

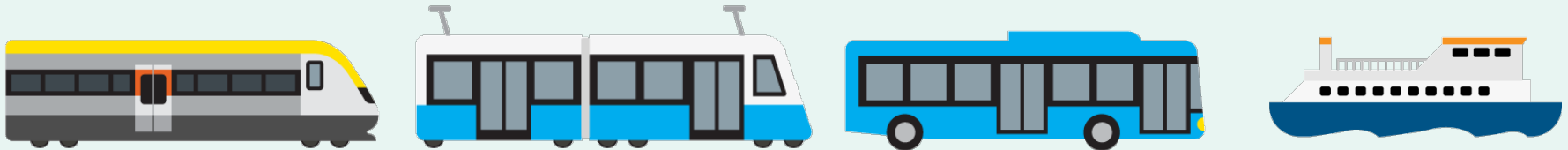
2017-05-10

IT @vasttrafik

Federico Hernandez
Lars Andersson

What Västtrafik does

- We organise and develop public transport in Västra Götaland
- We look after the transport needs of our local residents
- We tender the transport services that are required: buses, trams, trains and ferries
- We are always working to develop the service we provide to our customers, both through personal contact and through modern technical solutions



Västtrafik in a day

approximately

395 000

people travel with Västtrafik

approximately

947 000

journeys made using
ordinary public transport

approximately

7 000

journeys made using
demand-responsive
transport

Vehicles travel approximately

470 000

km (almost 12 times around the
world)

Partner companies

80

operating lines

approximately

5 000

bookings made at the
Booking Centre

approximately

1 300

calls to Customer
Service

Lines

900

across Västra Götaland

Figures from 2015

IT @vasttrafik

Employees

60

working at IT

VMs

1000

hosted on 42 ESX hosts

Storage

420TB

in total

API gateway

3m

requests/day

Travelplanner

3m

searches

SIM cards

4000

generating ~700GB of
traffic per month.

3rd party developers

2100

Databases

2500

allocating 150TB

Systems

150

Figures from 2017

Data flow @vasttrafik

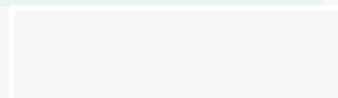
Public Transport Operators



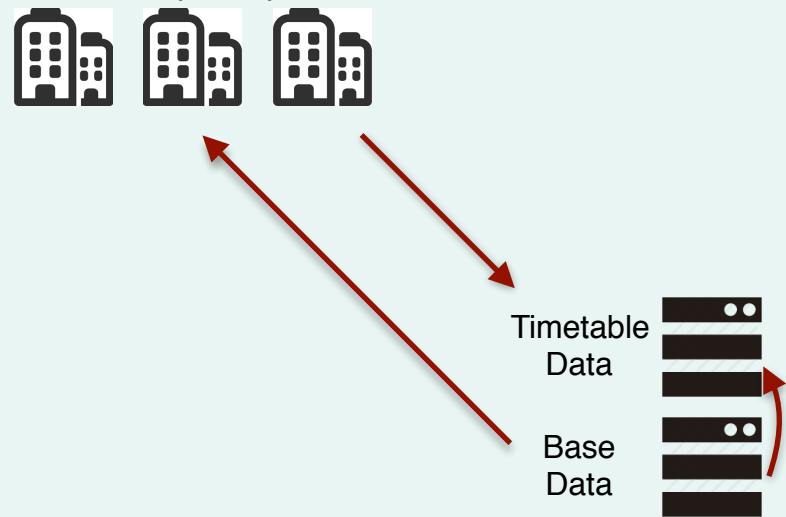
Timetable
Data



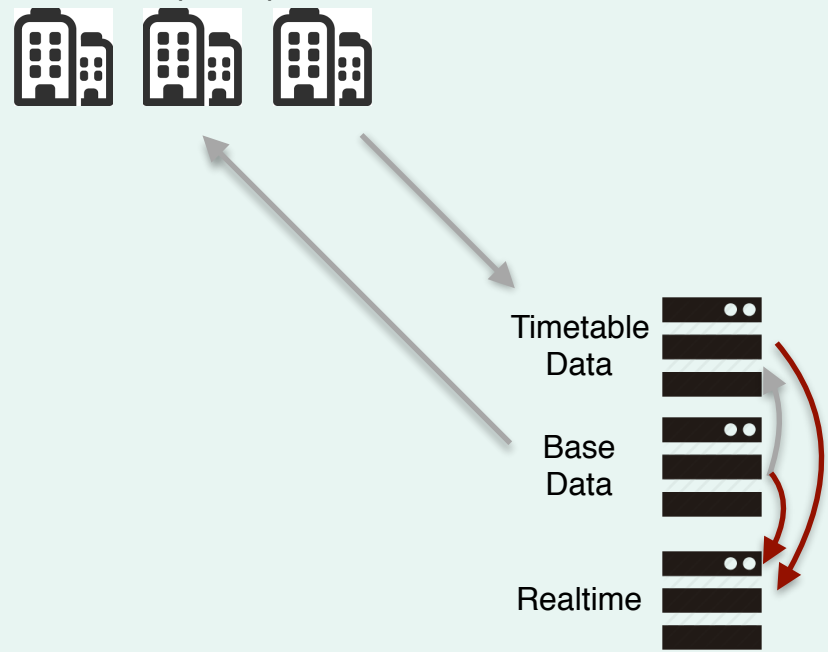
Base
Data



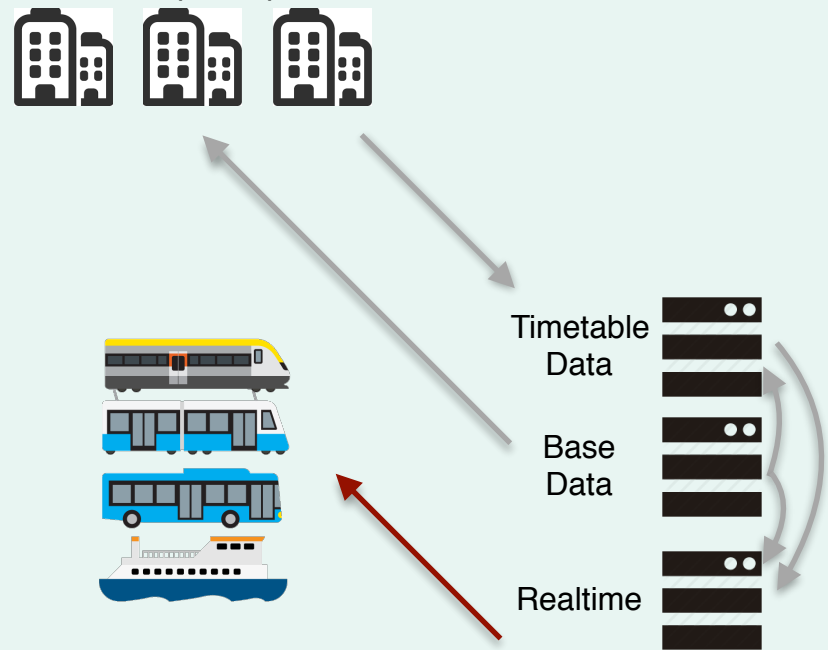
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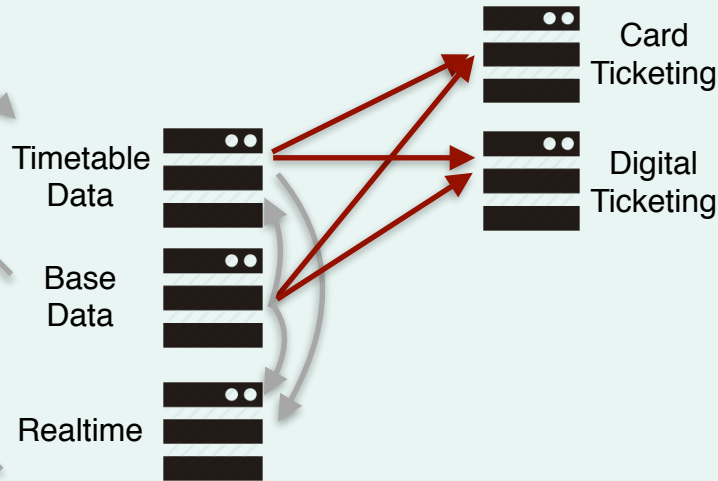
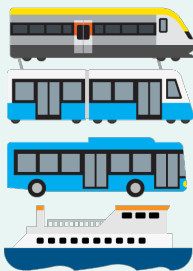
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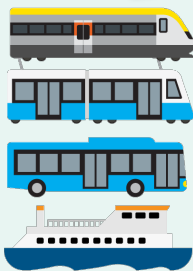
Public Transport Operators



Public Transport Operators



Public Transport Operators



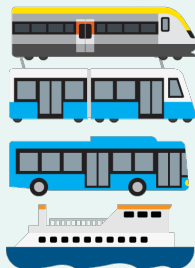
Timetable Data
Base Data
Realtime



Card
Ticketing
Digital
Ticketing



Public Transport Operators



Timetable
Data

Base
Data

Realtime



Card
Ticketing

Digital
Ticketing

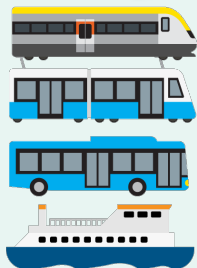
Travel
Planner

Digital
Channels

Public
APIs



Public Transport Operators



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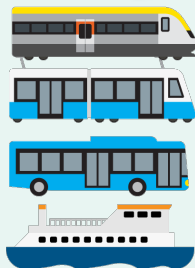
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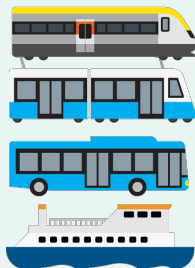
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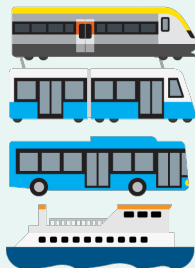
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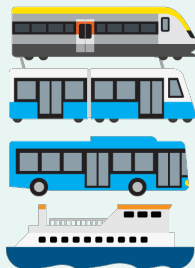
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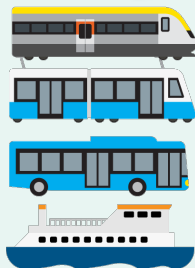
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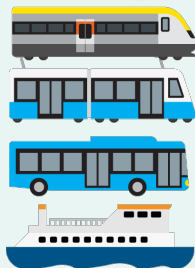
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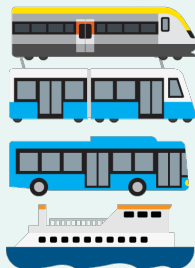
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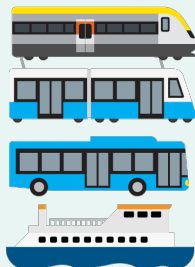
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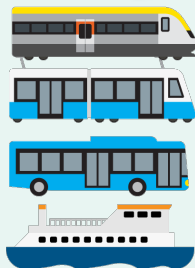
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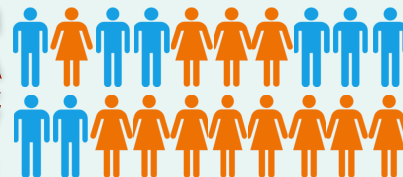
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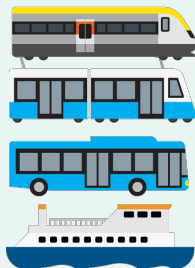
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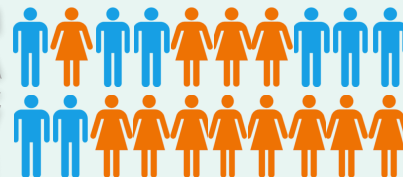
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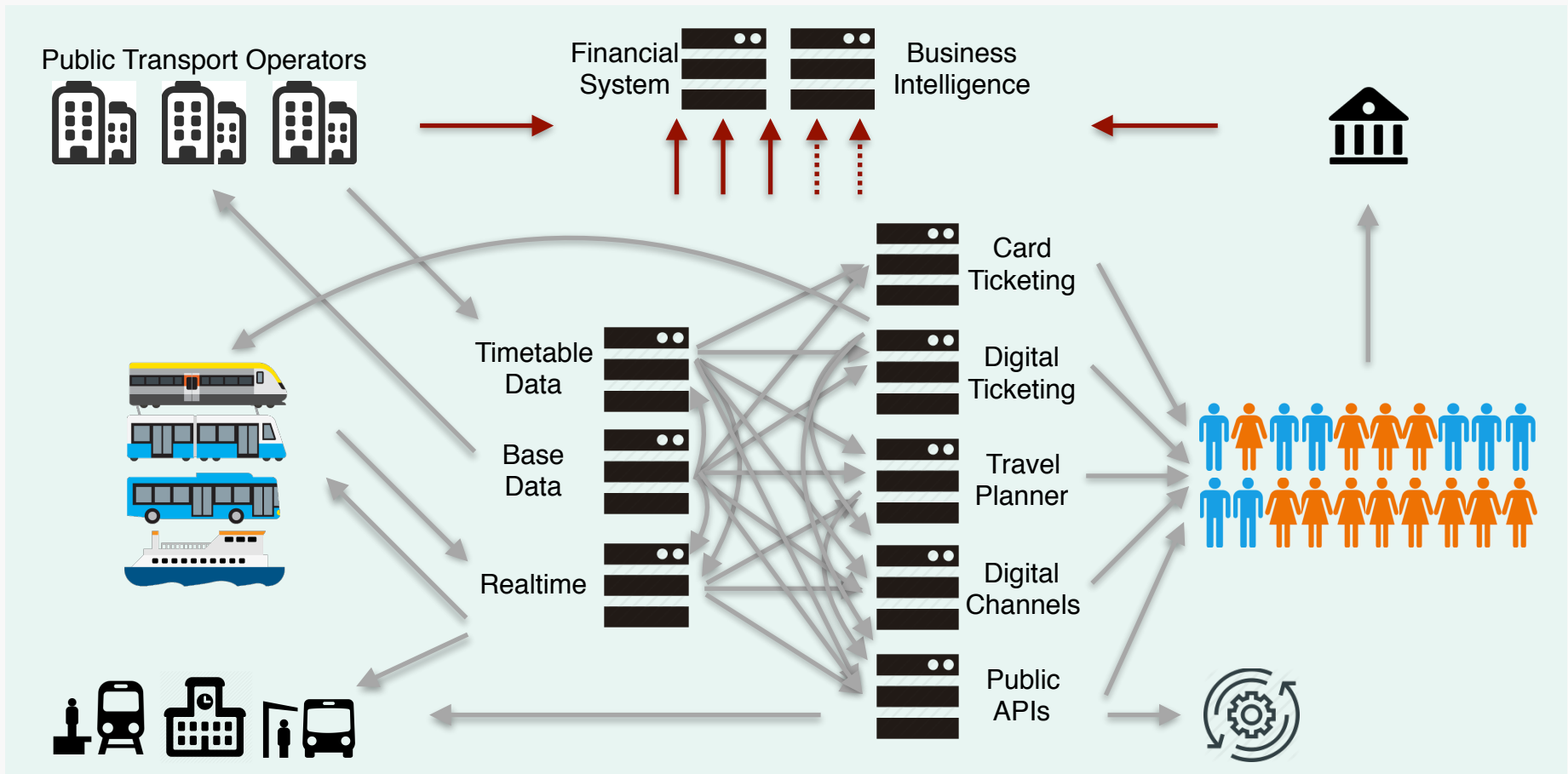
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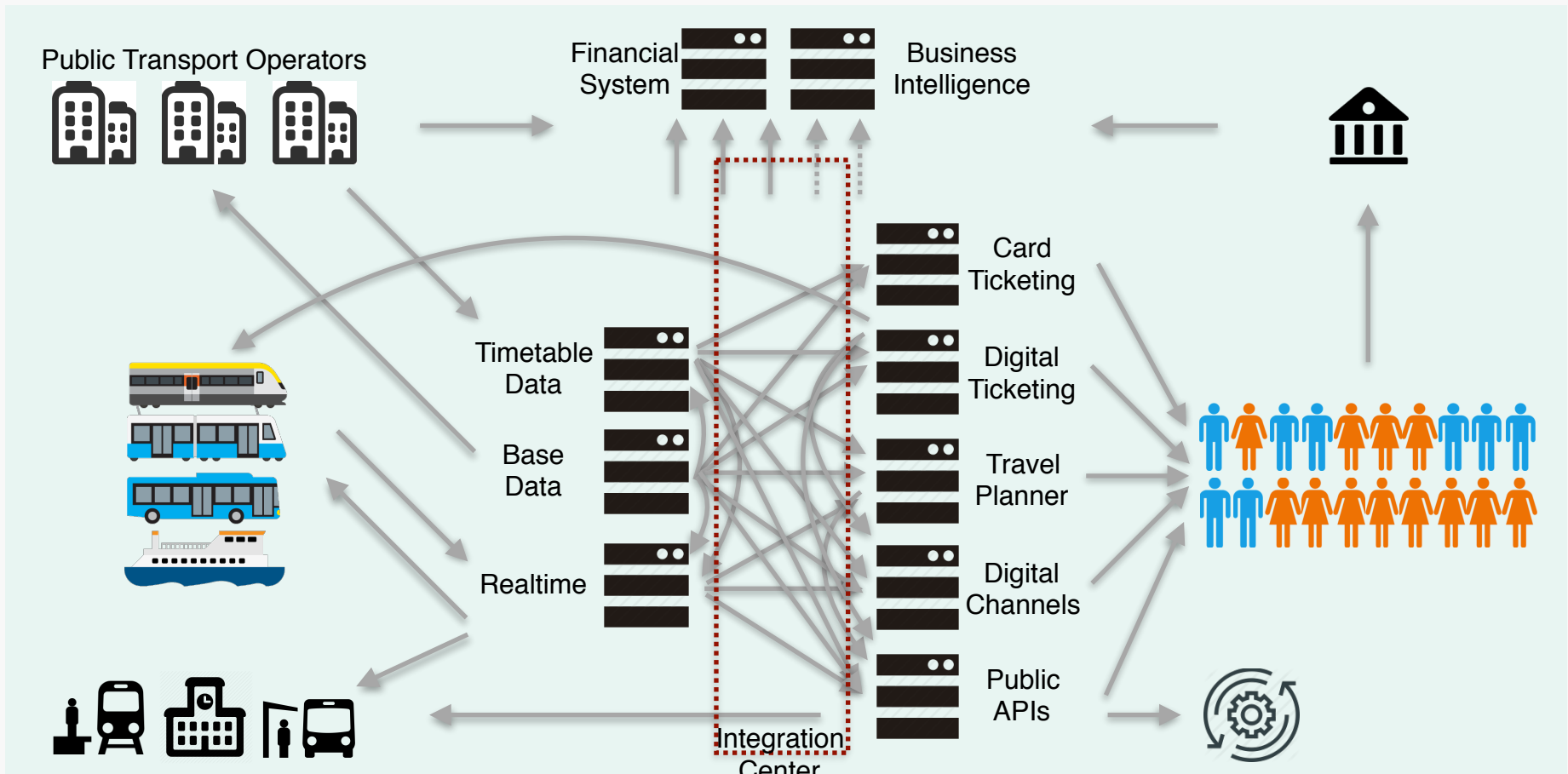
Travel
Planner

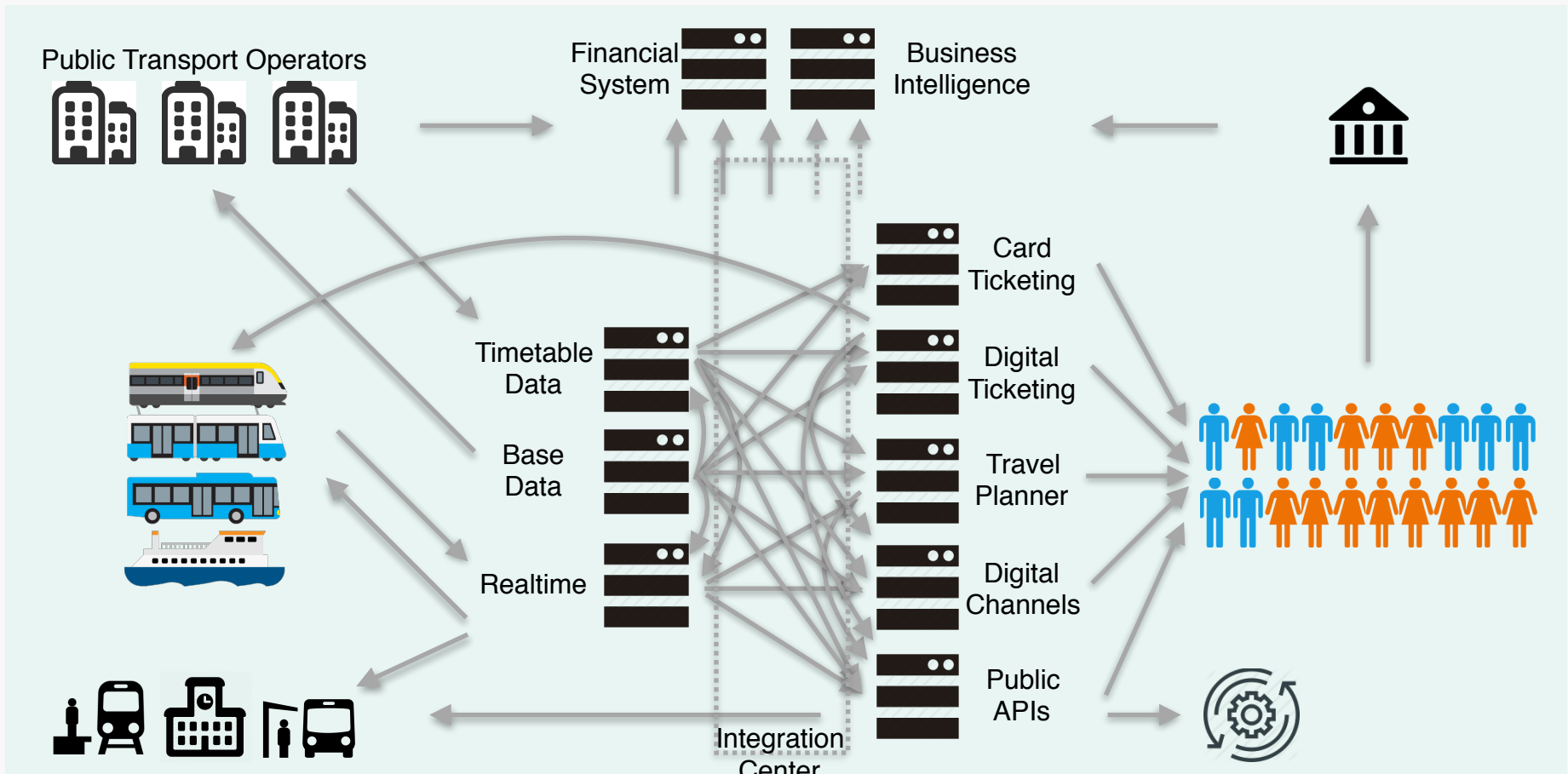
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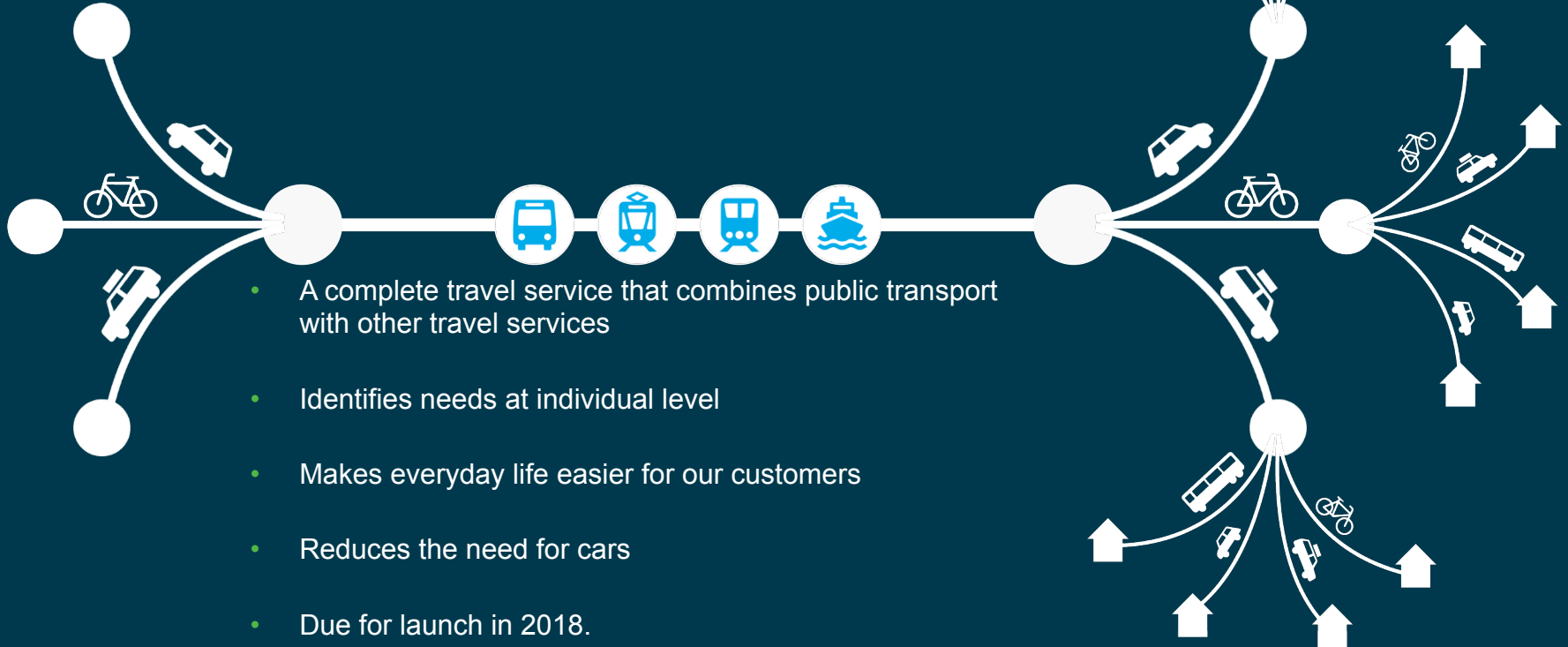




What's happening @vasttrafik?

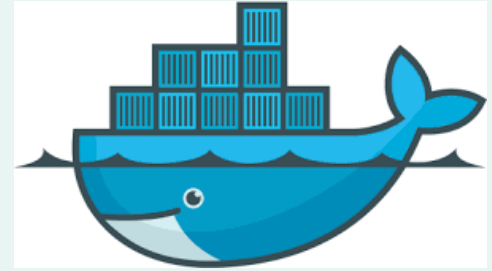
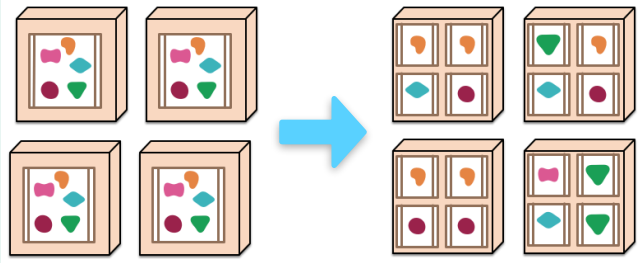
Combined mobility

...or a broader and even more sustainable task?



What's happening @IT?

Microservices and Cloud Native



Thank you.

Federico Hernandez federico.hernandez@vasttrafik.se
Lars Andersson lars.andersson@vasttrafik.se



Q & A

Exjobb

- Commuter parking predictions
- Commuter parking app & backend
- Graph model for FW
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