

Ministerie van Infrastructuur en Waterstaat

National MaaSprogram Netherlands: lessons learnt so far

UrbanismNext EU Conference

June 10th 2021

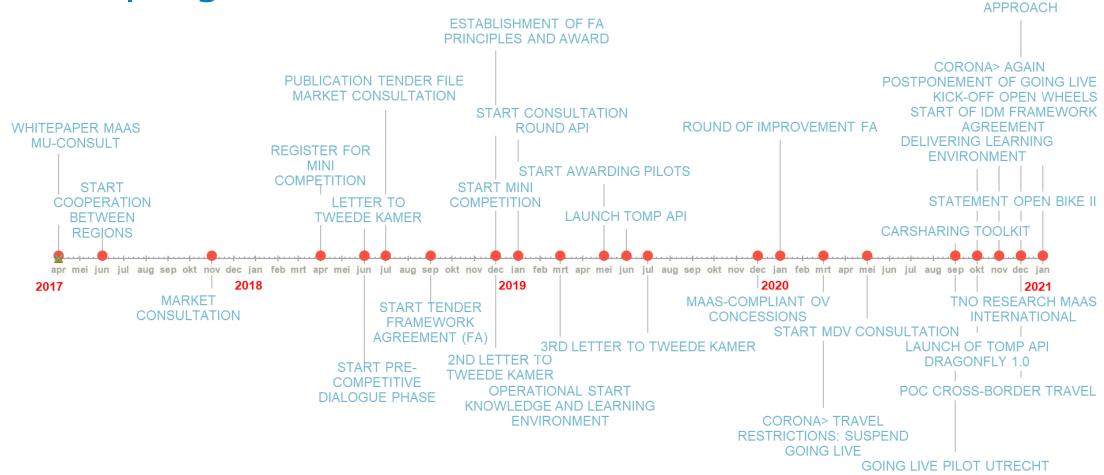
Eric Mink

Program manager MaaS



WHITEPAPER: DUTCH

MaaS-program since 2017

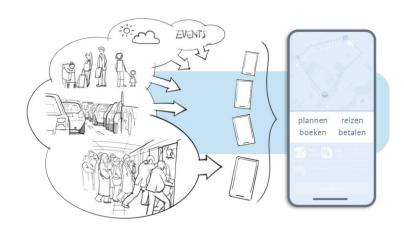


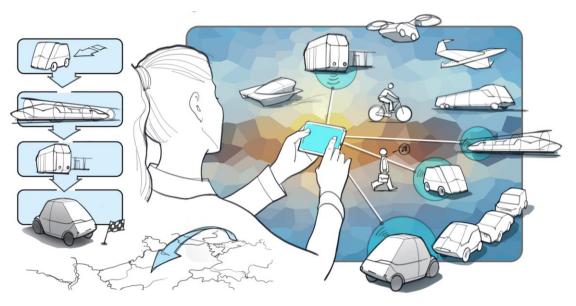




How it all started: definition/functions

- 1. Personal settings and preferences
- 2. Plan
- 3. Book
- 4. Travel (access and control)
- 5. Assistance
- 6. Adjust
- **7.** Pay

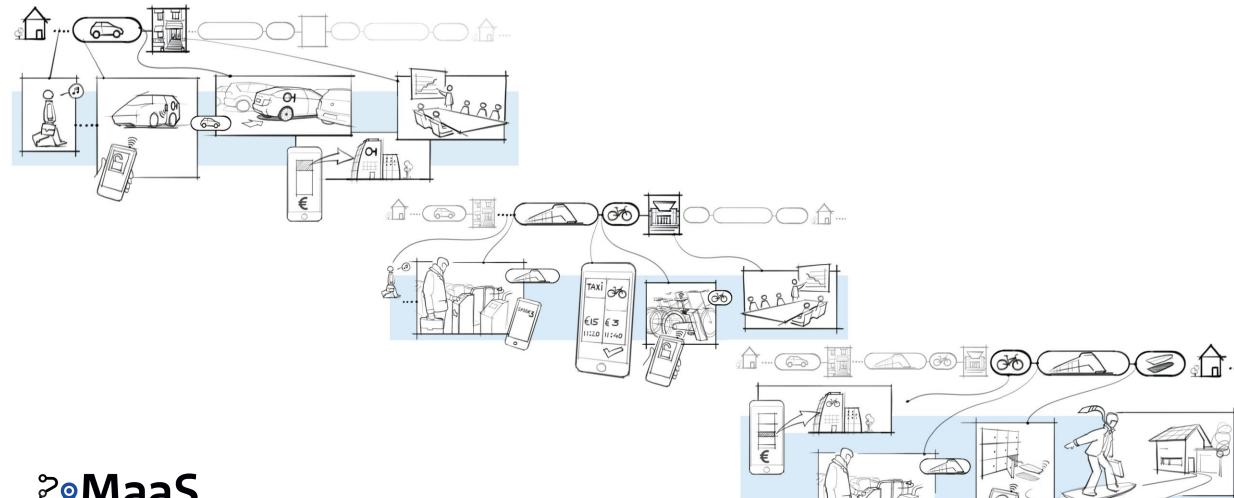








Seamless mobility







Principles for the temporarily Framework Agreement / Public Private Ecosystem NLs for national apps

- Identical MaaS-definition and functionalities
- Data sharing (quid-pro-quo)
- Application of open standards such as TOMP-API
- Open ecosystem, PPP
- Learning together, via Knowledge and Learning Environment
- Non-discrimination
- Level-playing-field
- Privacy- and security
- In 2 yrs viable businesscases, max € 20 mln subsidy for 7 pilots

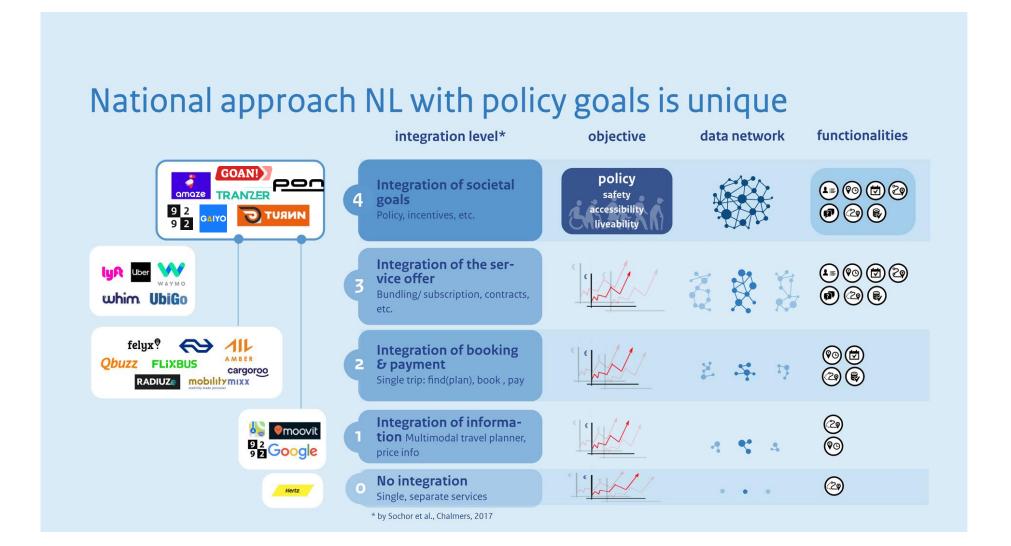








MaaS as a means not an end









Limburg

- sustainable mobility
- offering multimodal, cross-border and door-to-door mobility solutions.

Twente

- better and cheaper target group transport
- small-scale public transport
- smart combination of transport flows.

Amsterdam Zuidas

- accessibility Zuidas
- making better use of the public urban space by offering alternative travel options.

Eindhoven

- sustainable and emission-free mobility for municipal employees
- Eindhoven wants to become a CO2 neutral city.

Groningen-Drenthe

- accessibility of the countryside of Drenthe and Groningen
- affordability of the transportation system
- combining target group transport and regular public transport.

Utrecht Leidsche Rijn, Vleuten en de Meern

- alternative transport options for residents of Leidsche Rijn, Vleuten and de Meern
- reduce the amount of traffic and congestion in the area.

Rotterdam-Den Haag & Rotterdam-The Hague Airport

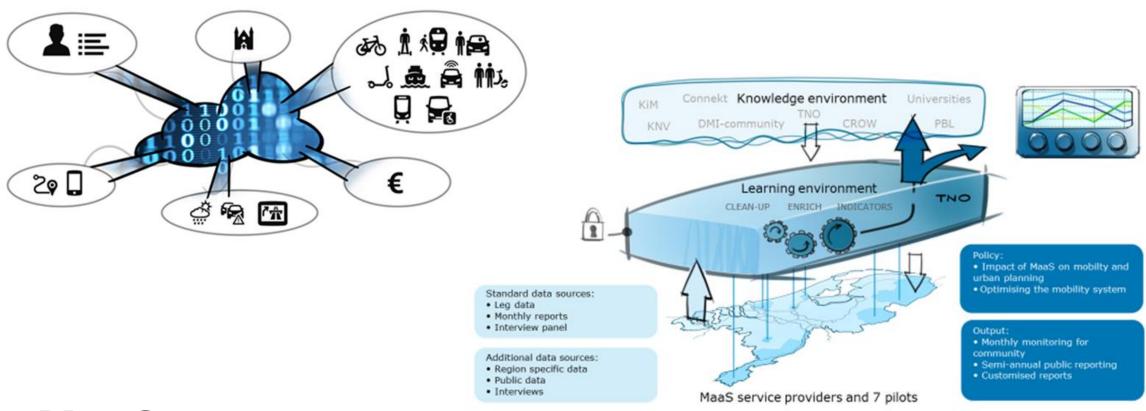
- improve accessibility of Rotterdam-The Hague Airport for travelers and employees
- sustainable and multimodal door-to-door solutions.





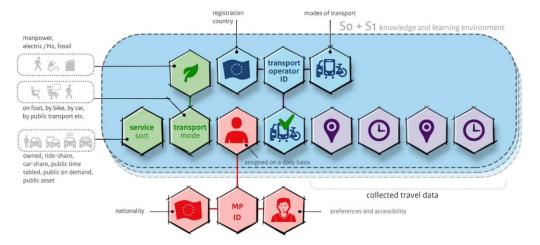


Creation of ecosystem and knowledge building





Standards for data exchange crucial



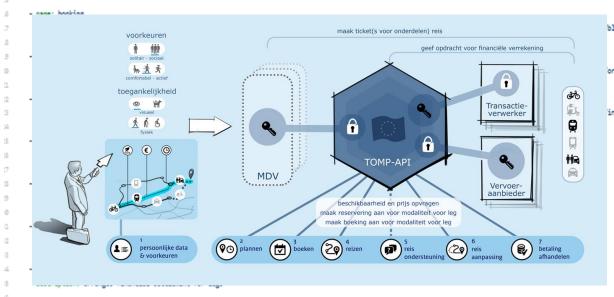


10 m

tags

- name: planning

description: gives information about transport asset availability and pricing [free_bike_status and system_pricing_plans in GBFS]. The endpoints in this p



name: support

description: support for the user while the leg is ongoing

url: "http://www.apache.org/licenses/LICENSE-2.0.html"

- name: Ti

description: the Transport Operator's endpoints

- name: MP

description: the MaaS Service Provider's endpoints

security. Allowed methods basic (in header: Authorization: Basic ZGVtbzpwQQUIdzByZA==),

bearer (in header: Authorization: Bearer <token>)

Api-key (in header: X-API-Key: abcdef12345)

QAuth2 and OpenId are also available

The exact ways to authenticate will be described in a later version



Harmonisation of contracts, an example: Maas-readiness obligations for Public Transport Operators in NLs

(to be implemented before 1-1-2022)



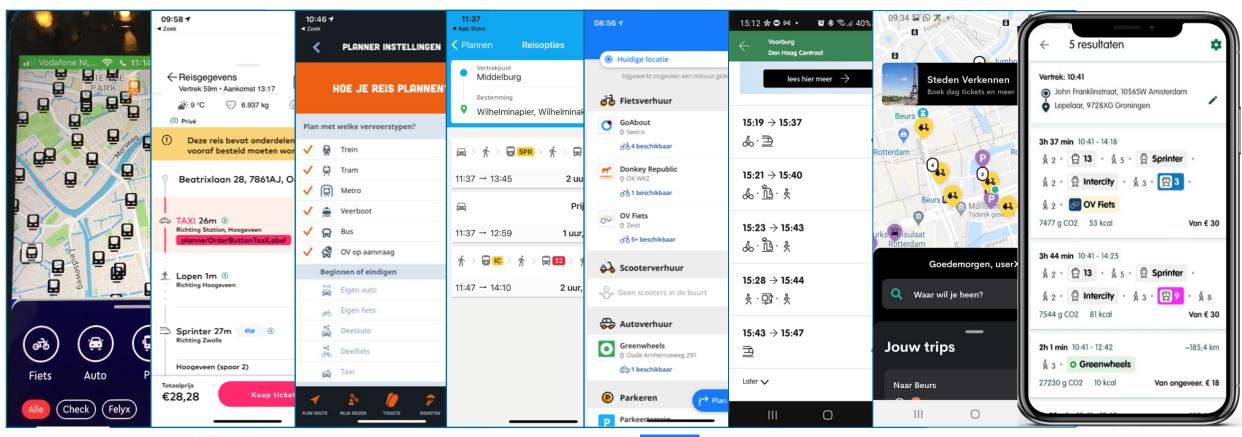
8 MaaS-obligations for PSO-contracts:

- 1. Cooperation on products from 3rd parties, at least a reference ticket offer, without fee, to be determined by transport authority
- Acceptance of tickets/products on new (digital) bearers
- Reasonable tariff for API's
- Cooperation on data-infrastructure governments
- 5. Transparant conditions for API's
- Conditions for contract termination
- 7. Non-discrimination at complaint handling
- 8. Timely referral of complaints chain-trip to 3rd parties



7 pilots result in 8 national apps























Adjusting behaviour

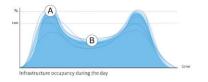








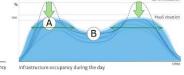


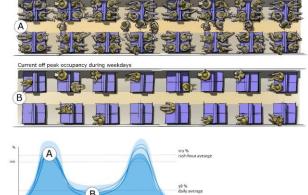




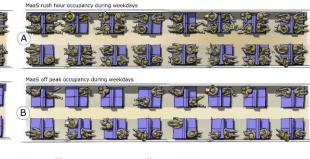


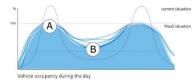






Vehicle occupancy during the day









Next steps: creation of a public private framework agreement (code of conduct) for data exchange

2020

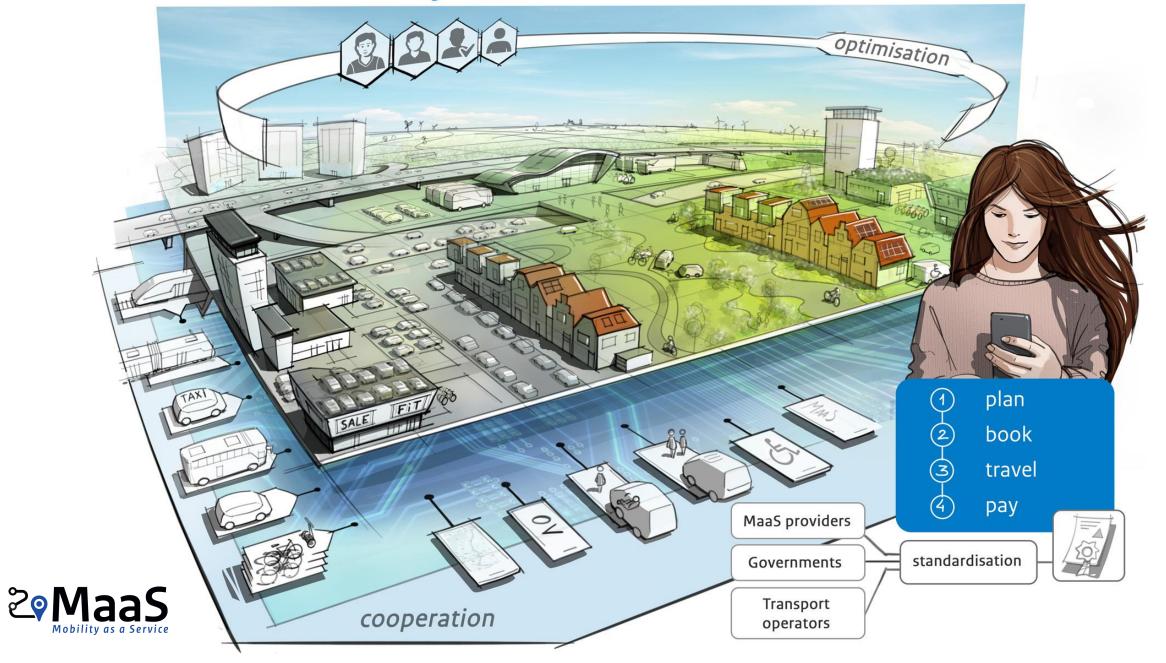
- MaaS-readiness
- Carsharing toolkit
- OpenBike II
- Governance report
- Start CDS-M
- Changed travel behavior
- > Etc...

2021

- Start pilots
- Start Learning Environment
- Gain first knowledge
- Open Wheels
- Shared car parking permit
- Building on public-private agreement system (PPP)
- Perpetuating travel behavior
- > Etc...



MaaS: Mobility as a Service







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