



Ministry of Infrastructure  
and Water Management  
of the Netherlands

# MaaS International Ticketing

Proof of Concept Germany-  
Netherlands based upon  
European Travelers Club  
scheme

21ST FLORENCE RAIL FORUM: TOWARDS  
INTERNATIONAL PASSENGER CORRIDORS

March 19 2021

Eric Mink

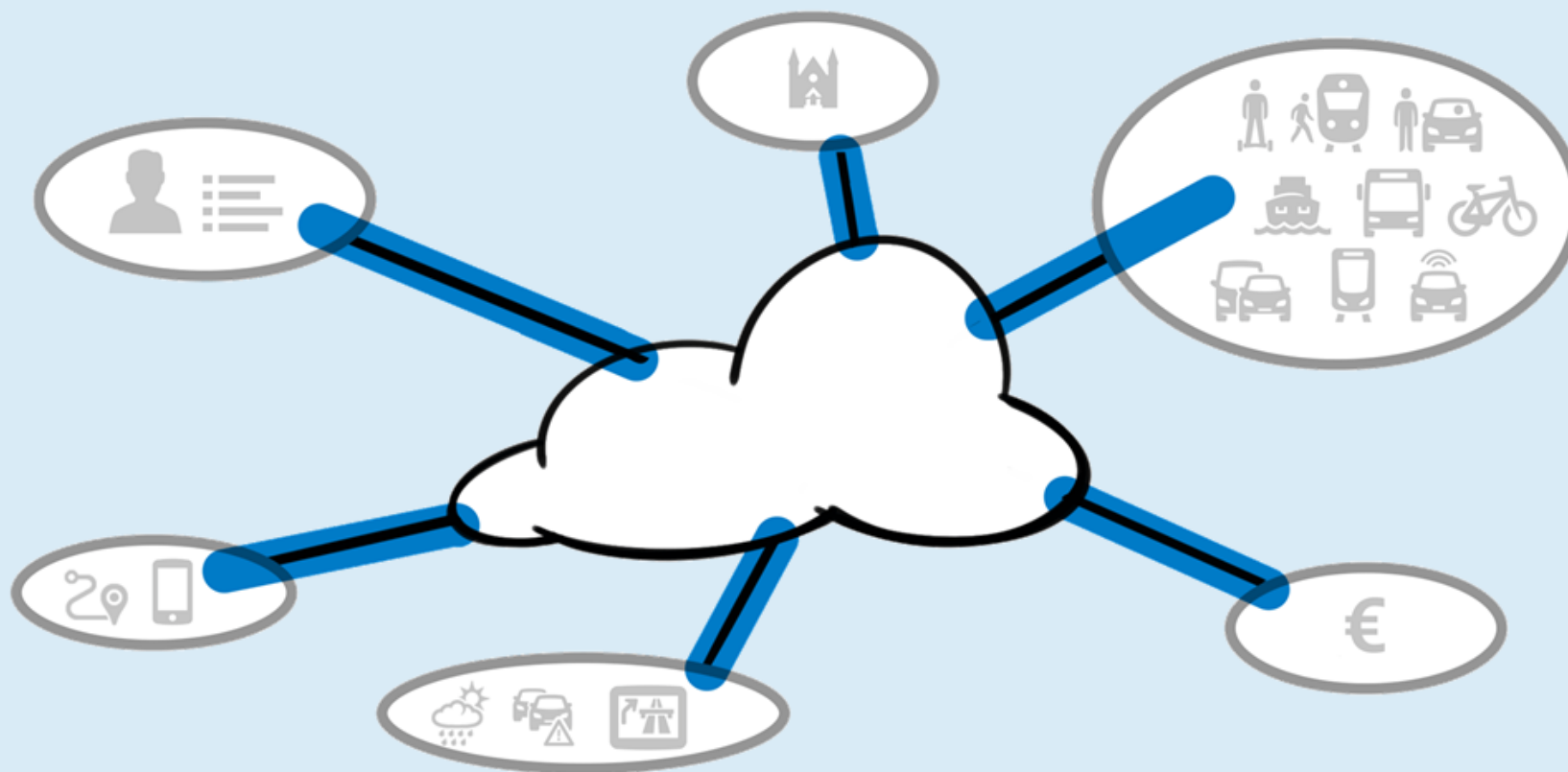








# No boundaries from a technical point of view





# TOMP-API in MaaS; travel in the Netherlands

preferences



solitary - social



comfortable - active

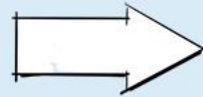
accessibility



vision



mobility



MaaS  
Provider

TOMP-API

give order for financial clearing

Transaction  
Processor

Transport  
Operator

inquiry for availability and price  
make modality reservation for leg  
make modality booking for leg

1  
personal data  
& preferences

2  
plan

3  
book

4  
travel

5  
travel  
support

6  
modify  
trip

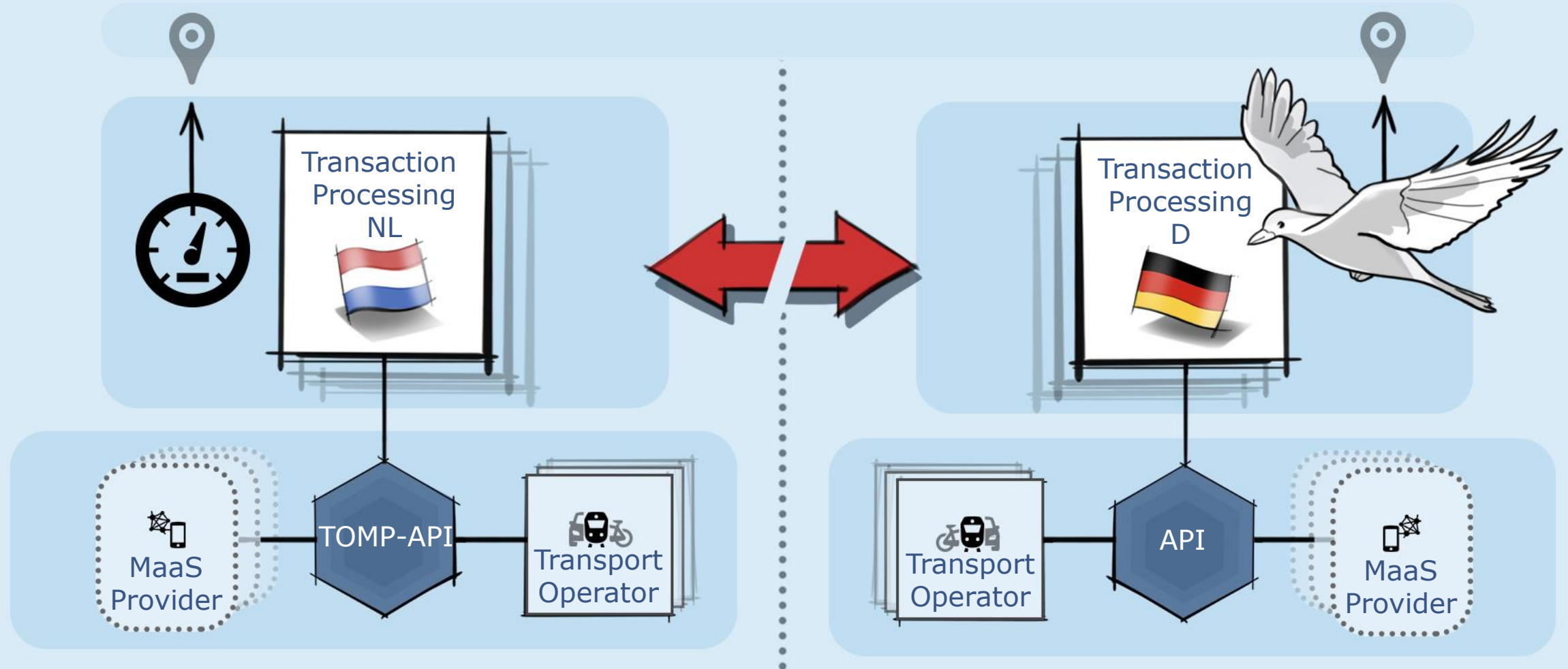
7  
pay &  
settle account



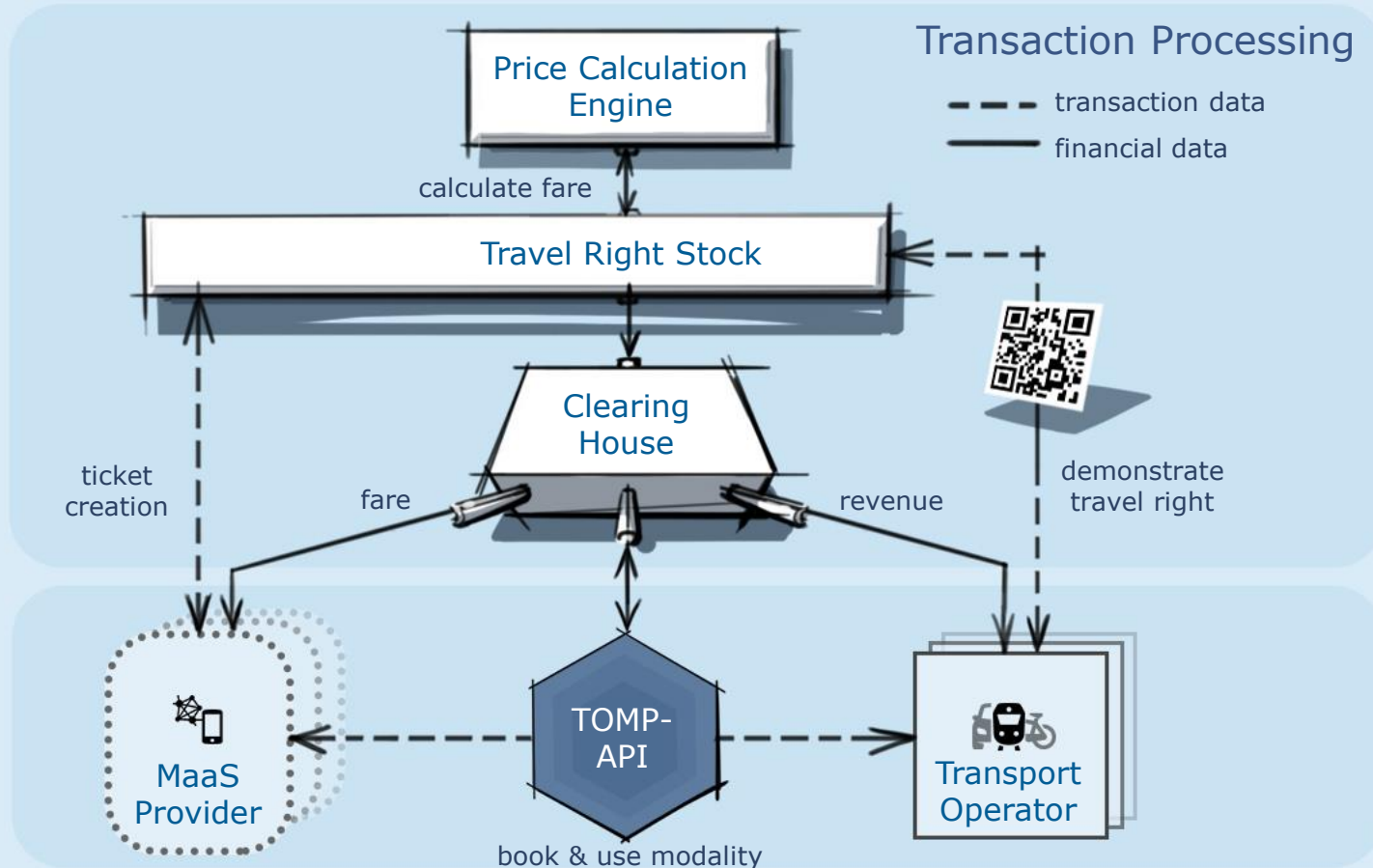


# International Transaction Processing

Current incompatible schemes



# International Transaction Processing



MaaS components:

**Price Calculation Engine:** calculates fare while planning and after finishing the trip

**Travel Right Stock:** keeps travel rights (e.g. tickets, subscriptions, pay-as-you-go travel right) for validation during trip and clearing after the trip

**Clearing House:** clears revenues and cost between MaaS parties

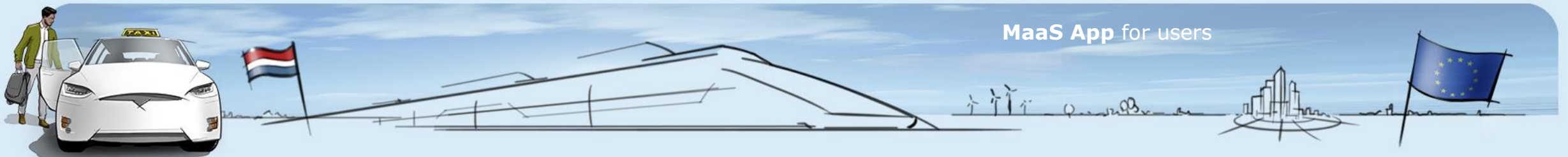
**Dynamic Token:** for demonstrating the right to travel; changes dynamically to prevent fraud

**Transport Operator:** public and private suppliers of mobility

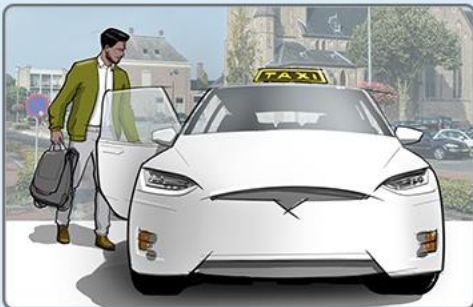
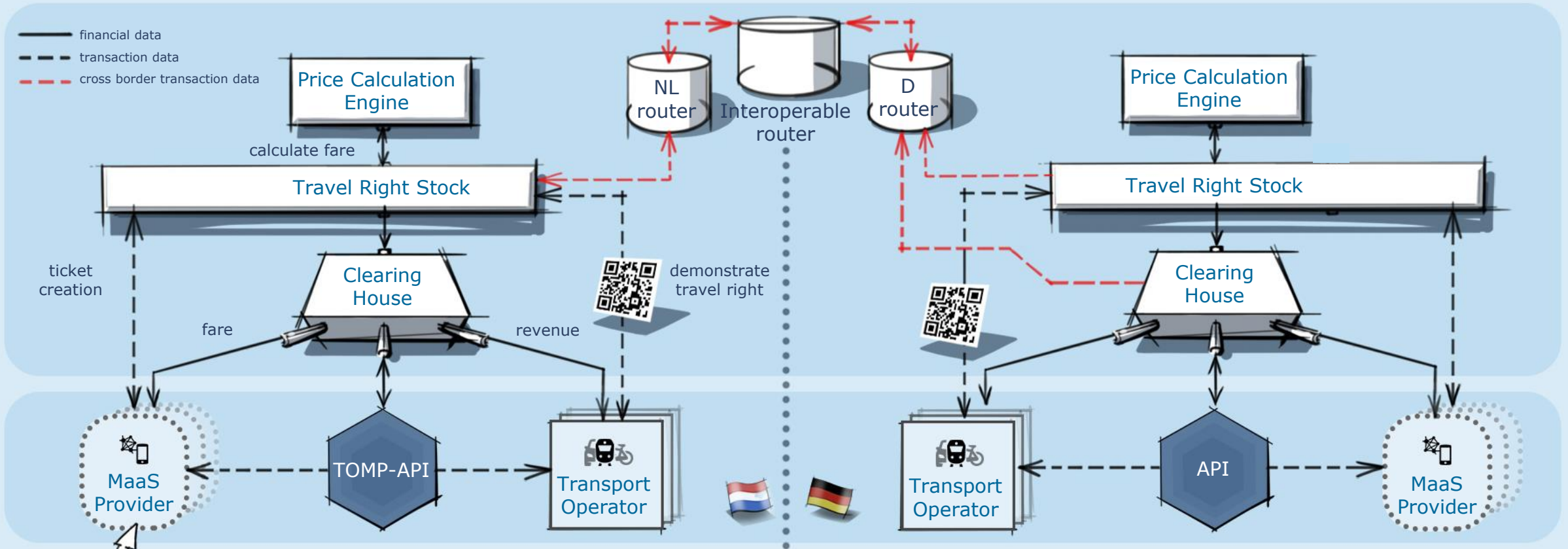
**MaaS Provider:** to register your travel account, for planning, booking, support and payment trip

**TOMP-API:** dialogues between MaaS Provider and Transport Operator

**MaaS App** for users

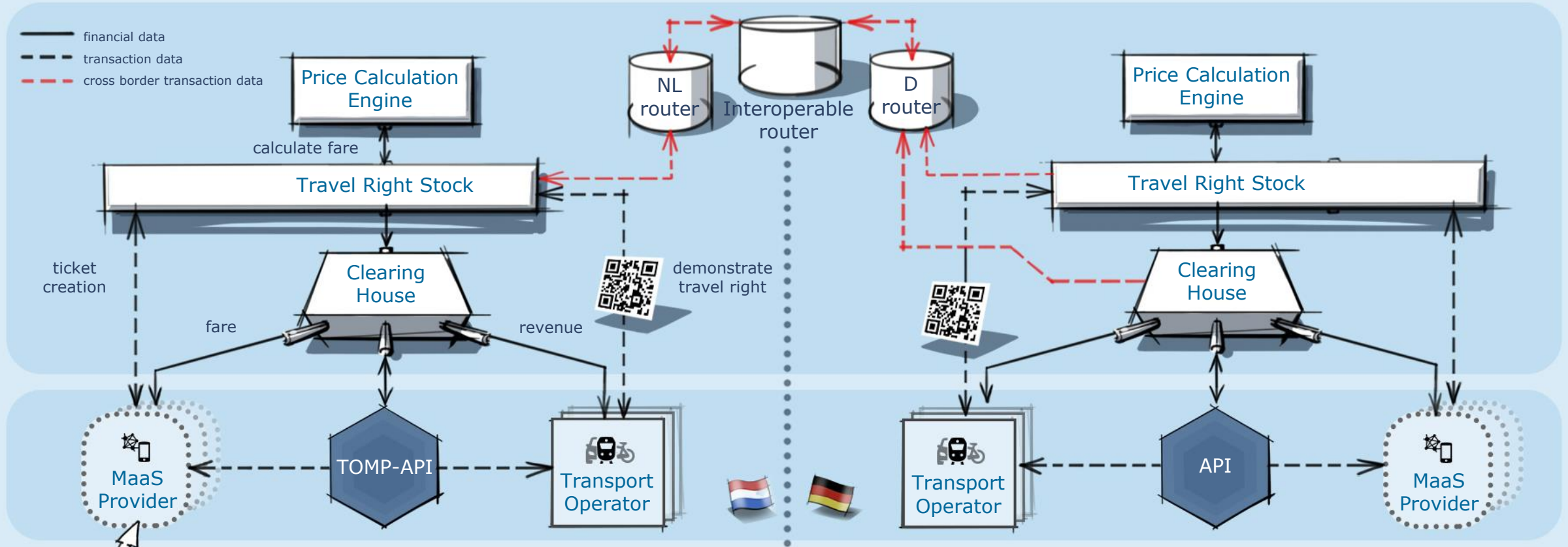


# International MaaS travel: all modalities



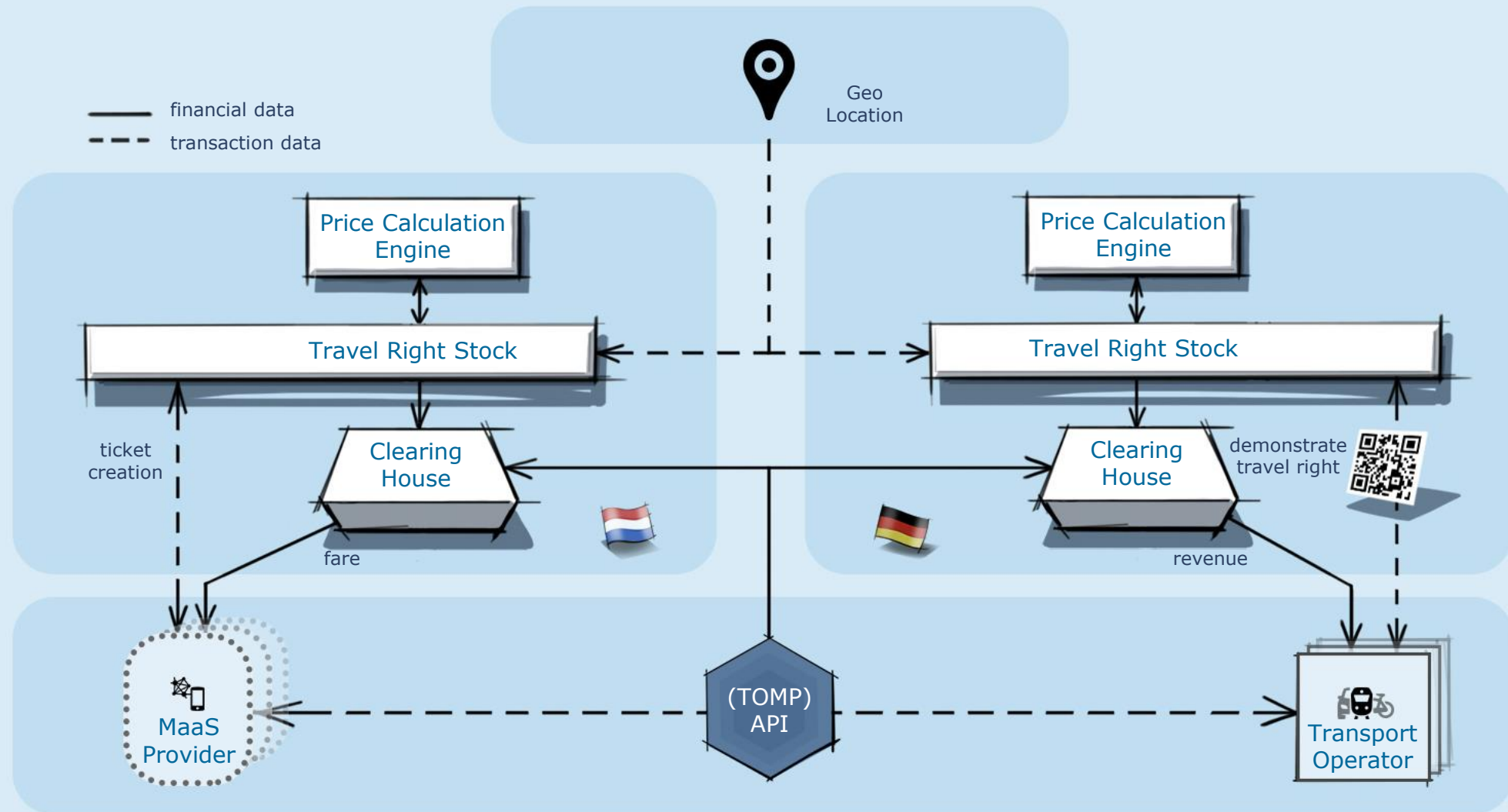


# International MaaS travel: international rail travel





# Future /ideal international Transaction Processing





Ministerie van Infrastructuur en  
Watermanagement



 **MaaS**  
*Mobility as a Service*

For more information:

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