Open Data Hub: una piattaforma aperta per applicazioni e servizi di nuova generazione per l'utente finale

15.04.2019

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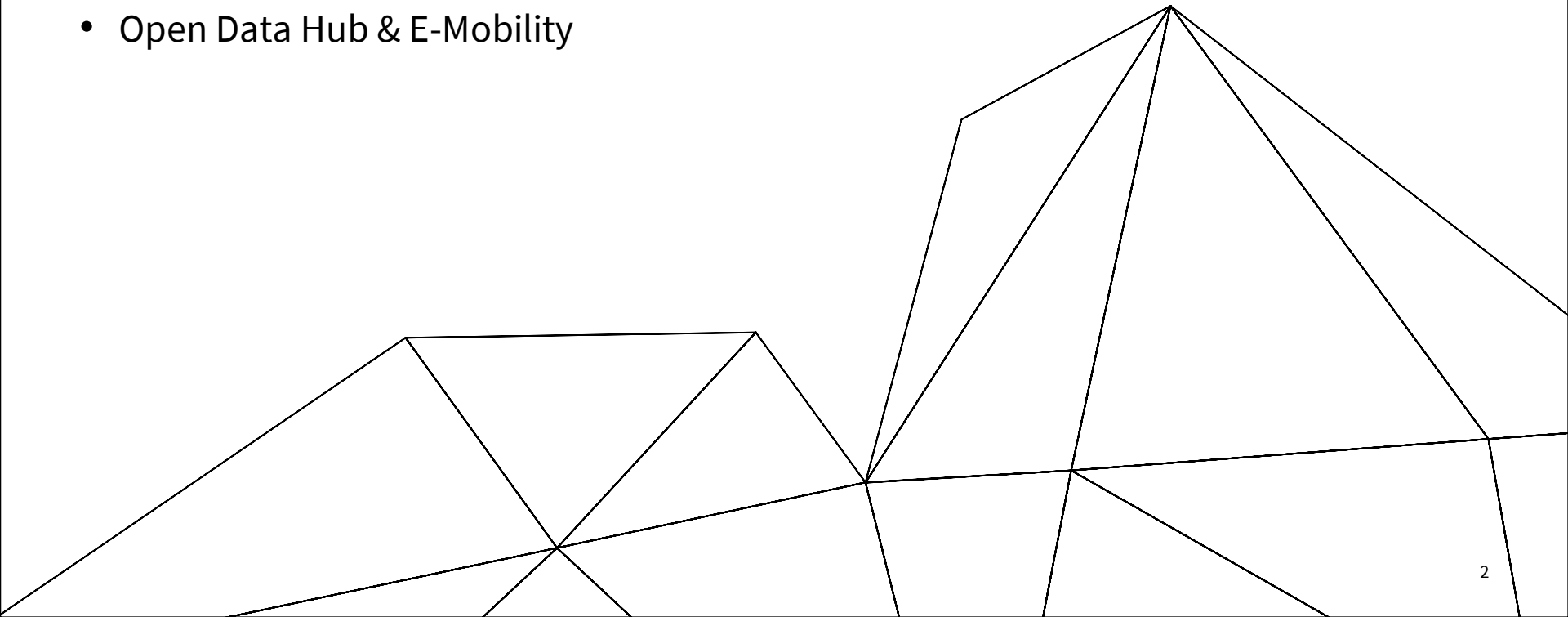
Agenda

- Why an Open Data Hub?
- Open Data Hub & E-Mobility



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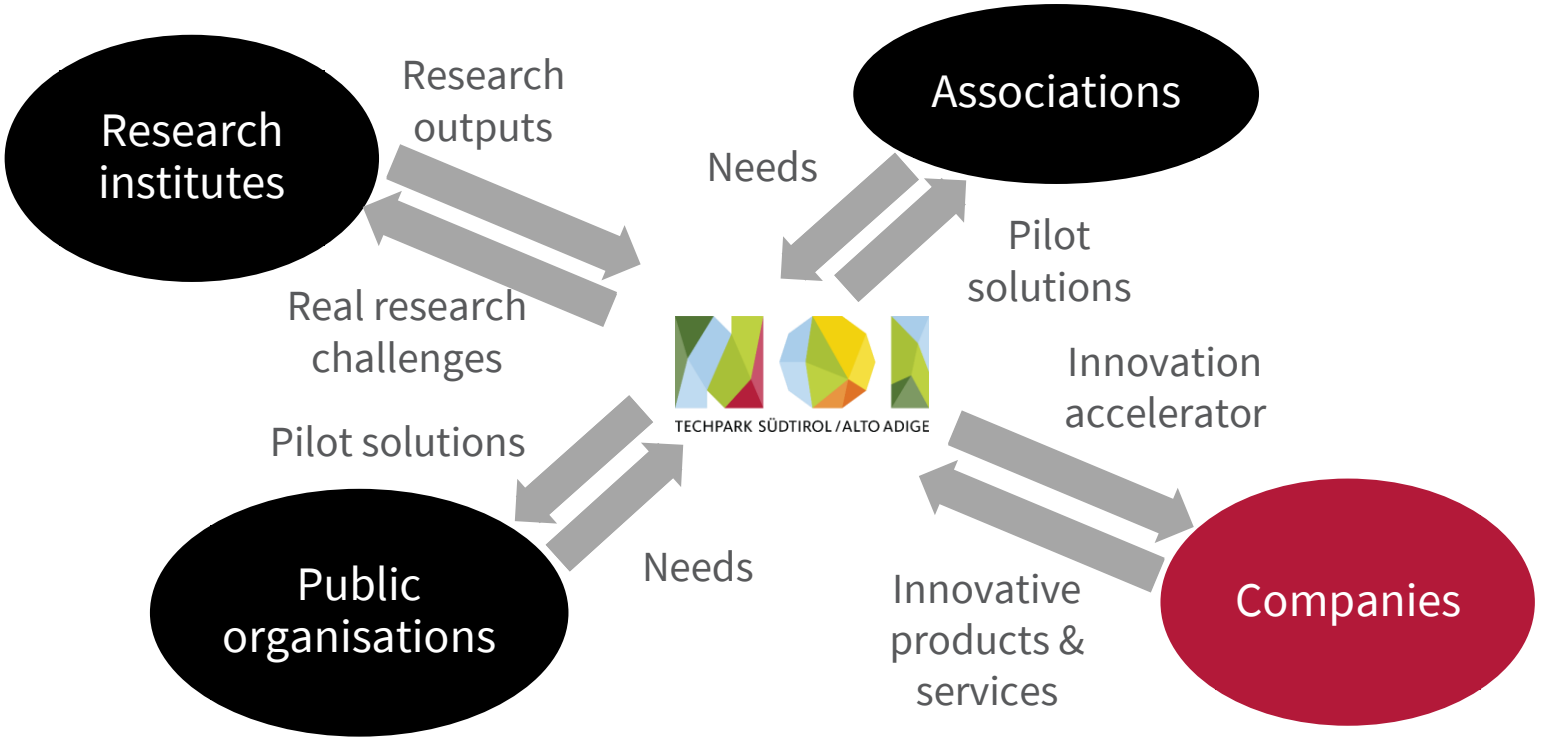

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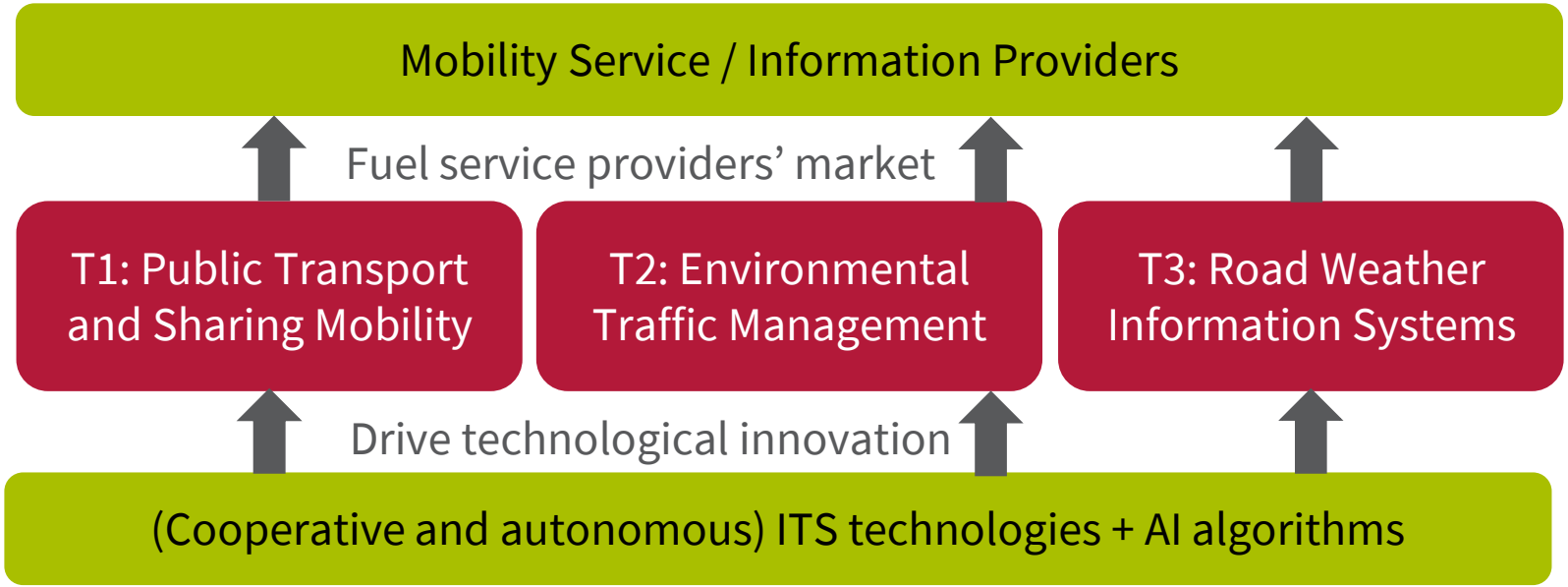

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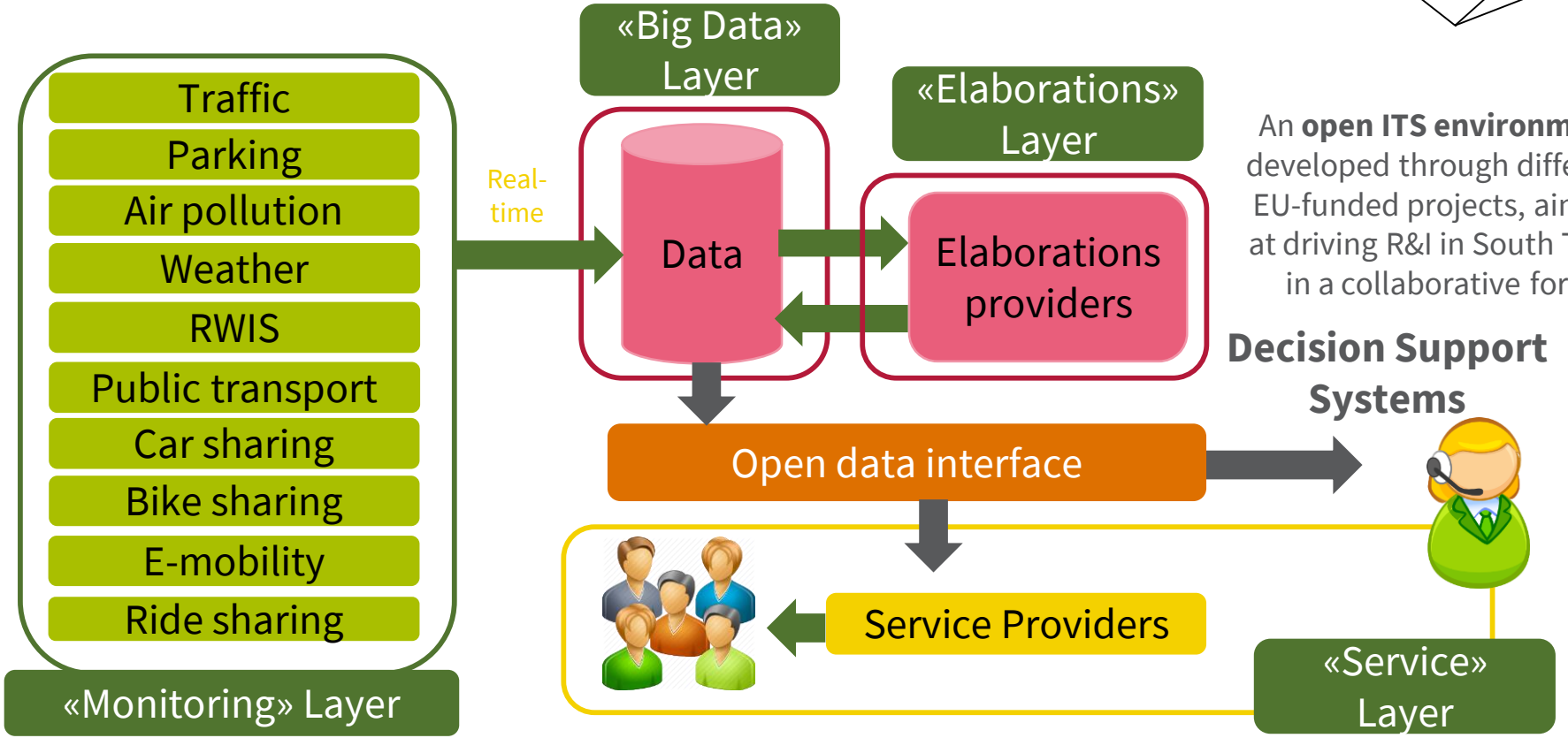

An **open ITS environment** developed through different EU-funded projects, aiming at driving R&I in South Tyrol in a collaborative form

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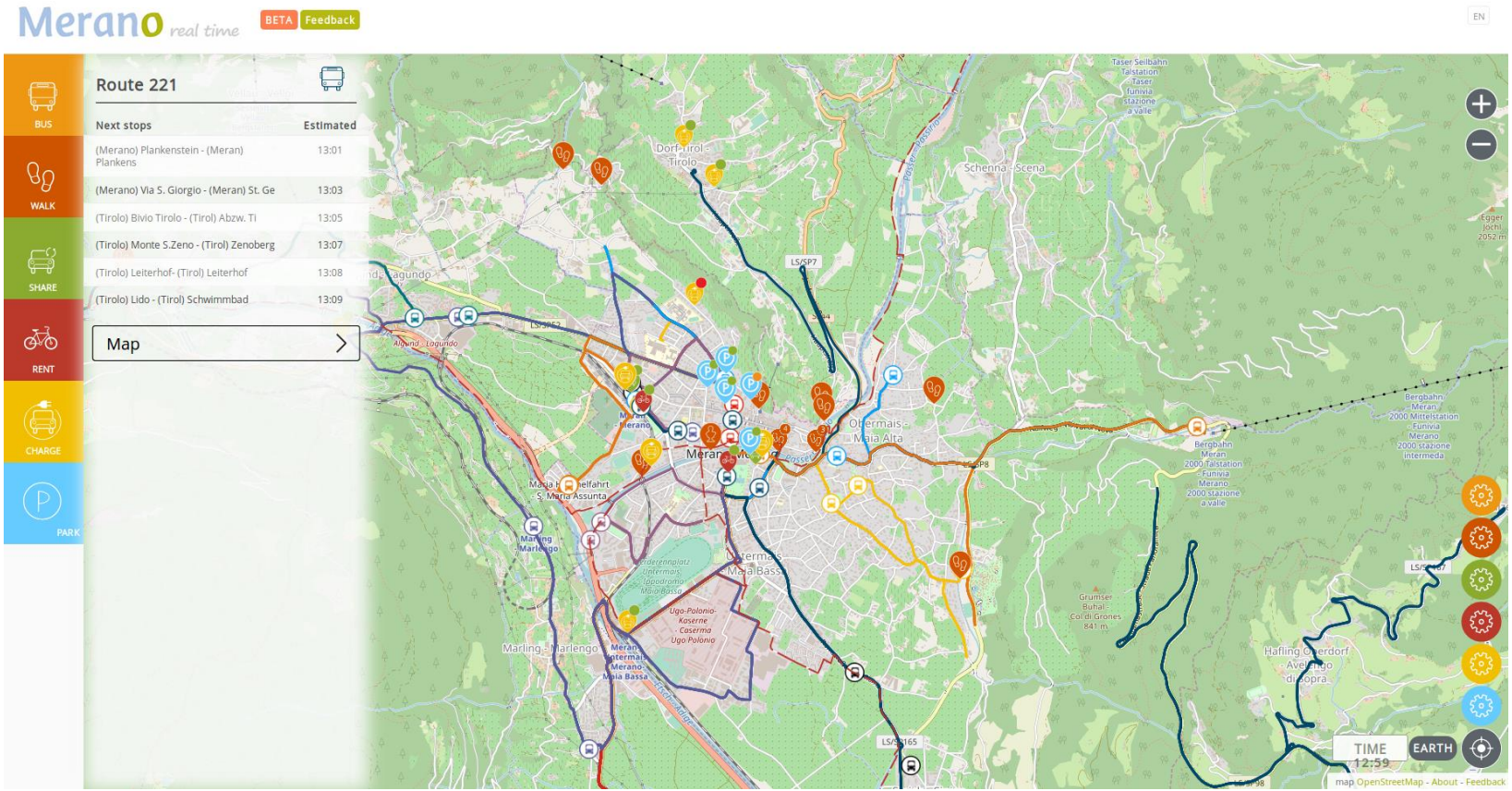

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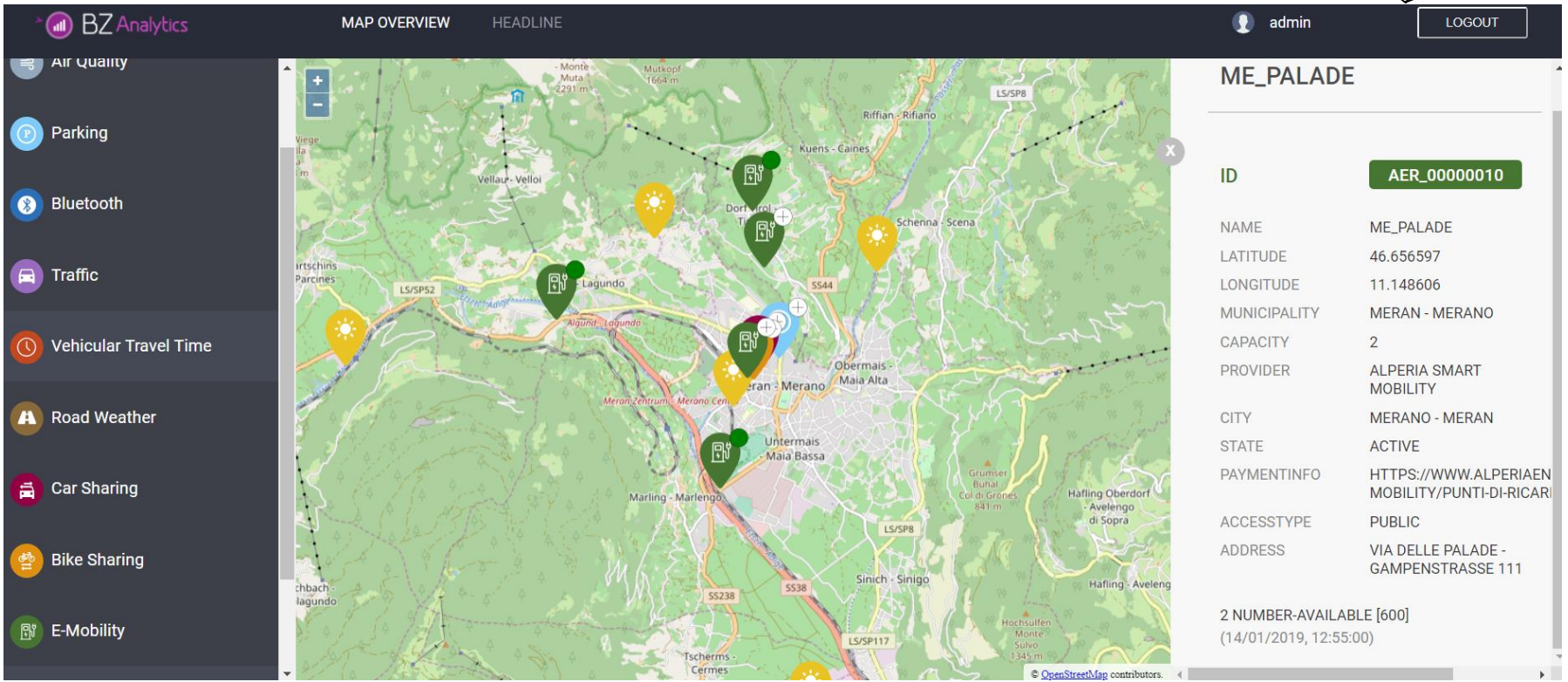

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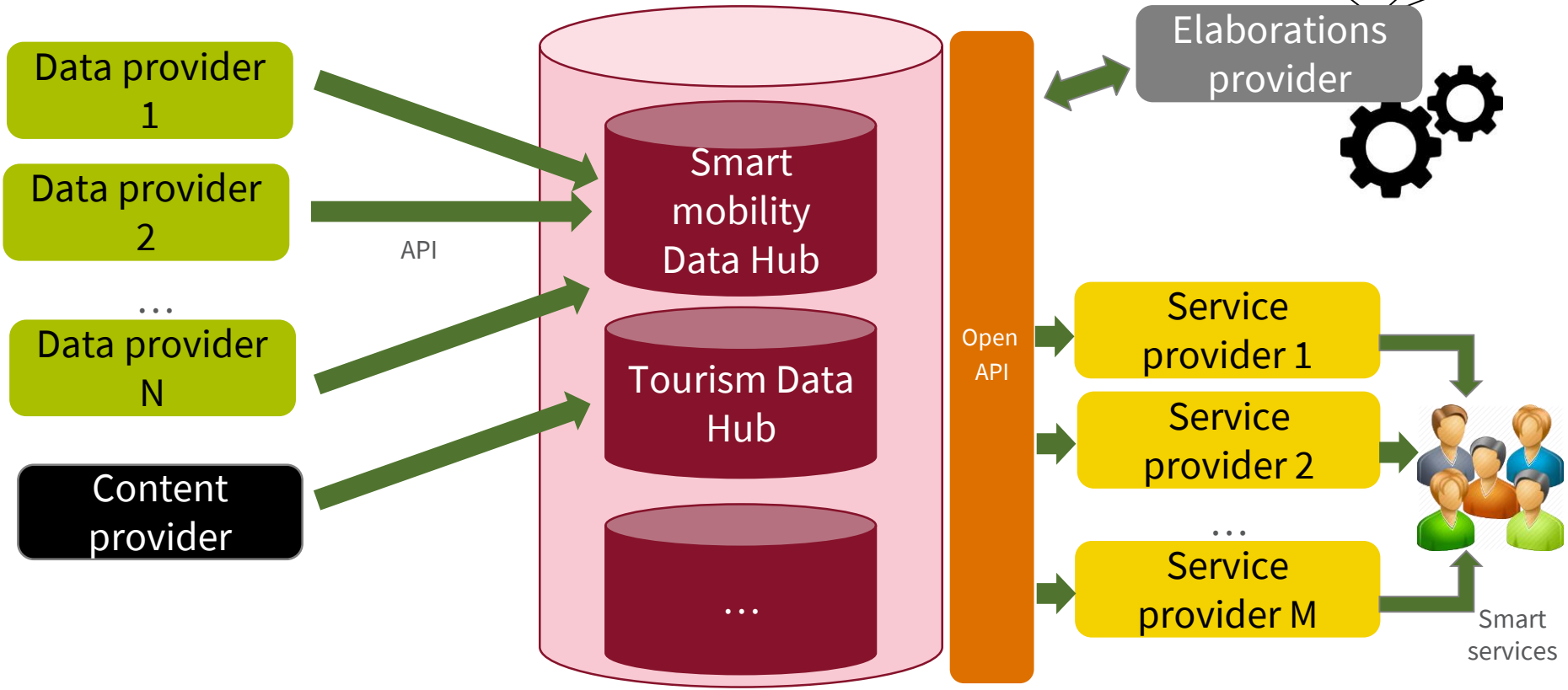


Why an Open Data Hub?

According to a recent report by **Transport Systems Catapult** (TSC), **Deloitte** and **Open Data Institute** (ODI) [1]:

- future innovation in transportation sector is hindered by the presence of **data silos** and a lack of access to **open data sources**;
- **by 2025**, the implementation of a «**mobility data hub**» in the UK can generate at least 3.000 more skilled jobs, reduce traffic congestion and ensure improved mobility with estimated impacts of:
  - **4 £ bn / year** for **reduced travel times**;
  - **1 £ bn / year** for **better air quality and reduced greenhouse emissions**;
  - **4 £ bn / year** for **increased road safety**.

As a consequence TSC has launched the «**Intelligent Mobility Data Hub**», which provides open data access to many mobility data sets shared not only by public authorities but also by private companies operating in this sector (e.g. fleet providers).

[1] Transport Systems Catapult: «The case for government involvement to incentivise data sharing in the UK intelligent mobility sector»; March 2017.

Why an Open Data Hub?

Issue: Legacy systems

Problems:

1. Most of the currently available data management systems are not thought, for historical reasons, to expose data to third parties.
2. The activation of an automatic interface is in most of the case a non-standard interface.
3. Data licensing is often a discussion and a process: datasets become more and more “open” during time.

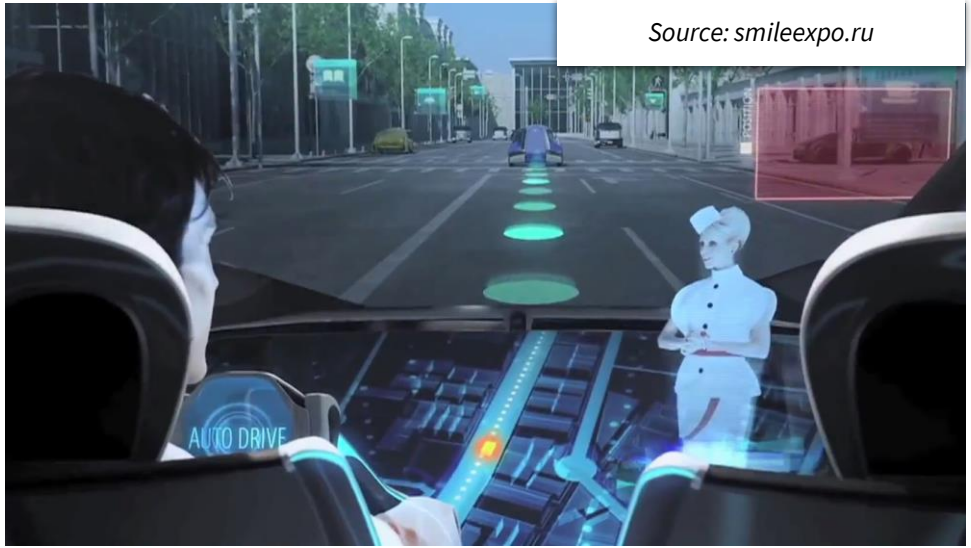
Solutions:

1. Data is integrated in the Data Hub so to facilitate its exchange with 3rd parties and guarantee the requested performance.
2. In the Data Hub data is exposed with other similar datasets using unique standard interfaces.
3. It is a technological (and cultural) process: data providers are motivated to improve their systems and expose their data with agreed standard interfaces and according to data licences. The Data Hub can manage non-open data sets and limit its availability to a reduced number of trusted parties. This is the typical case of joint R&D in which new datasets are produced.

Example: Real-time parking data

Why an Open Data Hub?

Challenge: Ensure that South Tyrol is known by the «Internet of Things» and the virtual reality



Source: smileexpo.ru

Self driving cars will give real-time local information to (occasional) travelers by connecting to the Open Data Hub

Occasional visitors and inhabitants could easily get from futuristic virtual assistants real-time local information thanks to the Open Data Hub.

Open Data Hub & E-Mobility

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Coordinator of the «Green Mobility» initiative in South Tyrol

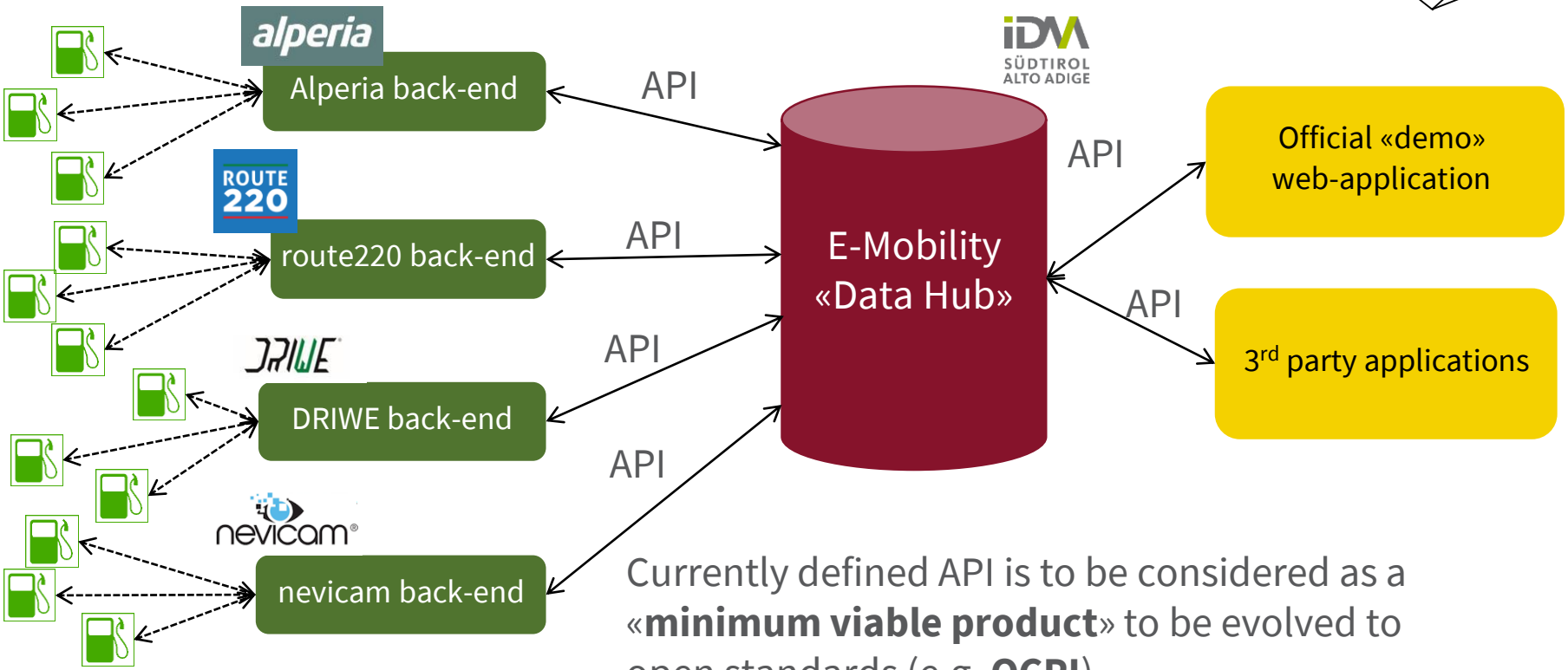
E-Mobility Service Provider & Charge Point Operator

Charge Point Operator

Charge Point Operator

Energy Provider, E-Mobility Service Provider & Charge Point Operator

Open Data Hub & E-Mobility



Currently defined API is to be considered as a «**minimum viable product**» to be evolved to open standards (e.g. **OCPI**)

Open Data Hub & E-Mobility

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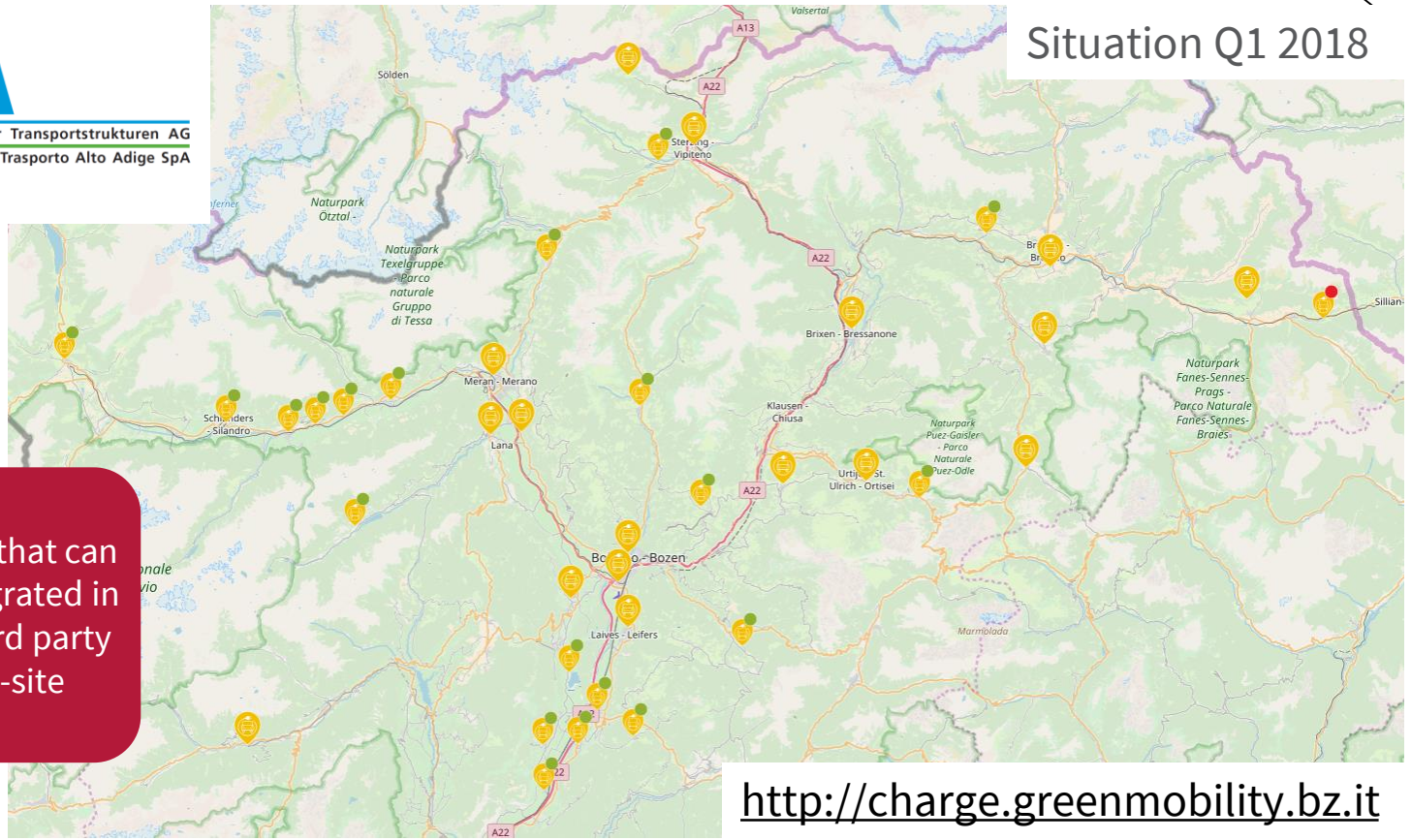
Situation Q1 2018



Widget that can be integrated in any third party web-site

http://charge.greenmobility.bz.it

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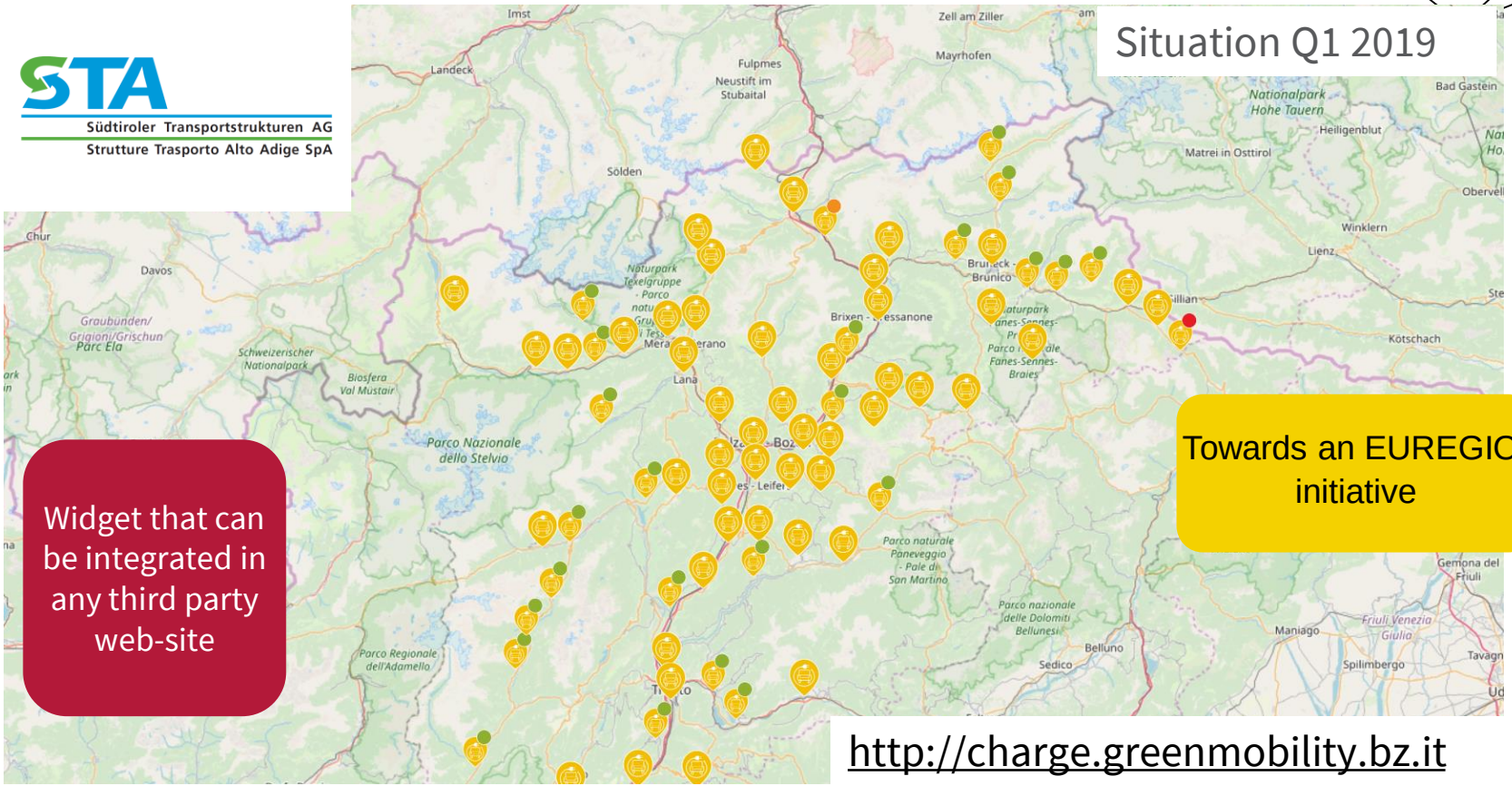

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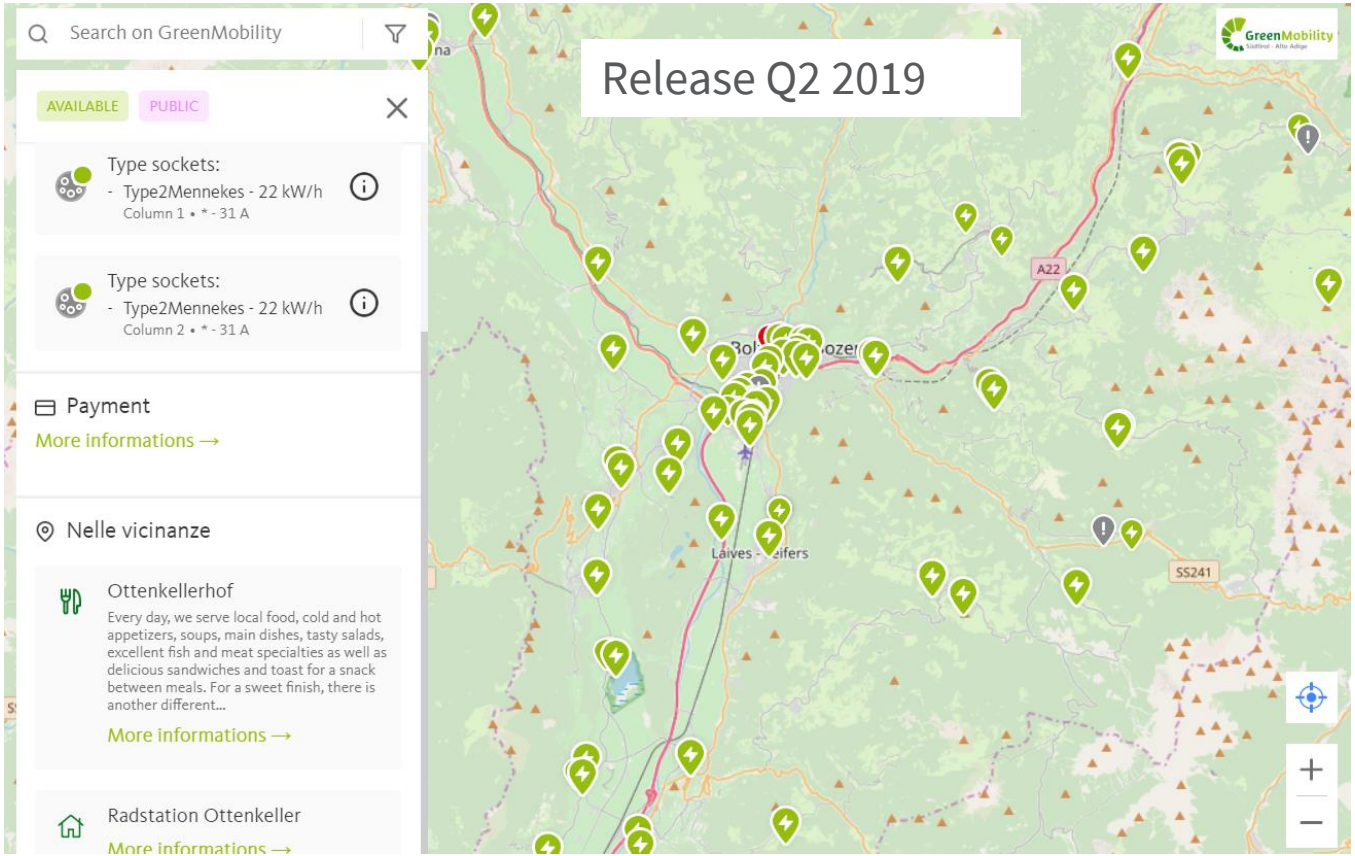

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