# PTV Flows

Monitor and predict traffic in real-time
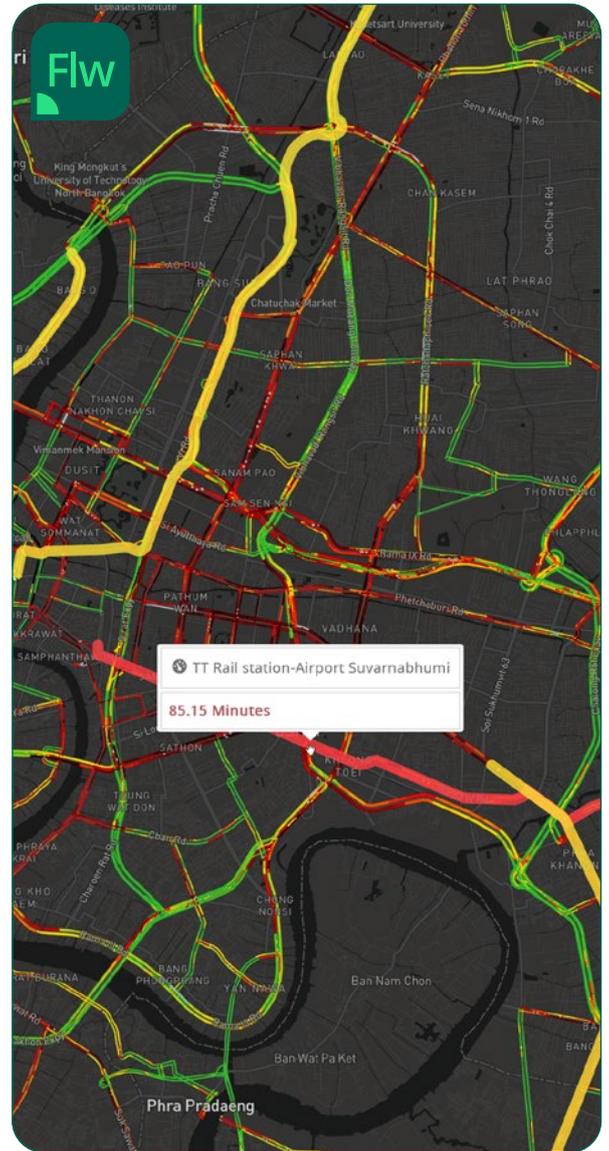
PTV GROUP
part of Umovity

# PTV Flows: Cost-effective and hassle free traffic management

PTV Flows allows traffic operators to effortlessly monitor and predict traffic in real-time. By leveraging machine learning, state-of-the-art algorithms, and automatic alerts, PTV Flows enables cities and road authorities to optimize their traffic management without the need for extensive resources or complex infrastructure.

Therefore, PTV Flows comes with a network map that is updated automatically and floating car data from a major provider with extensive coverage.

The automatic alerts help traffic operators to proactively manage traffic, reduce the length of delays, and increase the efficiency of the transport system.



# Your benefits:

### Bundle: Software + Data

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

### Cost-effective tool

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

### No 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 & self-learning forecasts to proactively manage traffic

### Full support for API and automation

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

# PTV Flows key functions:

## Robust self-updating traffic forecasts

Short-term prediction of traffic flows is an important
topic for any traffic management control room.
PTV Flows analyzes past and present speeds and KPIs
and uses machine learning to identify patterns and trends
that may not be immediately obvious to human analysts.

The predictions allow the traffic operators to spot
upcoming incidents up to 120 minutes into the future
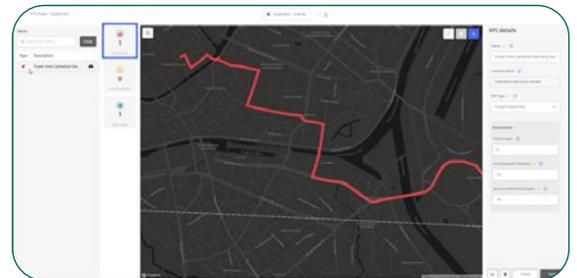and to proactively manage traffic flow.



## Predictive automatic alerting

PTV Flows' automatic and predictive alerts help
traffic operators to stay ahead of potential problems
and to act before congestion occurs.

By eliminating the need for manual monitoring of traffic,
the system can minimize human intervention
and allow traffic operators to focus on more urgent tasks.

The alerts are being sent as email and can be
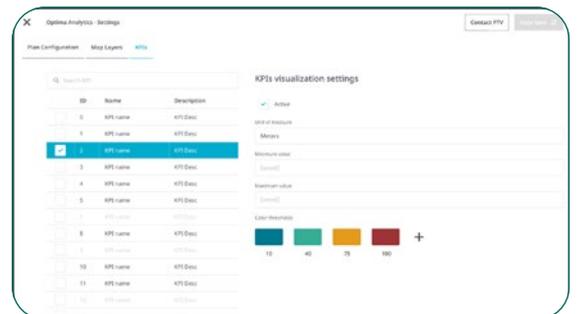customized to the traffic operator's preference.



## Customization & flexibility

PTV Flows can be adapted to your needs. The road network
being monitored by the system can range from just
a couple of streets to a whole region and is easily scalable.
The advantage: You only pay for what you need.

The customizable KPIs on which the alerts are based on
can reflect unique traffic challenges such as congestion
hotspots, peak traffic patterns, or problematic intersections
and thus provide a more accurate picture of traffic
conditions than just standard KPIs.

In case you don't want a browser-based tool and prefer
to integrate PTV Flows' algorithms and results into
your existing systems, there is also an API available.



## A selection of satisfied PTV customers for traffic management:

Tecnologie
Telematiche
Trasporti
Traffico
Torino

:::ITS
Vienna
Region

ELSOL
Electronic Solutions

# Are you interested in a **free trial** of PTV Flows?

Our experts will be happy to provide you with a free trial version and answer all your questions.

Flw

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## Common use cases for PTV Flows:

### Motorway network

- Network performance indicators for the road authority
- Predictive alerts of queues for possible traffic rerouting

### Construction site monitoring

- Real-time impact assessment of construction sites
- Queue monitoring around the construction site

### TMC

- Comprehensive traffic monitoring and forecasts for the whole network
- Automatic alerts for 3rd party system (e.g. VMS) and stakeholders (e.g. urban police)

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