

ARE SWISS PUBLIC ORGANIZATIONS FOLLOWING GOOD PRACTICE STANDARDS WHEN PUBLISHING OPEN DATA? AN EMPIRICAL INVESTIGATION

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OGD PLATFORM

- Development of OGD Platform
 - Opendata.swiss created in 2016
 - Creation of OD platform \neq successful OD utilisation
- If poor data quality \blacktriangleright no use of data

Published data must be comprehensible, complete, consistent, and machine-readable (Janssen, Charalabidis et al. 2012)

- How to measure the quality of the data

10 PRINCIPLES

#1 COMPLETENESS	Resources published on OD platforms should contain all raw information and metadata defining and explaining its content.
#2 PRIMACY	Resources published on OD platforms should also include the original information released by the government.
#3 TIMELINESS	Resources should be available to the public in a timely manner.
#4 EASY ACCESS	Resources published on OD platforms should be easy to find and download.
#5 MACHINE READABLE FORMAT	Resources should be stored in a machine-readable format (i.e. processable by a computer)
#6 NON-DISCRIMINATION	Resources published on OD platforms should be accessible without having to identify oneself (e.g. login) or providing a justificatory reason.
#7 OPEN FORMAT	Resources should be usable without proprietary software.
#8 OPEN LICENSING	Resources published on OD platforms should use an open licensing model.
#9 PERMANENCE	Resources published on OD platforms should be accessible by machines and humans over time.
#10 USAGE COST	Resources should be available for free.

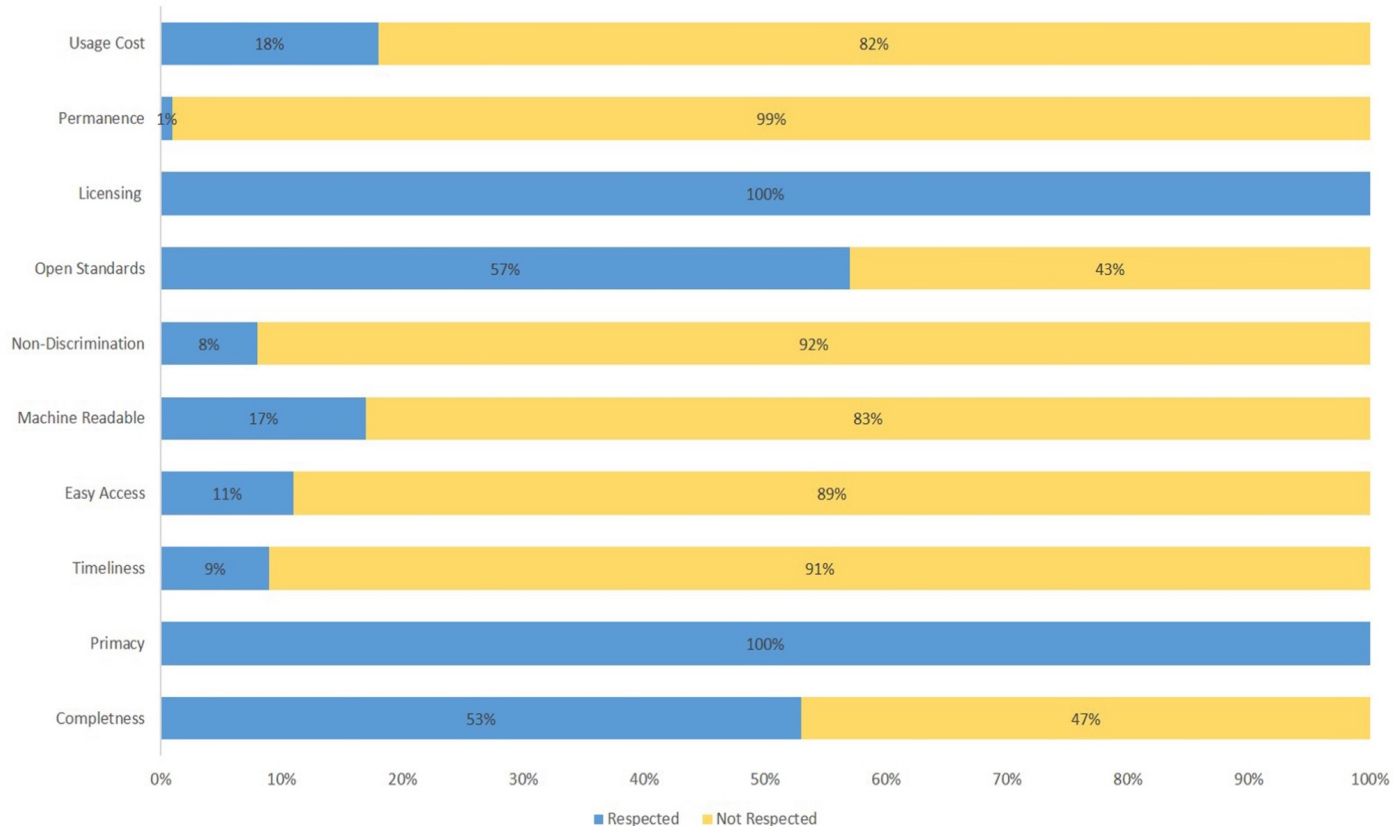
PROBLEM STATEMENT

- No solution to measure data quality
- Some aspects of the open data
 - Global Open Data Index
 - Open Data Barometer
- Compliance Index

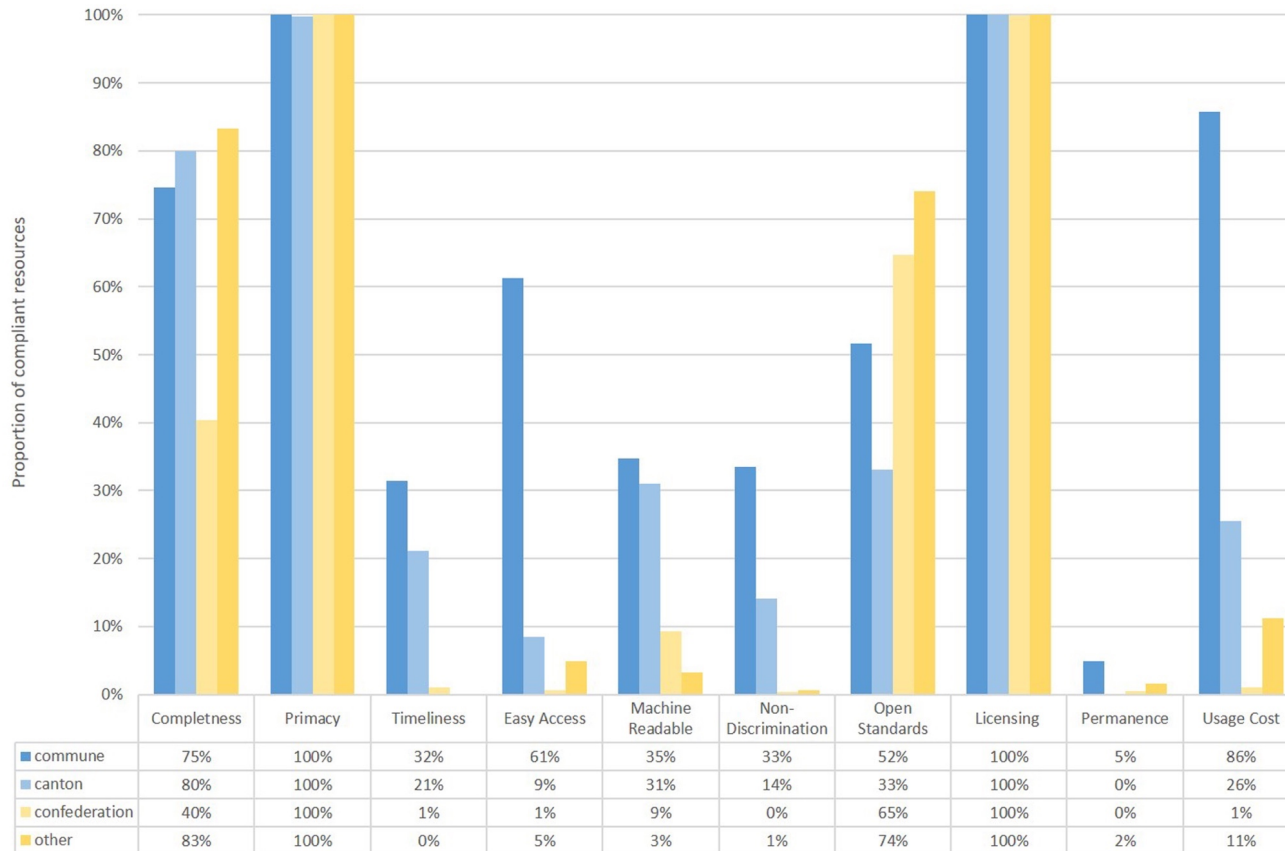
Research question

Are the Swiss public organizations following good practice standards when publishing?

ADHERENCE TO GOOD PRACTICE STANDARDS



ADHERENCE TO GOOD PRACTICE STANDARDS (2)



ADHERENCE TO GOOD PRACTICE STANDARDS (3)

Principles:	Completeness	Primacy	Timeliness	Easy Access	Machine Readable	Non-Discrimination	Open Standards	Licensing	Permanence	Usage Cost
OGD Categories:										
administration	83%	100%	4%	34%	36%	23%	53%	100%	13%	50%
agriculture	50%	100%	3%	5%	11%	4%	53%	100%	1%	6%
construction	44%	100%	8%	14%	12%	5%	47%	100%	5%	18%
crime	59%	100%	0%	0%	17%	0%	68%	100%	1%	3%
culture	64%	100%	1%	5%	14%	3%	64%	100%	4%	11%
education	27%	100%	1%	3%	6%	2%	64%	100%	1%	6%
energy	60%	99%	0%	3%	8%	2%	21%	100%	0%	8%
finances	83%	100%	54%	6%	4%	2%	20%	100%	7%	13%
geography	61%	100%	2%	22%	33%	27%	43%	100%	0%	49%
health	54%	100%	6%	4%	6%	2%	80%	100%	0%	6%
industry	21%	100%	1%	0%	5%	0%	55%	100%	1%	2%
legislation	92%	100%	0%	8%	32%	0%	56%	100%	5%	15%
mobility	68%	100%	3%	25%	10%	8%	50%	100%	0%	30%
national-economy	57%	100%	1%	14%	13%	3%	66%	100%	2%	16%
politics	84%	100%	4%	5%	39%	2%	50%	100%	3%	8%
population	34%	100%	3%	6%	9%	1%	60%	100%	0%	7%
prices	48%	100%	2%	3%	10%	2%	79%	100%	0%	9%
public-order	91%	100%	0%	1%	34%	1%	54%	100%	3%	8%
social-security	48%	100%	0%	10%	14%	7%	62%	100%	0%	16%
statistical-basis	41%	100%	1%	1%	2%	1%	91%	100%	0%	2%
territory	71%	100%	1%	17%	28%	12%	48%	100%	0%	24%
tourism	31%	100%	0%	3%	6%	3%	73%	100%	0%	10%
trade	17%	100%	0%	0%	0%	0%	58%	100%	17%	67%
work	55%	100%	3%	0%	17%	0%	68%	100%	0%	2%

INTERPRETATIONS AND CONCLUSION

- Principles are not equally implemented by data providers
- Communal organizations more compliant
- The adherence to good practice standards is rather low

FUTURE RESEARCH

- Automate the analysis
- Improve methodology
- Monitor results through the years

Q&A?



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