

Interreg

Alpine Space



European Regional Development Fund



DEAS - Data Economy Alps Strategy

To stimulate participation, competitiveness and new business in Alpine Space

DEAS WORKSHOPS EUSALPS 04/05/2022

The potentials of Open Data & Big Data for the Alpine area



Summary

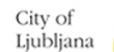
- DEAS project ambition & partners
- Transnational pilot actions:
 - Mobility
 - Tourism Culture
 - Environment
- In details API and Applications and Pitching day collaboration
- Deas Platform & Federation & tools
- Deas Strategy with EUSALP



Project Partners



Lead Partner



DEAS Partners

Italy

Veneto Region LP

Treviso and Belluno Chamber of Commerce PP

City of Vercelli PP

Consortium for the Information System PP

Germany

Bwcon GmbH PP

City of Constance PP

France

Grand E-Nov+ PP

Lyon Urban Data PP

Austria

- Styrian Business Promotion Agency PP
- Business Upper Austria – OÖ Wirtschaftsagentur Ltd. PP

Slovenia

- Technology park Ljubljana Ltd PP
- City of Ljubljana PP



Project Partners



Lead Partner



City of Ljubljana



A map of Central Europe showing the borders of Germany, Switzerland, and Italy. The map is divided into numerous regions, each labeled with its name in German or Italian. The regions are outlined in green, while the internal administrative boundaries are shown in black. The map includes labels for various German states such as Unterfranken, Oberfranken, Mittelfranken, and others. Swiss regions like St. Gallen, Thurgau, and others are also labeled. Italian regions such as Lombardia, Veneto, and Friuli Venezia Giulia are shown in the south. The map is partially cut off on the left side, with the text 'lands' and 'pine' visible.

Duration of the project : 01-10-2019 / 31-08-22

- Promote the use of open data for public services and businesses.
- Increasing the competitiveness of the Alpine region through the exploitation of open data in 3 key areas: environment, tourism & culture, mobility.
- The 12 project leaders wish to accelerate the creation of innovative and user-centred services (inhabitants, tourists, entrepreneurs) thanks in particular to :
 - A common DEAS platform aggregating structured data (OD/LOD) from partners
 - A methodology for using open data
 - Local and transnational pilots to create new services

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What is open data?

« Data of which :

- ➔ Access,
 - ➔ Exploitation,
 - ➔ Re-distribution and re-use
- are free and copyright-free

Free, yes... but under licence!

Ex. « ODbL » (international) ou « Etatlab » (french)

Minimum obligation: cite sources

Project Partners



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KONSTANZ
Die Stadt zum See



City of
Ljubljana



Ambitions and Regulation on Open Data in Europe

- **2003 "PSI Public sector Information Directive" (Directive 2003/98/EC):** legal framework to enable the re-use of public sector information, later revised by Directive 2013/37/EU. Internal market pillars: transparency and fair competition to facilitate the creation of a common data space in the EU.
- **2015 : European Data Portal** = public sector information open for re-use in the EU. training centre + success stories of European and international re-users. <https://data.europa.eu/en>
- **2018 : Digital Strategy** : become a digitally transformed, user-centred and data-driven administration by 2022 https://ec.europa.eu/info/publications/EC-Digital-Strategy_en (Nov 2018)
- 2019: EU Directive 2019/1024 on the opening up of data and the re-use of **public sector information** should be implemented by Member States by 16 July 2021. The updated rules will stimulate the development of innovative solutions such as mobility apps, increase transparency by opening up access to publicly funded research data, and support new technologies, including artificial intelligence.

<https://digital-strategy.ec.europa.eu/en/news/new-rules-open-data-and-reuse-public-sector-information-start-apply>

- **2020 : European Data Strategy**

Governance Data Act legislative framework (for non-commercial use of data) + funding capacity to create common data spaces, free circulation, EU-wide "single data market" for agriculture, industry, finance, health and public sectors, as well as transport, digital skills and ecology.

<https://www.usine-digitale.fr/article/voici-le-plan-d-action-de-la-commission-europeenne-pour-creer-un-marche-unique-des-donnees.N1032649>

- **2022 : Data Act adopted by EU Commission**

<https://digital-strategy.ec.europa.eu/en/policies/data-act>

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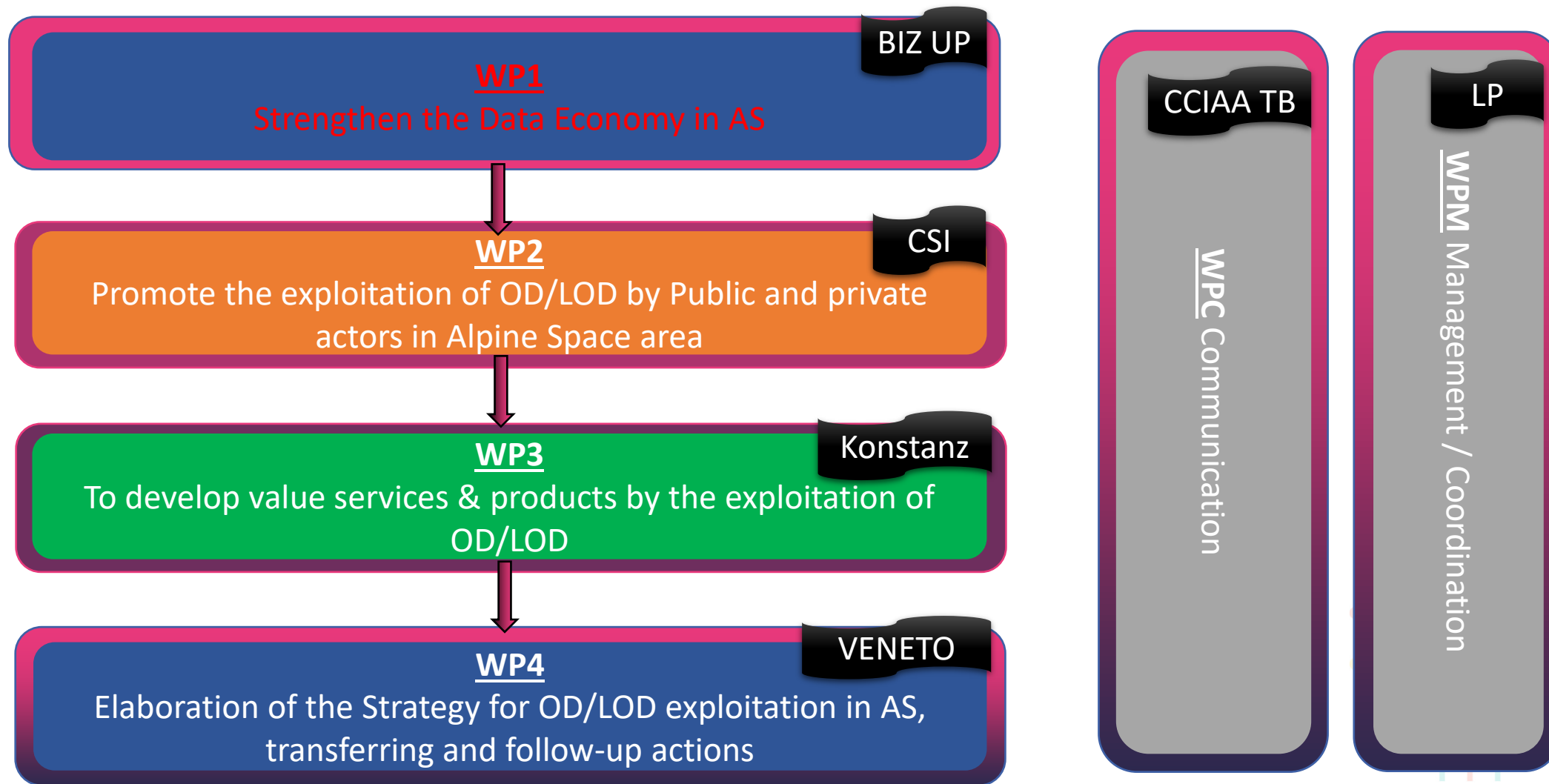


Lead Partner



City of Ljubljana





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CAMERA DI COMMERCIO
TREVISO - BELLUNO
bellezza e impresa



KONSTANZ
Die Stadt zum See



GrandE-nov
L'AGENCE D'INNOVATION



TEHNOLOŠKI PARK
LJUBLJANA
01



City of
Ljubljana



Transnational pilot actions

Tourism : Sustainable Tourism within the Veneto region (by CCIAA TB)

Tourism : Hake the Place! (by Piedmont Region / Vercelli)

Tourism :Data Tour, der Tourismus Hackathon (by Biz-up)

White label Guideo, experimental application on tourism (by Grand e-nov)

Environment activities for green future (by Metropolitan region Ljubljana)

Environnement : Flooding (by SFG)

Waste collection points (by TUBÀ)

Smart Green Constance Mobility Pilot (by Constance)

Smart Green Transnational Mobility Pilot (by Constance with contributions from all PPs)



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Mobility “Smart Green Transnational Mobility Pilot”

Name of the Challenge	Summary of the results	Responsible partner
1) Walkability, Bike & Shared Taxi	Creation of one Persona to develop a use case. Changing the regional focus to Gleisdorf (Austria). Analysis of the area based on certain needs in a small city with the help of a point layer based on needs. Development of Isochrones based on 5, 10 and 15 minutes walking time to get an idea of how walkable a location is.	Styria (SFG)
2) Cross-border Tourism (CroBoTo)	Creation of user stories to get an idea of the pains and gains of the users. Defining a scenario and division into sub steps. Modelization of the application and analyzation of the necessary data, services and stakeholders.	Grand-E-nov & TUBA-Lyon, Konstanz
3) MetaAPI and App1.0 (Ljubljana)	The team developed during the hackathon a prototype for the MobilPlus application and the loyalty concept. For this, they collected the different modalities in Ljubljana and collected the available data.	Slovenia (MOL, TPLJ)
4) Moving Vercelli by bike (MoVeByBike)	Modelization of an application, which supports cyclist in Vercelli. This should reduce city traffic, CO2 emissions and encourage the use of ecological means of transport. The bike path should adapt to the person and there should be services like pick-up/drop off in different location, included.	Piemont region (Vercelli)
5) MaaS: Intermodal routing (with visualization) – Going from Strasbourg to Linz via different modes of mobility	A concrete solution cannot be provided in this hackathon because of the large scope. First steps toward a trans-border cooperation were made. The next steps are finding partners for a follow-up transnational project (interested partners: City of Ljubljana, Domino, Ultimob, MobiDataBW) and do identify proper funding programs. Identification of problems: Incompatible regional interfaces, transnational routing, different providers, different payment and booking. The main result was the established contacts for follow-up activities	Biz-up Konstanz
6) Sustainable transports within Veneto's Alpine space	This challenge had no participants, so there are no results.	Veneto
7) Digital Twin: What is it, what is needed & possibilities for cities/regions	There was a conceptual basis document for a digital twin, which answered the questions: What is an urban digital twin? What does a city need for a digital twin? What is the added value for the city in general? In which area can cities use the digital twin? & Different application examples in the field of tourism, transport and environment. Analysis and simulation of traffic data and aggregation of different data sources.	Konstanz
8) Smart electricity using for your private vehicles at home	This challenge had no participants, so there are no results.	Bwcon
9) Secure Spontaneous Ridesharing	Development of a concept, which enables secure spontaneous ridesharing. Analysis of the need of drivers and passengers.	Konstanz

Environment including datathon in Lyon

CSI, as a prototype, decided to represent these stations on the map.



By filtering on the country Austria, you can see where the water stations are located.

Project Partners



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Tourism

Service concept reviewed from each partner

Vercelli	Veneto Region	Upper Austria	Grand Enov
ViVerE – Visit Vercelli Eco-friendly	(APD) Alpine Paths of the Dolomites	TouResy - Touristic Recommendation System	City EXplore
			
Offer an ecofriendly personalized touristic experience Provide opportunities for economic development of Vercelli and its territory. Ecofriendly based on : - go to places that offer "organic" products - use non-polluting vehicles (electric / bike / LPG rental) - go to structures with a low environmental impact - POI - have clear indications of the paths and cycle paths	All the georeferenced OD about the alpine paths collected. Discover Alpine path dolomites : - Accomodation facilities - Local services - POI	System that recommends to touristic customers individualized touristic experiences incl. concrete way to consume (and, if necessary order) the specific offers ("seamless travel") Scenario of using an integrated TouResy Platform along the "customer journey". - What do I want? - What can I do? - How do I get there? - What else could I need? - How can I book / buy / rent the recommended services ? - How can I get back (home)?	"Personalised" tourist discovery route according time and wishes, affinities user) using adapted soft mobility modes of transport (on foot, by bicycle including electric, by scooter including electric, etc.). Discover city according : - The possibility of tagging "I know the emblematic places of the city", I opt for other, more atypical routes - The possibility of tagging mode of soft mobility : foot, bicycle, scooter - Choose the category of visit you want: culture, local products - know-how, heritage, parks / gardens ... - Choose your time, availability

Comparison about :

- Relevant topics identified by LWG
- Target
- User need satisfied
- Reason to use them
- Existing similar services
- Data necessary for the service ...



Project Partners



Lead Partner



City of Ljubljana



API developped on Tourism-Culture

How Many POI Data Set in OD is already usefull :

Vercelli 14 API

Veneto 2 API

BIZ UP 6 API not yet Tested

Grand E Nov+ 9 in API mode (Strasbourg & Mulhouse)

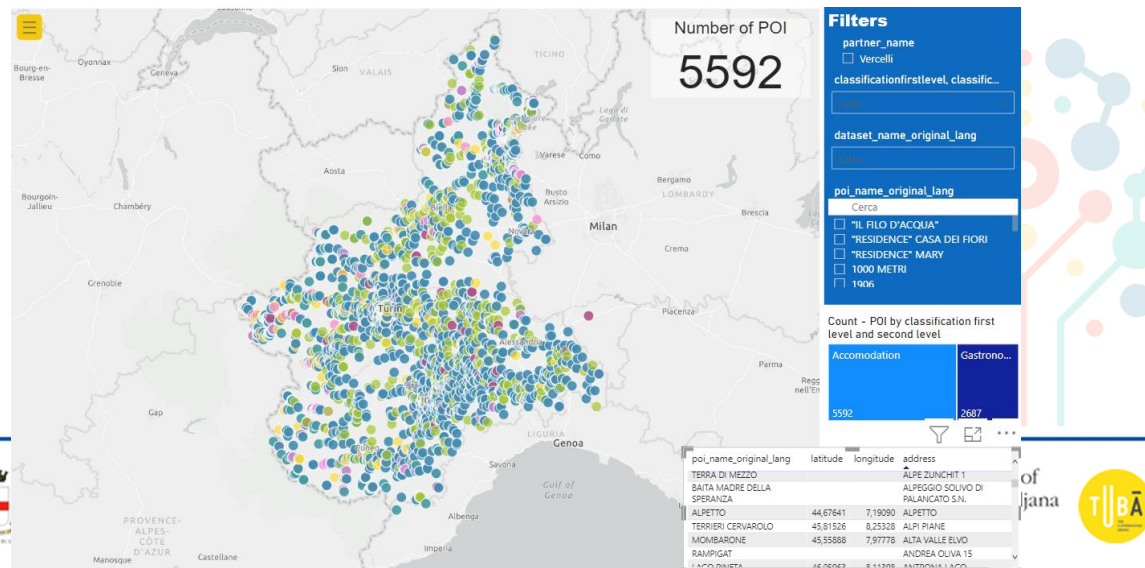
15163 in Alsace in CSV format

15131	Circuit rando L24 : Sur les hauteurs de Rothau	PointOfInterest	Tour	WalkingTour	http://purl.org/ontology/olo/core#OrderedNA	15131	48.428995162964	
15132	Circuit le rocher du Coucou et le Frankembourg	PointOfInterest	Tour	WalkingTour	http://purl.org/ontology/olo/core#OrderedNA	15132	48.2958567927894	
15133	Massif du Chalmont	PlaceOfInterest	PointOfInterest	NaturalHeritage	Summit	Landform	panoramic route	48.2835275401246
15134	Circuit vélo en famille moulin - pilâtre de Rozier	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15134	48.9631575669201	
15135	BL346 - Paysage et produits de terroir d'Alsace Bossu	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15135	48.9386650111785	
15136	BL545 - Au fil de la Sarre	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15136	48.9381515598429	
15137	Circuit découverte VTT	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15137	48.7519592	
15138	BL227 - Bières et houblonniers	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15138	48.7489650396376	
15139	Villages pittoresques et vignoble de Cleebourg	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15139	48.9343577904854	
15140	Itinéraire cyclable de la vallée de la Bruche - tronçon	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15140	48.5273328484028	
15141	Monument aux morts	CulturalSite	PlaceOfInterest	PointOfInterest	RemarkableBuilding	Remark	city wall	48.5377997451303
15142	BL899 - Grès et Réserve de Biosphère des Vosges	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15142	48.7626990547889	
15143	BL995 - Les Moulins du Muehlgraben	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15143	47.634696538361	
15144	Circuit VTT n°26 Le vallon du Traubach	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15144	47.669075	
15145	Chapelle notre Dame de Bellefontaine	CulturalSite	PlaceOfInterest	PointOfInterest	ReligiousSite	church		47.6564125966226
15146	Circuit VTT n°25 Les deux Traubach	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15146	47.669075	
15147	Euro Velo 6	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15147	47.6357810841251	
15148	Circuit vélo du Sundgau n°1 - La porte d'Alsace	PointOfInterest	CyclingTour	Tour	http://purl.org/ontology/olo/core#OrderedNA	15148	47.6441666666667	
15149	Relais Nautique de la Porte d'Alsace	PlaceOfInterest	PointOfInterest	SportsAndLeisurePlace	Marina	SportsAndLeisurePlace		47.6361016892282
15150	Le Retable de Buhl	CulturalSite	PlaceOfInterest	PointOfInterest	ReligiousSite	church		47.927061995611
15151	Fort Frère	CulturalSite	PlaceOfInterest	PointOfInterest	RemembranceSite	city wall		48.6148529864525
15152	Chapelle Saint-Wendelin	CulturalSite	PlaceOfInterest	PointOfInterest	ReligiousSite	church		47.716707320722
15153	Eglise Saint-Pierre et Saint-Paul	CulturalSite	PlaceOfInterest	PointOfInterest	ReligiousSite	church		47.7169355998031
15154	Le mont calvaire de l'Oelberg	CulturalSite	PlaceOfInterest	PointOfInterest	ReligiousSite	church		47.9285564915956
15155	Land art "Le rhinocéros de Burbach"	CulturalSite	PlaceOfInterest	PointOfInterest	RemarkableBuilding	Remark	city wall	48.9013492243184
15156	La gare d'Île Napoléon	CulturalSite	PlaceOfInterest	PointOfInterest	IndustrialSite	TechnicalHerits	theme park	47.76769041630561
15157	L'ancienne école des garçons	CulturalSite	PlaceOfInterest	PointOfInterest	RemarkableBuilding	Remark	city wall	47.7454753968471
15158	Le Marxgarten ou Marx Brenne	CulturalSite	PlaceOfInterest	PointOfInterest	ArcheologicalSite	cave		47.7404662026228
15159	Anciens stands de tir	CulturalSite	PlaceOfInterest	PointOfInterest	RemembranceSite	city wall		47.7640655442164
15160	Cité Sturm	CulturalSite	PlaceOfInterest	PointOfInterest	RemarkableBuilding	Remark	city wall	47.7581371368901
15161	Le cimetière	CulturalSite	PlaceOfInterest	PointOfInterest	ReligiousSite	church		47.7413146692032
15162	Croix de l'Eschbrunnen	CulturalSite	PlaceOfInterest	PointOfInterest	RemarkableBuilding	Remark	city wall	47.733249531667
15163	Quartier Entremont	CulturalSite	PlaceOfInterest	PointOfInterest	RemarkableBuilding	Remark	city wall	47.7520421453486
15164								
15165								

Tourism&Culture APIs: data situation

Partner	Require d datasets	Usable datasets	Datasets stopped awaiting response from the Partner	Ingested	Prepared & tested (other data have been prepared but not yet tested)	POI
Biz-Up (Tourdata)	7	6	0	3	0	
Grand E-nov	13	9	0	9	9	14.358
Vercelli	19	14	0	16	14	7.654
Veneto	2	2	0	2	2	9.201

31.213 Number of POI



Project Partners



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DEAS platform + Federation

- Is hosted on the Open Data Veneto Platform: <https://opendataveneto.regione.veneto.it/progetti-europei/progetto-deas/deas-platform/tourism-and-culture>



TRAINING CONTENT



TOOLKIT



DEAS Platform



DEAS Federation

Keep the platform alive after the project, continue to exploit the data, add more data, make the actors who provide the data and those who exploit it interact "a community on a transalpine scale"



DEAS Platform

The elaboration necessary for the DEAS project and also all the APIs that we will see later were realized with the Yucca Smart Data Platform (<https://userportal.smartdatanet.it/userportal/#/landing>), a cloud platform realized by Regione Piemonte, open for both Public Administration and citizens and aimed to realize data analysis solutions for everyone.

<https://data.gov.ie/blog/online-introduction-to-open-data-training-course>

<https://www.futurelearn.com/courses/open-data-business> (Using Open Data for Digital Business)

https://learndata.info/elearning/open_data_essentials.html

https://docs.google.com/document/d/1jdnzRbXDs3otZ8FUd5_wLt6vQv6ZcgBB/edit

Project Partners



Lead Partner



City of Ljubljana



TOURISM

ENVIRONMENT

MOBILITY

DEAS Strategy

- DEAS project : Experiences, experimentations from each territory with their local contact, stakeholders
- European strategy on data and digitalisation
- Open data Maturity report
- Digital Alps conference
- Federation : to join an existing community in order to join forces and experiences.



Project Partners



Lead Partner



merci



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