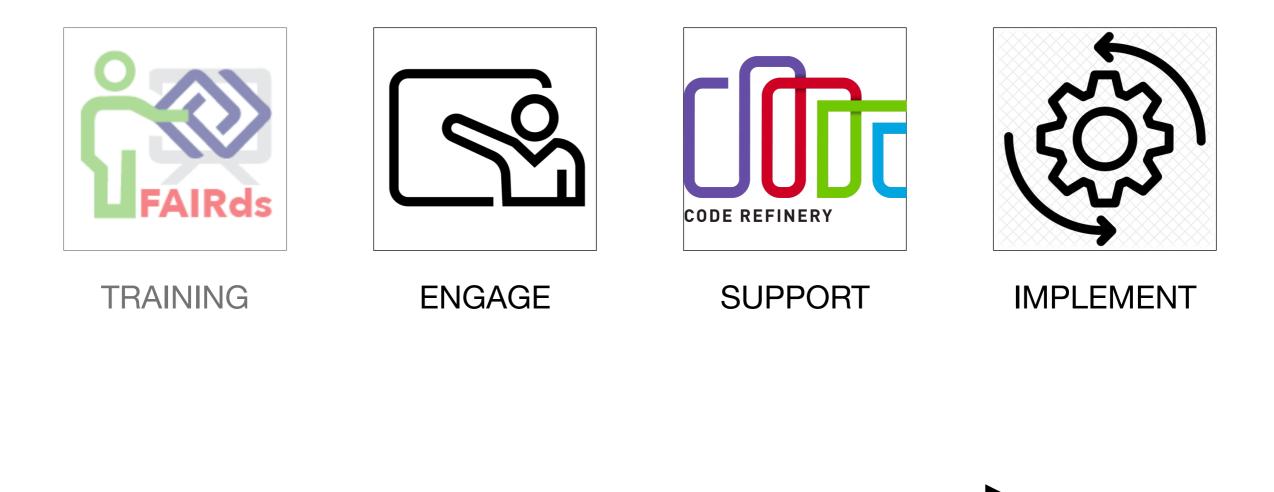
http://bit.ly/FAIRds-Nordic-SE

Nordic FAIR data stewardship course

- FAIRds-Nordic Norway 36 participants
- FAIRds-Nordic Denmark 31 participants
- FAIRds-Nordic Sweden 39 participants
- FAIRds-Nordic Finland ? participants





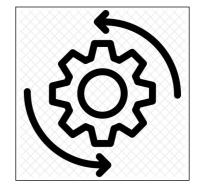


EVALUATE

Task activities so far...

Surveyed Nordics region for research repositories (~100 repositories in sample)

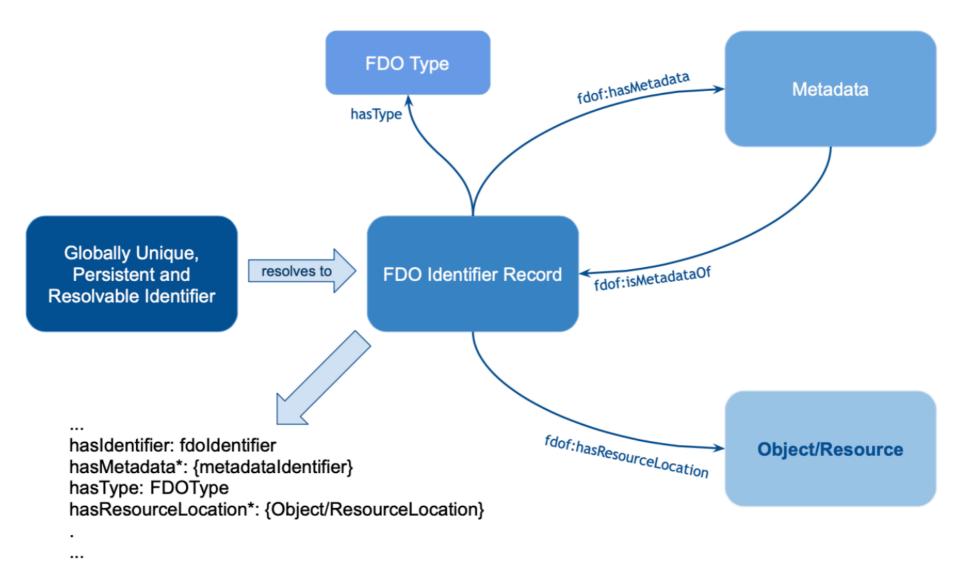
(Manually) selected N=10 datasets per repository (700+ datasets)



Evaluated all datasets using fully machine-actionable metrics (Wilkinson gen2)



FAIR Digital Objects



Bonino 2019

Machine-actionable FAIR Maturity indicators



	Metric name	Principle association	Principle description
1	UNIQUE IDENTIFIER	F1	(Meta)data are assigned a globally unique and persistent identifier
2	IDENTIFIER PERSISTENCE	F1	(Meta)data are assigned a globally unique and persistent identifier
3	DATA IDENTIFIER PERSISTENCE	F1	(Meta)data are assigned a globally unique and persistent identifier
4	STRUCTURED METADATA	F2	Data are described with rich metadata (defined by R1 below)
5	GROUNDED METADATA	F2	Data are described with rich metadata (defined by R1 below)
6	DATA IDENTIFIER EXPLICITLY IN METADATA	F3	Metadata clearly and explicitly include the identifier of the data they describe
7	METADATA IDENTIFIER EXPLICITLY IN METADATA	F3	Metadata clearly and explicitly include the identifier of the data they describe
8	SEARCHABLE IN MAJOR SEARCH ENGINE	F4	(Meta)data are registered or indexed in a searchable resource
9	USES OPEN FREE PROTOCOL FOR DATA RETRIEVAL	A1.1	The protocol is open, free, and universally implementable
10	USES OPEN FREE PROTOCOL FOR METADATA RETRIEVAL	A1.1	The protocol is open, free, and universally implementable
11	DATA AUTHENTICATION AND AUTHORIZATION	A1.2	The protocol allows for an authentication and authorisation procedure, where necessary
12	METADATA AUTHENTICATION AND AUTHORIZATION	A1.2	The protocol allows for an authentication and authorisation procedure, where necessary
13	METADATA PERSISTENCE	A2	Metadata are accessible, even when the data are no longer available
14	METADATA KNOWLEDGE REPRESENTATION LANGUAGE (WEAK)	11	(Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
15	METADATA KNOWLEDGE REPRESENTATION LANGUAGE (STRONG)	11	(Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
16	DATA KNOWLEDGE REPRESENTATION LANGUAGE (WEAK)	11	(Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
17	DATA KNOWLEDGE REPRESENTATION LANGUAGE (STRONG)	11	(Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
18	METADATA USES FAIR VOCABULARIES (WEAK)	12	(Meta)data use vocabularies that follow FAIR principles
19	METADATA USES FAIR VOCABULARIES (STRONG)	12	(Meta)data use vocabularies that follow FAIR principles
20	METADATA CONTAINS QUALIFIED OUTWARD REFERENCES	13	(Meta)data include qualified references to other (meta)data
21	METADATA INCLUDES LICENSE (STRONG)	R1.1	(Meta)data are released with a clear and accessible data usage license
22	METADATA INCLUDES LICENSE (WEAK)	R1.1	(Meta)data are released with a clear and accessible data usage license
		R1.2	(Meta)data are associated with detailed provenance
		R1.3	(Meta)data meet domain-relevant community standards

https://doi.org/10.1038/s41597-019-0184-5

Machine-actionable metadata for a DO/dataset

		С.	EX	PLORE	PRO	/IDE	CONNECT	MONITOR	DEVELOP
C	OpenAIRE EXPLORE	SE	ARCH	DEPO	SIT	LINK	CONTENT P	ROVIDERS	SIGN IN 🔍
	Community Health Workers and Mobile Technology: A Systematic Review of the Literatu	re		Ŀ.	LINK TH	S RESEARO	CH DATA TO		
	DATASET UNKNOWN Braun, Rebecca; Catalani, Caricia; Wimbush, Julian; Israelski, Dennis; (2015) Publisher: Figshare Identifiers: ☐ doi: 10.1371/journal.pone.0065772 Subject: Medicine Information and Computing Sciences Information technology GI health Non-clinical medicine Health care policy Health education and awareness I			hare - Bo	f from	in 🔁	* + taset, 2015)	?	
	systems strengthening Quality of care Communication in health care Health care providers Health care quality Health informatics Public health workers systematication	are nobile	C	Figshare	search da			?	
	Matrice	4							

View (http) source

of mobile technology by community health workers to identify opportunities and challenges for strengthening health systems in resource-constrained settings.MethodsWe conducted a systematic review of peer-reviewed literature from health, medical, social science, and engineering databases, using PRISMA guidelines. We identified a total of 25 unique full-text research articles on community health workers and their use of mobile technology for the delivery of health services.Perpenditive health workers used mobile tools to advance a broad range of health aims throughout the globe, particularly maternal and child health, HIV/AIDS, and sexual and reproductive health. Most commonly, community health workers use mobile technology to collect field-based health data, receive alerts and reminders, facilitate health education sessions, and conduct person-to-person communication. Programmatic efforts to strengthen health service delivery focus on improving adherence to standards and guidelines, community health workers to improve the quality of care provided, efficiency of services, and capacity for program monitoring.Evidence suggests mobile technology presents promising opportunities to improve the range and quality of services provided by community health workers. Small-scale efforts, pilot projects, and preliminary descriptive studies are increasing, and there is a trend toward using feasible and acceptable interventions that lead to positive program outcomes through operational improvements and rigorous study designs. Programmatic and scientific gaps will need to be addressed by global leaders as they advance the use and assessment of mobile technology tools for community health workers.

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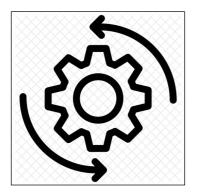
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97

98



Milestones reached...



MS28: Evaluated all datasets for FAIR maturity



Provided FAIRification recommendations based on results offered to community



MS26: workshop executed (April 22)

DO evaluations

repolD −	Evaluation result string =	F-score –	A-score =	I-score	R-score .	FAIR score =	Succeded tests / Total tests =
27	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
27	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
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27	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
27	1001110011110110011100	50.00%	80.00%	71.43%	0.00%	59.09%	(13:22)
27	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
27	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
27	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
27	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
27	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
54	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
54	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
54	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
54	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
54	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
54	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
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54	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
54	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
54	1001100001010110011100	37.50%	40.00%	71.43%	0.00%	45.45%	(10:22)
26	1001110011110110011111	50.00%	80.00%	71.43%	100.00%	68.18%	(15:22)
26	1001110011110110111111	50.00%	80.00%	85.71%	100.00%	72.73%	(16:22)
26	1001110011110111111111	50.00%	80.00%	100.00%	100.00%	77.27%	(17:22)
26	1001110011110110011111	50.00%	80.00%	71.43%	100.00%	68.18%	(15:22)
26	1001110011110110111111	50.00%	80.00%	85.71%	100.00%	72.73%	(16:22)
26	1001110011110110011111	50.00%	80.00%	71.43%	100.00%	68.18%	(15:22)
26	1001110011110110011111	50.00%	80.00%	71.43%	100.00%	68.18%	(15:22)
26	1001110011110111111111	50.00%	80.00%	100.00%	100.00%	77.27%	(17:22)
26	1001110011110110011111	50.00%	80.00%	71.43%	100.00%	68.18%	(15:22)
26	1001110011110111111111	50.00%	80.00%	100.00%	100.00%	77.27%	(17:22)
24	10000000101000000000	12.50%	40.00%	0.00%	0.00%	13.64%	(3:22)
24	10000000101000000000	12.50%	40.00%	0.00%	0.00%	13.64%	(3:22)
24	10000000101000000000	12.50%	40.00%	0.00%	0.00%	13.64%	(3:22)
24	10000000101000000000	12.50%	40.00%	0.00%	0.00%	13.64%	(3:22)

Repository evaluation results

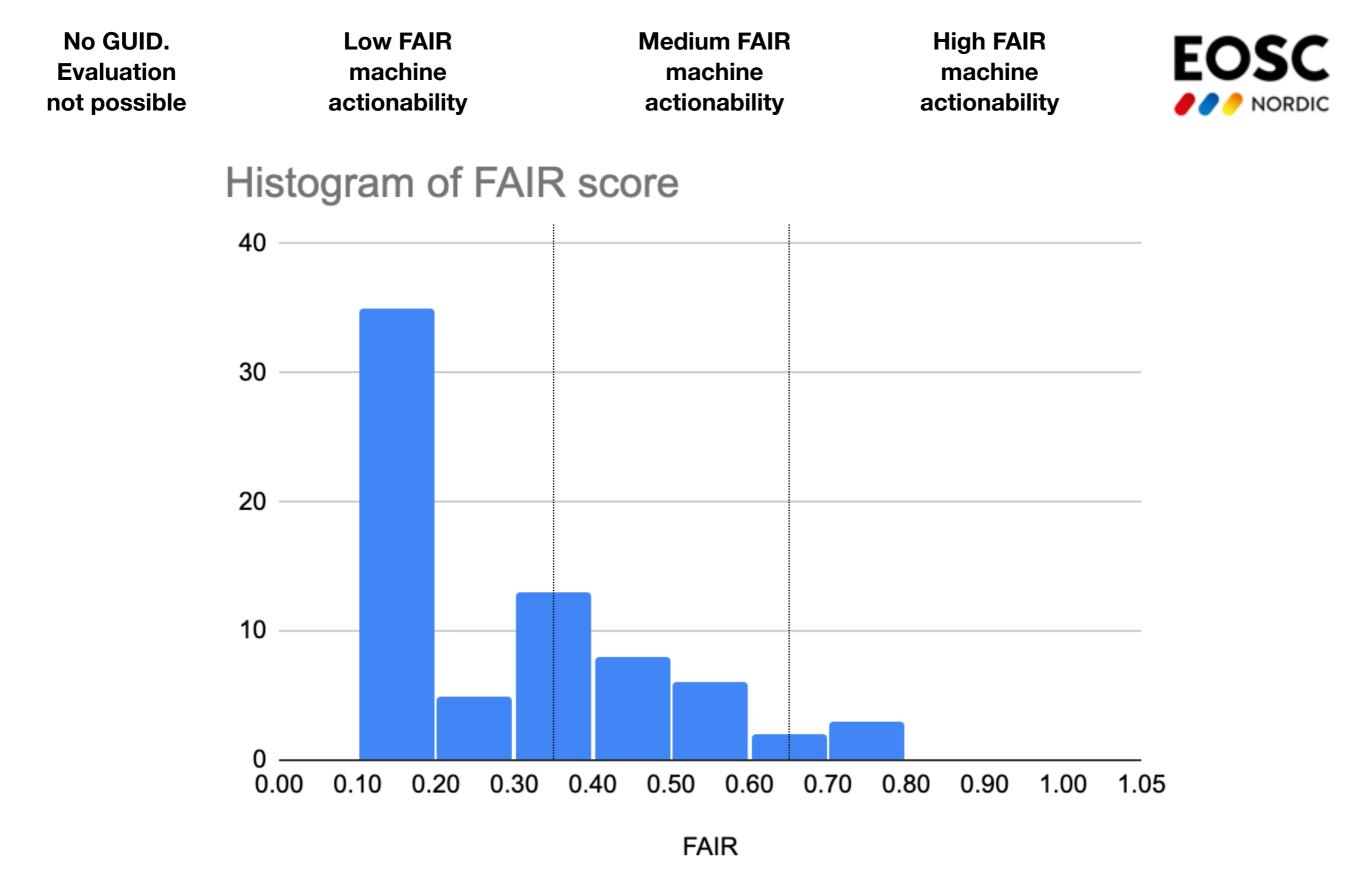
repoID	Data-se	Platform	F-score	A-score	I-score	R-score	FAIR	Sigma	Sigma (F)	Sigma (A)	Sigma (I)	Sigma (R)	CTS D	SA WDS	CLAR
2	10	Dspace	37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000	х		х
	10		30.00%	40.00%	62.86%	0.00%	40.00%	0.164	0.065	0.000	0.100	0.000			
	15 10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
	10	META-SHARE	21.25%	40.00%	10.00%	0.00%	20.00%	0.129	0.060	0.000	0.069	0.000	v	_	х
	10	HETA SHARE	12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000	^		^
	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
9		Dataverse	50.00%	80.00%	71.43%	0.00%	59.09%	0.000	0.000	0.000	0.000	0.000			
10	11	NESSTAR	12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000	х		
11	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
13	10	Dspace	20.00%	40.00%	8.57%	0.00%	19.09%	0.259	0.121	0.000	0.138	0.000	Х		Х
	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
	11	Dataverse	50.00%	80.00%	77.14%	0.00%	60.91%	0.138	0.000	0.000	0.138	0.000	Х		
	10	Nesstar	12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000		_	
	10 10	Dataverse	50.00%	80.00% 40.00%	71.43% 0.00%	0.00%	59.09% 13.64%	0.117	0.000	0.000	0.117	0.000	x		Х
	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000	^		^
	10	Figshare	50.00%	80.00%	82.86%	100.00%	71.82%	0.131	0.000	0.000	0.131	0.000			
	10	1 Igonare	40.00%	48.00%	71.43%	0.00%	48.18%	0.221	0.053	0.169	0.000	0.000	х		
	10		37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000			
29	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
30	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
	11	IPT	37.50%	40.00%	68.83%	100.00%	53.72%	0.058	0.000	0.000	0.058	0.000		х	
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	10		23.75%	40.00%	21.43%	30.00%	27.27%	1.009	0.181	0.000	0.345	0.483	\vdash		
	10		25.00%	40.00%	14.29%	0.00%	22.73%	0.282	0.132	0.000	0.151	0.000	\vdash		
	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000		_	
	10 10		12.50%	40.00%	0.00%	0.00%	13.64% 13.64%	0.000	0.000	0.000	0.000	0.000			
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55	10		37.50%	40.00%	71.43%	0.00%	45.45%	0.000	0.000	0.000	0.000	0.000			
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60	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
62	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
	10		35.00%	40.00%	25.71%	0.00%	30.00%	0.169	0.079	0.000	0.090	0.000			
64	_		37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000			
	10		37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000	Х		Х
	10 10	Figshare	12.50% 50.00%	40.00%	0.00%	0.00%	13.64% 70.00%	0.000	0.000	0.000	0.000	0.000			
	10	Figshare	12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
	10		15.00%	40.00%	2.86%	10.00%	16.36%	0.486	0.079	0.000	0.090	0.316			
	10		37.50%	40.00%	65.31%	100.00%	52.60%	0.076	0.000	0.000	0.076	0.000			
73			37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000			
76	10		37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000			
79	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
	13	CKAN	50.00%	80.00%	79.76%	0.00%	61.74%	0.129	0.000	0.000	0.129	0.000			
	10		37.50%	40.00%	71.43%	0.00%	45.45%	0.000	0.000	0.000	0.000	0.000	\square		
	10		37.50%	40.00%	71.43%	0.00%	45.45%	0.000	0.000	0.000	0.000	0.000	\vdash	_	
	10		37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000	\vdash		
	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000		_	
100			12.50% 37.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000	\vdash		
103			37.50%	40.00%	28.57% 28.57%	0.00%	31.82% 31.82%	0.000	0.000	0.000	0.000	0.000	\vdash		
108		CKAN	50.00%	80.00%	100.00%	50.00%	72.73%	0.577	0.000	0.000	0.000	0.577			
113			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
114			37.50%	40.00%	71.43%	0.00%	45.45%	0.000	0.000	0.000	0.000	0.000			
115			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
116	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
120			20.00%	40.00%	8.57%	0.00%	19.09%	0.259	0.121	0.000	0.138	0.000			
122			35.00%	40.00%	25.71%	0.00%	30.00%	0.169	0.079	0.000	0.090	0.000	\vdash		
125			30.00%	40.00%	50.00%	0.00%	35.91%	0.466	0.121	0.000		0.000			
127			37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000	\vdash	_	
129			37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000	\vdash	_	
130			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000			
131		Datavarse	12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000	\vdash		
132		Dataverse	50.00% 37.50%	80.00% 40.00%	69.84% 42.86%	0.00%	58.59% 36.36%	0.048	0.000	0.000	0.048	0.000		_	-
122	10		37.50%	40.00%											
133	10		37 50%	40 00%	57 14%	0 00%	40 91%	0 000	ρ ρ ρ ρ ρ	0 000	0 0 00	ρ			-
133 134 135			37.50% 12.50%	40.00%	57.14% 0.00%	0.00%	40.91% 13.64%	0.000	0.000	0.000	0.000	0.	Di	sc	1

isclaimer: PRELIMINARY RESULTS

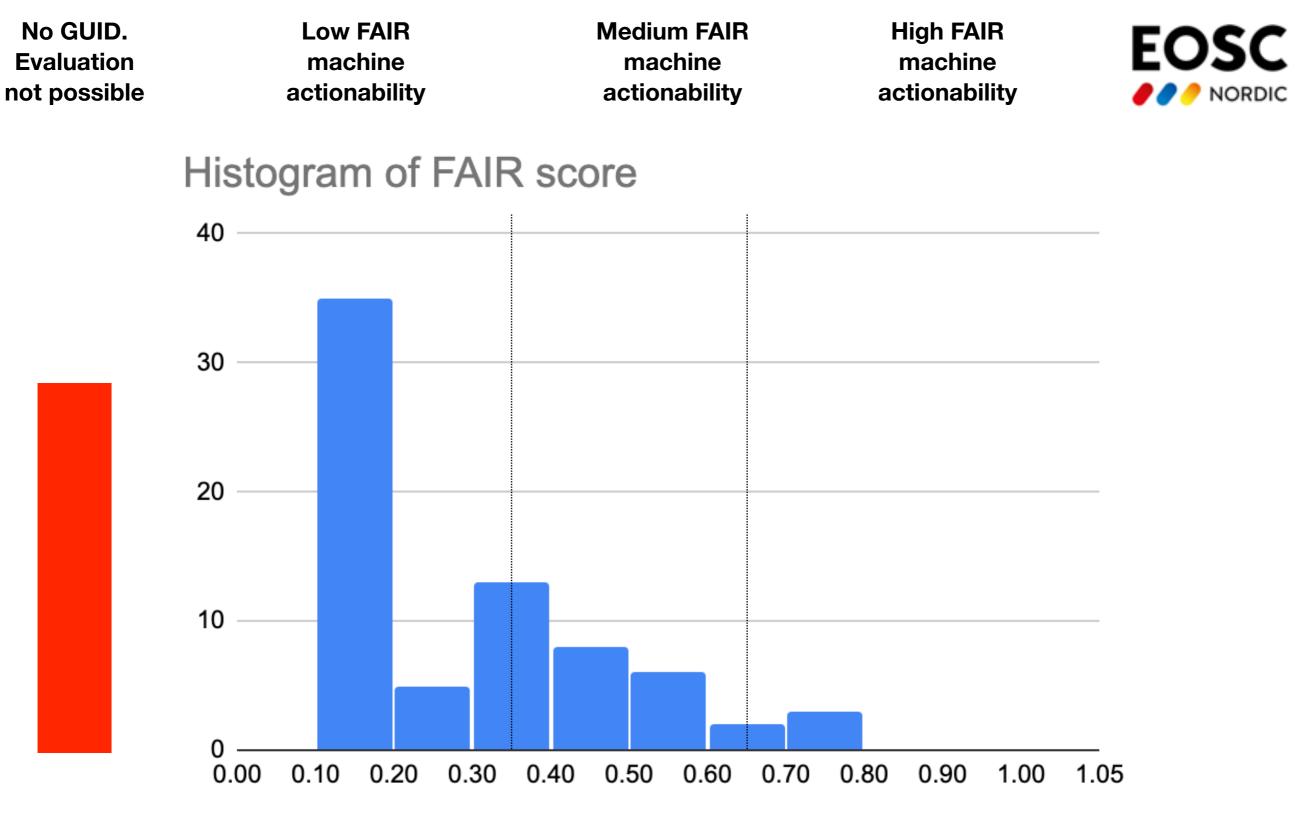
Repository evaluation results

repoID	[Data-se	Platform	F-score	A-score	I-score	R-score	FAIR	Sigma	Sigma (F)	Sigma (A)	Sigma (I)	Sigma (R)	CTS D	DSA	WDS 2	ARIN
	2 1		Dspace	37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000	Х		>	ζ.
	3 1			30.00% 12.50%	40.00% 40.00%	62.86% 0.00%	0.00%	40.00%	0.164	0.065	0.000	0.100	0.000				
	5 1			21.25%	40.00%	10.00%	0.00%	20.00%	0.129	0.060	0.000	0.069	0.000				
	6 1		META-SHARE	12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000	х)	(
	7 1	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	8 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	98		Dataverse	50.00%	80.00%	71.43%	0.00%	59.09%	0.000	0.000	0.000	0.000	0.000				
	10 1 11 1		NESSTAR	12.50% 12.50%	40.00%	0.00%	0.00%	13.64% 13.64%	0.000	0.000	0.000	0.000	0.000	X			
	13 1		Dspace	20.00%	40.00%	8.57%	0.00%	19.09%	0.259	0.121	0.000	0.138	0.000	х)	K
	16 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	18 1	11	Dataverse	50.00%	80.00%	77.14%	0.00%	60.91%	0.138	0.000	0.000	0.138	0.000	Х			
	19 1		Nesstar	12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	20 1		Dataverse	50.00%	80.00%	71.43%	0.00%	59.09%	0.117	0.000	0.000	0.117	0.000				
	24	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000	Х	(>	(
	26 1	10	Figshare	50.00%	80.00%	82.86%	100.00%	71.82%	0.131	0.000	0.000	0.131	0.000				
	21		i iganare	40.00%	40.00%	/1.43%	0.00%	40.10%	0.221	0.000	0.000	0.151	0.000	~		-	-
	28 1			37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000				
	29 1	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	30 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	32 1		IPT	37.50%	40.00%	68.83%	100.00%	53.72%	0.058	0.000	0.000	0.058	0.000			Х	
	35 1 39 1			12.50% 23.75%	40.00%	0.00%	0.00%	13.64% 27.27%	0.000	0.000	0.000	0.000	0.000				
	41 1			25.00%	40.00%	14.29%	0.00%	22.73%	0.282	0.132	0.000	0.345	0.483				
	42 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	45 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	47 1	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	49 4			18.75%	40.00%	7.14%	25.00%	20.45%	0.768	0.125	0.000	0.143	0.500				
	52 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	54 1 55 1			37.50% 37.50%	40.00%	71.43%	0.00%	45.45% 45.45%	0.000	0.000	0.000	0.000	0.000				
	57 1			17.50%	40.00%	11.43%	0.00%	19.09%	0.346	0.105	0.000	0.241	0.000				
	60 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	62 1	10		12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	63 1	10		35.00%	40.00%	25.71%	0.00%	30.00%	0.169	0.079	0.000	0.090	0.000				
	64 1			37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000				_
	65	10		37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000	X		X	1
	68 1	10	Figshare	50,00%	80.00%	77.14%	100.00%	70.00%	0.100	0.000	0.000	0.100	0.000				
	09		0.00	12.50%	40.00%	0.00%	0.00%	13.04%	0.000	0.000	0.000	0.000	0.000		-	-	
	71 1	10		15.00%	40.00%	2.86%	10.00%	16.36%	0.486	0.079	0.000	0.090	0.316				
	72 1	10		37.50%	40.00%	65.31%	100.00%	52.60%	0.076	0.000	0.000	0.076	0.000				
	73			37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000				
	76 1			37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000				
	79 1 82 1		CKAN	12.50% 50.00%	40.00% 80.00%	0.00% 79.76%	0.00%	13.64% 61.74%	0.000	0.000	0.000	0.000	0.000				
	84 1			37.50%	40.00%	71.43%	0.00%	45.45%	0.000	0.000	0.000	0.000	0.000				
	85 1			37.50%	40.00%	71.43%	0.00%	45.45%	0.000	0.000	0.000	0.000	0.000				
	87 1	10		37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000				
	94 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	00 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	03	10		37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000			\rightarrow	_
	08	4	CKAN	50.00%	80.00%	100.00%	50.00%	72.73%	0.577	0.000	0.000	0.000	0.577				
	13			12.50%	40.00%	0.00%	0.00%	13.04%	0.000	0.000	0.000	0.000	0.000				
1	14 1	10		37.50%	40.00%	71.43%	0.00%	45.45%	0.000	0.000	0.000	0.000	0.000				
	15 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	16 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	20 1 22 1			20.00%	40.00%	8.57% 25.71%	0.00%	19.09% 30.00%	0.259 0.169	0.121	0.000	0.138	0.000				
	25 1			35.00%	40.00%	50.00%	0.00%	30.00%	0.466	0.121	0.000	0.090	0.000				
	27 1			37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000				
	29 1			37.50%	40.00%	28.57%	0.00%	31.82%	0.000	0.000	0.000	0.000	0.000				
	30 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	31 1			12.50%	40.00%	0.00%	0.00%	13.64%	0.000	0.000	0.000	0.000	0.000				
	32 1		Dataverse	50.00%	80.00%	69.84%	0.00%	58.59%	0.048	0.000	0.000	0.048	0.000				
	33 1			37.50%	40.00%	42.86%	0.00%	36.36%	0.000	0.000	0.000	0.000	0.000				
	34 1 35 1			37.50% 12.50%	40.00%	57.14% 0.00%	0.00%	40.91%	0.000	0.000	0.000	0.000	0.	Di	S	c]	La
	36 1		figshare	46.25%	68.00%	64.29%	70.00%	59.09%	0.930	0.060	0.193	0.193	0.				
				10.12.078	20100/0	5112 570		201000	0.000	5.300	5.755	5.755				_	_

isclaimer: PRELIMINARY RESULTS

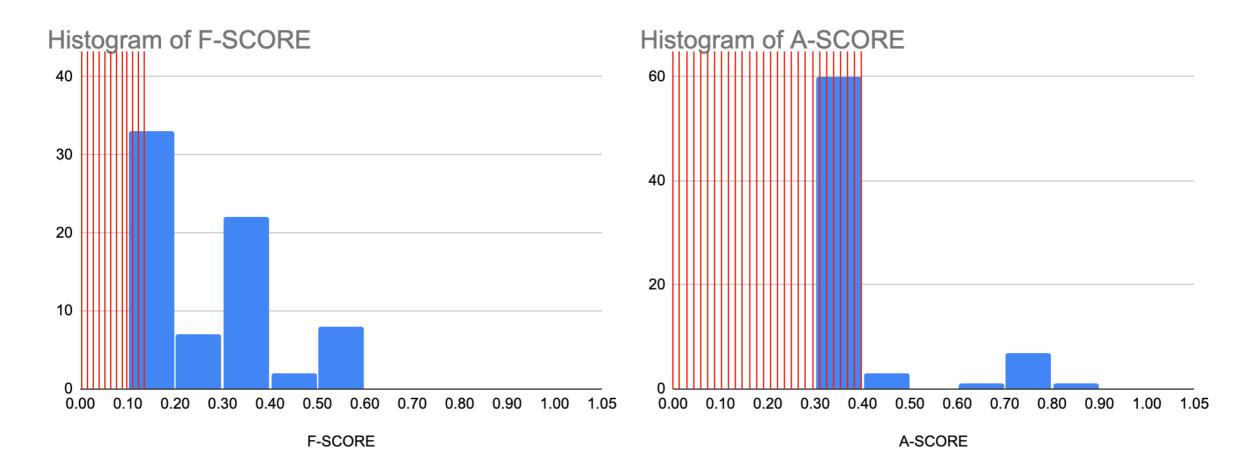


100 repositories, 72 evaluated



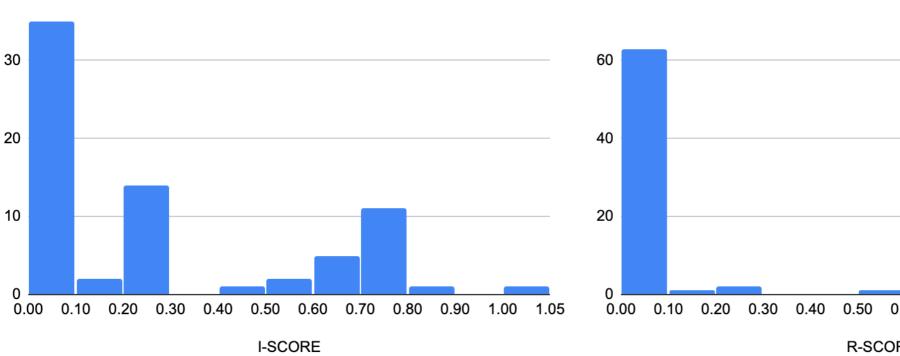
FAIR

100 repositories, 72 evaluated

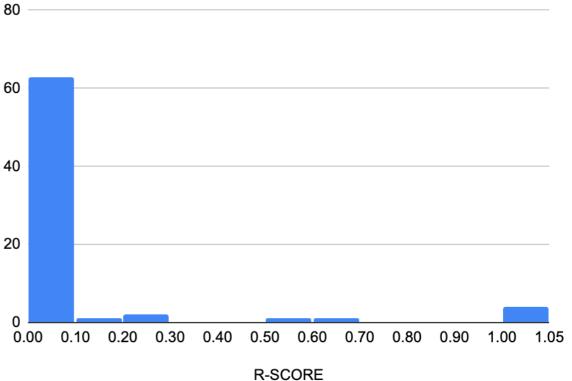




40



Histogram of R-SCORE



Disclaimer: PRELIMINARY RESULTS

Coming tasks









M4M events to support community FAIRification process

Certification support for repositories that wish to go this route

FAIR data standards and semantic attributes

FAIR incentives and stakeholder liaising

Recommendations

- All datasets should be identified by a globally unique identifier (GUID), preferably a persistent identifier (PID)
- Repositories should register on <u>re3data.org</u> to increase discoverability
- Employ the concept of FAIR digital object for published datasets (cf. "Metdata Identifier Explicitly in Metadata" and "Data Identifier Explicitly in Metadata")
- State under what license agreement the dataset is provided, using one of the standard "license" predicates/keys



The End