

EOSC-Nordic WP4 FAIR assessments & preliminary results

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(NeIC, WP4 lead)

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It's all about FAIR...



What is a dataset?

Community Health Workers and Mobile Technology: A Systematic Review of the Literature

Rebecca Braun , Caricia Catalani, Julian Wimbush, Dennis IsraelskiPublished: June 12, 2013 <https://doi.org/10.1371/journal.pone.0065772>

Article Authors Metrics Comments Media Coverage

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Abstract

Introduction

Methods

Results

Discussion

Supporting Information

Acknowledgments

Author Contributions

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Reader Comments (0)

Media Coverage (1)

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Abstract

Introduction

In low-resource settings, community health workers are frontline providers who shoulder the health service delivery burden. Increasingly, mobile technologies are developed, tested, and deployed with community health workers to facilitate tasks and improve outcomes. We reviewed the evidence for the use of mobile technology by community health workers to identify opportunities and challenges for strengthening health systems in resource-constrained settings.

Methods

We 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.

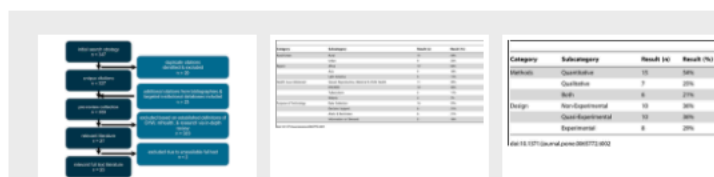
Results

Community health workers have 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 education and training, and programmatic leadership and management practices. Those studies that evaluated program outcomes provided some evidence that mobile tools help community health workers to improve the quality of care provided, efficiency of services, and capacity for program monitoring.

Discussion

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.

Figures

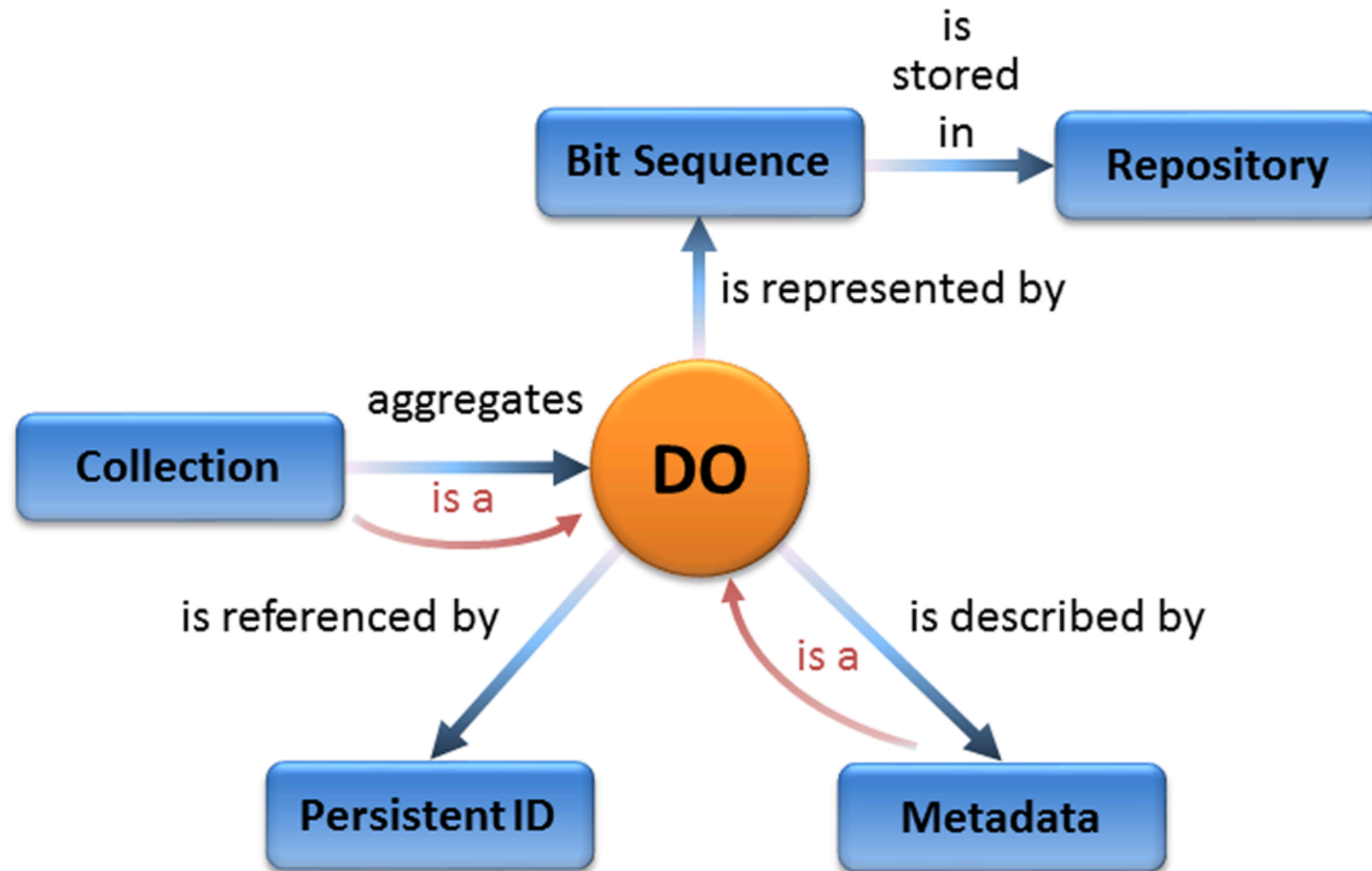


For Humans

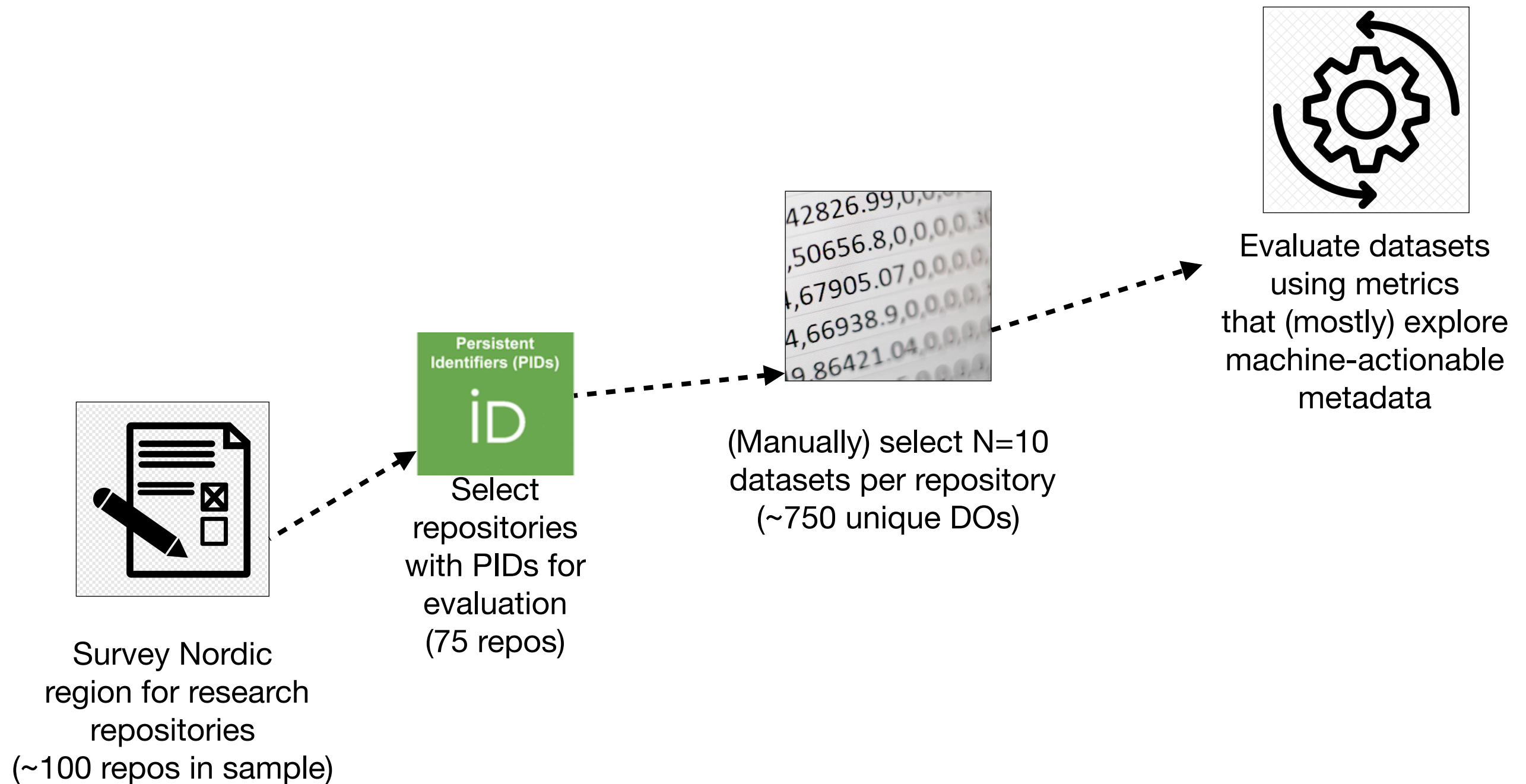
For Machines

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FAIR Digital Objects

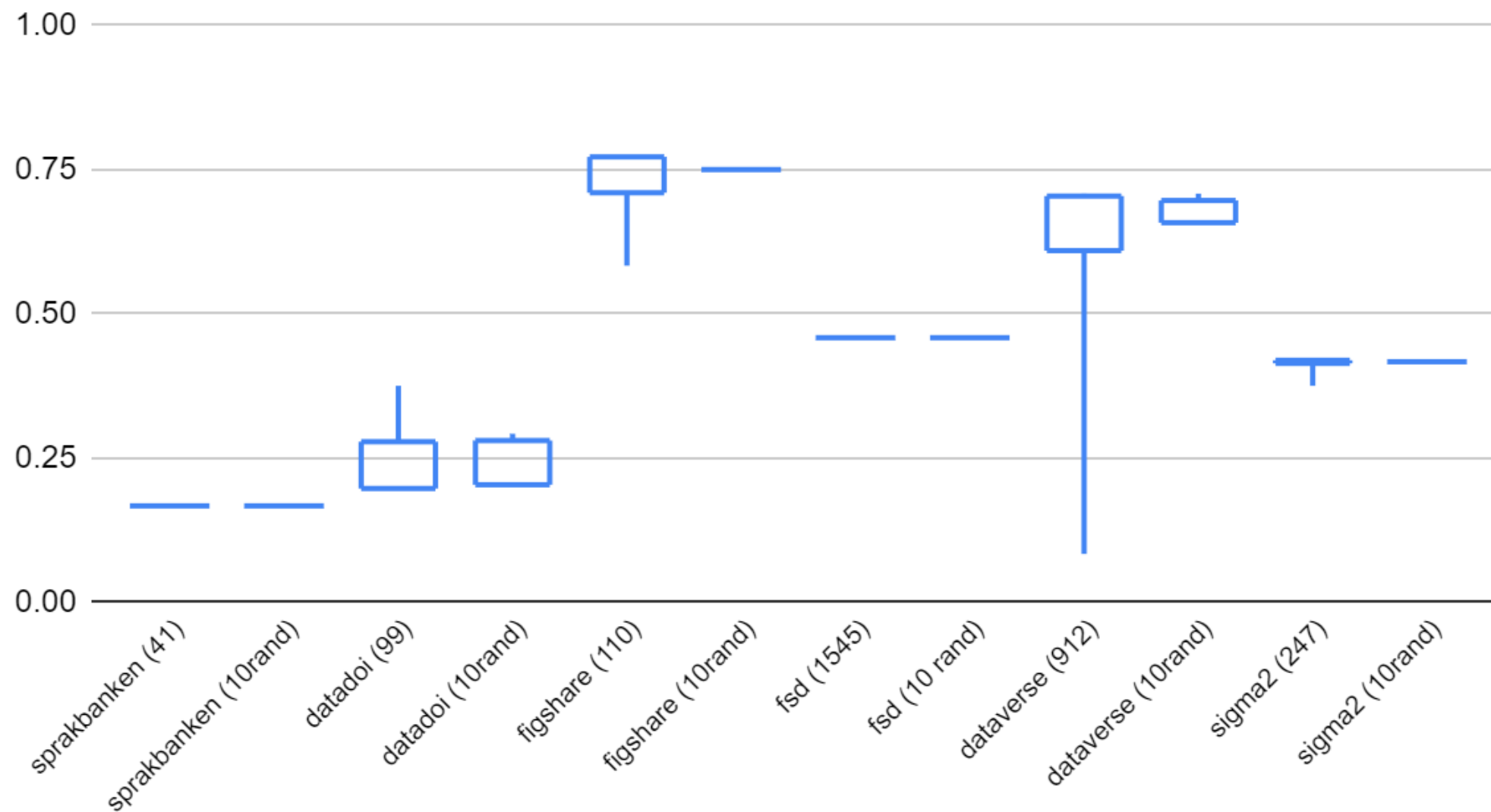


Our semi-automated FAIR- assessment approach



N=10 approximation test

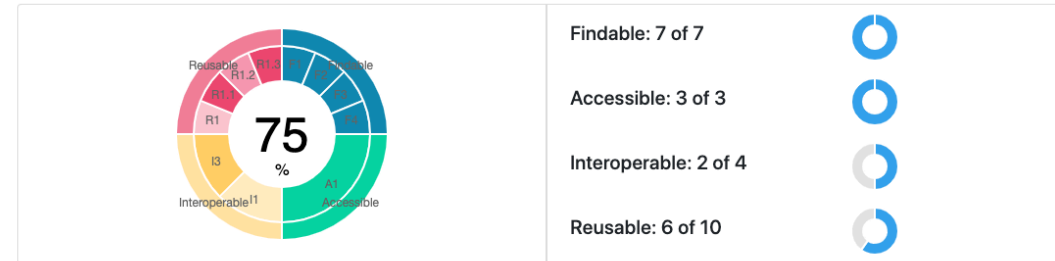
FAIR score



Our goal is to guide communities based on FAIR assessments of their data repository and hope this leads them to take action and FAIRify there datasets/repository






Disclaimer: The test results shown here are based on preliminary data and code which still is under development. F-UJI is rapidly evolving and not yet available in a productive environment.

Summary:






Report:




Findable

- FsF-F1-01D - Data is assigned a globally unique identifier. 
- FsF-F1-02D - Data is assigned a persistent identifier. 
- FsF-F2-01M - Metadata includes descriptive core elements (creator, title, data identifier, publisher, publication date, summary and keywords) to support data findability. 
- FsF-F3-01M - Metadata includes the identifier of the data it describes. 
- FsF-F4-01M - Metadata is offered in such a way that it can be retrieved programmatically. 






Accessible

- FsF-A1-01M - Metadata contains access level and access conditions of the data. 
- FsF-A1-03D - Data is accessible through a standardized communication protocol. 
- FsF-A1-02M - Metadata is accessible through a standardized communication protocol. 

Interoperable

- FsF-I1-01M - Metadata is represented using a formal knowledge representation language. 
- FsF-I1-02M - Metadata uses semantic resources 
- FsF-I3-01M - Metadata includes links between the data and its related entities. 

Reusable

- FsF-R1-01MD - Metadata specifies the content of the data. 
- FsF-R1.1-01M - Metadata includes license information under which data can be reused. 
- FsF-R1.2-01M - Metadata includes provenance information about data creation or generation. 
- FsF-R1.3-01M - Metadata follows a standard recommended by the target research community of the data. 
- FsF-R1.3-02D - Data is available in a file format recommended by the target research community. 



docs.google.com/spreadsheets/d/1irMqPJSrUCeULLnfb654QqCh0MxiN4Lj002rXBak-U/edit#gid=1813595792																
FAIR evaluation production (F-UJI)																
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1		datasetID	Evaluati on link	Evaluatio	F-score (7)	A-score (3)	I-score (4)	R-score (9)	FAIR score	Succeded tests / Total tests	Status	Analyze start time	Analyze end time	Total time for analyzing	Run script?	
607	19	http://eed.nsd.uib.no/webview/velocity?v=2&mode=cube&cube=http%3A%2F%2F129.177.90.166%3A80%2Fobj%2FfCube%2FFIEP2004%21Display_C1&study=http%3A%2F%2F129.177.90.166%3A80%2Fobj%2FfStudy%2FFIEP2004%21Display			14.29%	0.00%	0.00%	0.00%	4.35%	(1:23)	Ready	23-Nov-2020, 15:34:58	23-Nov-2020, 15:35:01	0:00:03		
608	19	http://eed.nsd.uib.no/webview/velocity?v=2&mode=cube&cube=http%3A%2F%2F129.177.90.166%3A80%2Fobj%2FfCube%2FDEPA2009%21I%21Display_C1&study=http%3A%2F%2F129.177.90.166%3A80%2Fobj%2FfStudy%2FDEPA2009%21I%21Display			14.29%	0.00%	0.00%	0.00%	4.35%	(1:23)	Ready	23-Nov-2020, 15:35:07	23-Nov-2020, 15:35:11	0:00:04		
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611	19	http://eed.nsd.uib.no/webview/velocity?v=2&mode=cube&cube=http%3A%2F%2F129.177.90.166%3A80%2Fobj%2FfCube%2FNOREF1994%21Display_C1&study=http%3A%2F%2F129.177.90.166%3A80%2Fobj%2FfStudy%2FNOREF1994%21Display			14.29%	0.00%	0.00%	0.00%	4.35%	(1:23)	Ready	23-Nov-2020, 15:35:56	23-Nov-2020, 15:36:00	0:00:03		
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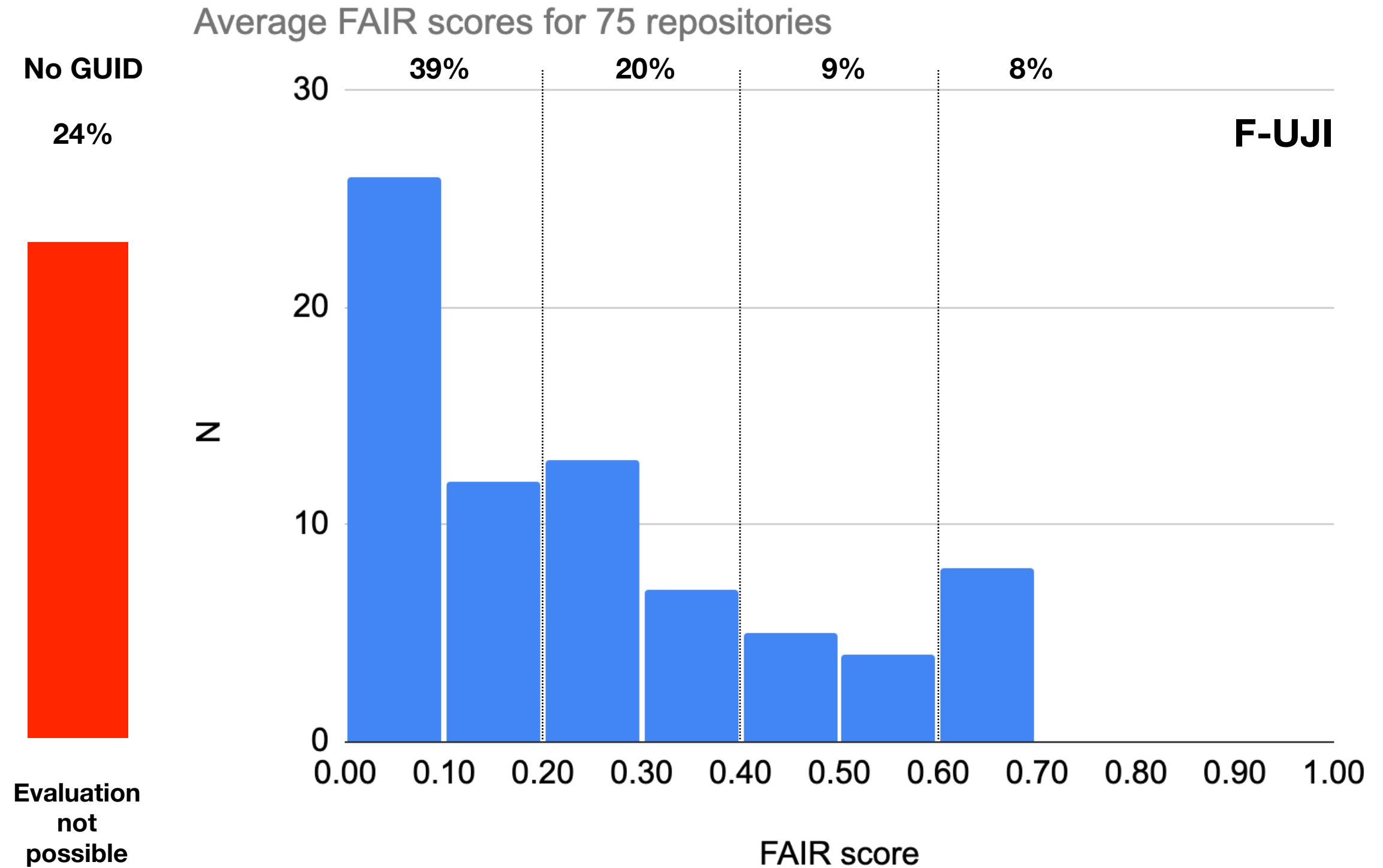
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Expose the results to repos/communities, so that they can use the feedback from the tool as a guideline to improve their FAIRness

F-UJI evaluator (latest)															
repoID	Name	Date	Platform	F-score	A-score	I-score	R-score	FAIR	Sigma	ilgma (F)	ilgma (A)	ilgma (I)	ilgma (R)		
2	CLARIN-DK	40	Dspace	50.00%	66.67%	9.72%	22.22%	34.30%	0.036	0.072	0.000	0.124	0.000	X	X
3	DDA	20		57.14%	33.33%	50.00%	33.33%	43.48%	0.073	0.293	0.000	0.000	0.000		
4	Det Kgl. bibliotek	20		30.00%	13.33%	5.00%	7.22%	14.57%	0.118	0.307	0.294	0.131	0.154		
6	Kielipankki	10	META-SHARE	14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000	X	X
7	Data Service Portal Aila	10		71.43%	66.67%	25.00%	33.33%	47.83%	0.000	0.000	0.000	0.000	0.000		
8	Fairdata IDA	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
9	NMBU dataverseNO	16	Dataverse	85.72%	66.67%	37.50%	43.05%	58.15%	0.050	0.148	0.000	0.129	0.038		
10	NSD	20	NESSTAR	37.86%	13.33%	0.00%	8.89%	16.74%	0.087	0.283	0.168	0.000	0.112	X	
11	HUNT Databank	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
13	CLARINO Bergen Center repc	20	Dspace	30.00%	20.00%	7.50%	6.67%	15.65%	0.096	0.153	0.313	0.118	0.104	X	X
16	Språkbanken	10		14.29%	33.33%	0.00%	22.22%	17.39%	0.000	0.000	0.000	0.000	0.000		
17	ESS Data	9		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
18	TROLLing	22	Dataverse	75.00%	56.67%	27.50%	35.55%	48.91%	0.103	0.240	0.244	0.160	0.160	X	
19	EED	12	Nesstar	14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
20	UiT Open Research Data Dat	20	Dataverse	85.72%	66.67%	32.50%	44.44%	57.83%	0.047	0.147	0.000	0.118	0.000		
24	Språkbanken	13		17.59%	0.00%	0.00%	0.00%	5.35%	0.016	0.063	0.000	0.000	0.000	X	X
25	Lund University Humanities	20		21.43%	0.00%	0.00%	0.00%	6.52%	0.018	0.073	0.000	0.000	0.000		
26	su.figshare.com	20	Figshare	51.43%	45.00%	10.00%	29.44%	34.78%	0.098	0.287	0.196	0.126	0.136		
27	SND	20		64.29%	50.00%	42.50%	38.89%	48.69%	0.077	0.220	0.171	0.118	0.057	X	
28	ICES data portals	8		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
29	JASPAR	10		14.29%	33.33%	0.00%	11.11%	13.04%	0.000	0.000	0.000	0.000	0.000		
30	STRING	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
32	GBIF	22	IPT	59.74%	66.67%	25.00%	38.89%	46.44%	0.047	0.180	0.000	0.000	0.057		X
39	HPA	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
41	Fishbase	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
45	ISIG	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
47	GERDA	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
49	ACTRIS	8		46.43%	33.34%	12.50%	16.67%	27.17%	0.139	0.312	0.356	0.231	0.178		
52	NPDC	20		37.86%	35.00%	13.75%	17.22%	25.22%	0.127	0.259	0.366	0.151	0.178		
54	Bolin Centre Database	12		61.90%	33.33%	25.00%	22.22%	36.23%	0.028	0.111	0.000	0.000	0.000		
55	SMHI open data	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
57	NIRD Archive	20		44.29%	20.00%	0.00%	11.11%	20.43%	0.093	0.311	0.168	0.000	0.114		
60	GTN-P Database	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
62	UNITE	20		35.72%	33.34%	6.25%	16.67%	22.83%	0.114	0.220	0.342	0.111	0.171		
63	Estonian Biocentre Public	10		14.29%	33.33%	0.00%	22.22%	17.39%	0.000	0.000	0.000	0.000	0.000		
64	DataDOI	18		61.90%	62.97%	2.78%	27.78%	38.40%	0.068	0.208	0.108	0.081	0.116		
65	CELR META-SHARE	20		35.72%	33.33%	0.00%	5.56%	17.39%	0.057	0.220	0.000	0.000	0.057	X	X
66	AHEAD	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
68	USN RDA	10	Figshare	28.57%	33.33%	0.00%	22.22%	21.74%	0.000	0.000	0.000	0.000	0.000		
71	LOAR	19		61.65%	63.16%	2.63%	26.31%	37.76%	0.077	0.243	0.153	0.079	0.085		
72	AIDA Data Hub	20		65.71%	43.33%	23.75%	30.00%	41.52%	0.080	0.188	0.219	0.099	0.103		
73	QoG Institute's data	10		31.43%	10.00%	0.00%	6.67%	13.48%	0.084	0.276	0.161	0.000	0.107		
76	JYX	20		35.72%	33.34%	1.25%	11.11%	19.78%	0.093	0.073	0.342	0.056	0.114		
78	B2SHARE	12	Invenio	38.10%	27.78%	0.00%	13.89%	20.65%	0.118	0.275	0.343	0.000	0.172		
79	DH	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
80	NLL	10		25.71%	53.34%	40.00%	35.55%	35.65%	0.101	0.060	0.281	0.211	0.187		
84	RTU RIS	10		14.29%	0.00%	25.00%	11.11%	13.04%	0.000	0.000	0.000	0.000	0.000		
85	FinBIF	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
87	SARV	10		14.29%	33.33%	0.00%	11.11%	13.04%	0.000	0.000	0.000	0.000	0.000		
92	SSRI	15		42.86%	26.67%	0.00%	13.33%	21.74%	0.131	0.362	0.338	0.000	0.169		
94	IINH	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
100	QsarDB	20		35.72%	30.00%	11.25%	15.55%	22.83%	0.110	0.220	0.323	0.128	0.163		
104	Bird	20		30.00%	40.00%	0.00%	6.67%	16.96%	0.074	0.222	0.137	0.000	0.137		
106	Migration Institute of Fin	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
108	Musiikkiarkisto	4	CKAN	28.57%	66.67%	50.00%	50.00%	45.65%	0.016	0.000	0.000	0.000	0.064		
109	SLS	14		14.29%	23.81%	0.00%	7.94%	10.56%	0.041	0.000	0.156	0.000	0.052		
113	SweFreq	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
114	Metabolic Atlas	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
115	SEAD	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
116	NOW	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
117	SNM Digital Assets	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
120	GEUS	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
123	LARM	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
127	Garamantas	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
129	MMB	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
130	PlutoF	20		35.72%	31.67%	3.75%	16.11%	21.96%	0.111	0.220	0.333	0.092	0.167		
131	MIDAS	10		14.29%	0.00%	0.00%	0.00%	4.35%	0.000	0.000	0.000	0.000	0.000		
132	NMDC	20	Dataverse	85.72%	66.67%	32.50%	35.55%	54.35%	0.048	0.147	0.000	0.118	0.046		
133	IINH BIOTA	10		14.29%	33.33%	0.00%	22.22%	17.39%	0.000	0.000	0.000	0.000	0.000		
134	ICOS	20		21.43%	0.00%	0.00%	0.00%	6.52%	0.018	0.073	0.000	0.000	0.000		
135	CESSDA DC	14		34.70%	19.05%	14.29%	12.70%	20.50%	0.139	0.335	0.313	0.234	0.208		
136	DTU data	10	figshare	28.57%	33.33%	0.00%	22.22%	21.74%	0.000	0.000	0.000	0.000	0.000		
137	CLARIN IS	20	CLARIN	50.00%	63.34%	21.25%	22.22%	35.87%	0.039	0.073	0.103	0.092	0.000		
138															

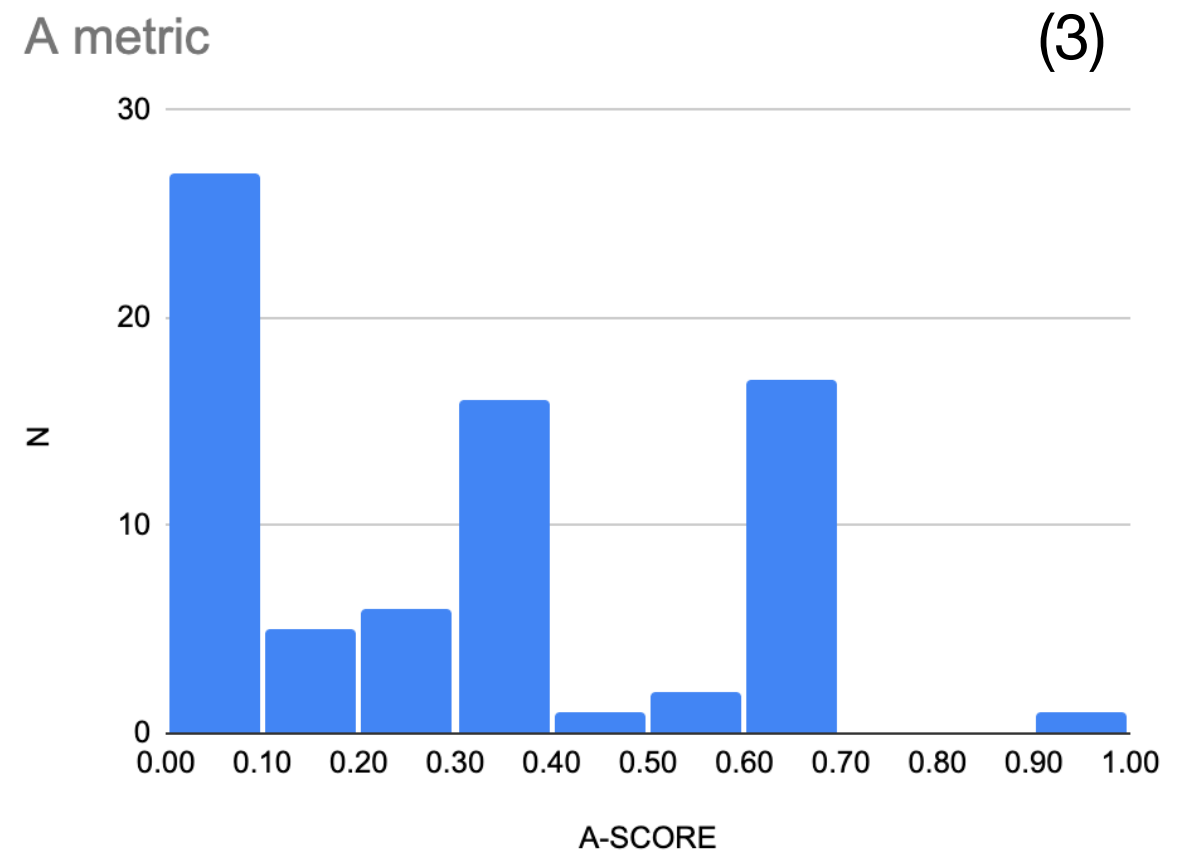
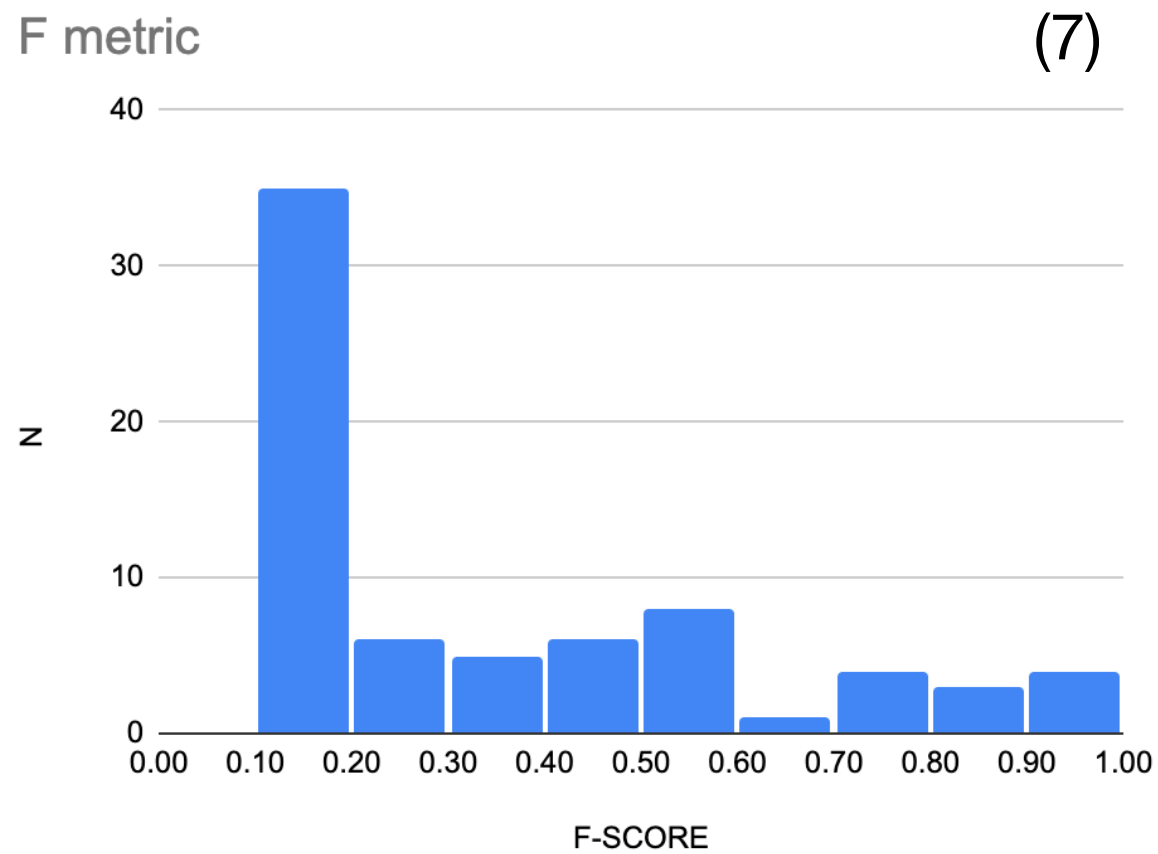


FAIR uptake

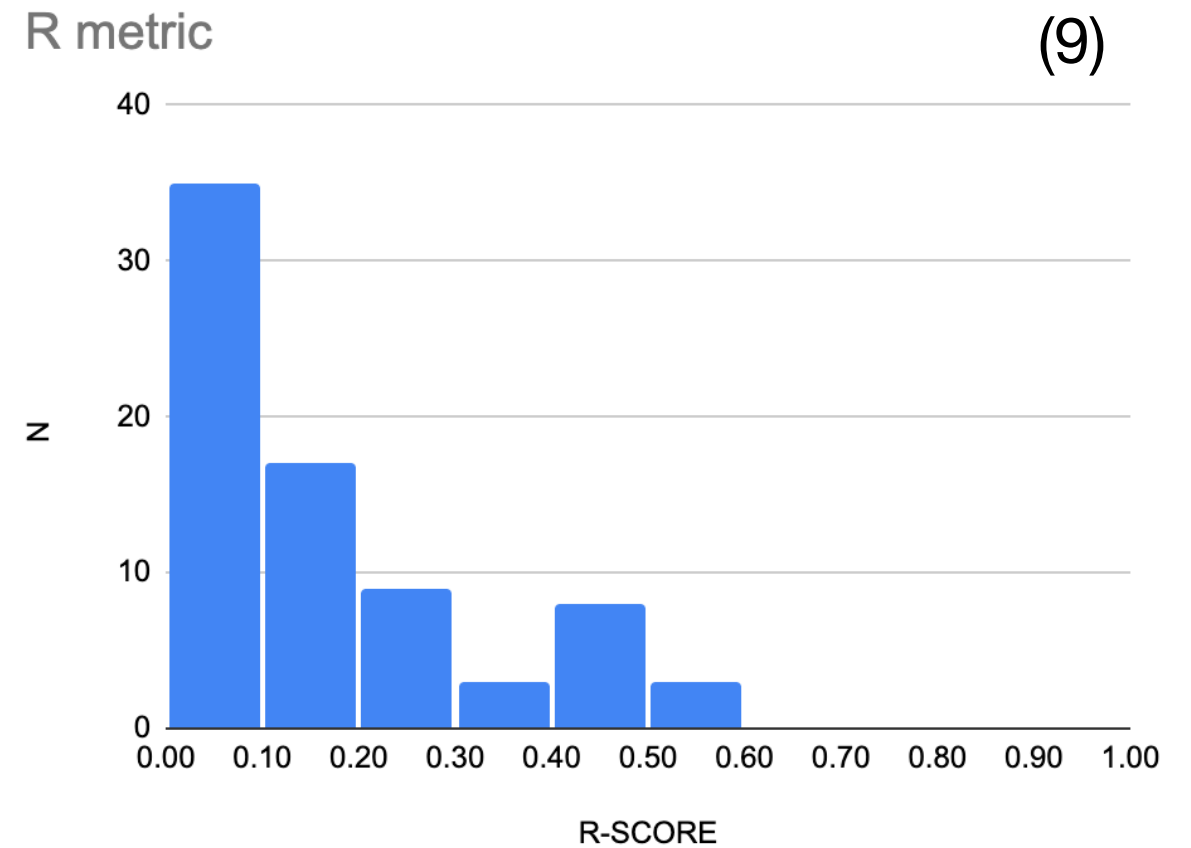
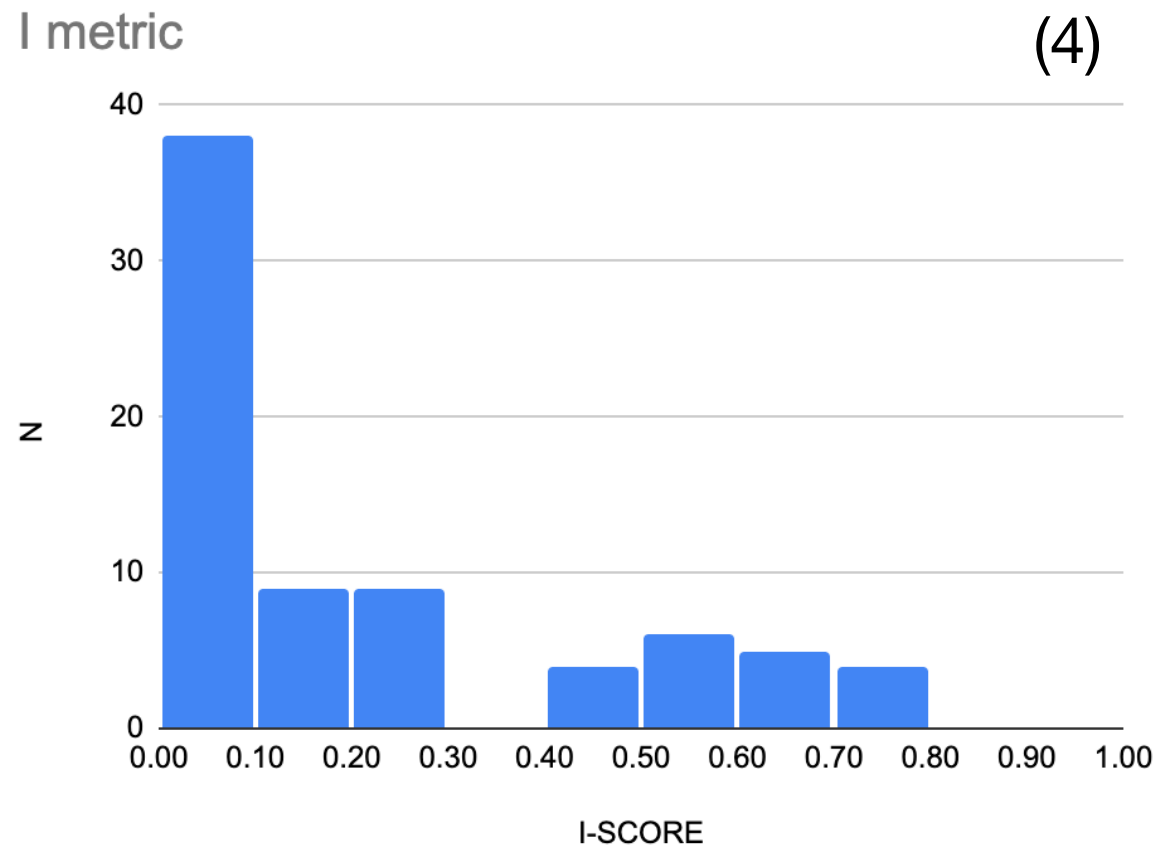


Evaluation
not
possible

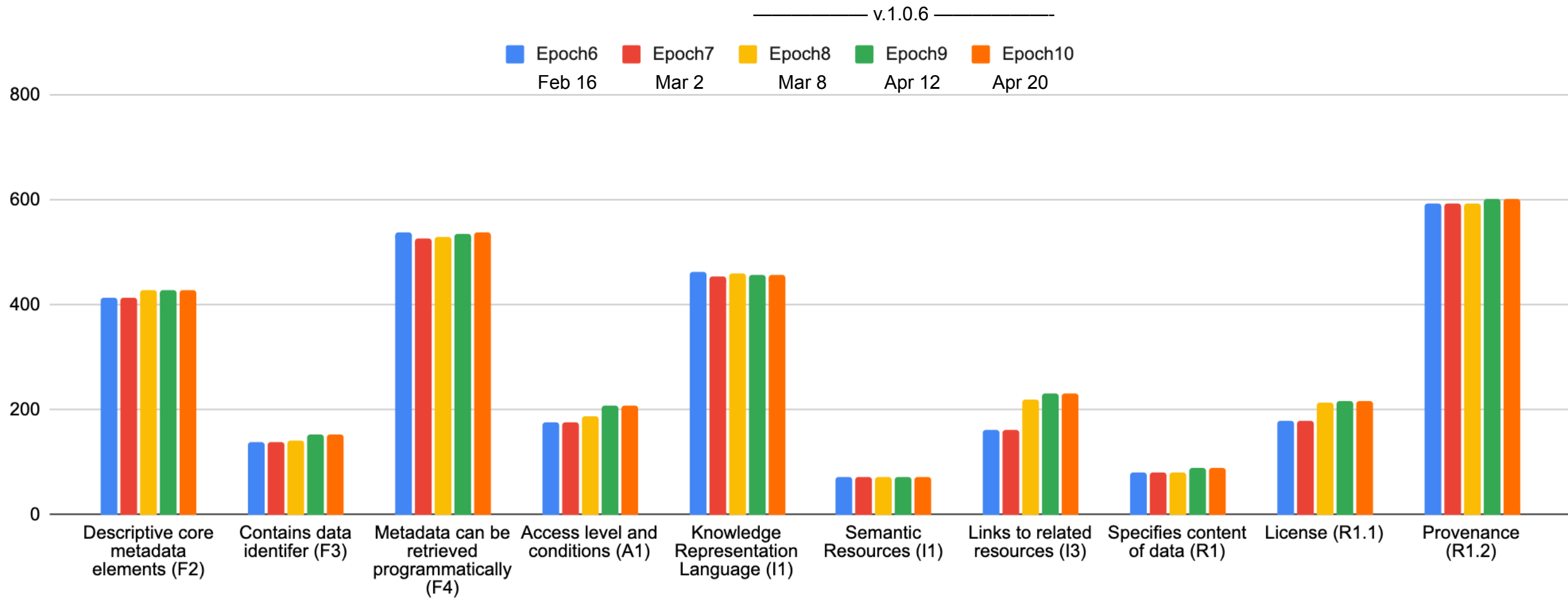
98 repositories (75 evaluated)



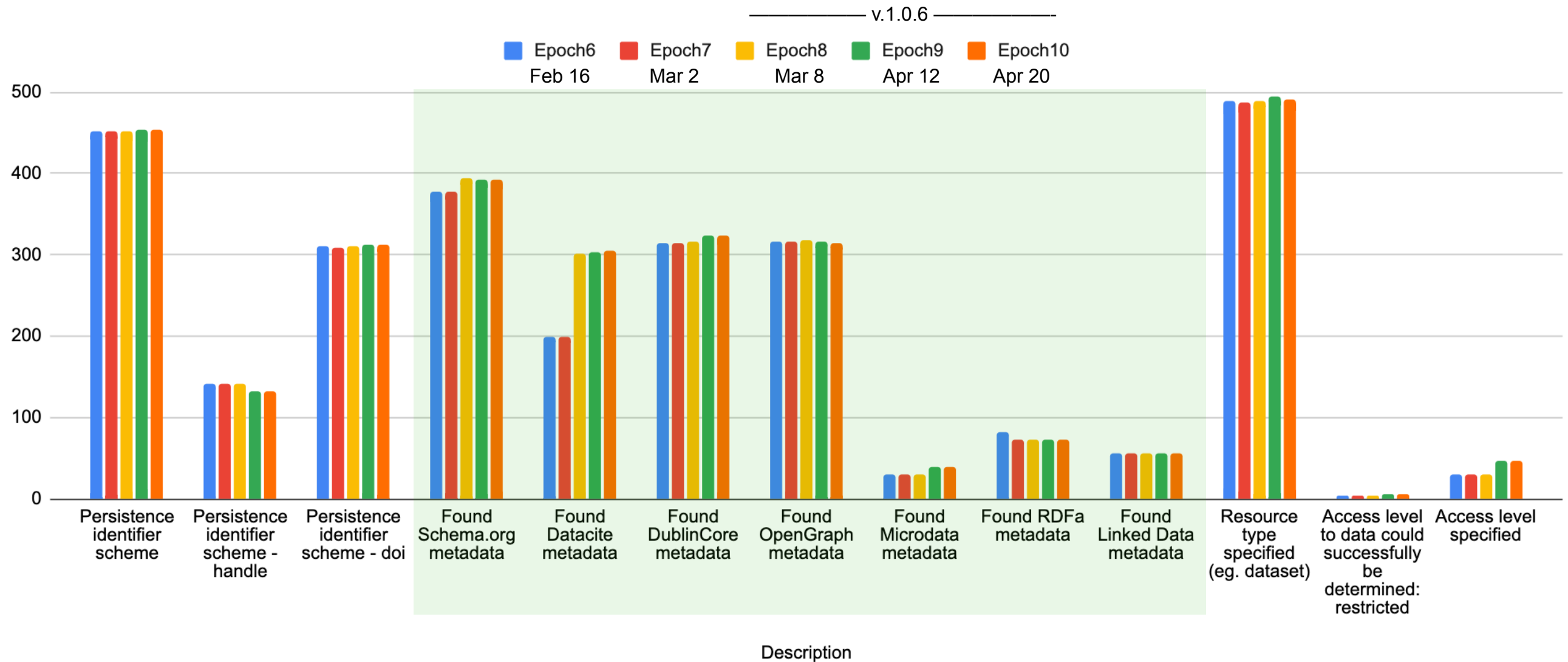
Evaluated using F-UJI



Assessment tests

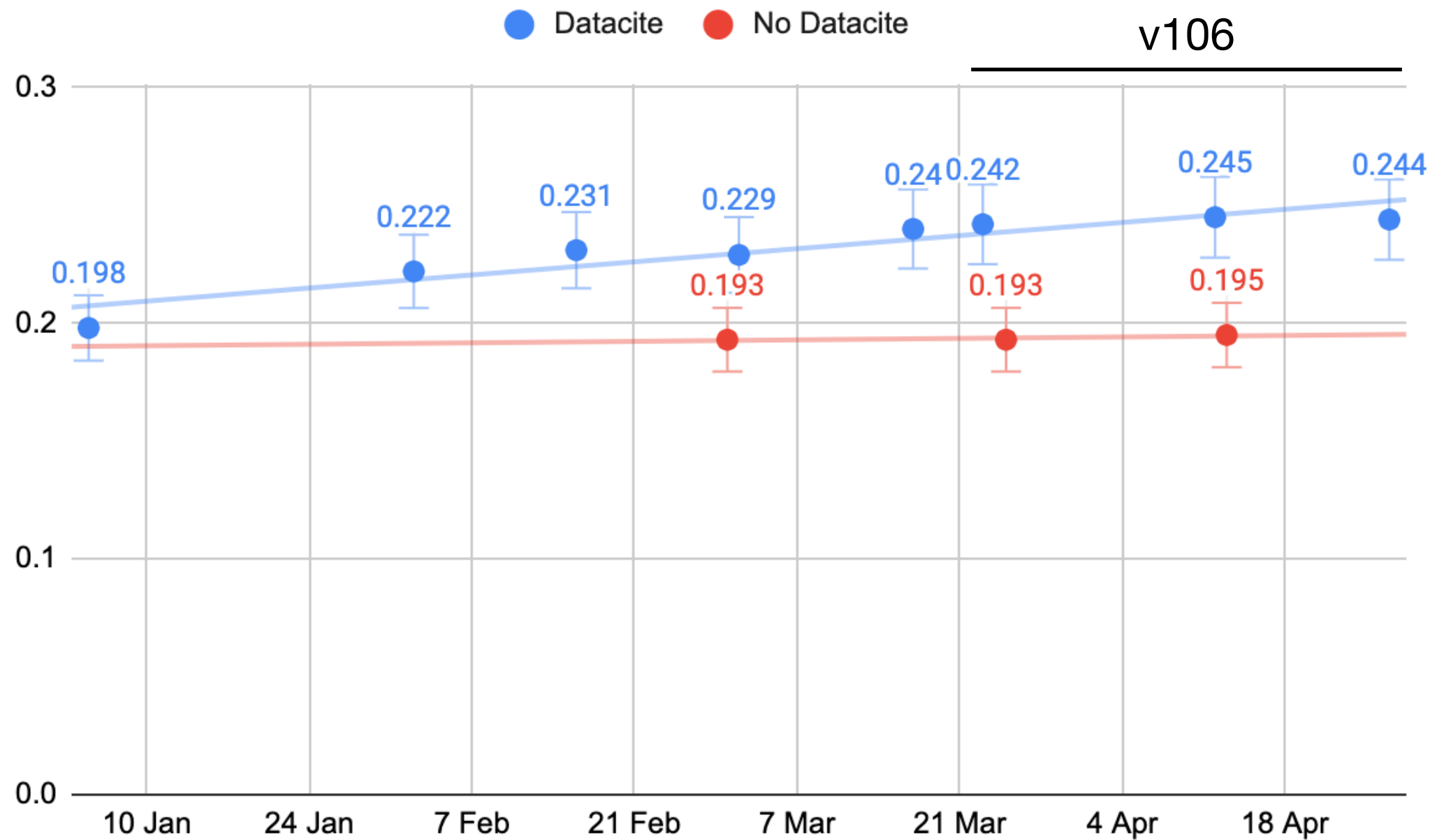


Misc assessment output



**A look at the temporal
evolution of the FAIR scores
(aka FAIR uptake)**

FAIR score evolution



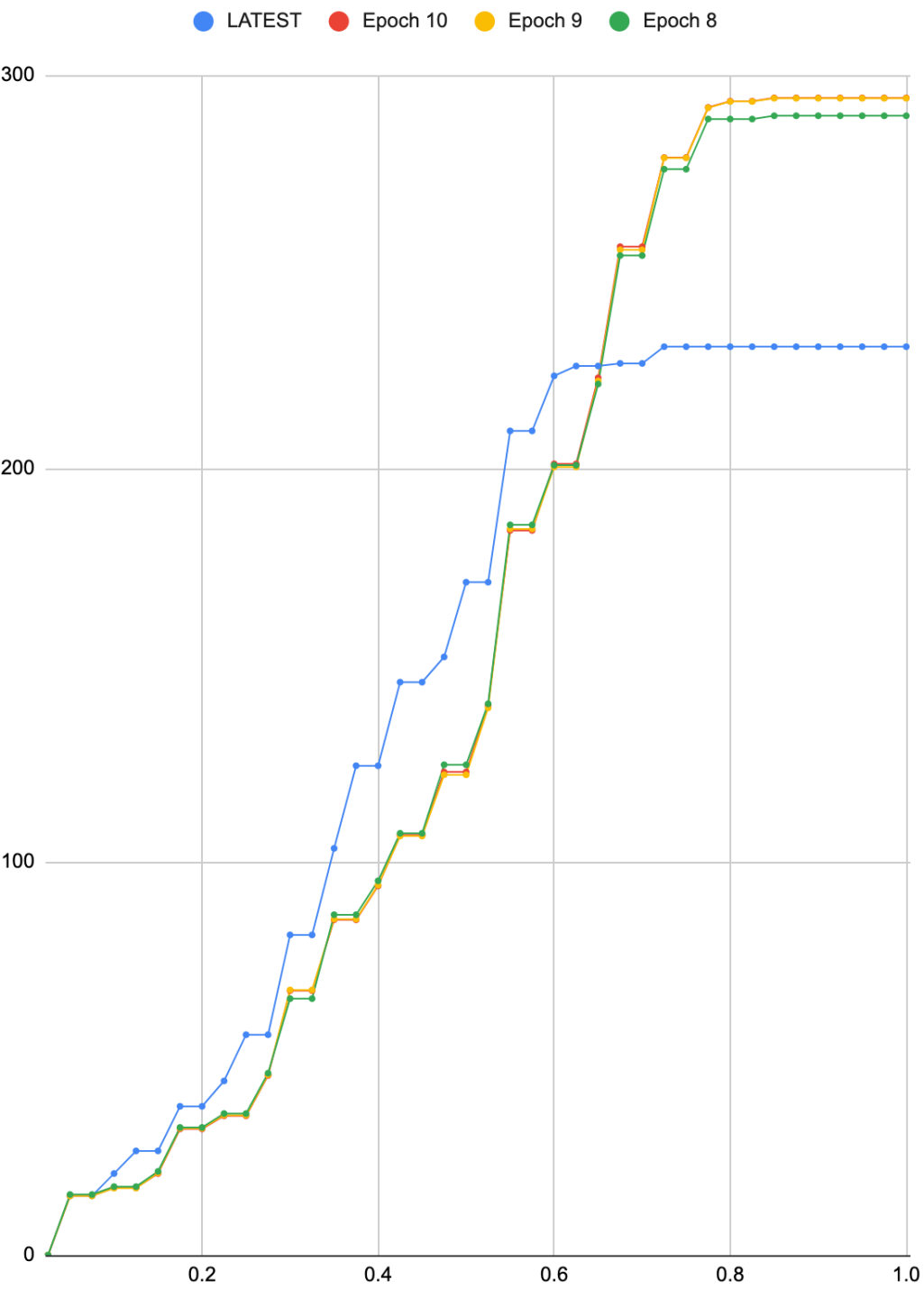
Parameters that influence the FAIR score

- Software and/or metric changes influence the results
- Individual datasets (DOs) assessments may fluctuate (due to intrinsic changes in metadata/repository)
- URL deprecation is a problem (currently; 24 out of 1040 GUIDs do not resolve – 404 error)

FAIR score analysis

Bins	LATEST	Epoch 10	Epoch 9	Epoch 8
0.025	0	0	0	0
0.05	2.4186	15.1371	15.0537	15.429
0.075	2.4186	15.1371	15.0537	15.429
0.1	2.4186	17.1363	17.0529	17.4282
0.125	2.4186	17.1363	17.0529	17.4282
0.15	2.4186	20.7613	20.9279	21.3032
0.175	5.2525	32.0969	32.2635	32.4721
0.2	5.2525	32.0969	32.2635	32.4721
0.225	5.2525	35.4297	35.5963	36.0132
0.25	6.0025	35.4297	35.5963	36.0132
0.275	6.0025	45.6797	45.8463	46.2632
0.3	10.0863	67.2655	67.4321	65.2237
0.325	10.0863	67.2655	67.4321	65.2237
0.35	15.4191	85.2637	85.4303	86.5549
0.375	15.7941	85.2637	85.4303	86.5549
0.4	15.7941	93.8887	94.0553	95.1799
0.425	24.1281	106.8064	106.5563	107.2642
0.45	24.1281	106.8064	106.5563	107.2642
0.475	29.6277	122.8469	122.1385	124.6796
0.5	40.1277	122.8469	122.1385	124.6796
0.525	40.1277	139.8469	139.1385	140.1796
0.55	43.9196	184.2663	184.6413	185.6824
0.575	43.9196	184.2663	184.6413	185.6824
0.6	46.8361	201.182	200.3904	200.8482
0.625	48.7111	201.182	200.3904	200.8482
0.65	48.7111	223.057	222.2654	221.4732
0.675	48.7111	256.392	255.6004	254.1415
0.7	48.7111	256.392	255.6004	254.1415
0.725	49.4194	279.0576	278.9743	276.0988
0.75	49.4194	279.0576	278.9743	276.0988
0.775	49.4194	291.8076	291.7243	288.8488
0.8	49.4194	293.391	293.3077	288.8488
0.825	49.4194	293.391	293.3077	288.8488
0.85	49.4194	294.2243	294.141	289.6821
0.875	49.4194	294.2243	294.141	289.6821
0.9	49.4194	294.2243	294.141	289.6821
0.925	49.4194	294.2243	294.141	289.6821
0.95	49.4194	294.2243	294.141	289.6821
0.975	49.4194	294.2243	294.141	289.6821
1	49.4194	294.2243	294.141	289.6821

Cumulative FAIR score



Highlights

- The majority of repositories are not very FAIR, primarily because they do not support machine-actionable metadata
- 24% of the sample cannot be evaluated due to lack of GUID
- The average score of the 75 evaluated repositories is 0.244 ± 0.007
- Repositories running on established platforms score an average of 0.42
- Repositories that are certified score an average of 0.31

The End