Report of results after
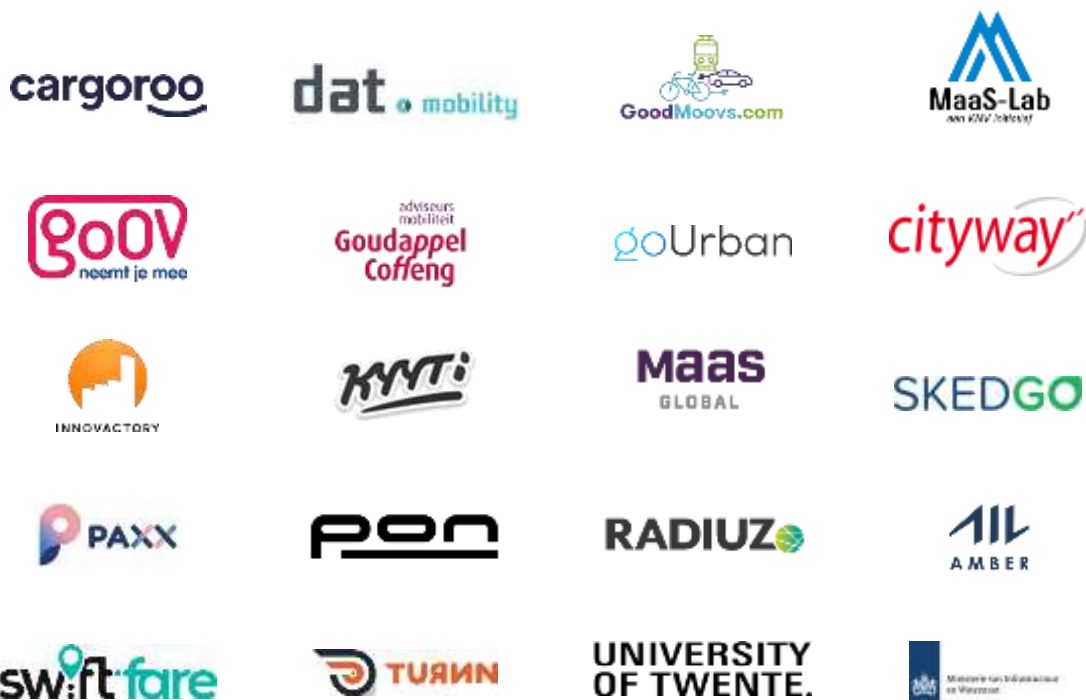# 20 TOMP-API working group meetings

4th March 2020

What is the goal of this working group?
To specify a Transport Operator to Mobility Provider Application Programming Interface (TOMP-API) that allows Mobility (or MaaS) Providers (MPs) to access information on Transport Operators' (TOs) services and assets in a standardized and automated way. The API needs to be implemented by the MaaS Providers that participate in the MaaS-pilots of the Ministry of Infrastructure and Water Management in the Netherlands.

Who is developing and using TOMP?
The TOMP working group is open for all stakeholders that want to participate in the development of the API. Physical meetings are organized on a bi weekly basis and attended by 15 to 20 persons. The following organizations (in no particular order) are actively involved in the implementation and/or realization of the TOMP-API.

The following parties have adopted TOMP:

What has been done so far?

The Blueprint for a Transport Operator to Mobility Provider API V1.2 was published on 1 March 2020. Work on version 1.3 started after publication. Collaboration has been set up through GitHub: https://github.com/TOMP-WG/TOMP-API

A digital version of the necessary API calls is available for consultation at: https://app.swaggerhub.com/apis/TOMP-API-WG/transport-operator_maas_provider_api/1.2

Also, a WIKI-page has been set up as a quick start guide for developers interested in using the TOMP-API: https://github.com/TOMP-WG/TOMP-API/wiki

Other updates will be shared at Linkedin: https://www.linkedin.com/company/tomp-wg

Which themes have been addressed?

Version 1.2 has been updated by the Transport Operator – MaaS Provider Working Group (TOMP-WG) after an in-depth analysis of the functionalities presented in the previous version and of their possible implementation limitations. To improve the capabilities of the TOMP API, the major changes presented in version 1.2 are:

- License of the TOMP API has been set as Apache 2.0.
- Update of the Payment module, defined via journal entries.
  - o Added a fare object
  - o Added composite legs (for trips with overlays or constructed by a broker)
  - o Added fare scales (e.g., for the first hour, the second hour)
  - o Added extra conditions for payment (upfront-payment and pay-when-finished) and optional bank account.
- Update of the Planning and Booking modules in accordance with the Payment update.
  - o Overlays can now be handled in a composite-leg
  - o Added a pricing field

Other addressed themes are authentication, dissemination and future governance of the working group. Possible forms of authentication, such as external certificates or via JSON web tokens are explored and will be elaborated.

Also, the possibility to develop or participate in TOMP related standards has been discussed. Such as the TOMP-CDS or city data specification for the exchange of data with cities.

Which milestones have been defined?

Version 1.3 of the Blueprint is scheduled to be published in July 2020, it will include updated modules of planning, booking and payment and new modules for user privacy and support.

For more information and to join this working group, please contact Bon Bakermans – bon.bakermans@minienw.nl