DATA INTEGRATION FOR eHUBS #TOMP-API

09-12-2021 - Webinar

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WEBINAR 09.12.2021 11AM-12AM



Topics for today

- 1. Mpact
- 2. eHUBS
- 3. Why should we standardize?
- 4. TOMP-API

Mpact

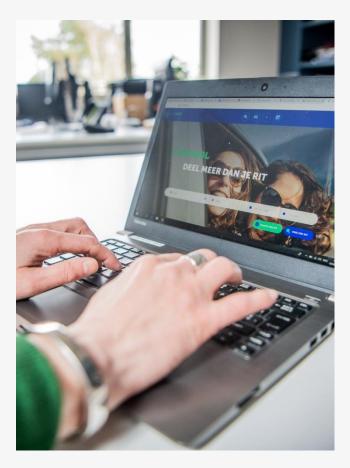
The organisation formerly known as Taxistop. Do more with less – since 1975

More efficient mobility by mpact ^{\(\nabla\)}

Solutions

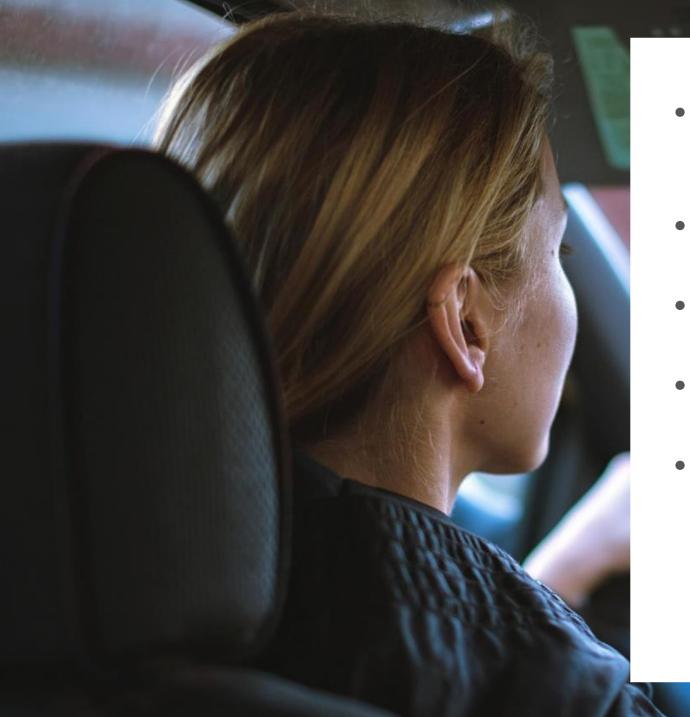


Innovation



Awareness





- We enable more efficient use of resources, often linked to mobility.
- Create real solutions for people.
- Increasing political and public awareness.
- Aim to realize a social and ecological impact.
- We prefer to do this through cooperation

Some of our services in shared mobility



Cozywheels

Cozywheels is a service that allows you to share a vehicle with your neighbors, friends or acquaintances (individuals ...

> know more



Mobitwin

Everybody knows someone who can no longer get around independently due to his age or due to another cause. In order to avoid...

> know more



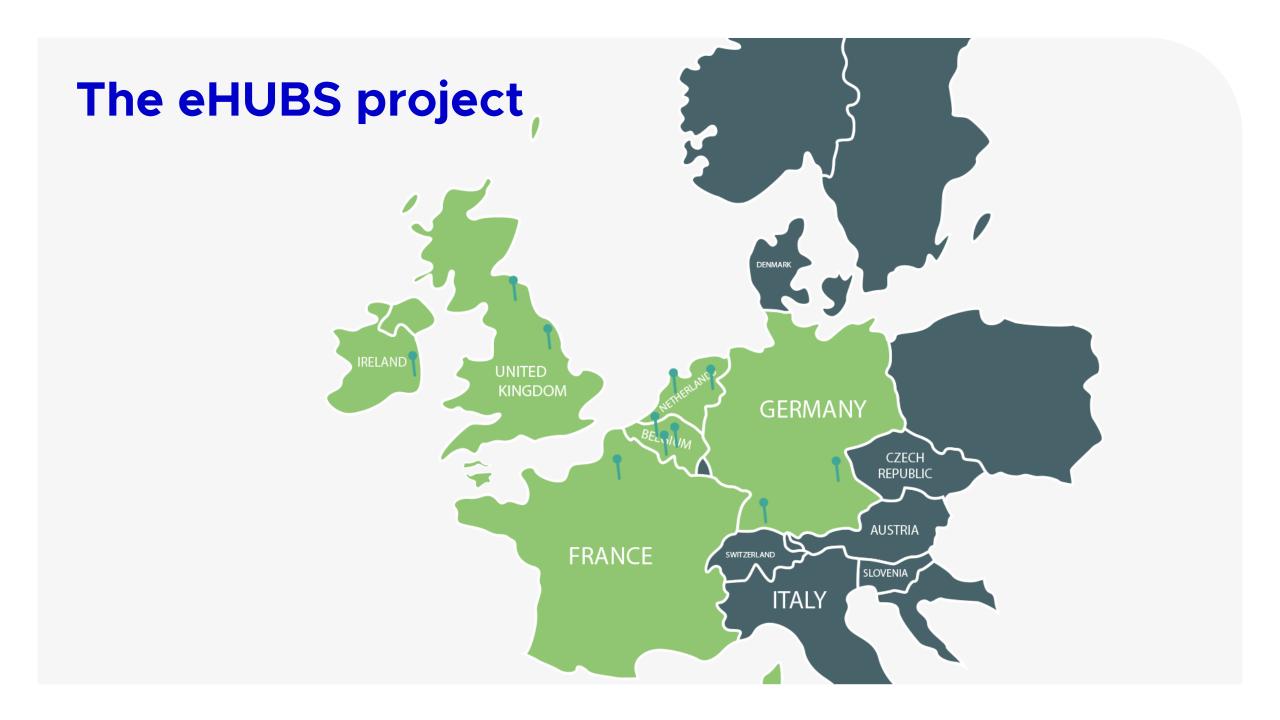
Carpool home-work

Driving together allows you to share costs, makes driving more fun and helps protect the environment. Place an ad and Carpool...

> know more

eHUBS

Let's get physical



What is an eHUB?

- A landmark in the public space where multiple electric mobility modes come together.
- This offers a wide range of possibilities to get from A to B without taking the most obvious mode: a private car.

What have we created?

Different tools to manage & inform:

- A website User
- eHUBS kiosk User
- eHUBS dashboard Municipality

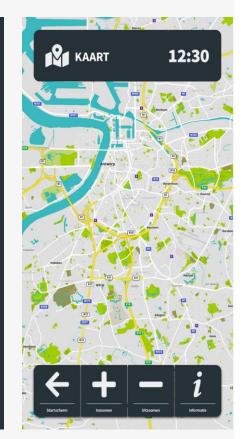
The kiosk











The importance of data

Let's get digital

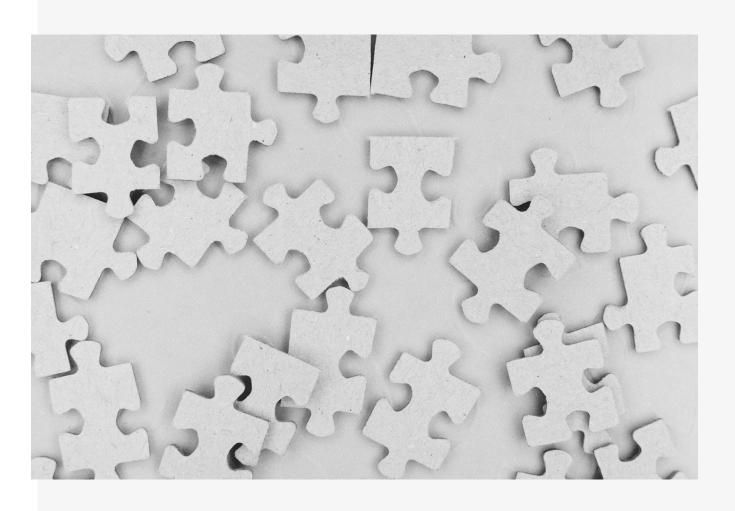
Some key principles

- Mobility mode: a means of transport
- MaaS: Mobility as a Service
- API : Application programming Interface
- Transport Operator / Mobility provider

What's data for?

- Helps with making well founded decisions
- Analyzing the trends over long/short periods of time
- Make targeted improvements & follow up the effect.
- Even if you can't use the data now, in the future you most likely can.

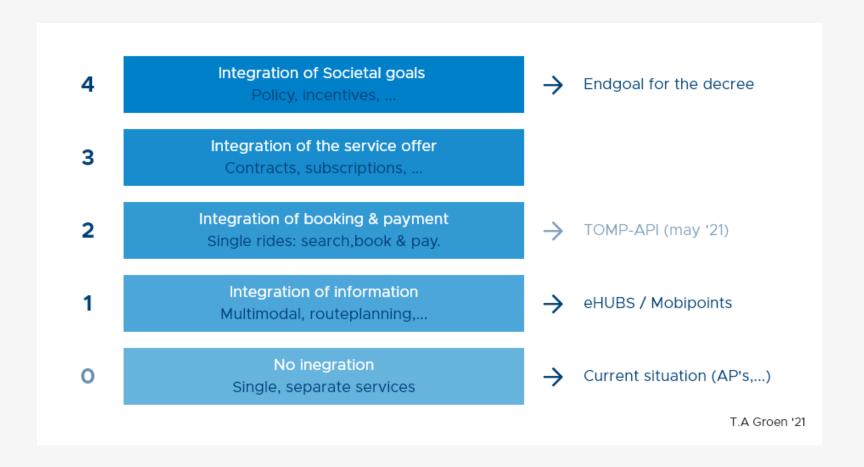
Why standardisation



- It's all different
- Find/work for the perfect fit
- Each piece has its own specifications.
- Forcing it will break it



The four levels of MaaS (sochor et al.)



Data & MaaS (standardized)

- Get mobility modes integrated faster & easier into a MaaS(-like) platform.
- Facilitate regulation for mobility modes
- Create a fair & equal opportunities for all players.
- Offer cities/municipalities/... an insight in the use of mobility on their territory.

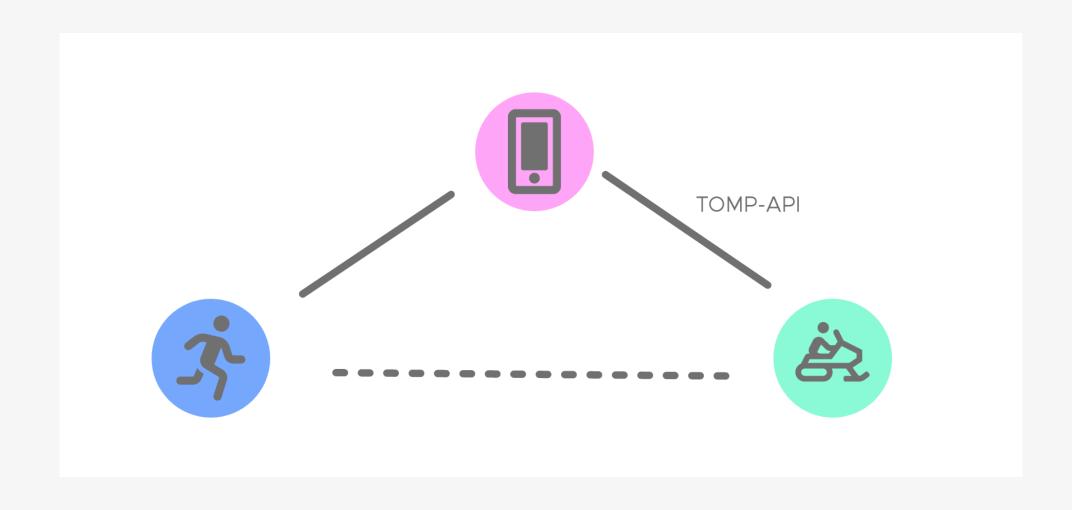
TOMP-API



What is the TOMP-API?

- Technical specification of how to exchange data between Transport
 Operators & MaaS Providers
- Transport Operators will need to provide data conforming to this protocol, MaaS Providers need to interact according to this protocol.
- Covers the complete trip for a user for any Mobility mode
- Open Source model working group with players over the whole spectrum.

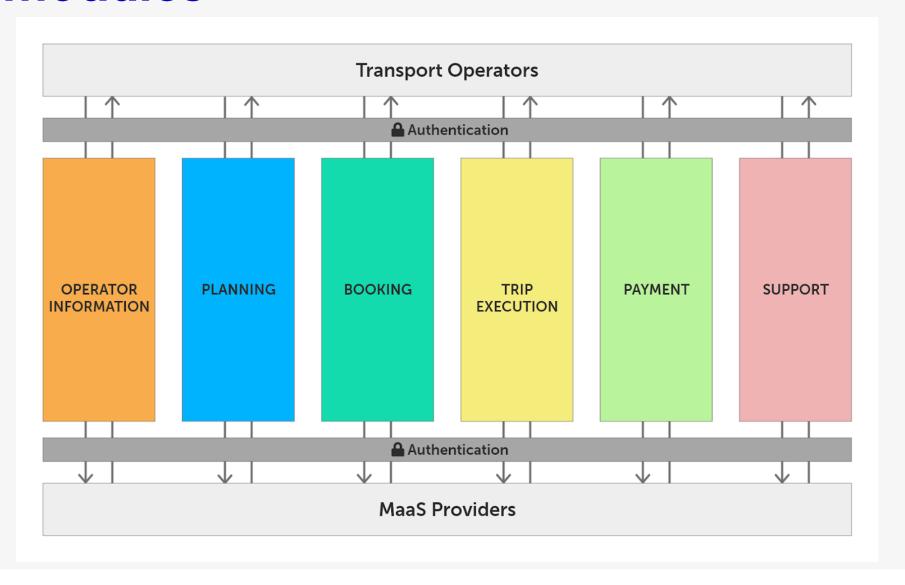
How does it work?



The TOMP working group aims to develop and sustain an internationally governed interoperable open standard for technical communication between Transport Operators and MaaS Providers, by means of definition, improvement, alignment and dissemination.



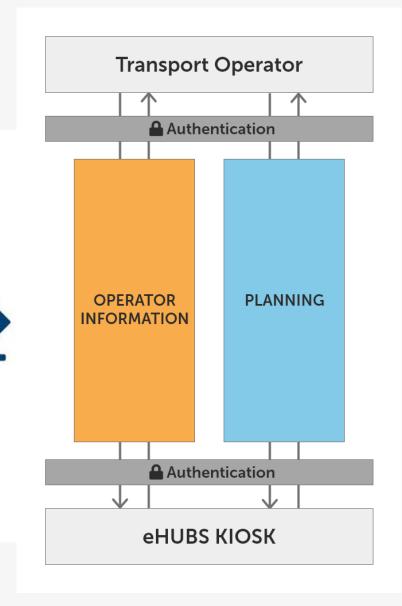
The modules



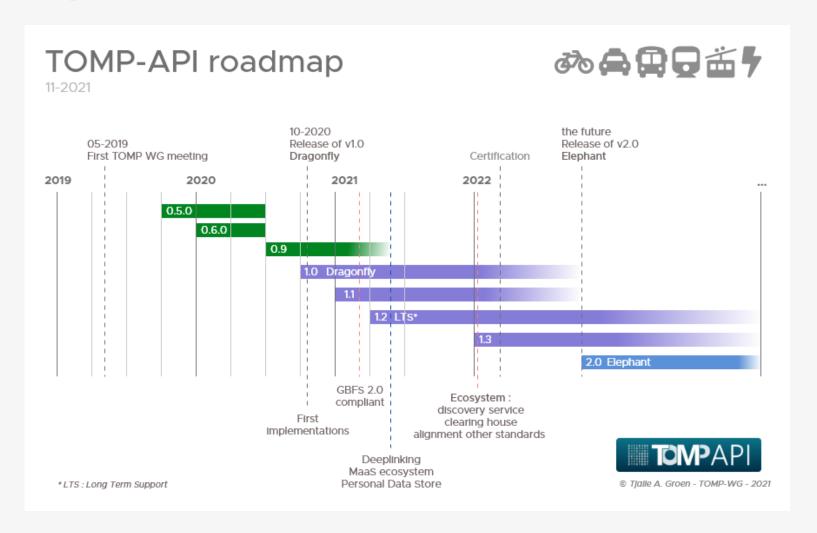
eHUBS







Roadmap



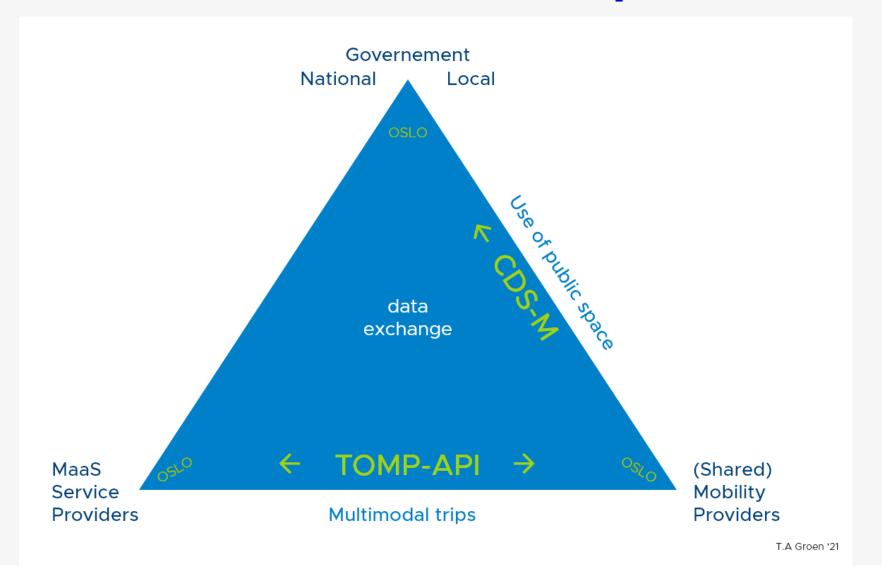
New version coming up

- Early 2022 a new version will be released.
- Compatible with the current version.
- New features :
 - Integration with "On-Demand" mobility solutions (GOFS)
 - More ancillary options (accesibility)
 - Support for external user verification (Blockchain?)

The future

- TOMP-API standard itself is mature, ready & currently being used in real life applications in multiple countries.
- 50+ production versions, 100+ working on implementation.
- Frees up time for other things
 - Dissemination
 - (self)Certification
 - MaaS islands
 - Ecosystem of trust
 - Discovery services
 - Personal information standardized
 - Governance

How do TOMP-API & CDS-M compare?



Other standards

- Europe : NETEX & SIRI
- Global: GTFS (google, apple) GTFS RT (PT), GOFS
- Duitsland: IXSI5 carsharing
- France & USA : GBFS+ bike sharing
 - TOMP-API is built upon GBFS.
- MDS protocol for data exchange between operators and cities
 - CDS-M = European alternative.

Dig a bit deeper?

- . TOMP-API
 - Website : https://tomp-wg.org/
 - WIKI: https://github.com/TOMP-WG/TOMP-API/wiki/TOMP-API-for-dummies
 - Swaggerhub: https://app.swaggerhub.com/apis-docs/TOMP-API-WG/transport-operator_maas_provider_api/1.2.0
 - eHUBS: DL LTP6.3: https://www.nweurope.eu/projects/project-search/ehubs-smart-shared-green-mobility-hubs/#tab-7
- . CDS-M
 - https://www.polisnetwork.eu/wp-content/uploads/2021/03/Principles-CDS-M2.pdf

13 December @ 14:00 - 15:00

Webinar 'Data integration for eHUBS: TOMP-API and CDS-M' (FR)

Online

As one of the partners in the Interreg North-West Europe project eHUBS, focussing on electric mobihubs, Mpact organizes two webinars about data integration and hubs. We want to share with the new pilot regions and cities within the project, but also with every interested stakeholder, our insights into data integration and data sharing. In December, we're...



14

14 December @ 17:00 - 19:00

Student Challenge Final

Online

On Tuesday December 14 (17h-19h CET), the final online event of the international Student Challenge will take place. It is an initiative by A Tribe Called Transport, the youth platform by Mpact. The finalists will present their ideas on how to make their mobility to campus futureproof. The jury is based on the 'FACES' principle....



QUESTIONS?

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