



Ministry of Infrastructure
and Water Management

Mobility as a Service: real-time optimisation of the mobility system on policy objectives

Digital Transport Days, 7 October 2019

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The Netherlands

September 2019

 **MaaS**
Mobility as a Service

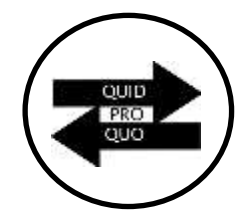
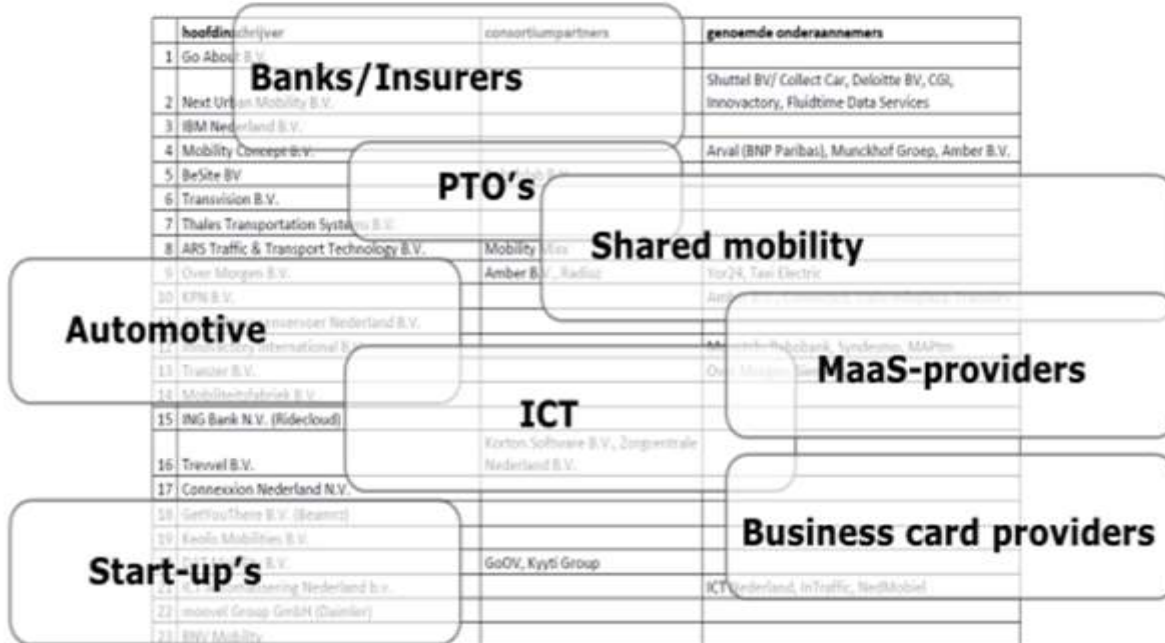


24 MaaS-providers in Framework agreement for MaaS-pilots

7 national pilots (to be awarded) after mini-competitions

hoofdinrichting	consortiumpartners	genoemde onderaannemers
1 Go About B.V.		
2 Next Urban Mobility B.V.		Shuttel BV/ Collect Car, Deloitte BV, CGI, Innovactory, Fluidtime Data Services
3 IBM Nederland B.V.		
4 Mobility Concept B.V.		Arval (BNP Paribas), Munckhof Groep, Amber B.V.
5 BeSite BV		
6 Transvision B.V.		
7 Thales Transportation Systems B.V.		
8 ARS Traffic & Transport Technology B.V.	Mobility Eas	
9 Over Morgen B.V.	Amber B.V., Radiaz	Hor24, Taxi Electric
10 KPN B.V.		Amber B.V.
11 Connexxion Nederland B.V.		Amber B.V.
12 Mobility International B.V.		Amber B.V., Redobank, Syndrom, MAPPro
13 Transar B.V.		Over Morgen B.V.
14 Mobiliteitsfabriek B.V.		
15 ING Bank N.V. (Ridecloud)		
16 Trevvel B.V.	Korton Software B.V., Zorgcentrale Nederland B.V.	
17 Connexxion Nederland N.V.		
18 GetYouThere B.V. (Beamix)		
19 Knack Mobilites B.V.		
20 Connexxion Nederland B.V.	GoOV, Kyyti Group	ICT Nederland, InTraffic, NextMobiel
21 Connexxion Nederland B.V.		
22 Innovent Group GmbH (Daimler)		
23 BNV Mobility		
24 West Tech Solutions B.V.		

NB: de volgorde van deze lijst is bepaald op basis van het tijdstip van indienen van de inschrijving en niet op basis van de beoordeling





Blueprint for open TOMP-API (Transport Operator MaaS Provider)



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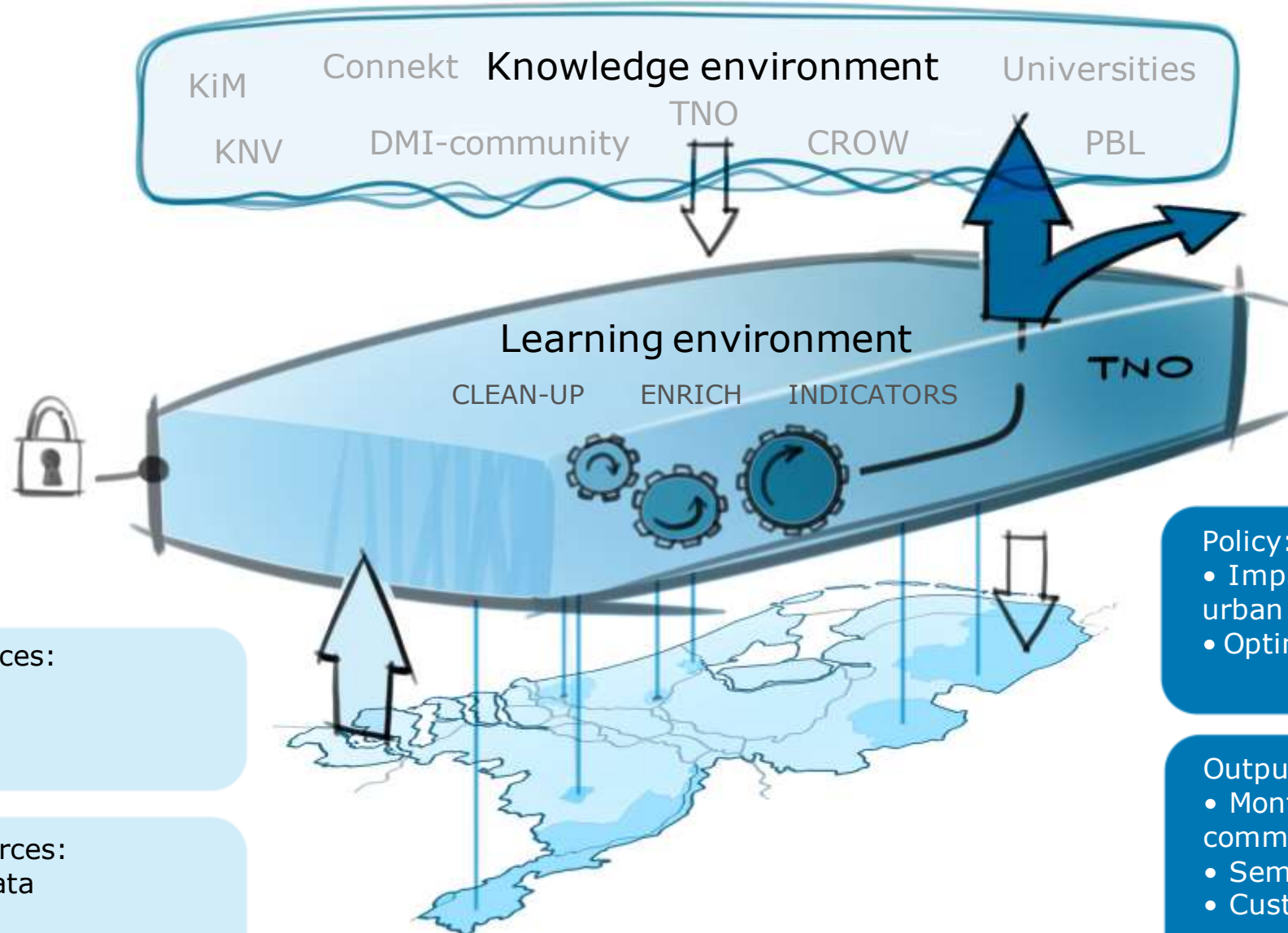
1 openapi: 3.0.0
2 # Added by API Auto Mocking Plugin
3 servers:
4   - description: SwaggerHub API Auto Mocking
5     url: https://virtserver.swaggerhub.com/efel85/GBFS/1.0.0
6 info:
7   description: General Transport Operator API Specification
8   version: "1.0.2"
9   title: General Transport Operator API Specification
10  contact:
11    email: edoardo.felici@ndw.nu
12  license:
13    name: Apache 2.0
14    url: 'http://www.apache.org/licenses/LICENSE-2.0.html'
15
16 tags:
17   - name: general information
18     description: general information
19   - name: asset availability
20     description: general information
21   - name: pricing
22     description: general pricing information
23   - name: booking
24     description: general booking information
25
26 GET /bookings/
27
28 POST /bookings/
29
30 GET /bookings/{id}
31
32 security:
33   - oauth2
34
35 /information/system_information:
36   get:
37     tags:
38       - general information
39     summary: describes the system
40     description: Describes the system including System operator,
41                contact info, time zone
42
43 responses:
44   200:
45     $ref: '#/components/schemas/system_information'
46   400:
47     description: bad input parameter
48
49 /information/station_information:
50   get:

```




Standaardising via ETC





- Standard data sources:
- Leg data
 - Monthly reports
 - Interview panel

- Additional data sources:
- Region specific data
 - Public data
 - Interviews

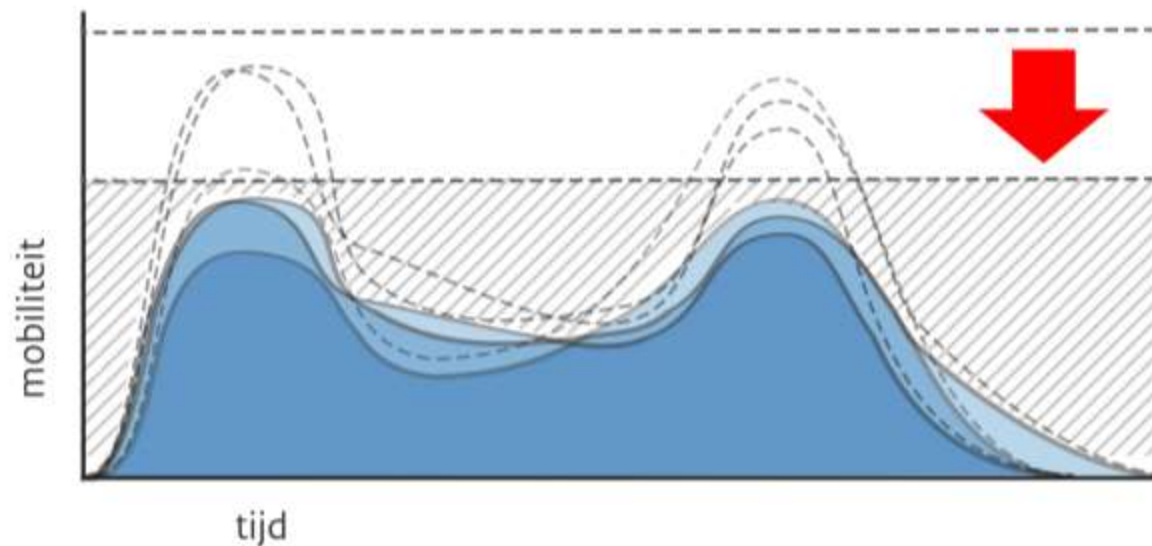
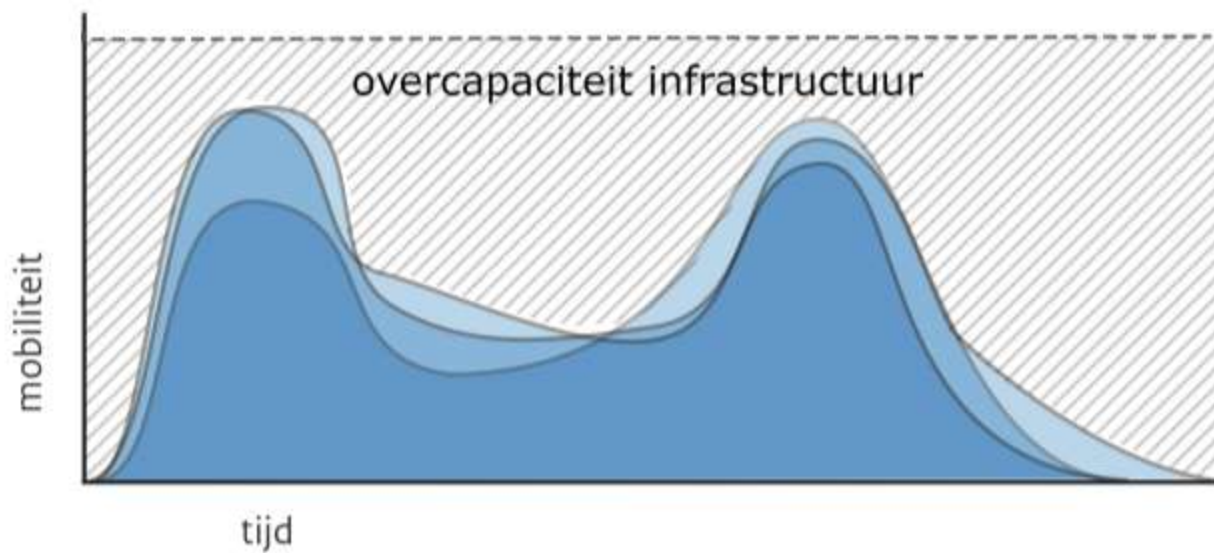
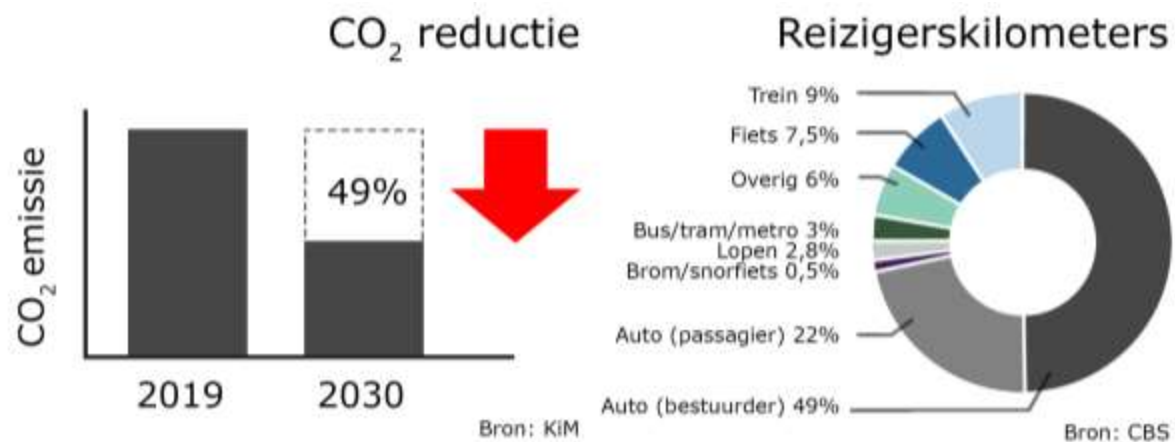
- Policy:
- Impact of MaaS on mobility and urban planning
 - Optimising the mobility system

- Output:
- Monthly monitoring for community
 - Semi-annual public reporting
 - Customised reports

MaaS service providers and 7 pilots



Optimising mobility with MaaS





options **Booking**

12:01 Startstreet 5
28 min. ride-share

12:27 Metrostation 1
12 min. metro

12:59 Metrostation 2
8 min. cycling

12:47 Endstreet 8

plan book travel pay



Discussion



Further information:

www.dutchmobilityinnovations.com

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[@MaaSMinIenW](https://twitter.com/MaaSMinIenW)