# How to make Shared Mobility Rock SHARED MOBILITY INTEGRATION WITH MAAS

12-11-2021 - Webinar

Tjalle Groen – Mpact vzw



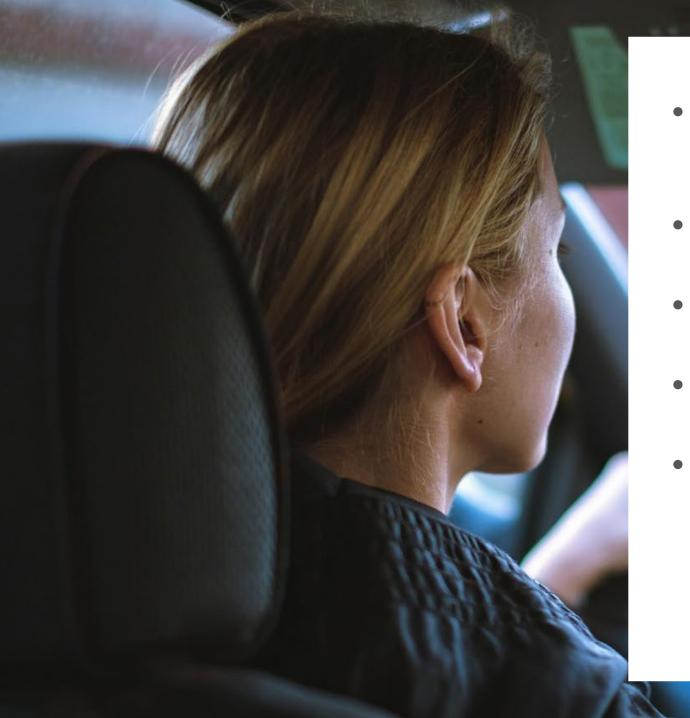


### The topics for today

- 1. Mpact
- 2. eHUBS
- 3. Why should we standardize our data?
- 4. TOMP-API
- 5. CDS-M

## Mpact

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



- 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



#### Cozycar

Have you ever considered starting a carsharing group to share the costs, use and maintenance of a car?
Cozycar, by Autodelen.net...

> know more



#### The Less Mobile Services

A Less Mobile Service connects people with a mobility need to voluntary drivers in order to meet their needs. You probably...

> know more



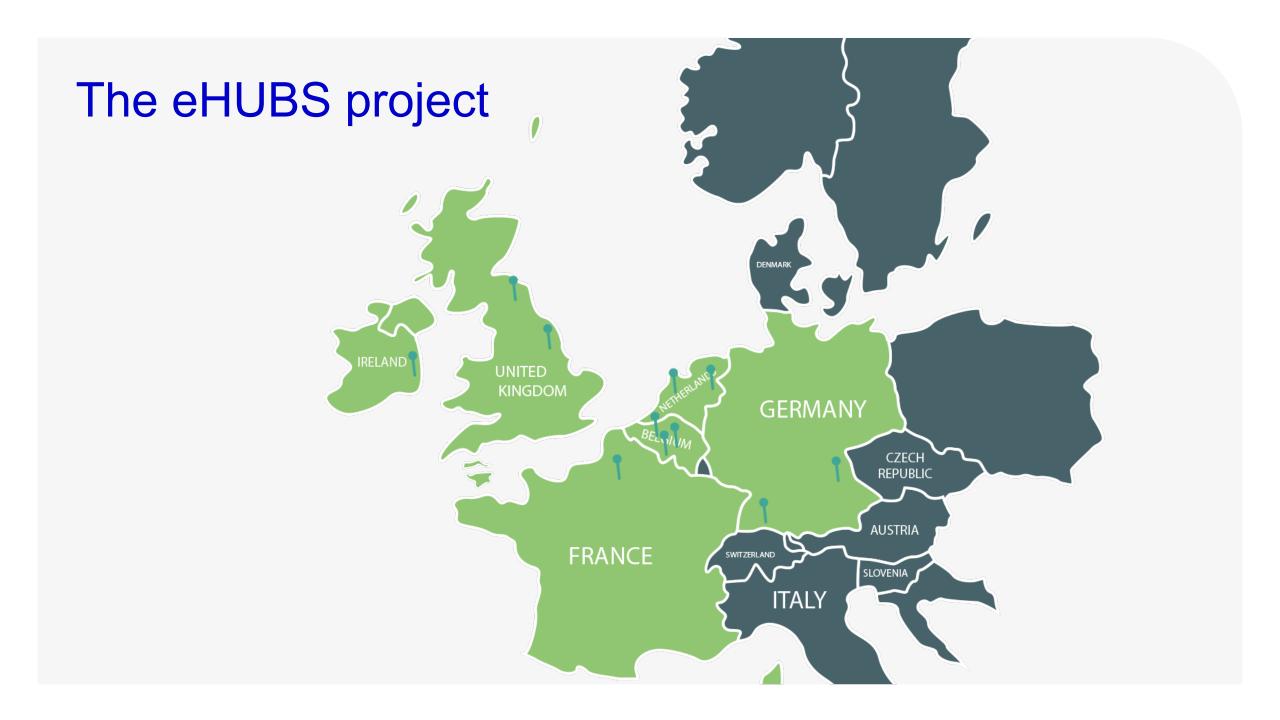
#### Carpool.be

Through carpool.be you can find a carpool partner for regular or single rides. Why carpool? By carpooling, your journey...

> know more

## eHUBS

Let's get physical



#### What is an eHUB / Mobipoint / Mobilpunkt / ...

A place in the public space where multiple 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

#### What's data for?

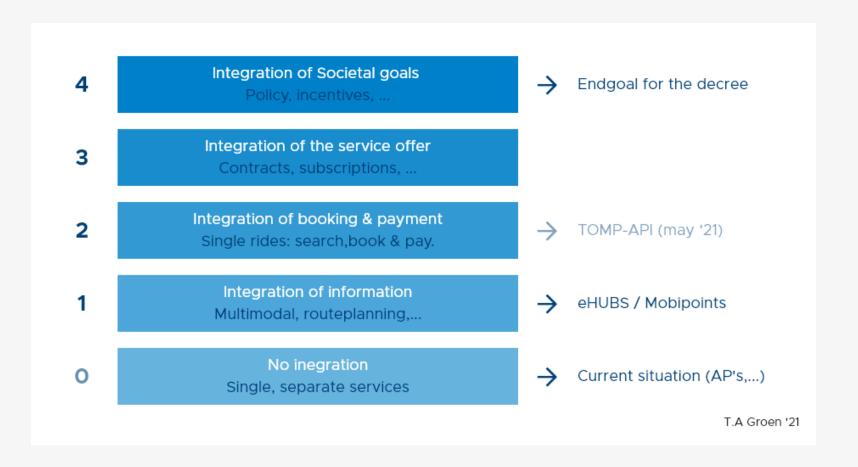
- Helps with making well founded decisions
- Analyzing the trends over long/short periods of time
- Make targeted improvements & follow up the effect.
- Even if you can't use the data now, in the future you most likely can.

### 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 CDS-M

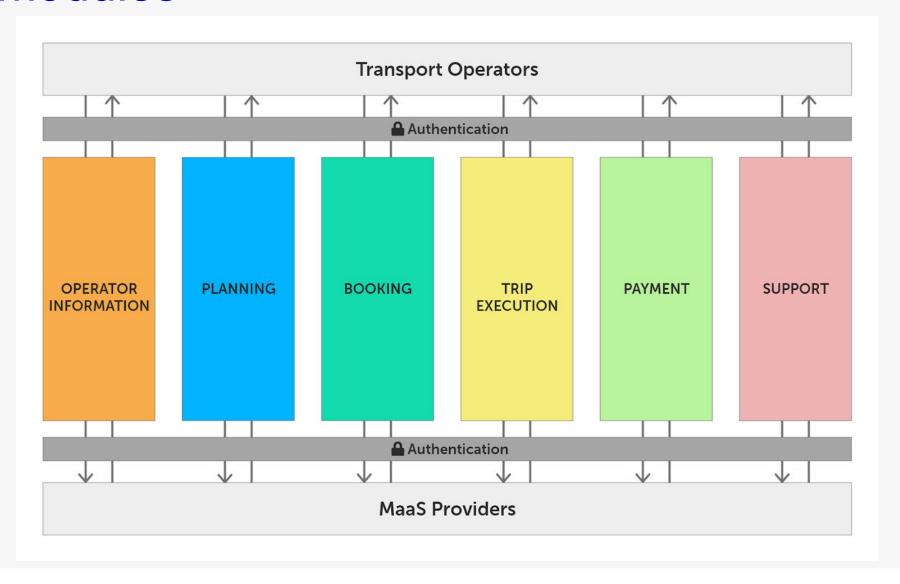
How to create a hit song



#### 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.
- Covers the complete trip for a user for any Mobility mode
- Open Source model working group with players over the whole spectrum.

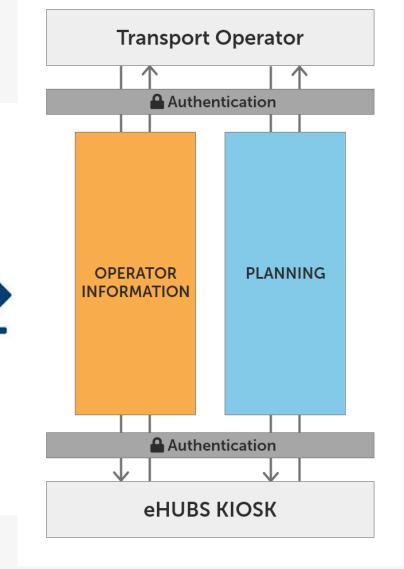
#### The modules



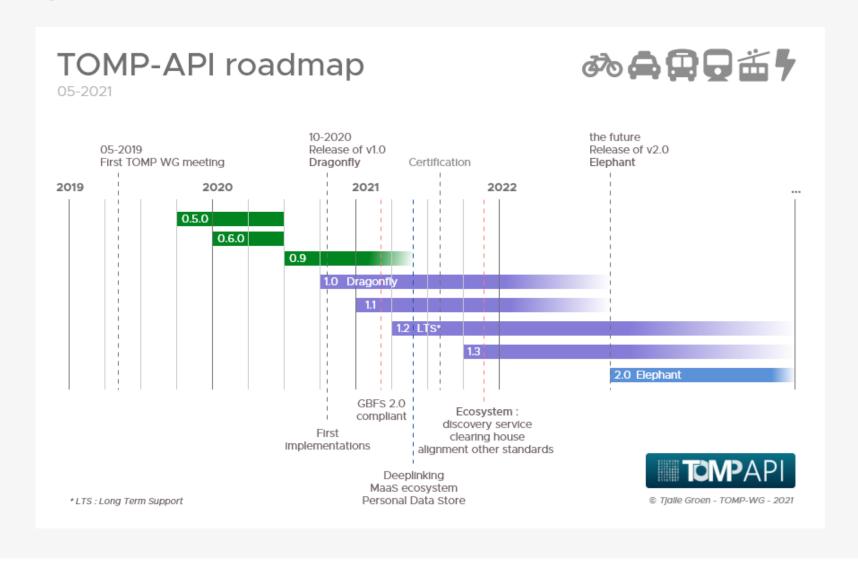
### **eHUBS**







### Roadmap



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.



#### Plans for the future

- TOMP-API standard itself is ready, being used in real life in multiple countries by a large group of parties.
- Frees up time for other things
  - Dissemination
  - (self)Certification
  - MaaS islands
  - Ecosystem of trust
  - Discovery services
  - Personal information standardized
  - Governance

## CDS-M: City Data Standard Mobility



Photo by Julie Fader on Unsplash

#### CDS-M

- Specification / standard for sharing data between mobility operators and municipalities.
- An agreement on how to store and handle shared data.

- Data grouping (aggregation) to comply to privacy regulations.
- Based on existing European expectation, definitions and demands.

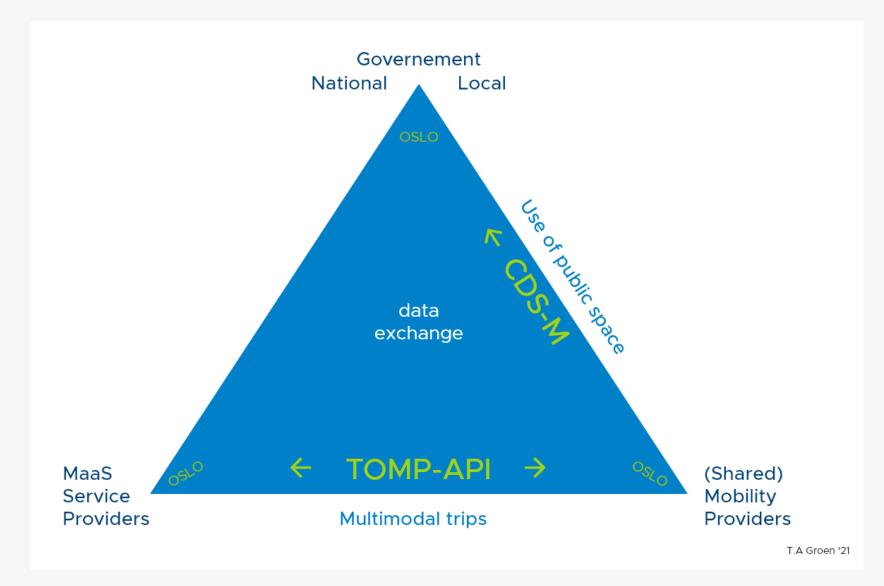
#### CDS-M - Goal

- To better understand the effects of shared mobility on public space.
   (fe. Accessibility, quality of life,...)
- CDS-M will become a tool for development, adjustment and improvement of policy.
- Optimal usage of public space, f.e. by dynamic traffic flow en permitable areas. vergunninggebieden.
- Easy exchange of information derived from the data.

#### CDS-M

- This standard is in full development
- First version of the blueprins has been published
- End 2021 (or Q1 2022) an update will follow
- Open workinggroup if interested you can get involved.
- Contact : cds-m@amsterdam.nl

# How do they 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 voor data exchange between operators and cities
  - CDS-M = European alternative.

#### Dig a bit deeper?

#### . TOMP-API

- Website : <a href="https://tomp-wg.org/">https://tomp-wg.org/</a>
- WIKI: <a href="https://github.com/TOMP-WG/TOMP-API/wiki/TOMP-API-for-dummies">https://github.com/TOMP-WG/TOMP-API/wiki/TOMP-API-for-dummies</a>
- Swaggerhub : <a href="https://app.swaggerhub.com/apis-docs/TOMP-API-WG/transport-operator-maas-provider-api/1.2.0">https://app.swaggerhub.com/apis-docs/TOMP-API-WG/transport-operator-maas-provider-api/1.2.0</a>
- eHUBS : DL LTP6.3 : <a href="https://www.nweurope.eu/projects/project-search/ehubs-smart-shared-green-mobility-hubs/#tab-7">https://www.nweurope.eu/projects/project-search/ehubs-smart-shared-green-mobility-hubs/#tab-7</a>

#### . CDS-M

https://www.polisnetwork.eu/wp-content/uploads/2021/03/Principles-CDS-M2.pdf

#### **QUESTIONS?**

Tjalle Groen
tjalle.groen@mpact.be





