

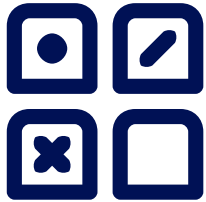
Ready for the future?

Mobility Insights & Traffic Performance from Telecom Data



Smart Data @ Swisscom

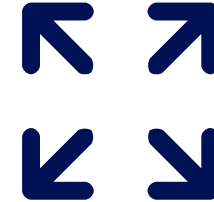
Respecting Consumer Privacy and In Compliance with Law



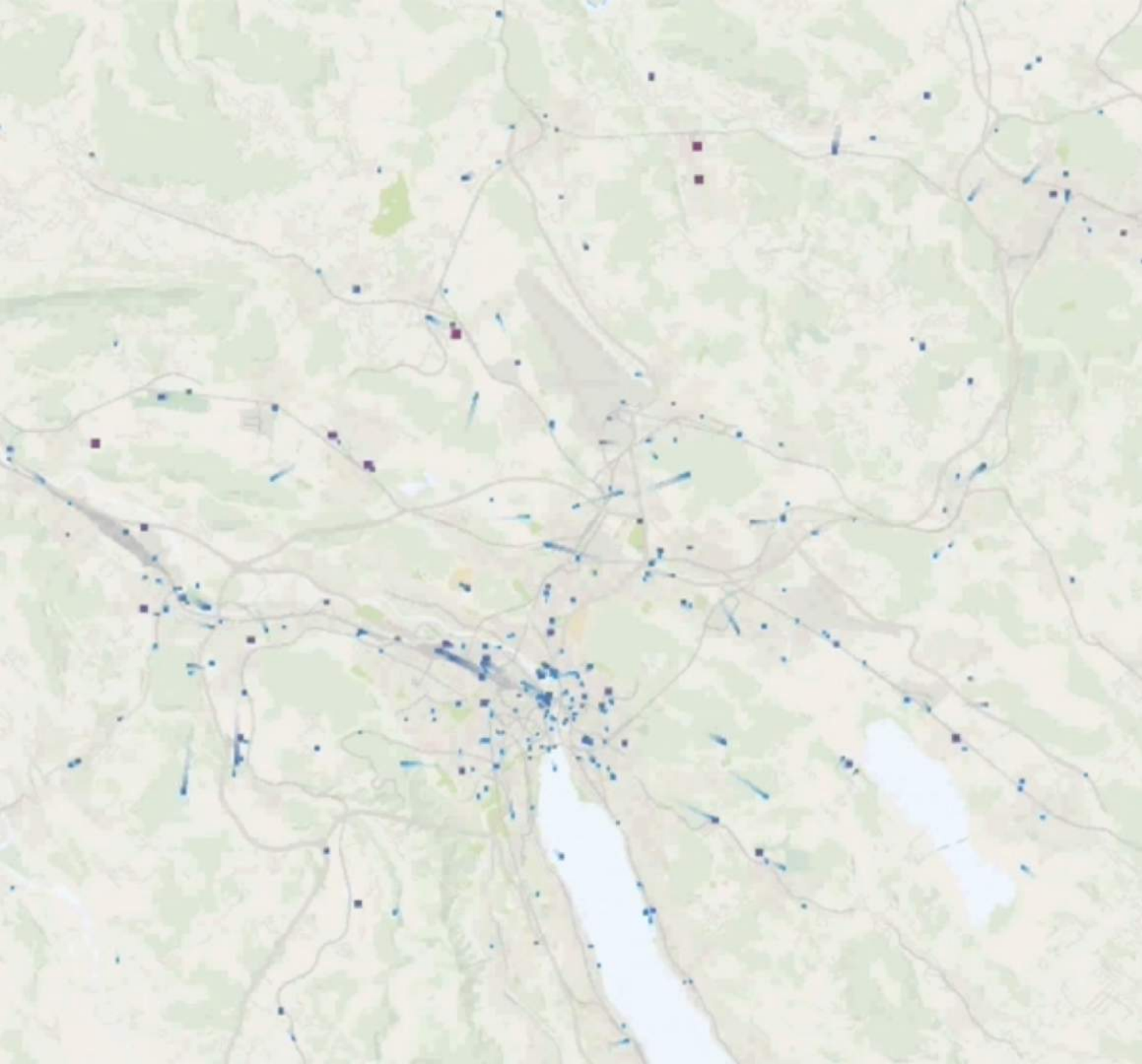
Internal use
for better
services



Enabling our
customers on the
basis of their data



Swisscom
Insights for the
external market



Movement Patterns within Switzerland



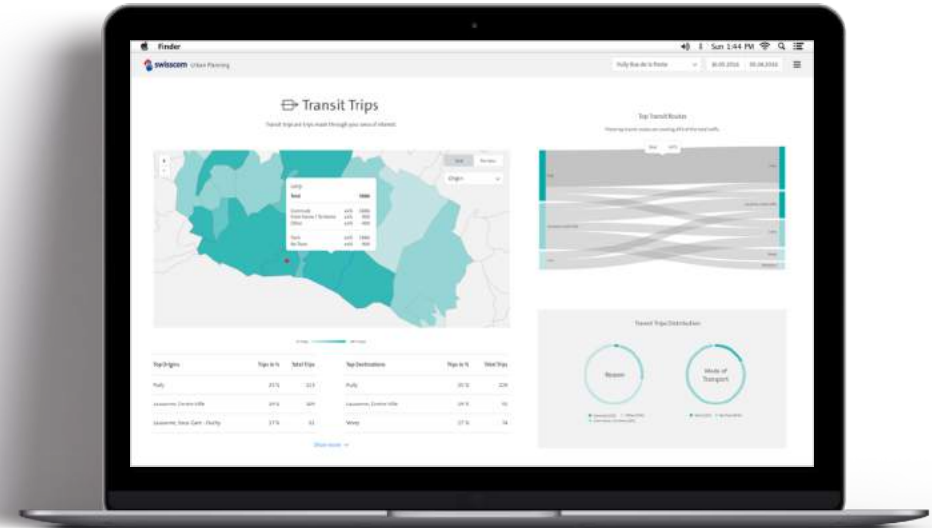
Two core propositions

for public and private sectors



Swisscom Insights Transportation

Referral Customer: Federal Road Authorities,
Regional Traffic Planning agencies etc.



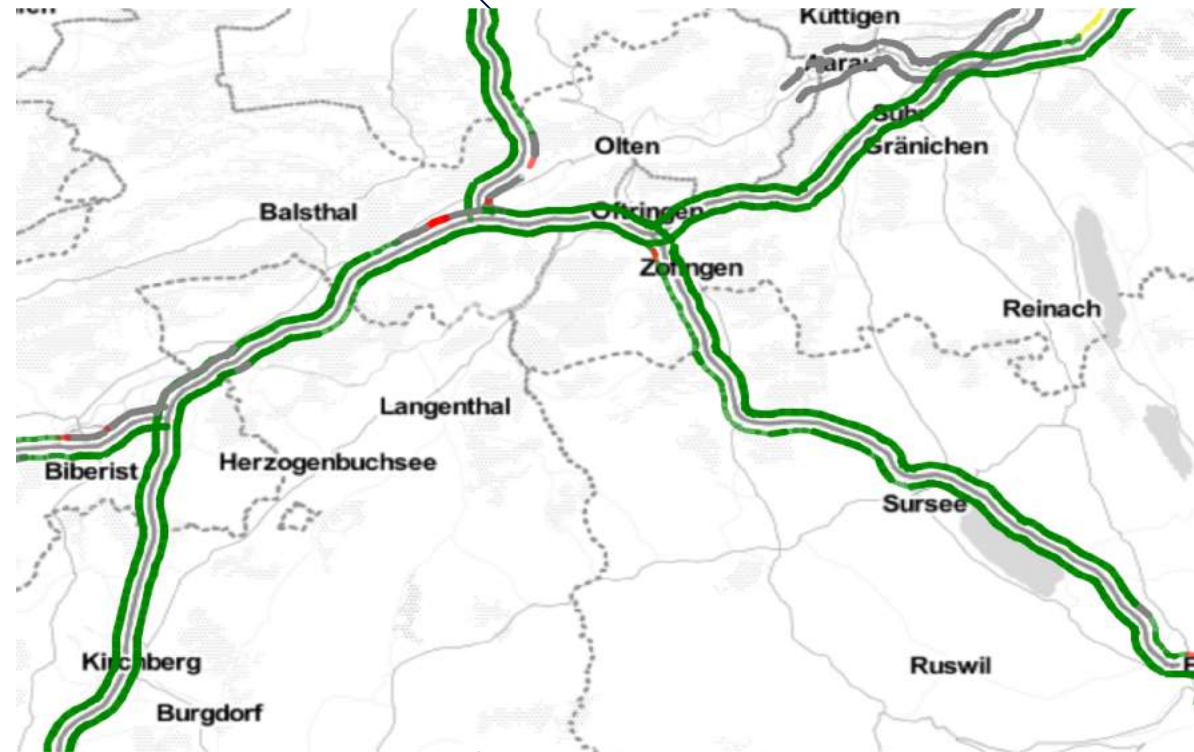
Swisscom Insights Population Mobility

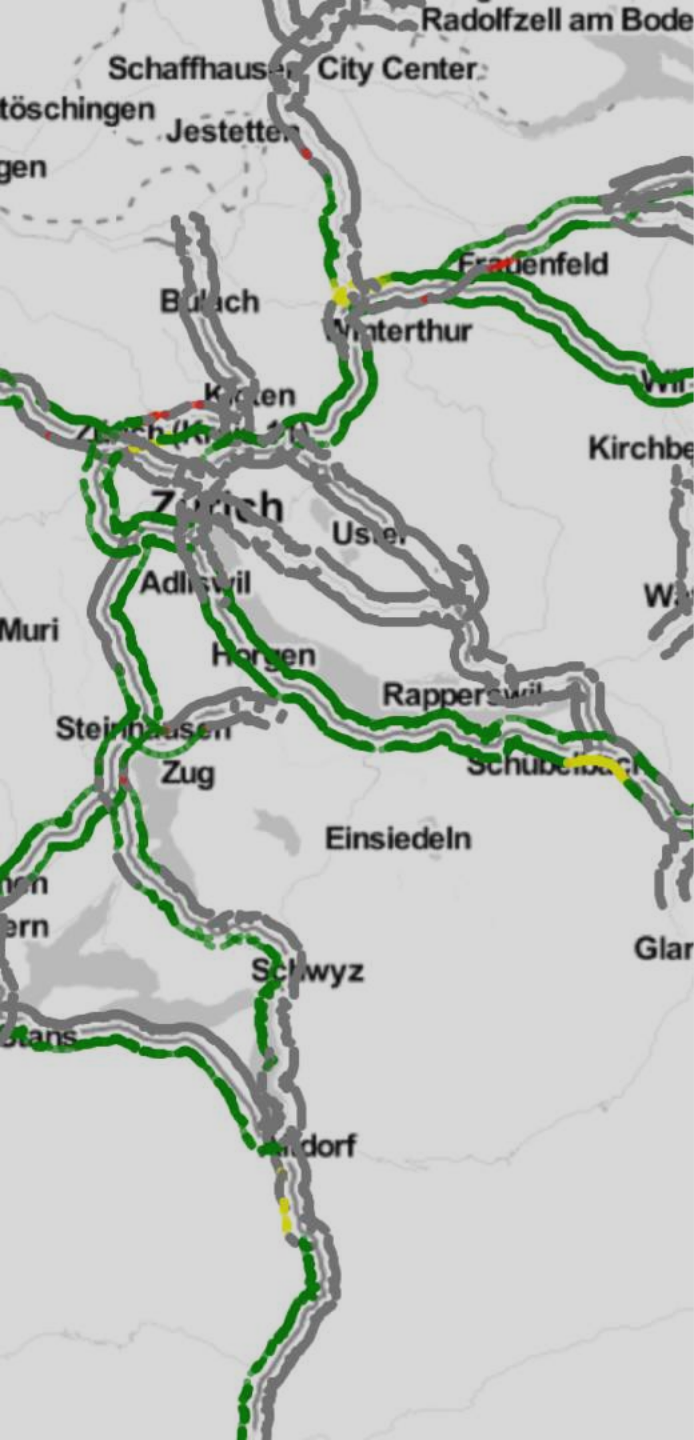
Customer: Urban & Regional Planners, Retail
chains, Civil defence etc.

Swisscom Insights Transportation

Since 2013 Swisscom delivers real time monitoring of traffic speeds, travel time & incidents to Swiss Federal Road Authorities

- 1 4000 Kms of Swiss Highway
- 2 Divided in 7'500 sections
- 3 Section average 500 meters long
- 4 Updated every 2.5 minutes
- 5 Processing 1 Billion transaction/day





Live Demo



Traffic & Speed Profile



Traffic Jam Detection

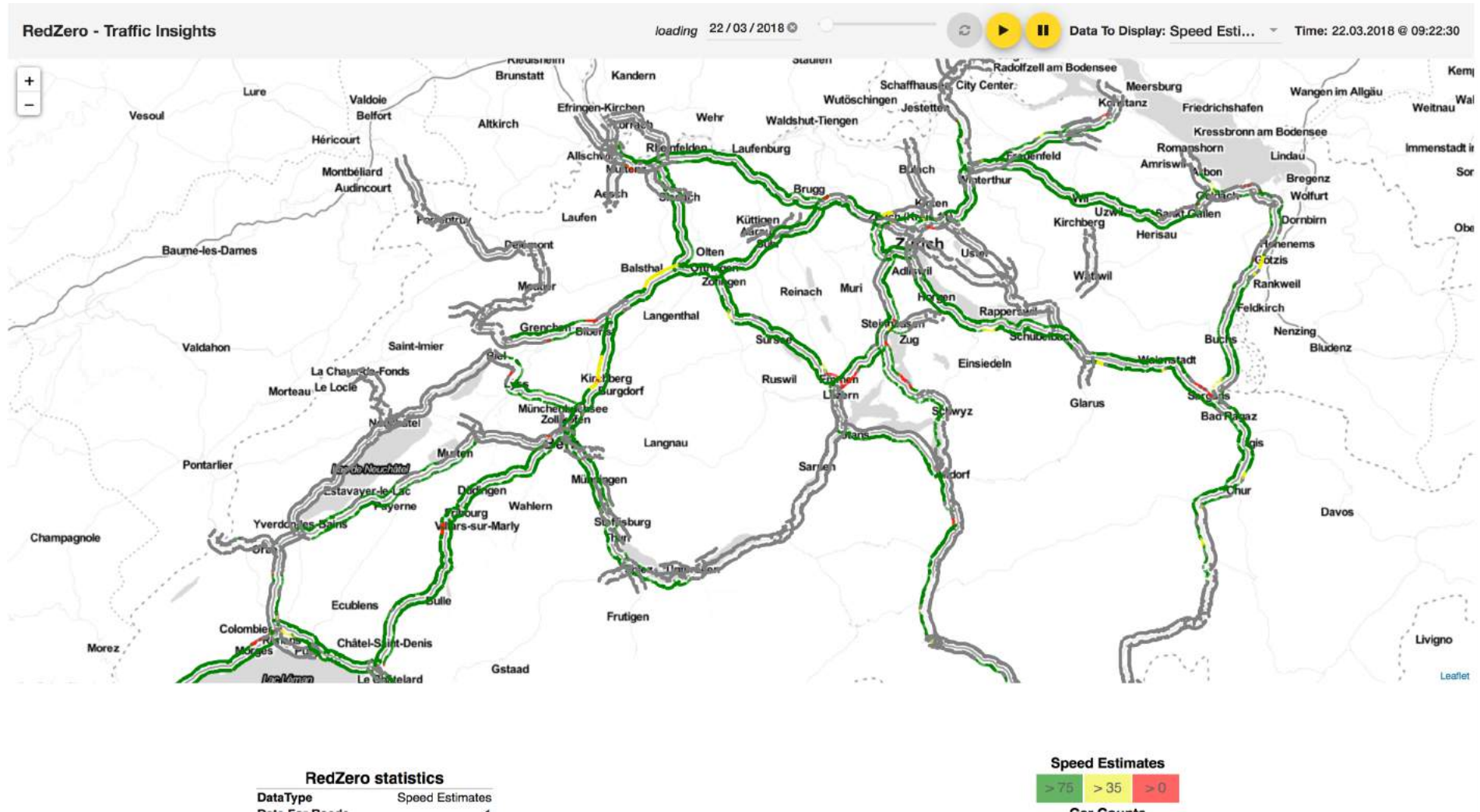


Vehicle Volume Estimation

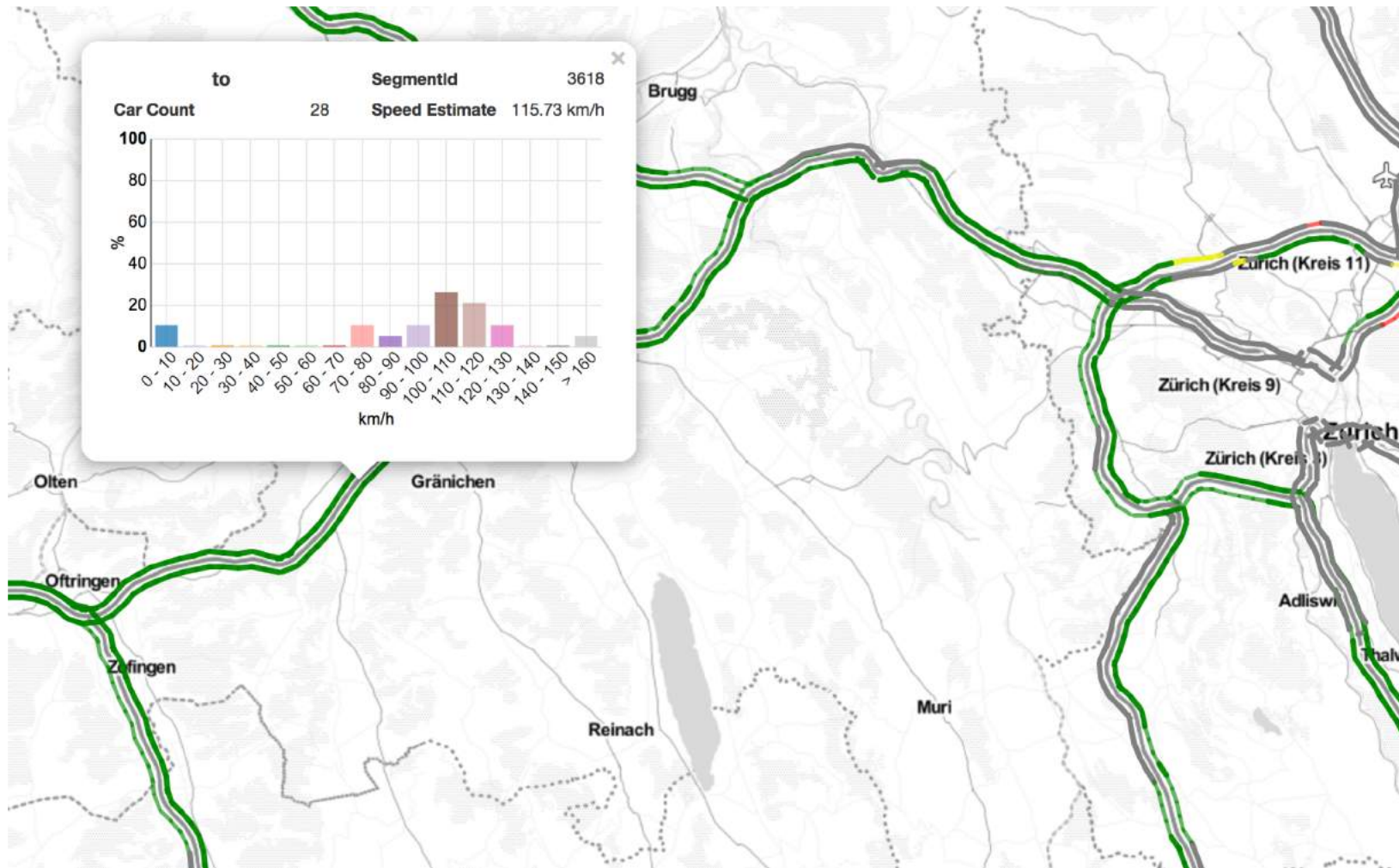


Vehicle Classification

Demo – Example (1/2)



Demo – Example (2/2)

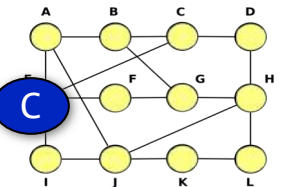




From Road to Rail Transportation...

A  **Passenger Count** on all trains(IC,IR,RE) in near real time

B  **Station Usage**
Interchange/Travel Entry-Exit/Visitors

C  **Origin-Destination**
Time & Volume

D  **Dwelling & Travel Time**
Interchange Carrier modality

E  **Station Catchment Area**

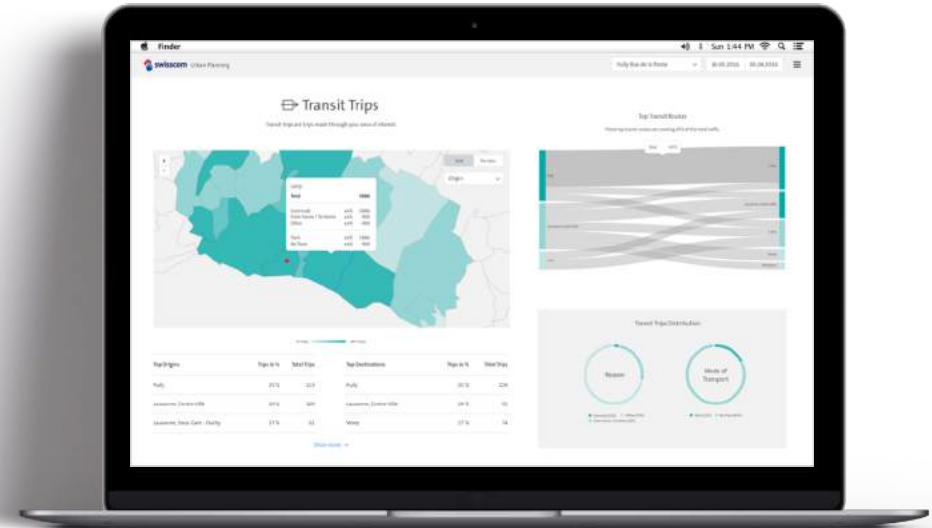
Two core propositions

for public and private sectors



Swisscom Insights Transportation

Referral Customer: Federal Road Authorities,
Regional Traffic Planning agencies etc.

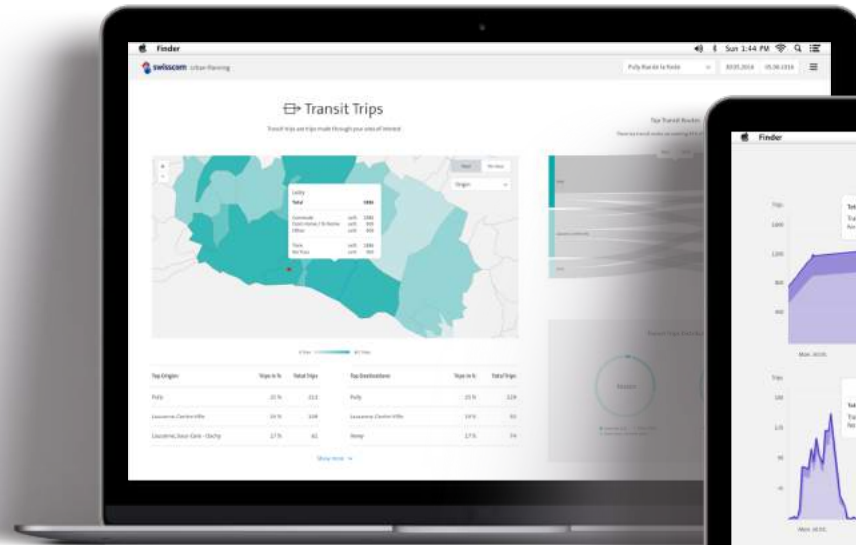


Swisscom Insights Population Mobility

Customer: Urban & Regional Planners, Retail
chains, Civil defence etc.

Swisscom Insights

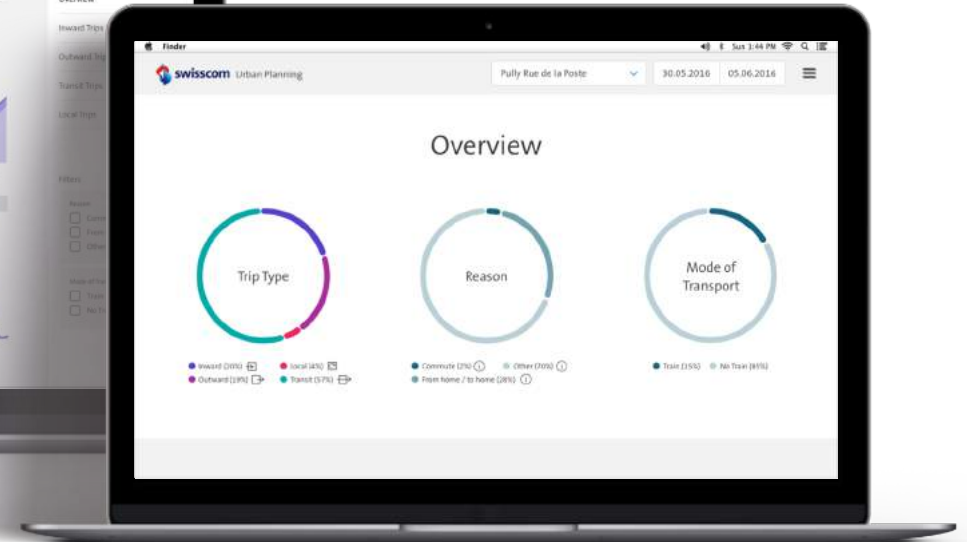
Mobility Insights for Urban & Regional Planners, Retail Chains, Civil Defence etc.



Trip Type
Differentiation



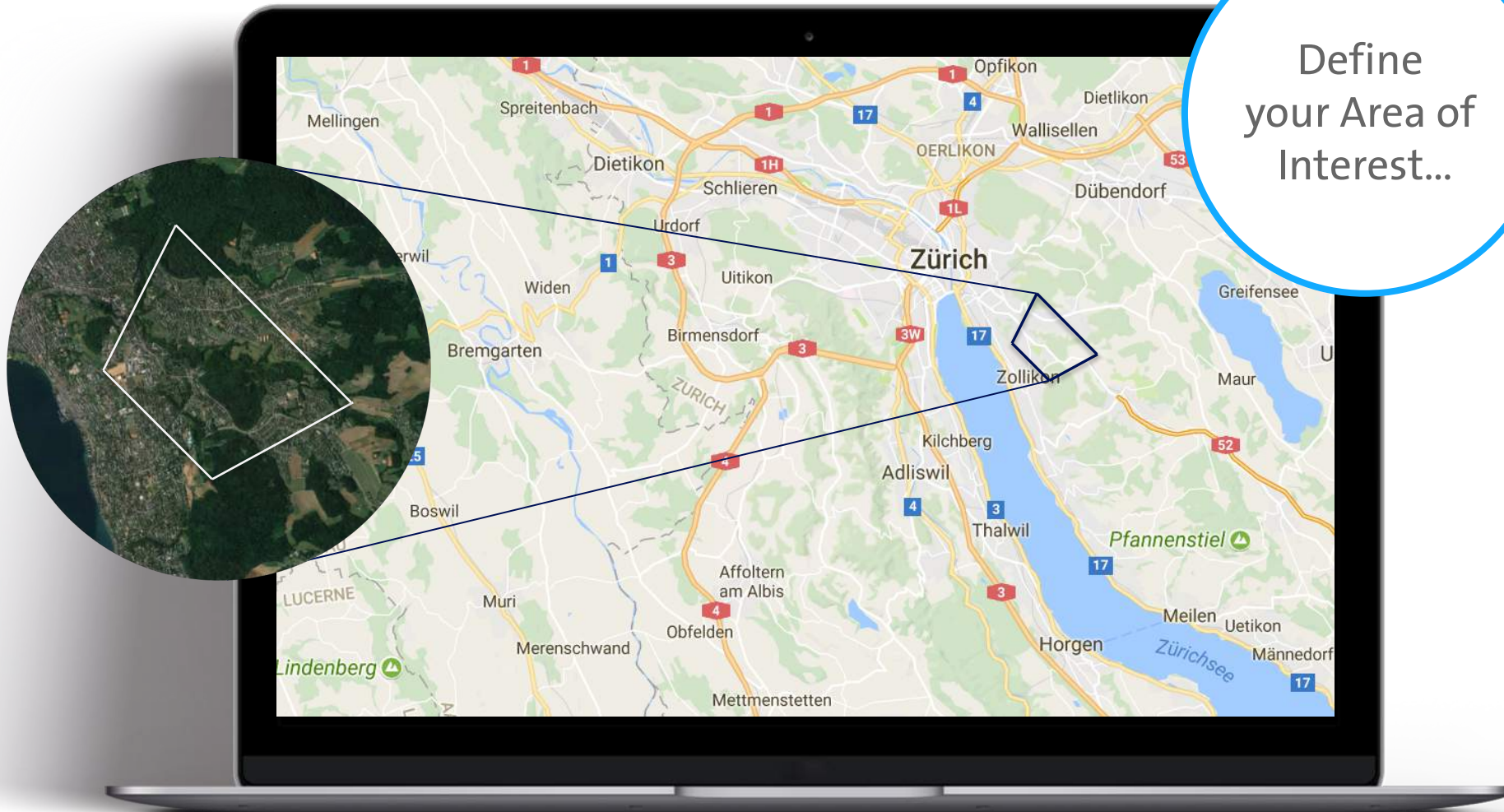
Mode of Transport
Detection



Analysis of Trip Reasons

It all starts on a map!

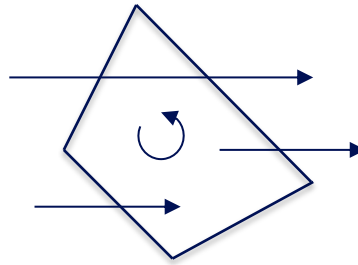
Define
your Area of
Interest...





Trips

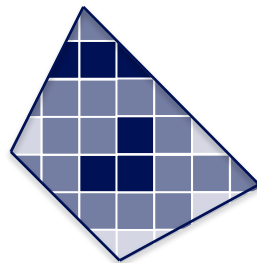
Measure the volume of trips over time relative to a predefined area of interest



...select your desired Type of Analysis...

Heatmap

Measure the density of people over time within a predefined area of interest



Trip Analyses

Measure the volume of trips over time relative to a predefined area of interest



Customized area of interest (min. 100 x 100m)



Volume of trips over time relative to area of interest



Daily and hourly granularity (2 years back)



Switzerland-wide origin/destination information*



Dwell time analyses (1 min to 1 day)



Trip type differentiation (inward, outward, local, transit)



Analysis of trip reasons (commute, other)

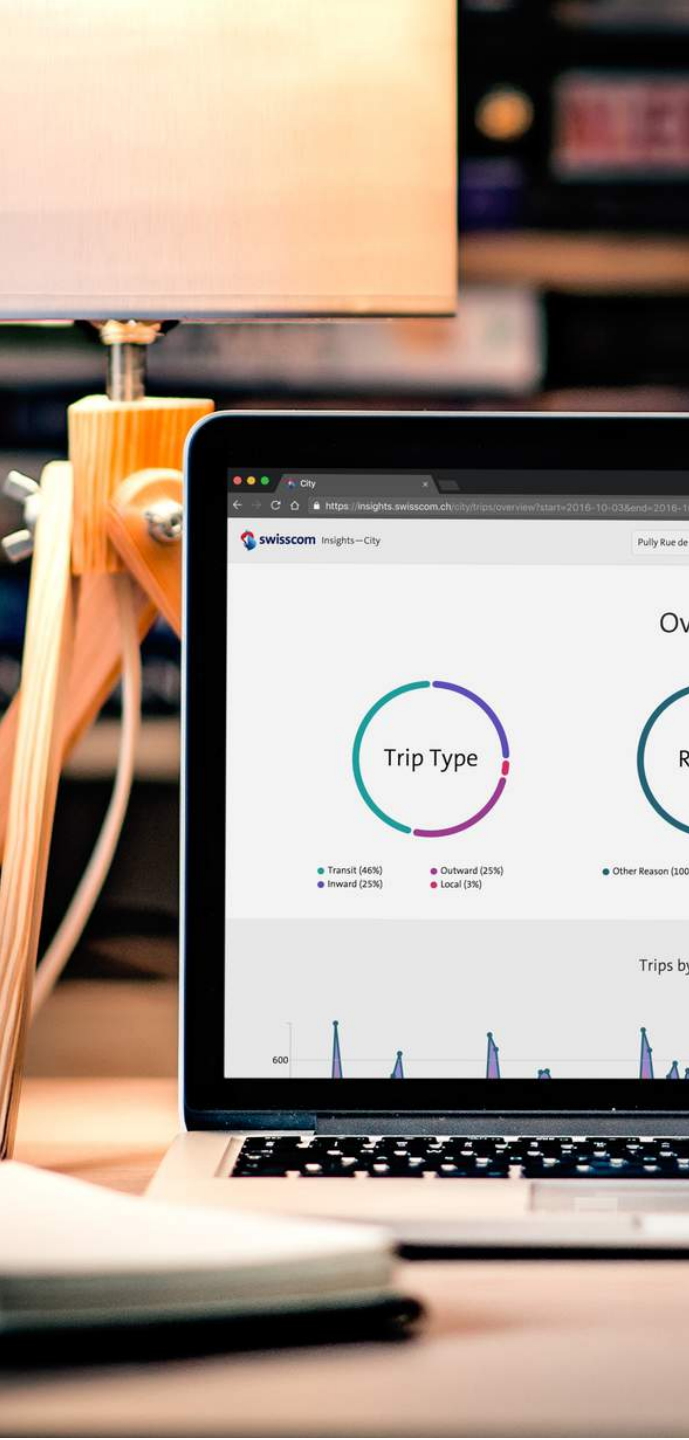


Mode of transport detection (train, other)



Socio-demographic segmentation (gender, age range)

* aggregated at municipality level, in larger areas such as cities at district level



Heatmap Analyses

Measure the density of people over time within a predefined area of interest



Customized area of interest (min. 500 x 500 m)



Density of people over time within area of interest



Spatial resolution of grid down to 100 x 100m



Variable temporal resolution (15 or 60 minutes)



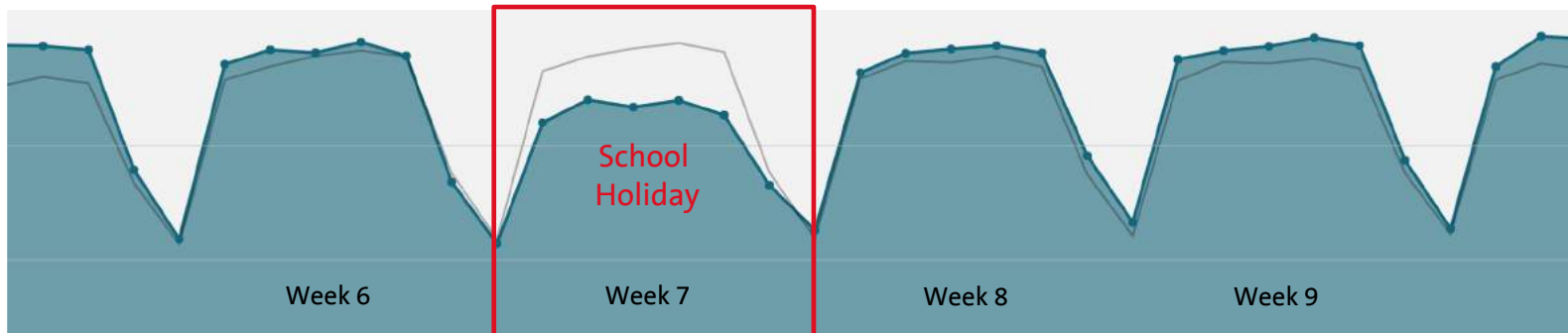
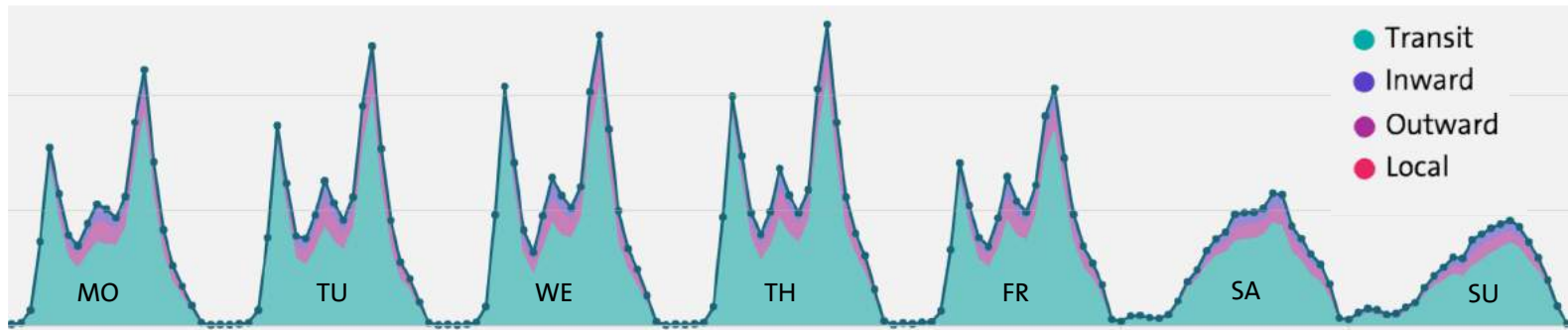
Socio-demographic segmentation (gender, age range)



Real-time functionality (roadmap)

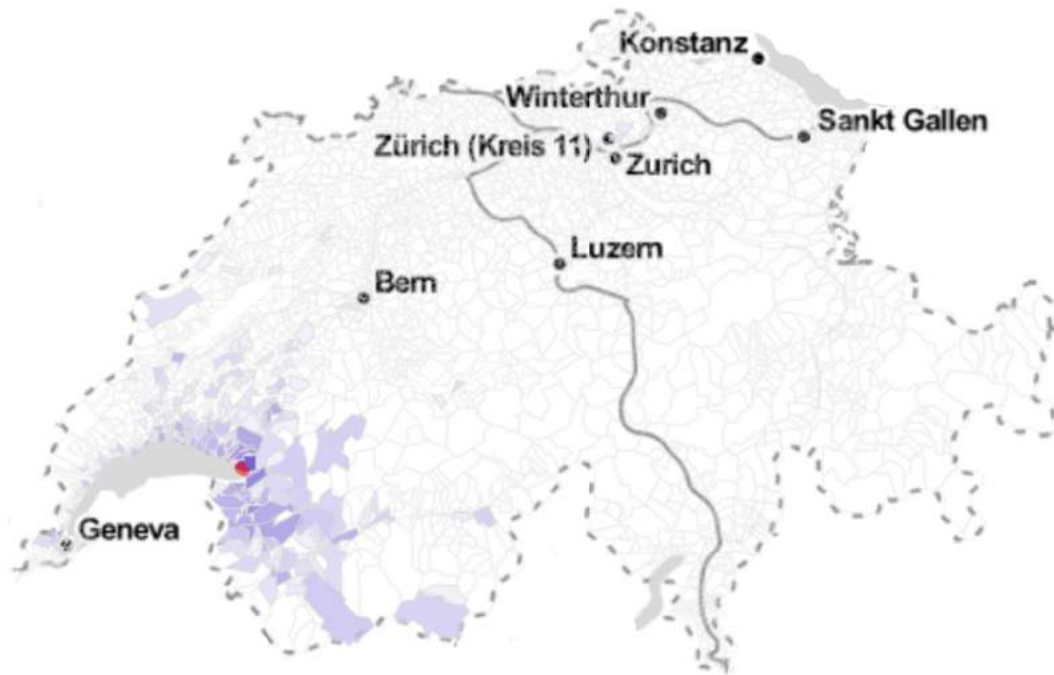
Demo – Example (1/4)

Volume of trips over time, hourly and daily granularity

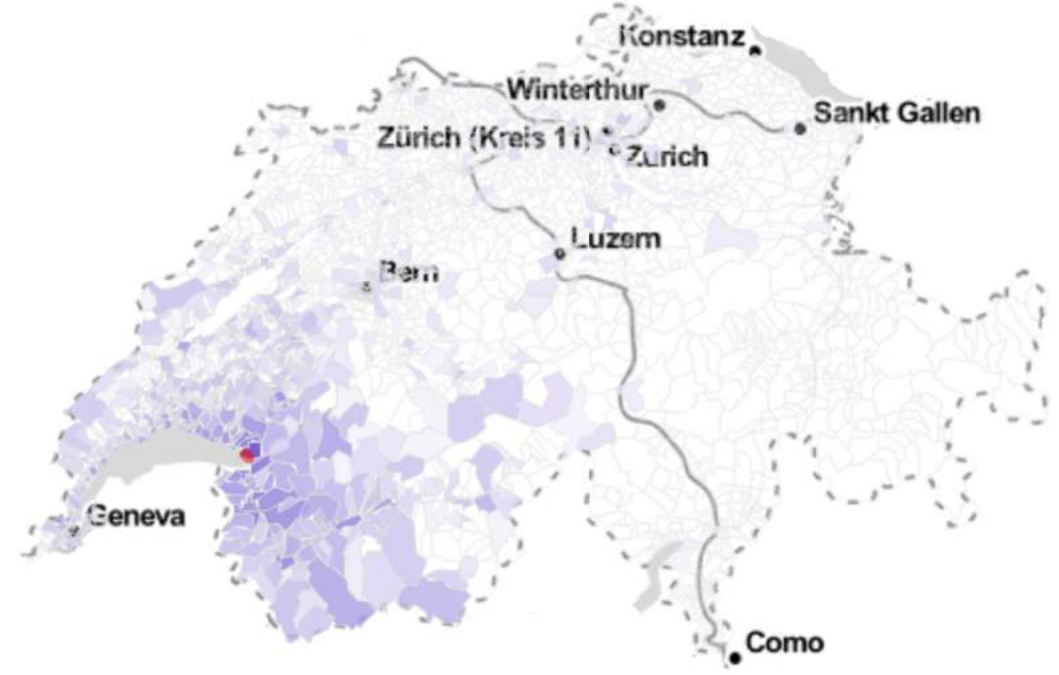


Demo – Example (2/4)

Switzerland-wide Origin/Destination Information



Origins of people visiting Montreux on a weekday



Origins of people visiting Montreux over the weekend

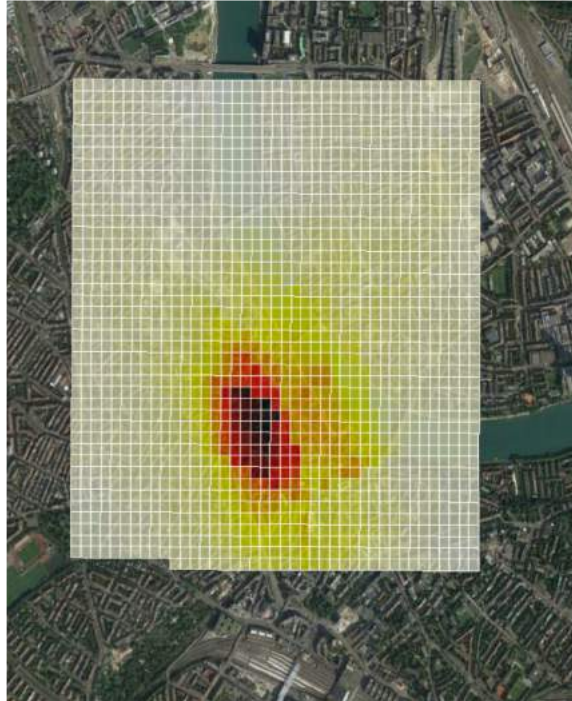
Demo – Example (3/4)

Switzerland-wide Origin/Destination Information – Top Transit-Routes

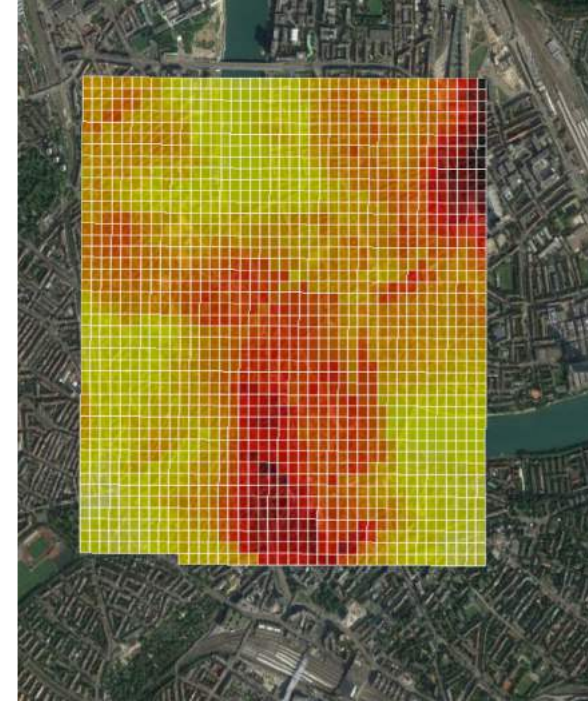


Demo – Example (4/4)

Heatmap Analyses – Carnival of Basel



Carnival of Basel
(08.03.2017, 22.00 pm)



Normal Weekday
(15.03.2017, 22.00 pm)

Hawa Dawa und Swisscom ermöglichen neuartige Erkenntnisse zur Luftqualität

Von moneycab – 27. Februar 2018 07:35

Eingestellt unter: [! Top](#), [Digitalisierung](#), [IT](#), [Startups](#)



Karim Tarraf, CEO Hawa Dawa. (Foto: Swisscom)

Zürich – In einem Pilotprojekt für die Stadt Zürich arbeiten Hawa Dawa und Swisscom an einer völlig neuen Qualität von Umweltdaten für Smart Cities. Die Unternehmen integrieren durch maschinelles Lernen veredelte Luftqualitätsdaten aus Hawa Dawa's Environmental Data Analytics Plattform mit akkumulierten Informationen über das Mobilitätsverhalten von Menschenmengen aus Swisscom's Insights Plattform.

...add further
Data Sources

Happy to help with Swisscom Insights.

Andrea Schwaller

Business Developer – Swisscom Insights

079 500 45 67 | andrea.schwaller@swisscom.com



swisscom

Swisscom (Schweiz) AG | Pfingstweidstrasse 51 | 8005 Zürich
www.swisscom.ch/enterprise



Many thanks!

Zurich, March 2018



swisscom