Explore PTV Flows
Your Real-Time Solution for Intelligent Mobility

Agenda

1. Why PTV Flows
2. Product info
3. Demo
4. Additional details
5. Use cases and benefits
6. Q&A

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01

WHY PTV FLOWS

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Challenges

Cost and effectiveness of traditional traffic monitoring systems

Hardware investments

Resourcing for manual traffic monitoring

FCD solutions

Floating Car Data (FCD) offers a cheap and efficient way to monitor traffic

Do not require hardware (cameras, sensors …)

However

HW infrastructure is often still needed (for software installation)

Limitations in integrating other data and specific KPIs

Difficulty in map matching

02

PRODUCT INFO & STRUCTURE

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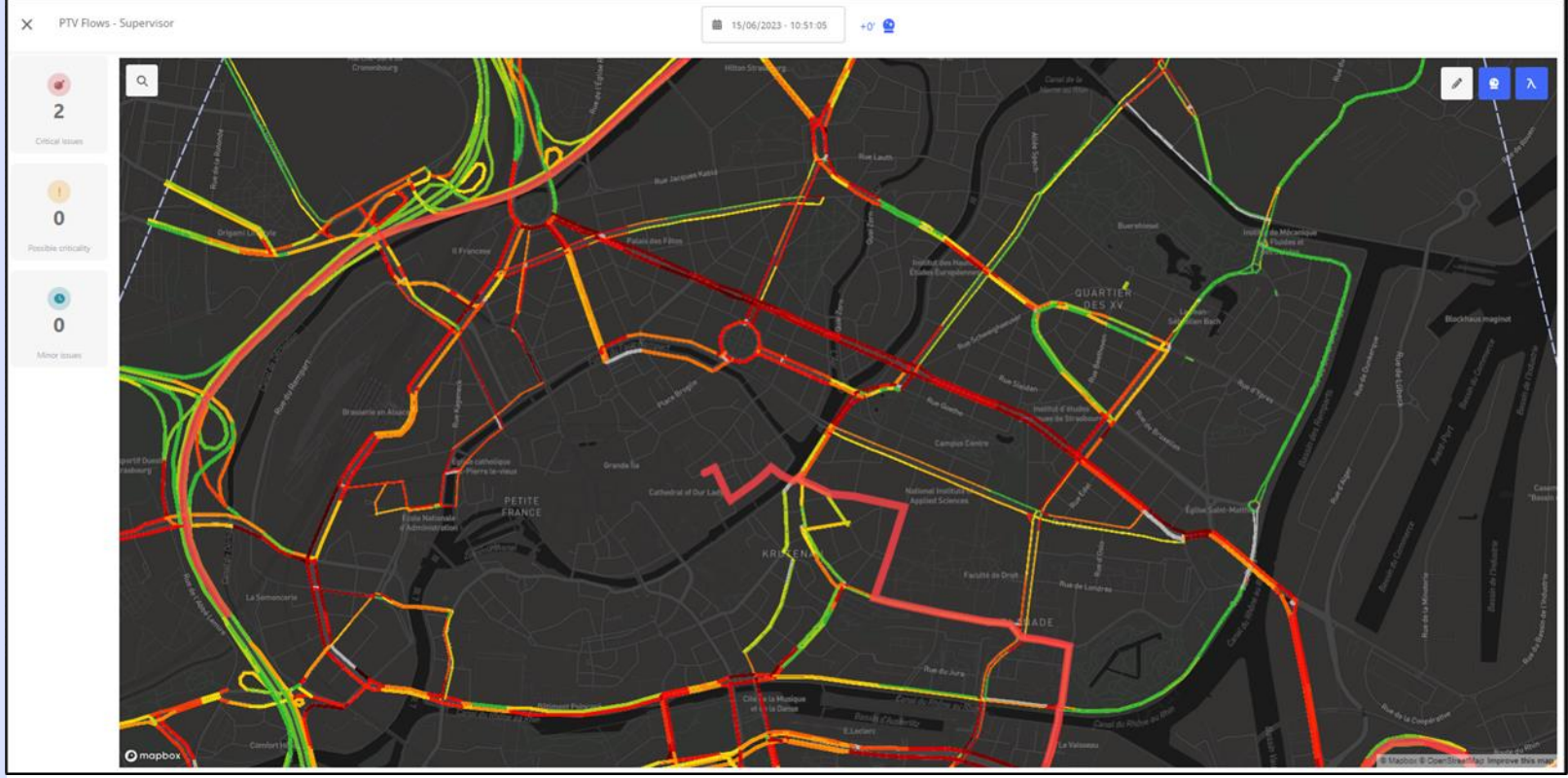
PTV FLOWS

- The system helps to proactively manage traffic, reduce delays, improve safety, and increase the efficiency of the transport system.

- Cost-effective, and hassle-free cloud-based solution for real-time traffic management. Available in **84 countries**



Continuous monitoring of current and future traffic conditions

Easily collaborate and share alerts, information, traffic incidents

Analysis, inspection and extraction of historical data

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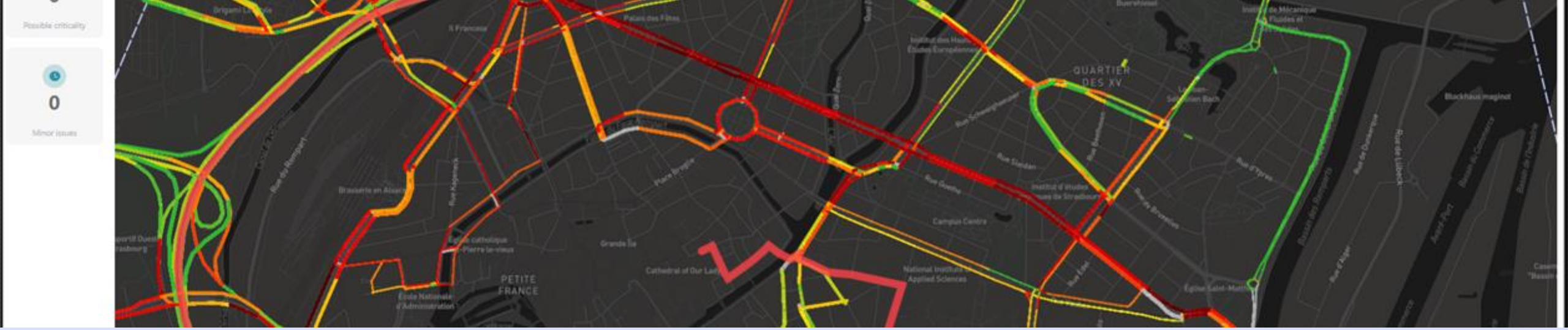

FEATURES

- Offered as a subscription service
- Accessible via Web GUI and API services
- Cloud first, no IT costs
- Automatic activation and network update
- Native integration of standard data (FCD and maps)
- Self-learning traffic forecasting
- Definition of KPIs and personalized alerts on corridors
- Automated alert sharing by email*
- Probe density*
- Historical analysis*

* to be released in the coming months

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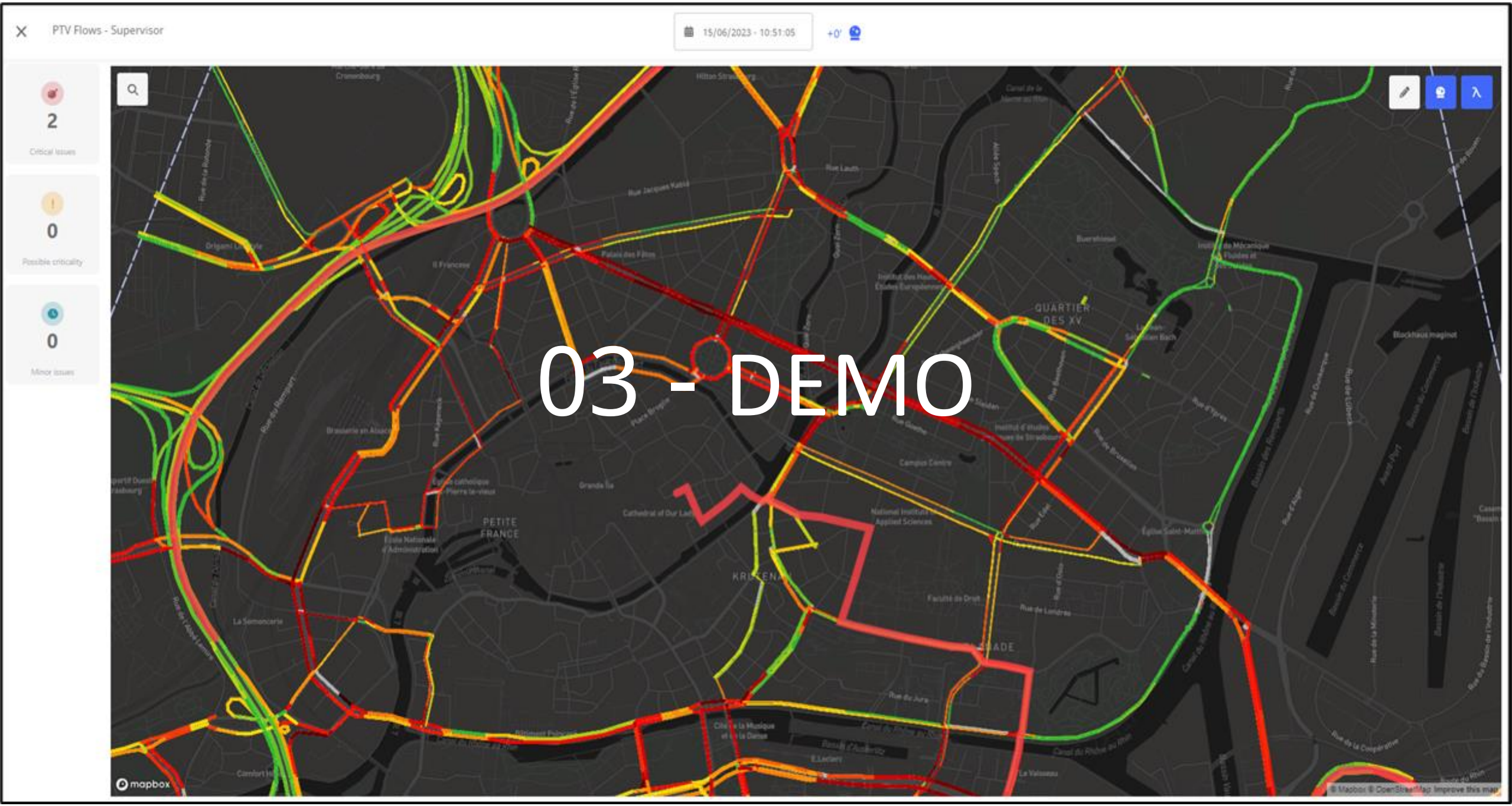
PTV Flows - Supervisor
15/06/2023 - 10:51:05
+0'
2
Critical issues
0
Possible criticality
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Minor issues
03 - DEMO
QUARTIER DES XV
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mapbox

04

ADDITIONAL DETAILS

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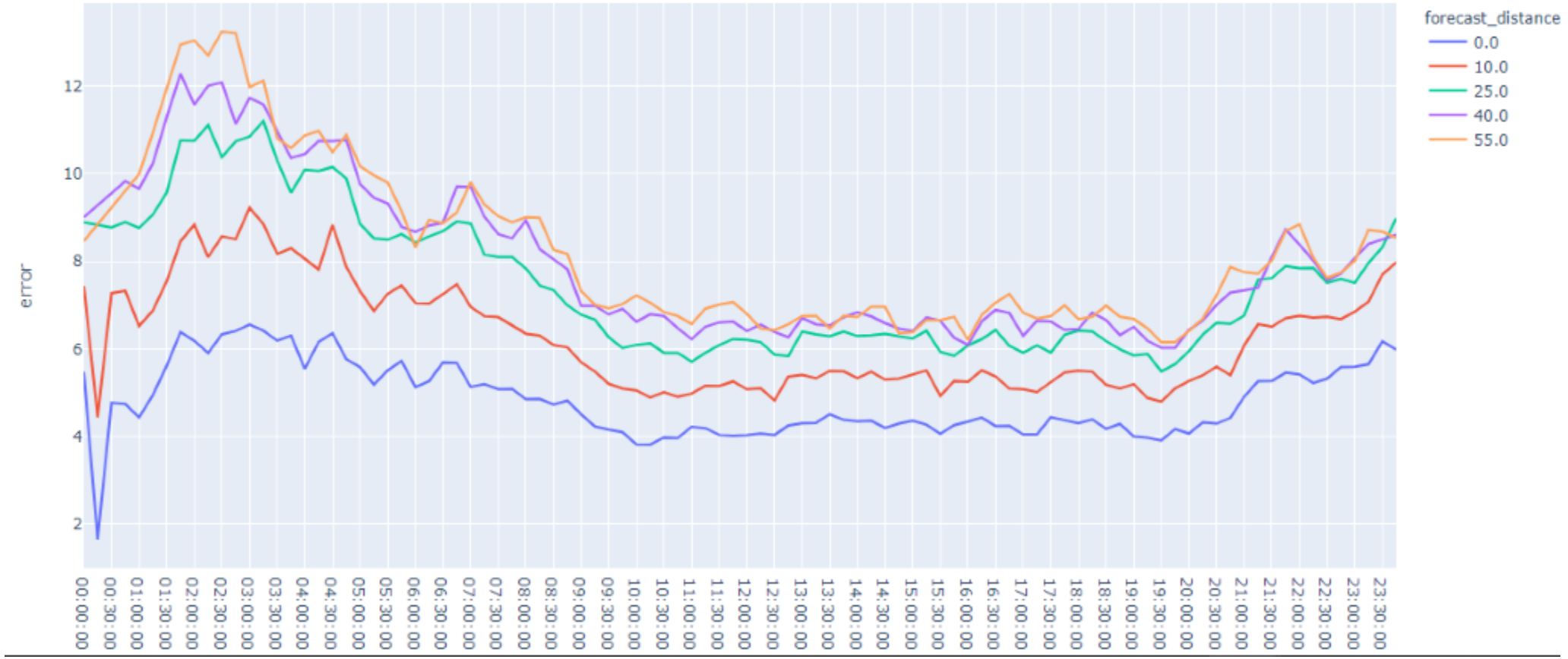
FORECAST QUALITY

mape (%)



Mean Absolute Percentage Error : $MAPE=(|forecast-measure|)/measure$

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TECHNICAL DETAILS

- Client requirements
  - Use the latest version of Google Chrome .
  - Network bandwidth: recommended connection speed 20 Mbps or more.
  - Screen resolution: 1600 x 900 (high color quality) or higher.
  - Processor: recommended Intel Core i5 or newer with 8GB RAM
  - Graphics card: needs to support webGL.
- Network update
  - Every year, on client request
- API output location reference:
  - OpenLR
  - Internal map ids

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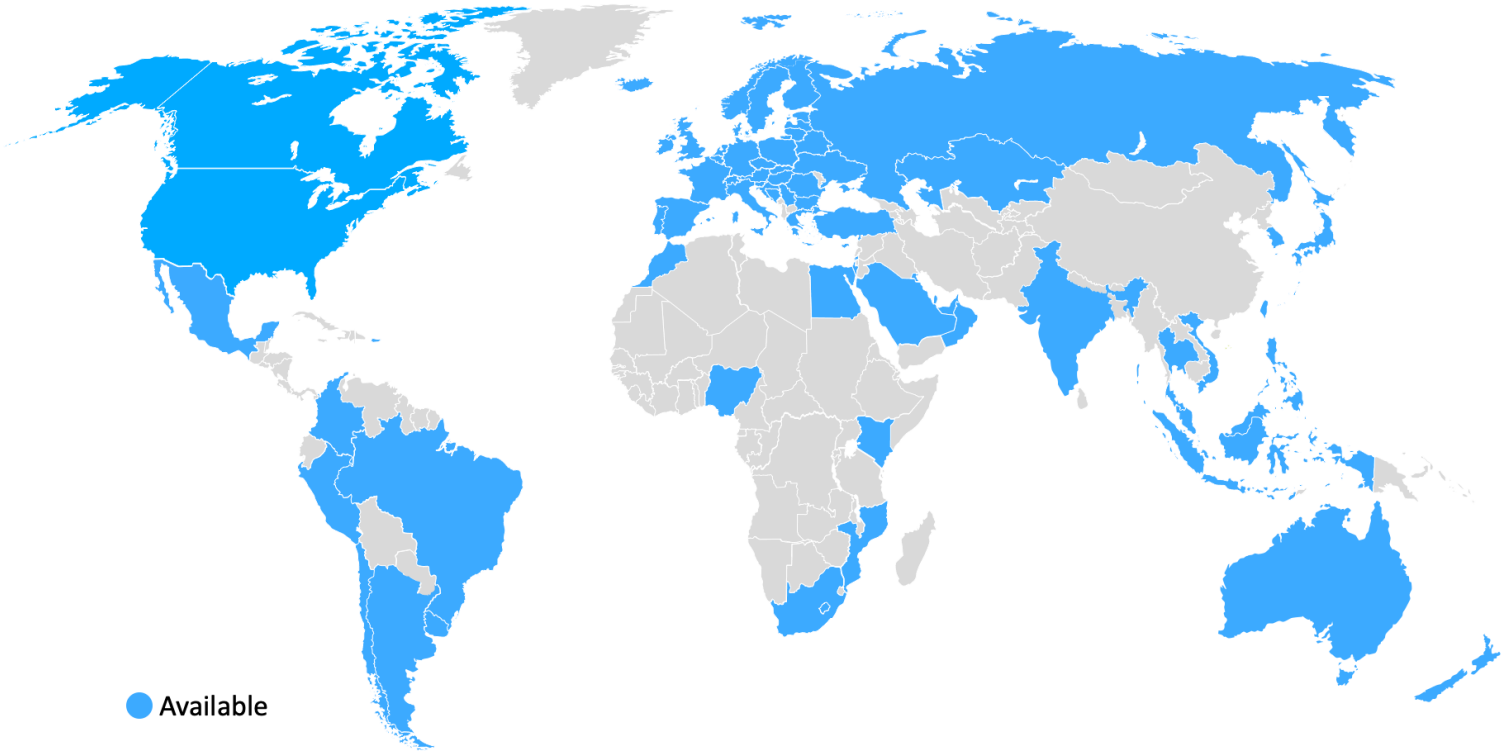
MARKET COVERAGE

coverage in light blue



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PRICE TIERS

Price Plans	**Free (3 months)**	**Small** Corridor	**Medium** Town	**Large** City / Regional Roads	**Extra Large** Region / National Roads	**Custom**
Km included	5	400	1.000	5.000	10.000	> 10.000
Users included	3	5	5	5	5	**ASK PTV**
KPIs included	3	10	10	10	10	
Forecast Element included	6	6	6	6	6	
API Key included	0	0	0	0	0	

- Additional kilometres, users, KPIs, forecast elements and API Keys available on demand
- For quotations, please refer to the local PTV subsidiary

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05

USE CASES AND BENEFITS

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SOME EXAMPLES OF USE CASES

Motorway network

- Network performance Indicators for the road authority
- Predictive alerts of queues for possible traffic rerouting
- Activation of reserved lanes based on predicted travel times

TMC

- Comprehensive traffic monitoring and forecast for the whole network
- Traffic management with automatic alerts for 3rd part system (e.g. VMS);
- Timely notification of problems to stakeholders (e.g. urban police)

Construction site monitoring

- Real-time impact assessment of construction sites (through kpi)
- Queue monitoring around the construction site

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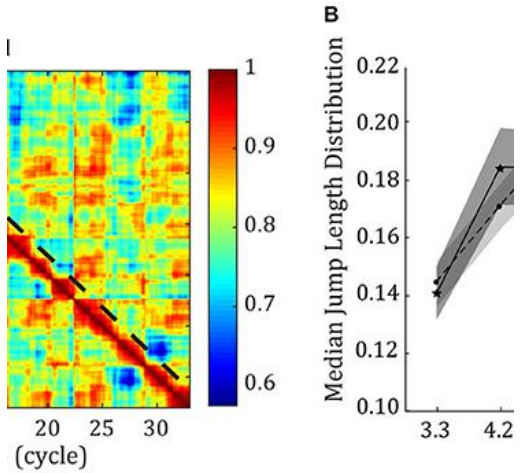
SOME EXAMPLES OF USE CASES

Pre/post studies

- Activate PTV Flows and monitor variations of KPIS before and after any intervention/roadwork/ signal timings/etc
- Currently it requires the client to download data but we will add historical analysis features soon



FCD tenders

- FCD data delivery on maps for a specific area by API
- It requires evaluation of requested output that must be standard or will require a system integrator (or PTV services)
- Speed Estimation and forecast is always included

Event/Transportation hubs

- Congresses, Fairs, sport events, airports and other hubs need to monitor and inform people about reachability (to/from)

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BENEFITS

Bundle: Software + Data

All necessary maps and data are included in the package and automatically updated

Cost-effective

You only pay for what you need; no expensive hardware or infrastructure necessary

No need for manual monitoring

PTV Flows runs in the background and automatically informs the operator about current or upcoming incidents

Take timely actions

Leverage machine learning technology and self-learning forecasts to proactively manage traffic

Full support for API and automation workflows

KPIs and link-based results are available through a REST based API

No installation necessary

PTV Flows is cloud-based, self-updating and easily scalable

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Questions

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