



### How can MaaS fly?

Will open APIs allow MaaS to take off?

Alex Stewart

General Manager

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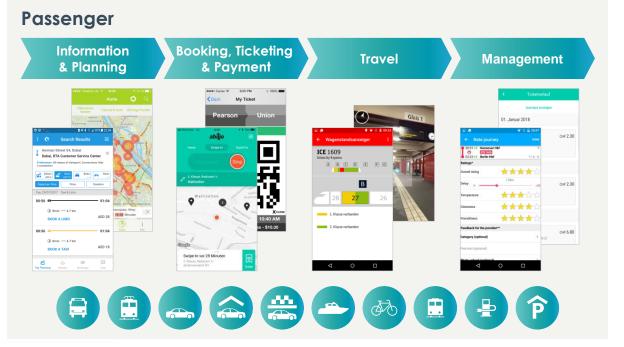
@SiemensMobility



# TRAVELERS DEMAND FOR A SEAMLESS MAAS SOLUTIONS



Ingenuity for life















**Combined Power for Mobility** 



### +100 APPS FOR TRIP PLANNING, TICKETING AND MAAS IN +25 COUNTRIES

#### **SIEMENS**























































































































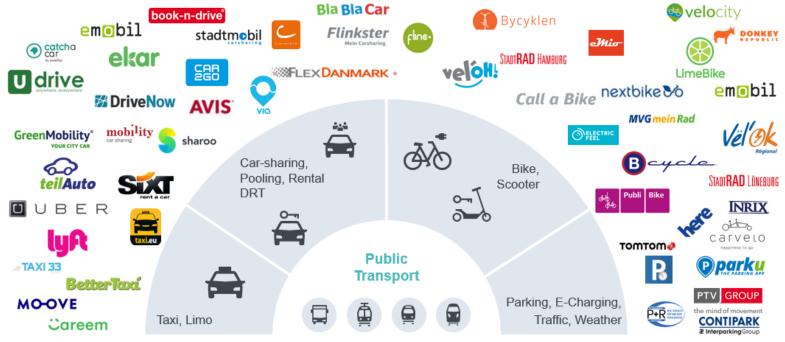






### WE HAVE ALREADY INTEGRATED A WIDE RANGE OF MOBILITY SERVICES

#### **SIEMENS**





### MAAS - A JUNGLE OF MOBILITY INTERFACES SIEMENS AND MIX OF OPEN VS. CLOSED ECOSYSTEMS





# OPEN APIS IN THE CONTEXT OF VARIOUS MAAS MODELS



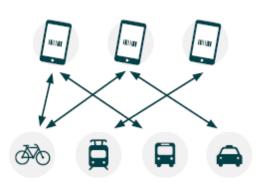
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1) Commercial Integrator

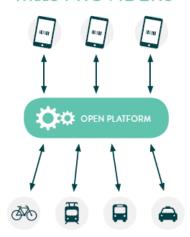
2) Open Back-end Platform

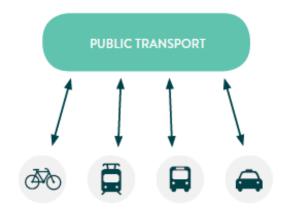
3) Transport as the integrator

#### MaaS PROVIDERS



#### MaaS PROVIDERS







Source: UITP Report April 2019

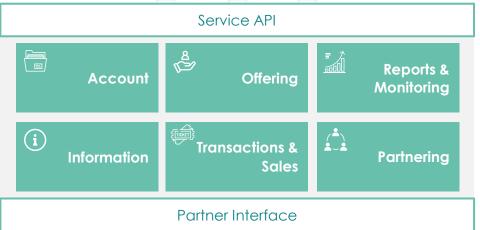
### B2B MAAS PLATFORMS CAN PROVIDE A SIGNIFICANT VALUE FOR ALL STAKEHOLDERS













- Service APIs to use platform modules
- Unbiased route planning
- Valuable holistic data set



















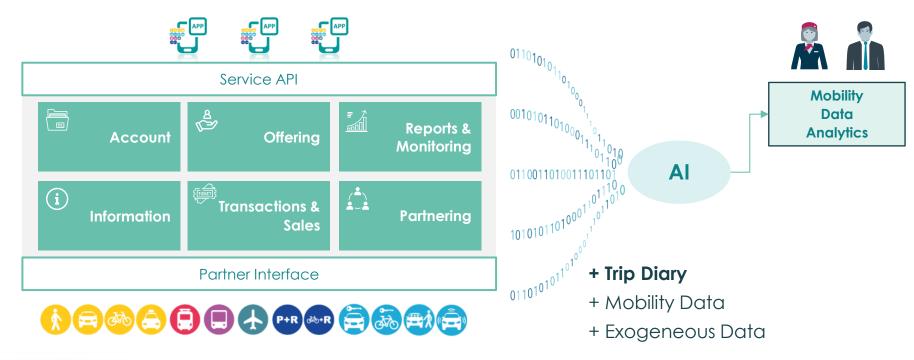






### SMART DATA SERVICES BY USING SEVERAL DATA SOURCES AND ADDING AI

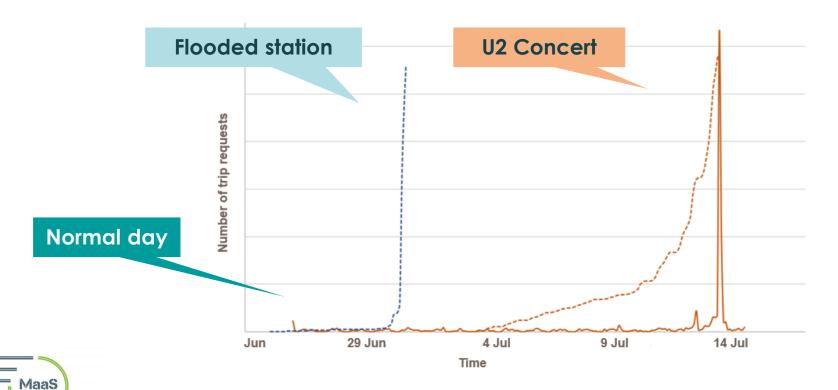






# IDENTIFICATION OF INCIDENTS & EVENTS BY AGGREGATION OF TRIP REQUESTS

#### **SIEMENS**



# IDENTIFY DRT OPPORTUNITIES BY ANALYZING FIRST/LAST MILE COVERAGE

#### **SIEMENS**

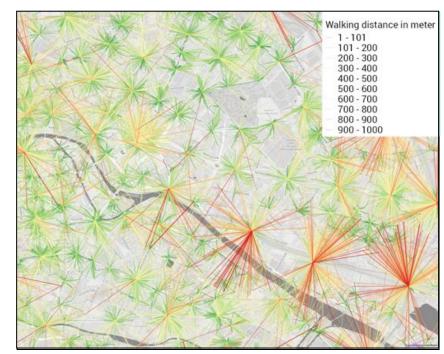
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Walking distance to public transport stations by aggregated, anonymized door-to-door routing requests



Where should we set up a flexible Demand Responsive Transport (DRT) offering?

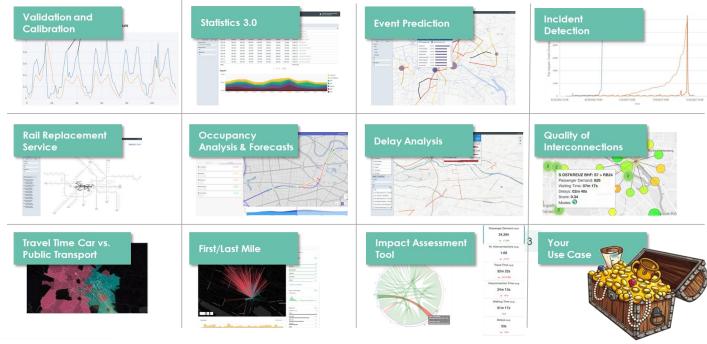






### MULTIPLE MOBILITY DATA ANALYTICS USE CASES HAVE BEEN IMPLEMENTED

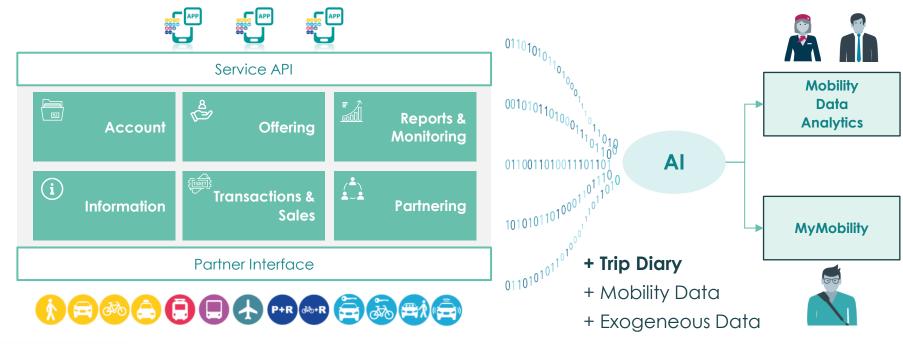






### SMART DATA SERVICES BY USING SEVERAL DATA SOURCES AND ADDING AI





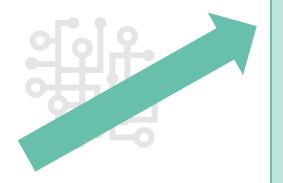


### PERSONALIZED, PROACTIVE MOBILITY RECOMMENDATION FOR PASSENGERS



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Selflearning



#### **Next generation Apps**

- Proactive and personalised
- Individual suggestions: favourite places, frequent destinations
- Contextual trip planning
- Automated data completion

#### **Current Apps**

- Reactive Journey Planning
- Reactive Ticketing
- Address entry
- Multiple registrations





# OPEN, STANDARDIZED APIS & B2B MAAS PLATFORMS CAN GIVE MAAS WINGS!



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#### **Operator / Authority**





1. Sustainable ecosystem with reduced interfaces & complexity

#### 2. Access to a holistic data set to

- ➤ Understand passengers
- > Improve operations
- > Provide personalized services
- Orchestrate mobility

