

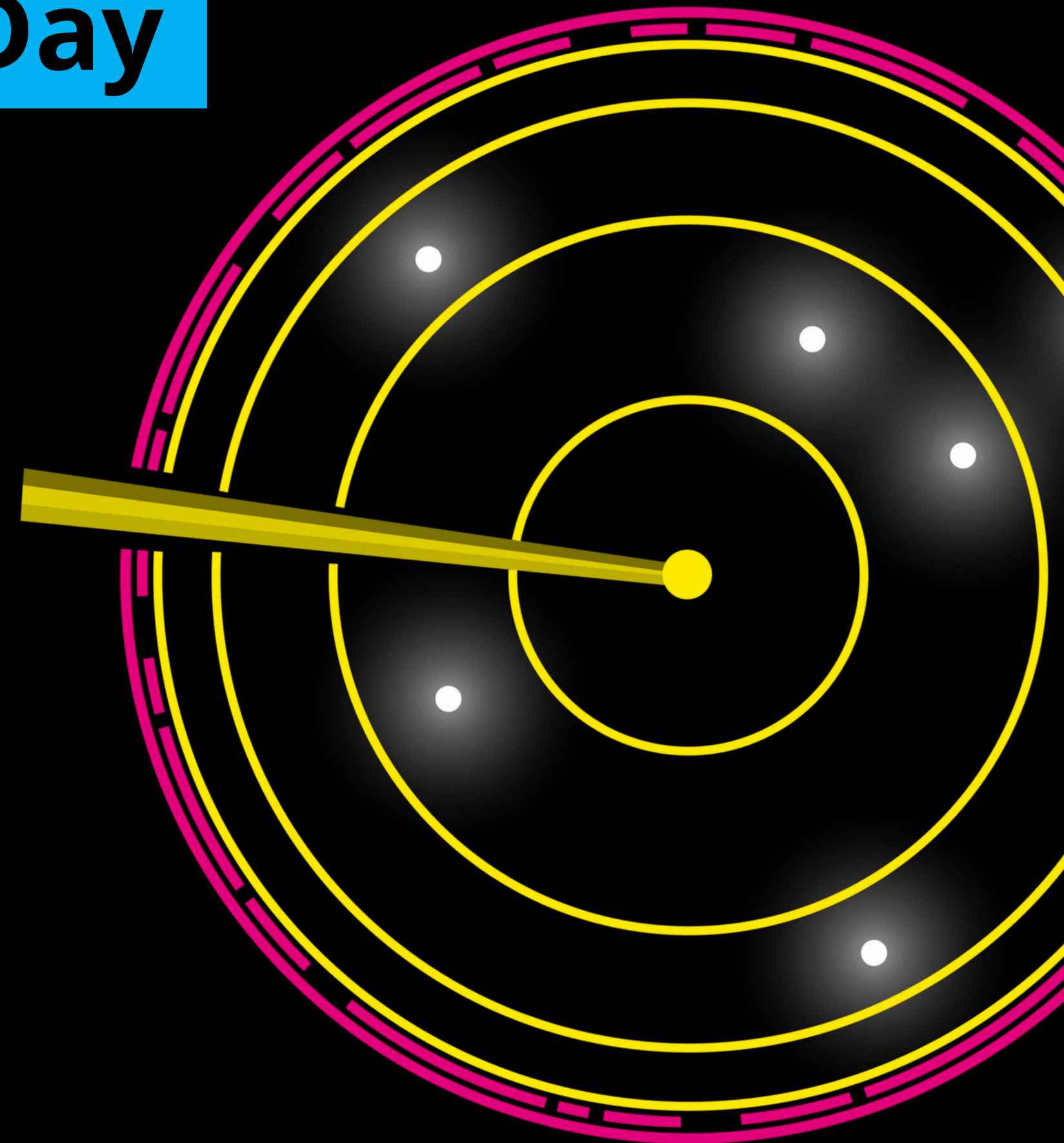
Data Spaces Discovery Day

October 19, 2023 | Vienna

Data driven Decarbonization of the
Brenner (Digital) Corridor

Roberto Cavaliere
NOI Techpark

r.cavaliere@noi.bz.it







AGENDA

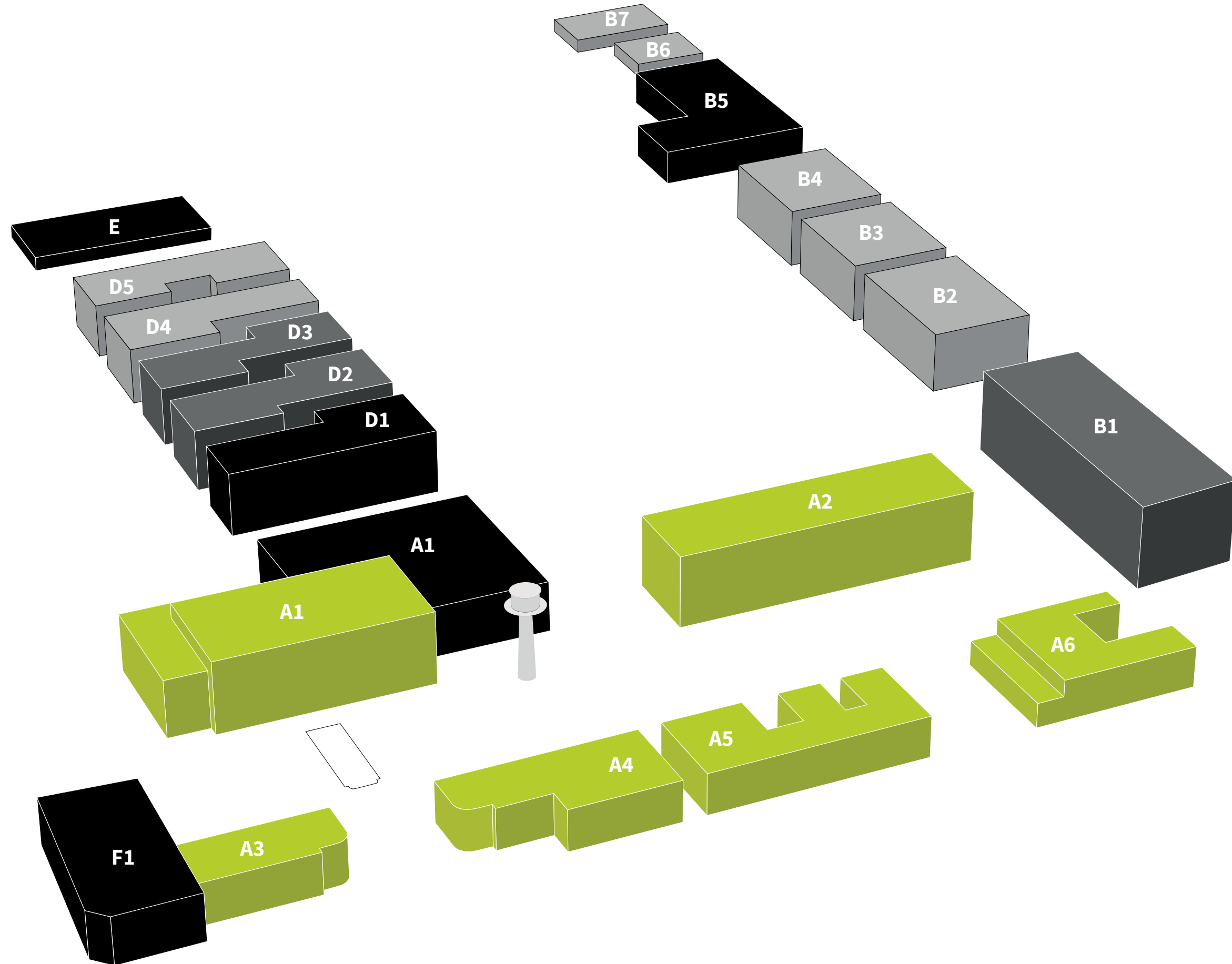
- NOI Techpark
- Open Data Hub
- The BrennerLEC project

ABOUT US



12 HA AREA IN THE SOUTH OF BOLZANO

-  Building in use
-  Listed building
-  Building under construction
-  Future expansions



HARD FACTS

1.100 PEOPLE

15 LANGUAGES

12 HECTARE CAMPUS

3 UNIVERSITY
FACULTIES

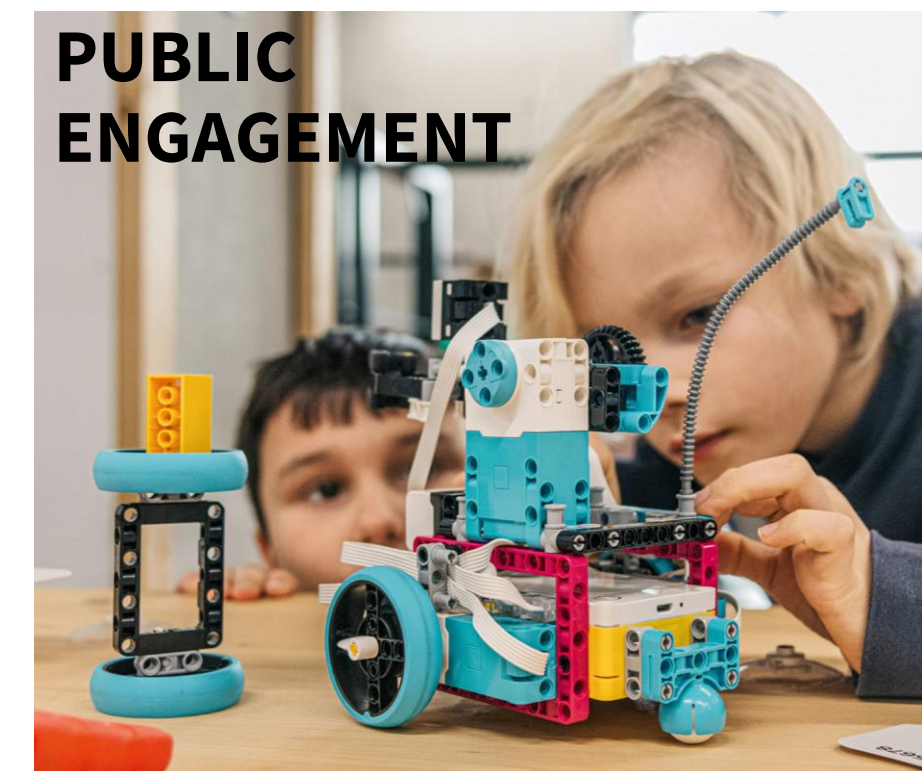
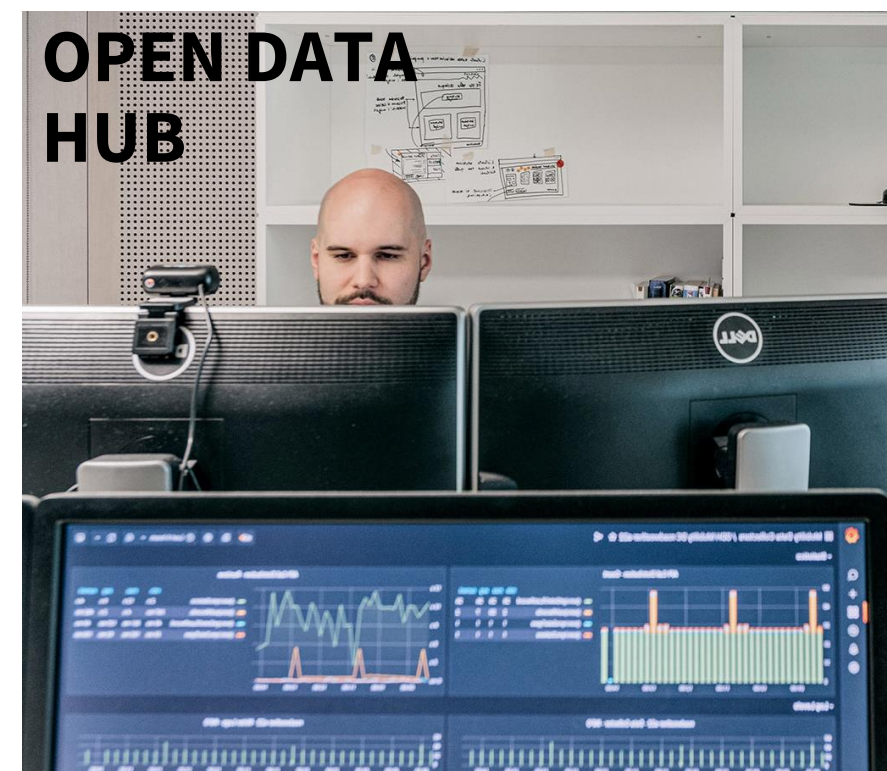
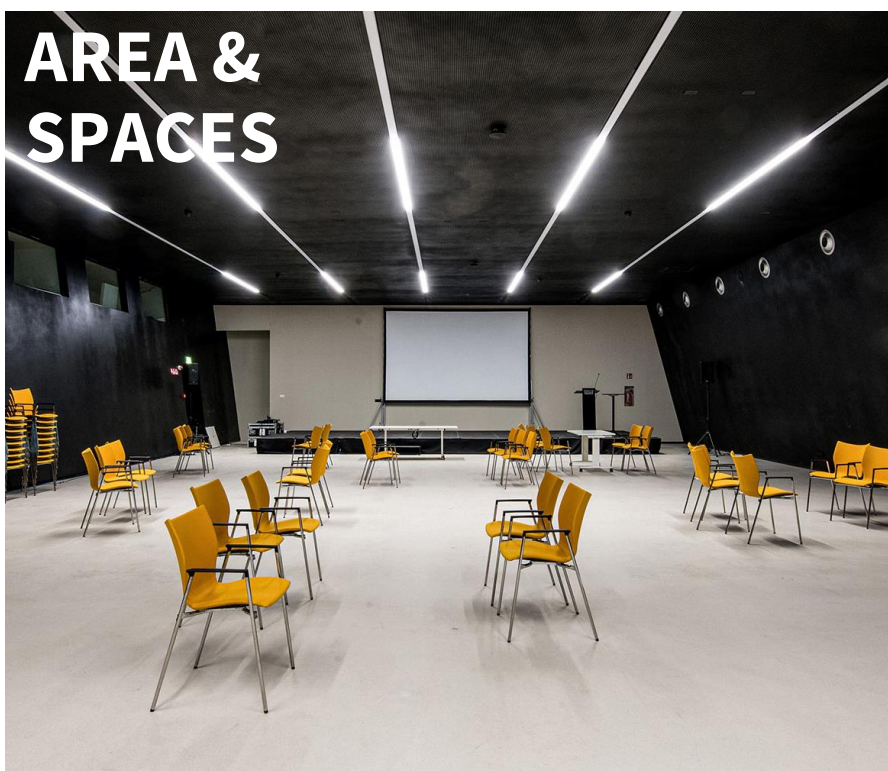
3 RESEARCH
INSTITUTES

62 COMPANIES

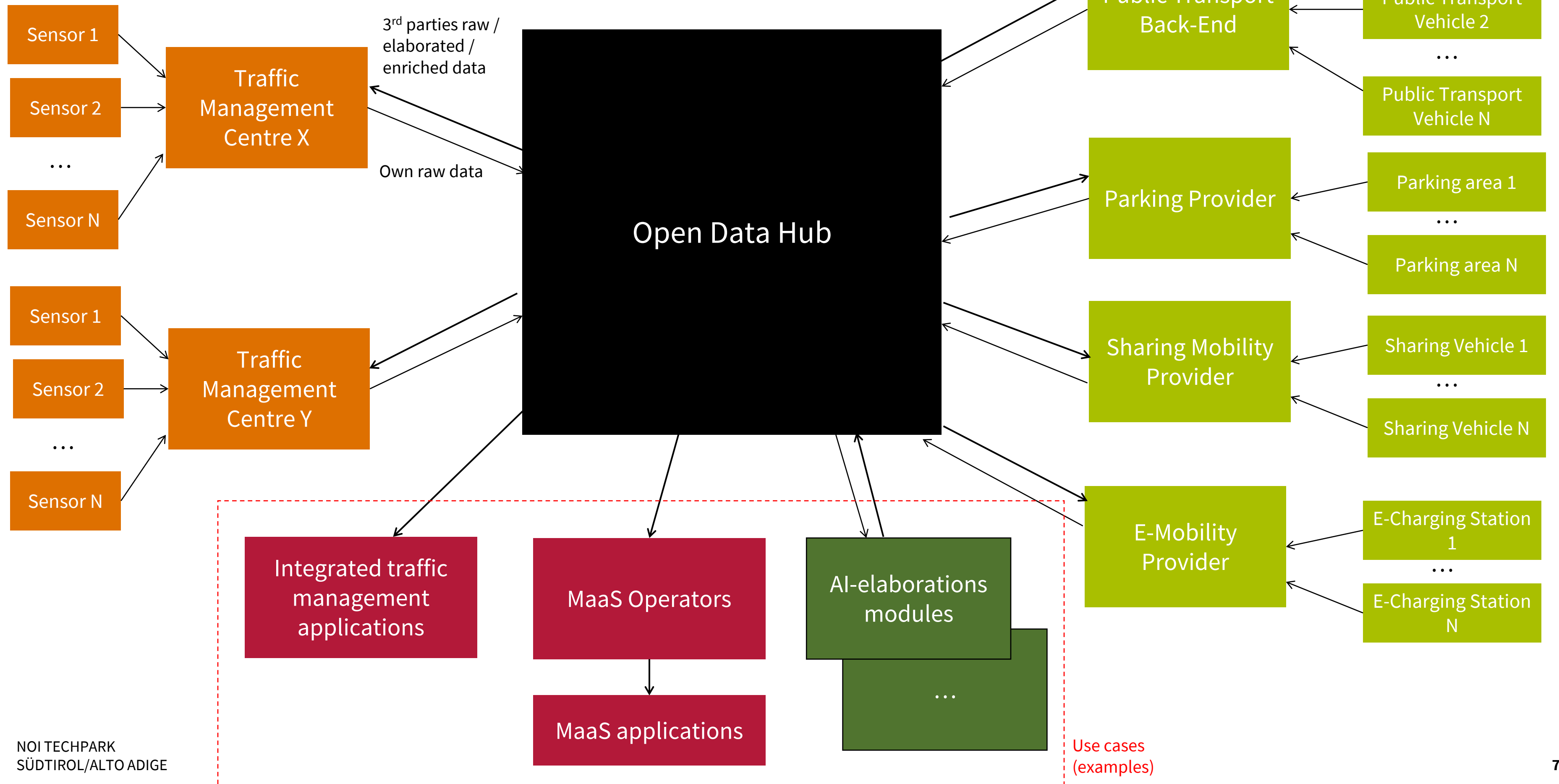
25 START-UPS

49 RESEARCH
LABORATORIES

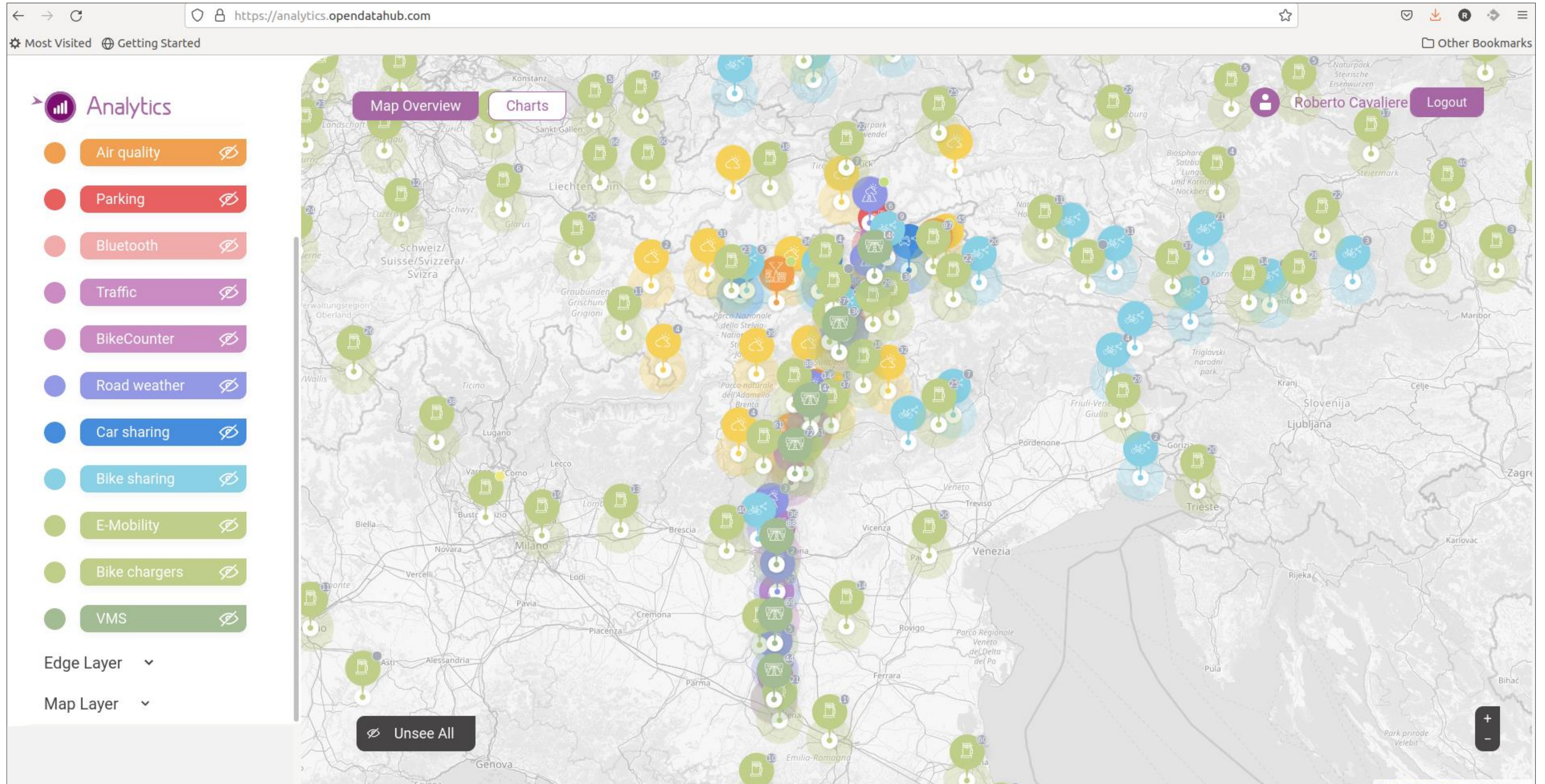
SERVICES



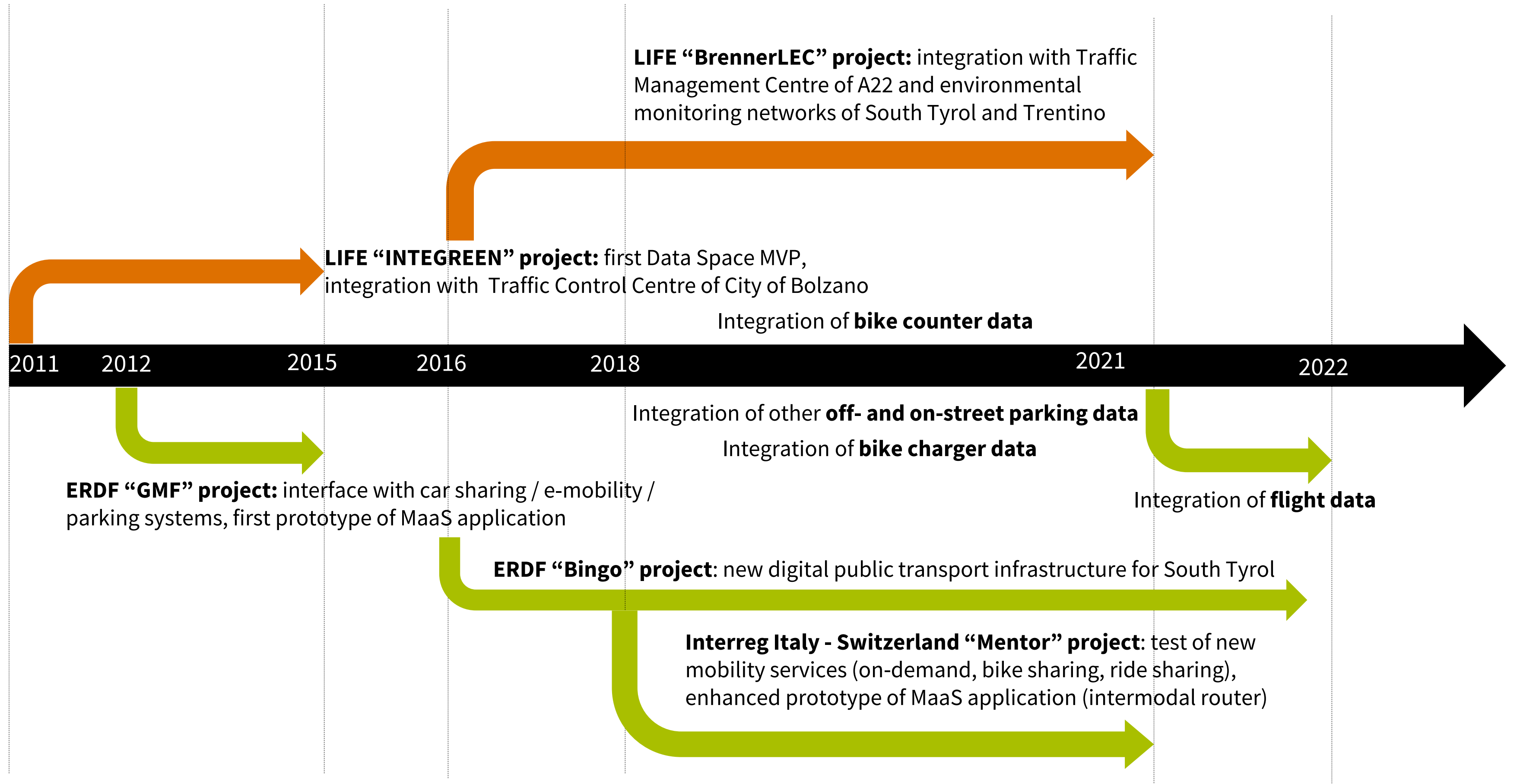
OPEN DATA HUB AS ENABLING PLATFORM FOR RESEARCH & DEVELOPMENT



THE MOBILITY DATA SPACE OF THE OPEN DATA HUB WAS NOT BUILT IN A DAY (1)



THE MOBILITY DATA SPACE OF THE OPEN DATA HUB WAS NOT BUILT IN A DAY (2)



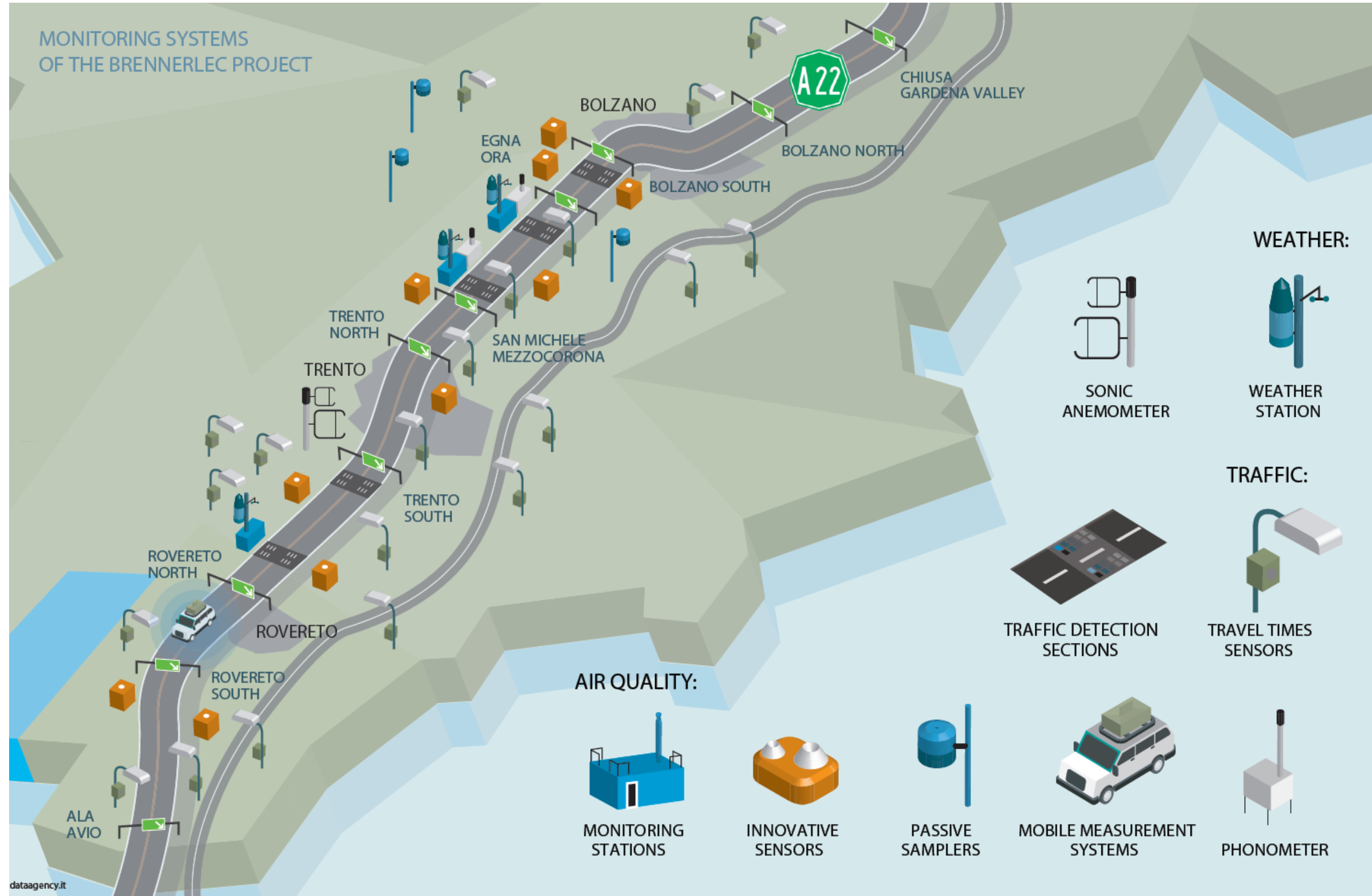
LINKING OPEN DATA HUB WITH INTERNATIONAL INITIATIVES



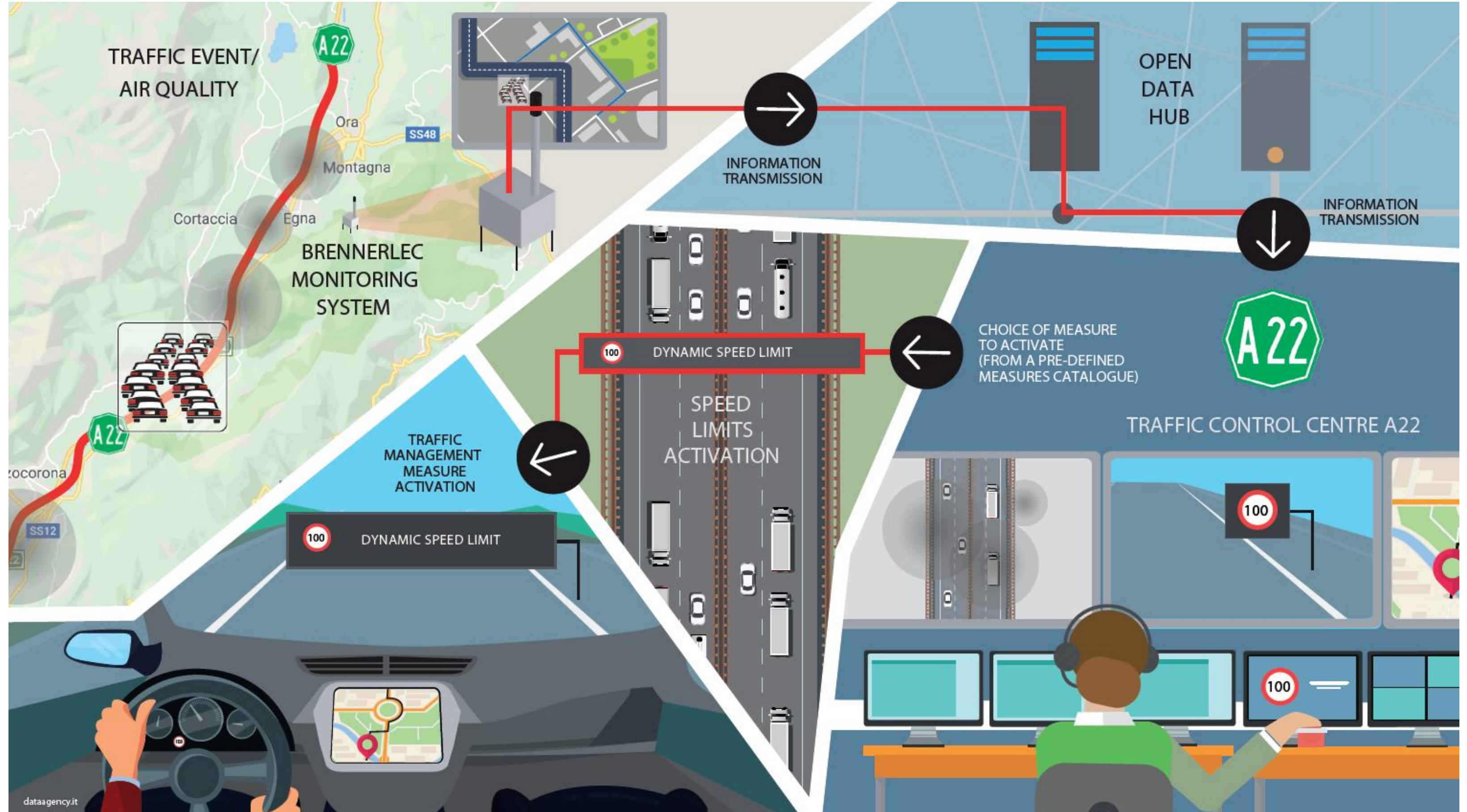
- Member of the IDSA since a couple of months
- At present, no implementation / compliance with IDS Dataspace Protocol or Rulebook, but are willing to learn and implement such standard solutions
- But: we offer an easy and harmonized API access to all available datasets
 - One API for everything, with powerful filter options to obtain the desired datasets
 - Not all data available as open data, bilateral agreements with Data Providers before needed (API-key mechanism to access this data)

<https://opendatahub.com/datatype/mobility/>

A SUCCESS STORY: THE BRENNERLEC PROJECT (1)



A SUCCESS STORY: THE BRENNERLEC PROJECT (2)



dataagency.it

A SUCCESS STORY: THE BRENNERLEC PROJECT (3)

In free-flow conditions (VSL triggered by the environment)

- Reduction of about 10% of roadside NO₂ concentrations with an average speed reduction of 14 km/h
- Reduction of about 8% of CO₂ emissions and 16% of NO₂ emissions in case of higher traffic volumes determining more driving conditioning

In highly-congested traffic conditions (VSL triggered by traffic)

- Reduction of about 10% of travel times with similar traffic volumes and reduction of traffic jams situation
- Significant improvement of traffic safety conditions (accident rate nearly zero with active variable speed limits).

Deployment of dynamic VSL measures on-going on all Alpine corridor of the A22 highway!

THANK YOU.

NOI TECHPARK
SÜDTIROL/ALTO ADIGE

VIA A.-VOLTA-STRASSE 13/A
I – 39100 BOZEN/BOLZANO

+39 0471/066 600
INFO@NOI.BZ.IT
WWW.NOI.BZ.IT