

theLisbonCouncil

making Europe fit for the future

10 anni di governo aperto: nuovi scenari e prospettive per l'Italia

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Intro

- Think tank based in Brussels established to support the Lisbon Agenda for Jobs and Growth focussed on digital policy, digital transformation of public administration, science education
- Involvement in projects
 - SPOTTED - Satellite oPen data fOr smarT ciTy sErVICES Development (CEF-TC-2020-2).
 - DECIDO - eviDence and Cloud for more Informed and effective pOlicies (H2020-DT-GOVERNANCE-12-2020). Role: leader of WP Conceptualization Toolbox; evaluation and impact assessment.
 - Impact Assessment study on the list of High Value Datasets to be made available by the Member States under the Open Data Directive.
 - ETAPAS - Ethical Technology Adoption in Public Administration Services Analytics (H2020-DT-TRANSFORMATIONS-02-2020).
 - ACROSS - Towards user journeys for the delivery of cross-border services ensuring data sovereignty (H2020-DT-GOVERNANCE-05-2020).
 - LETHE (λήθη) – A personalized prediction and intervention model for early detection and reduction of risk factors causing dementia, based on AI and distributed Machine Learning (H2020-SC1-DTH-2018-2020).
- Advisory board
 - Policy Cloud - Cloud for Data-Driven Policy Management (H2020-DT-GOVERNANCE-12-2019).
 - INTERLINK - Innovating goverNment and ciTizen co-dELiveRy for the digital sINgle market (H2020-DT-GOVERNANCE-05-2020).
 - FEMaLe - Finding Endometriosis using Machine Learning (H2020-SC1-DTH-2018-2020).

Collaboration in the policy lifecycle

Involvement of and communities in data generation, analysis and use within the policymaking life cycle

Co-creation of the technological solutions (e.g. analytics on cloud) with companies, municipalities, citizens and PAs

Benefits: more buy-in, generation of new ideas, new or improved processes and facilitates implementing them to create value for society



Open data for re-use

•Economic impact

- Data economy in Europe.** In that regard, data generated and made available by the project will be re-used by SMEs to develop new services and APIs, also in combination with other datasets.
- Consumer benefits.** Increase in the range of services available for citizens as well as their user-centricity due to a higher quantity of data produced.

•Public services and public administration

- Public services performance.** Open data allows public administrations other than the dataholder to better perform their tasks. E.g. Dutch municipalities were required to 'stress test' their rain water flood management, and the only way to do so was to use the open digital elevation model data (lidar).
- Evidence based policy making.** More and better data available for creating/testing policies.

•Social/democracy

- Increase public engagement and government transparency understanding.** Reporting obligations create their own demand for this data from NGO's and the general public, to make their own status assessments, in holding public service to account.
- Trust and easy access to information.** Citizens trust more the actions of the public administration if it is documented and the information is readily available.
- Environmental sustainability.** Better management of resources.

•Research and innovation

- Research.** More data available for scientists
- Innovation.** More data available for AI

Open data: HVD in Italy

Prioritisation of the importance of opening up of high value datasets in each of these thematic areas in Italy

Average of the values provided by the respondents

Prioritisation (score 0-5)						
	0	1	2	3	4	5
geospatial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
earth observation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
meteorological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
statistics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
companies/ ownership	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
mobility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Source: Impact Assessment study on the list of High Value Datasets

Case: Open Data and COVID-19

- The amount of published open data on COVID-19 has increased during the pandemic and this poses new opportunities for the development of AI
- Before the pandemic, AI had a minor presence in healthcare solutions as researchers did not always see the importance of AI or did not have the data needed to provide solutions. However, when we look towards the future it is likely that AI will play a more prominent role in healthcare
- An example is Kaggle, otherwise known as COVID-19, a machine learning and data science platform that hosts the COVID-19 Open Research Dataset.
- COVID-19 compiles relevant data and adds new research into one centralised hub. The datasets are machine readable, making it easy to break them down for AI machine learning purposes.
- As of May 2020, there are more than 128,000 scholarly articles on COVID-19, SARS, MERS, and other relevant terms. Furthermore, healthcare workers are sharing information on COVID-19 with a new sense of transparency and at speeds that have not been seen before.
- During the early stages of the outbreak in China, Alibaba, Link opens in a new window released an AI algorithm that was trained on more than 5,000 cases with the use of CT scans.
- This algorithm can diagnose patients in 20 to 30 seconds. With the new (open) health data being released by organisations such as healthcare institutions, the AI applications can provide real solutions for the future of healthcare and relieve the strain on healthcare workers.

Application cases in Italy - Milan

Objective: create a data platform to analyze and predict urban, social, and economic impacts of green transformation initiatives. The platform will serve as a practical policy-making asset, as it will provide machine learning tools to assess, plan, and develop sustainability programs

- What to do: Milan Municipality has committed to planting 3 mln trees by 2030 with ForestaMI project – pilot of SPOTTED
- How to do it: learning while building model: census of the existing green systems, mapping of the urbanized territory and most critical areas for a strategic vision on the role of urban green in the metropolitan area
- How to organize it: co-creation of the tool, provision of data
- What is the outcome: at the end of the pilot, the outcome should be a predictive tool for future sustainable cities

Application cases in Italy - Turin

Objective: improve design of emergency policies related to floods and weather alerts

- What to do: improving the civil protection policies regarding the management, preparedness and response to flood events in Meisino park – pilot of DECIDO
- How to do it: satellite data or hydro-meteorological models and data from the Regional Environmental Agency as well as data collected by citizens and volunteers, and AI to perform flood forecasts, have a clear and real time picture of the situation and store in the cloud data for further analysis and debriefing activities
- How to organize it: co-creation of the tool, provision of data: Residents and businesses will be able to actively take part during the emergency response, by describing what is happening near their premises and by indicating how they can concretely help.
- What is the outcome: model for predicting how the flood is unfolding, in order to install flood pumps and canal jets, highly reducing response time to flooding events

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Thank you for your attention.

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