Open Data in Alpine Space



Assist. Lucija Brezočnik University of Maribor, Slovenia

<u>lucija.brezocnik@um.si</u>



Data is just like crude.

-- Michael Palmer

- It's valuable, but if unrefined it cannot really be used.
- It has to be changed into gas, plastic, chemicals, etc. to create a valuable entity that drives profitable activity.
- Data must be broken down and analysed for it to have value!



Who are Stakeholders?





Government



Private sector



Researchers







Multilateral organizations

What is Shared and How?





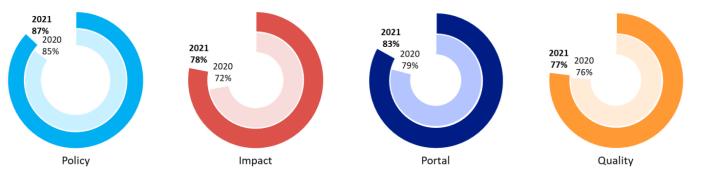
Open Data Maturity

- Initiator: European Commission
- Annual Open Data Maturity report
 - European Union member states
 - European Free Trade Association
- Main topics:
 - Open Data Policy
 - Open Data Impact
 - Open Data Portal
 - Open Data Quality

Dimension	Metrics				
Open Data Policy	Policy framework				
	Governance of open data				
	Open data implementation				
	Strategic awareness				
	Political impact				
Open Data Impact	Social impact				
	Environmental impact				
	Economic impact				
	Portal features				
Onon Data Dartal	Portal usage				
Open Data Portal	Data provision				
	Portal sustainability				
Open Data Quality	Currency				
	Monitoring and measures				
	DCAT-AP compliance				
	Deployment quality and linked data				

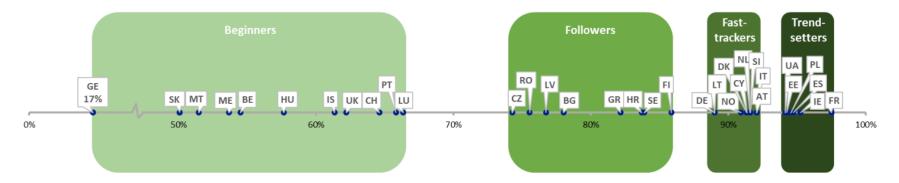
Open Data Maturity

- average maturity level of the EU27 on each of the four dimensions
 - all dimensions show an improvement
 - the most mature dimension: Policy; the least mature dimension: Quality
 - the most improved dimension: Impact
 - several new national OD portals resulted in improved Portal dimension



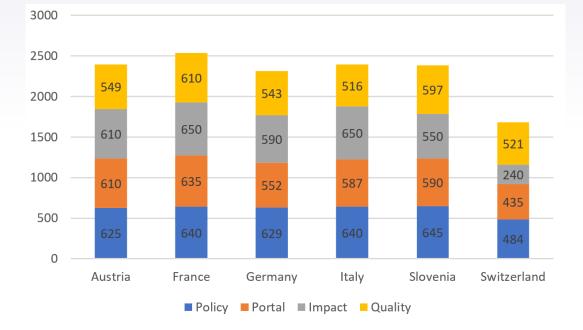
Open Data Maturity

- Open Data Maturity clusters: beginners, followers, fast-trackers, trend-setters
- Trend-setters: Estonia, France, Ireland, Poland, Spain, and Ukraine
- Fast-trackers: Austria, Germany, Italy, Slovenia
- Beginners: Switzerland, Liechtenstein



What is the Current Status?

- Maturity levels:
 - ▶ France 98%,
 - ▶ Slovenia 92%,
 - ▶ Italy 92%,
 - ▶ Austria 92%,
 - ▶ Germany 89%,
 - ▶ Switzerland 65%.
 - Liechtenstein



How to Define Recommendations?



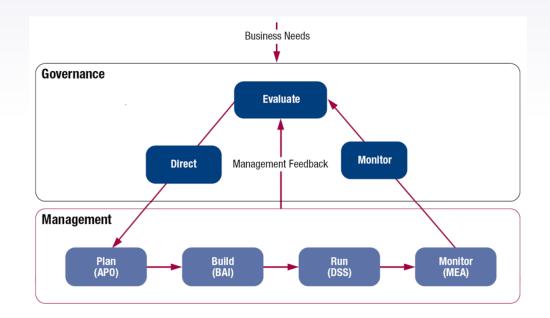


Alpine Space OD needs

OD Governance & Management

Governance on the strategic level

Management key areas



General recommendations on a strategic level

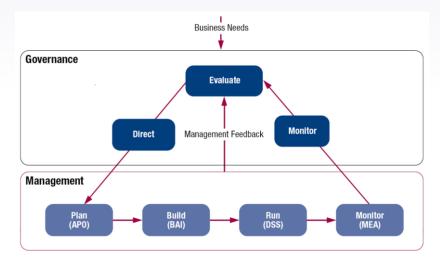
- SR1: Broaden the range of public bodies (governments, local governments, multilateral organizations, higher education institutions) actively engaged in the Open Data Initiative in the Alpine Space promoting an Open Data approach, starting from EUSALP institutions.
- SR2: Broaden the scope and improve the quality, quantity and range of Open Data and associated meta-data, as well as improve the quality and range of services provided in Alpine Space adopting common standards and methodologies.
- SR3: Promote networking to engage with all stakeholders and encourage use of Open Data, which includes civil society, governments, local governments, private sector, journalists and media, researchers, donors, and multilateral organizations.

General recommendations on a strategic level

- SR4: Support and encourage the adoption of Open Data in the Alpine Space, embedding the Open Data approach into programmes conditions and requirements for funding new projects.
- SR5: Try to define a framework tailored to Alpine Space, on how to contribute to the main topics of Alpine area, and to ensure that effective governance structures and multilateral organizations are in place to implement the Open Data Strategy in the Alpine Space.
- SR6: Monitor and evaluate the impact, benefits, and risks of the Open Data Initiative in the Alpine Space and benchmark against other MRS (Macro-Regional Strategies).

Open Data Management

- Align, Plan and Organize (APO) addresses the overall organization, strategy and supporting activities for I&T.
- Build, Acquire and Implement (BAI) treats the definition, acquisition and implementation of I&T solutions and their integration in business processes.
- Deliver, Service and Support (DSS) addresses the operational delivery and support of I&T services, including security.
- Monitor, Evaluate and Assess (MEA) addresses performance monitoring and conformance of I&T with internal performance targets, internal control objectives and external requirements.



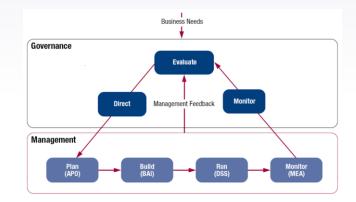


Open data stakeholders in Alpine Space **Civil society** Private sector Government, Local governmer* Demand നെ @ സ Open data Researchers Multilateral Donors and organizations Journalists investors and media (ODRx)

Strategic recommendations for open data (SR) Support Open data recommendations Aligned with Aligned with Open data maturity IT Governance systems domains report Impact Quality Policy Portal MEA APO BAI DSS

Recommendations Summary

- 6 Strategic Open Data Recommendations (SRs)
- 46 Open Data Recommendations (ODRs):
 - 13 ODRs in the APO domain,
 - 210DRs in the BAI domain,
 - 6 ODRs in the DSS domain, and
 - 6 ODRs in the MEA domain.



ODRs colored by the same colors as defined in the Maturity Level report:



Align, Plan, Organize ODRs

ODR1 Develop a dedicated strategy exclusively focusing on open data
ODR2 Define concrete action plans with measurable KPIs
ODR3 Apply measures to incentivise the publication of and access to real-time data
ODR4 Incentivise the re-use of OD by the public and private sector
ODR5 Set up open data ambassadors
ODR6 Elect Chief Data Officers and Open Data Officers
ODR7 Define data publication plans and related monitoring mechanisms
ODR8 Enhance harvesting from local and regional portals

ODR9 Provide an official definition of an open data impact (in strategy documents) **ODR10** Use OD to raise awareness on the different sustainable mobility offers **ODR11** Use open data for economic benefits of public administrations

ODR12 Motivate data publishers to make their data discoverable via the national portal **ODR13** Define ways to attract new visitors and engage existing ones

OD Impact

OD Portal

SRs matched with the APO ODRs

ODR1 Develop a dedicated strategy exclusively focusing on open data

		SR1	SR2	SR3	SR4	SR5	SR6
	ODR1				Х	Х	
	ODR2				Х	Х	
	ODR3						Х
OD	ODR4	Х			Х		
POLICY	ODR5	Х		Х			
	ODR6	Х		Х			
	ODR7				Х		Х
	ODR8		Х				
00	ODR9					Х	
OD IN ADACT	ODR10		Х				
IMPACT	ODR11			Х	Х		
OD PORTAL	ODR12	Х					
	ODR13	Х				Х	
					↓		

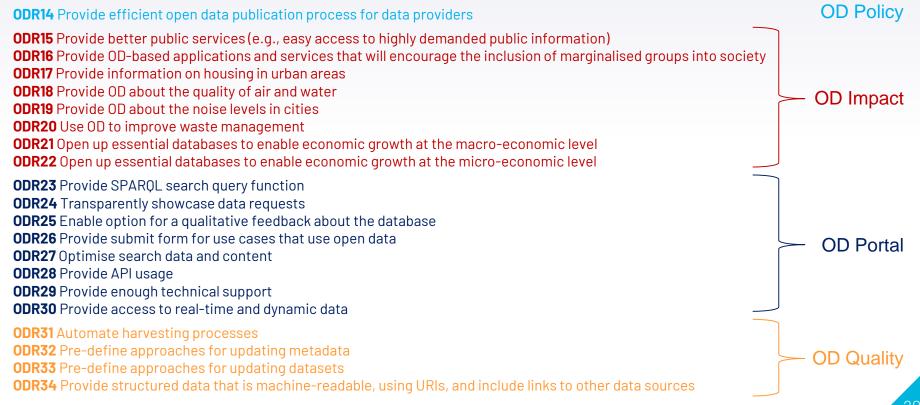
SR4: Support and encourage the adoption of Open Data in the Alpine Space...

SR5: Define a framework tailored to Alpine Space...

ODR examples

- ODR1 Develop a dedicated strategy exclusively focusing on open data:
 - In Germany, the national OD policy for the federal level has been part of the national EGovernment act. In Feb 2021, the federal government adopted a Second OD Act and a Data Use Act (corresponding to the transposition of the OD Directive into national law).
 - In Slovenia, the OD policy framework consists of the provisions of the Access to Public Information Act which implements the former PSI Directive.

Build, Acquire, Implement ODRs



SRs matched with the BAI ODRs

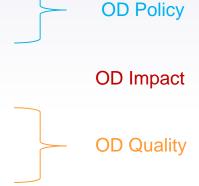
		SR1	SR2	SR3	SR4	SR5	SR6
OD POLICY	ODR14		Х				
	ODR15		Х	Х			
	ODR16		Х	Х			
	ODR17		Х	Х			
OD	ODR18		Х	Х			
IMPACT	ODR19		Х	Х			
	ODR20		Х	Х			
	ODR21		Х				
	ODR22		Х				
	ODR23		Х				
	ODR24		Х				
	ODR25		Х				
OD	ODR26		Х				
PORTAL	ODR27		Х				
	ODR28		Х				
	ODR29		Х				
	ODR30		Х				
OD QUALITY	ODR31		Х				
	ODR32		Х				
	ODR33		Х				
	ODR34		Х				

Deliver, Service, Support ODRs

ODR35 Provide guidance and assistance in the form of guidelines and guidebooks **ODR36** Conduct training activities to develop the necessary data literacy and skills to support and enable civil servants working with open data

ODR37 Increase government efficiency by publishing data under an open licence

ODR38 Publish information on the quality of the metadata **ODR39** Incentivise and assist data providers in the publication of data **ODR40** Provide data suppliers with documentation on DCAT-AP



SRs matched with the DSS ODRs

		SR1	SR2	SR3	SR4	SR5	SR6
OD POLICY	ODR35			Х	Х	Х	
	ODR36			Х			
OD IMPACT	ODR37	Х	Х		Х		
OD QUALITY	ODR38						Х
	ODR39			Х			
	ODR40		Х				

Monitor, Evaluate, Assess ODRs

ODR41 Monitor portal's usage and audience **ODR42** Regularly conduct satisfaction surveys **ODR43** Monitor portal's performance and usage

ODR44 Monitor the quality of metadata **ODR45** Investigate the most common causes for lack of DCAT-AP compliance **ODR46** Use a model to assess the quality of data deployment



SRs matched with the MEA ODRs

		SR1	SR2	SR3	SR4	SR5	SR6
OD	ODR41						Х
IMPACT	ODR42						Х
IIVIPACI	ODR43						Х
OD QUALITY	ODR44						Х
	ODR45						Х
	ODR46						Х