

PTV **VISTAD**

the mind of movement

**WHERE DOES ROAD SAFETY
REALLY START?**

A SOFTWARE SOLUTION FOR THE QUALITATIVE COLLECTION AND VALIDATION OF ACCIDENT DATA



Safety is not a matter of course. Nearly every minute, somebody is hurt or killed in a traffic accident. Therefore, it is important to set clear goals for reducing accidents involving personal injury and also to collect data about accidents, so that suitable measures can be taken to increase traffic safety.

The traffic accident database PTV Vistad is a state-of-the-art software system for the collection, validation and analysis of accident data. The software visualises accidents on a map in seconds with just a mouse-click and nearly any detail information can be used as filter criteria. Even the digital schematic accident sketches can be called up directly in the system and visualised appropriately. In addition, the accident data can be filtered geographically and according to numerous characteristics of the accident dataset.

The system offers safety experts all necessary functions for local accident investigation and work by the accident committee, consisting of traffic police authority as well as road construction authority. It can also be used to search for thematic accident clusters or specific clusters etc., and these can be pre-sorted ranked according, inter alia, to the accident severity or vehicle type. Thanks to the standardised data interface, PTV Vistad is extremely well-suited for the cooperation of independent agencies such as the police, communal and state authorities. The central data storage allows nationwide use by police authorities. Thus, with the touch of a button, it is possible to make nationwide evaluations - using up-to-date accident data. Individually-configurable rights and roles also ensure that all participants only see and edit the data approved for them. Last but not least, the software offers an extensive set of print-ready reports which can be used to detect trends quickly and optimally assess the success of measures taken.

5 GOOD REASONS

FOR PTV VISTAD

BENEFITS



STANDARDISED COLLECTION AND QUALITY-ASSURED VALIDATION OF ACCIDENT DATA

Rely on a leading software system, which thanks to standardised collection of accident data recorded by police and automatic plausibility checking provides valid information about traffic accidents. The software thus optimally assists with traffic safety work - from collection and analysis to local accident investigation, on through to measures taken and monitoring their outcomes in terms of accident savings.



STATE-OF-THE-ART-SOFTWARE

Rely on software which is based on decades of intensive research, close cooperation with police authorities, accident committee offices, numerous NGOs, municipalities and communal users, and which has been enhanced constantly. Thus you have a solid data portal which always provides the most up-to-date figures for accident statistics.



EASY COOPERATION

Profit from a central platform for all accident data, which can be used jointly by agencies that act independently of one another, resulting in synergies in handling the various questions they pose. For example, the police can complete and validate accident data in PTV Vistad; this data can then be used by the accident committee for additional analyses and traffic safety-relevant activities. The rights and roles system ensures that users can only see and process the data and information to which they are entitled.



USER-FRIENDLY & EFFICIENT

Transfer accident data to PTV Vistad in just a few steps. The software detects inconsistencies in data sets automatically and these can be corrected or completed quickly. This means that you have a pool of high-quality accident data that can serve as the basis for safety analyses. Smart reporting functionalities assist in creating various reports for different questions in numerous formats with just a mouse-click.



STRONG SERVICE

Become a member of our large international user community. Benefit from our skilled and dedicated support team, our professional services, detailed documentation and extensive training programmes, ensuring a high level of knowledge exchange.

USE CASES

AT A GLANCE

QUALITY ASSURANCE: ACCIDENT DATA COLLECTION AND VALIDATION

Reliable and consistent accident data is the basis of any road safety work. With PTV Vistad, the police, other authorities and accident committees – consisting of traffic police authorities and road construction authorities – have a tool which provides an optimal central platform for the collection, validation and analysis of accident data. The software is very well-suited for inter-agency work. The sophisticated rights and roles concept ensures that dedicated user groups have access to particular data and can process it in accordance with their organisational unit. Importing data into the software is automatic and quick. Thus, accident data collected via interfaces from police procedural systems can be imported or transmitted in MS Excel, CSV or XML format for forwarding to third-party systems. There are also special formats available for the transmission of relevant accident data to installations outside of the police department. Similarly, the collection client, which creates or can complete accident data efficiently manually in PTV Vistad.

The subsequent plausibility check of all stored information, which is integrated into collection, guarantees the highest data quality. More than 200 plausibility rules specified by the German Federal Statistics Bureau and which provide quality managers with precise instructions for data maintenance ensure the validity of the data collected in PTV Vistad. If, for example, the data is inconsistent, the software automatically ensures that the user is informed about possible error sources and that plausibility violations can be queried in the software systematically. A special feature of the software system is the flexible configuration of the plausibility rules, which can be easily and individually adjusted to the country-specific accident structure. If country-specific guidelines deviate from the plausibility logic or if there are additional factors, such as the expansion of road users to include e-bikes, these can be adjusted individually to suit national standards with the help of the PTV experts.



VISUALISATION ON THE MAP WITH A MOUSE-CLICK

If the data has passed the plausibility check, it can be completed to include the precise accident locations and visualised. In PTV Vistad, both commercial maps via PTV xServer and external map material such as Bing Maps and OpenStreetMap data via the WMS interface can be used for georeferencing. Similarly, country-specific map servers approved for the authorities can be incorporated.

The precise specification of the accident location is entered into the PTV software quickly and easily with a mouse-click on the digital road map; it is positioned using appropriate address information. After specifying the coordinates, the user can also add an electronic sketch that visualises the accident to the alphanumeric accident data set and provide additional background information and notes. For the schematic drawings, the sketch editor makes the creation of accident sketches easy by offering the user a selection of objects such as traffic signs, vehicle types, etc. via the symbol library.

STATISTICS AND REPORTING

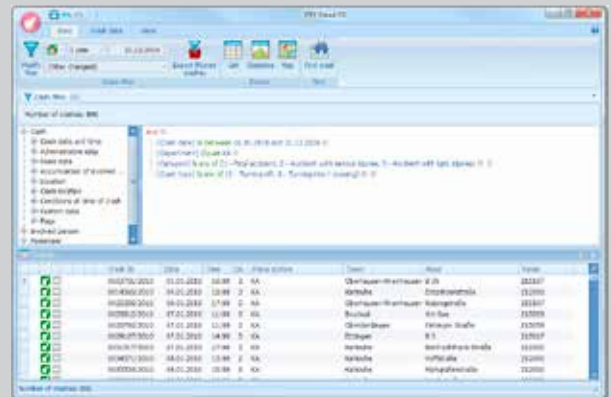
Detecting trends in accident statistics - this is the strength of PTV Vistad. Here the software offers users not just a broad spectrum of standardised reports which can be generated as PDF, text, MS Excel file or lists in seconds with the touch of a button; it also offers the opportunity to filter the accident events both geographically and according to numerous attributes such as involved parties, age, sex or degree of injury. During the analysis it is therefore also possible to devise targeted measures for increasing safety, especially selectively for vulnerable road users such as pedestrians and bicyclists.

DIFFERENT RIGHTS FOR DIFFERENT USER GROUPS

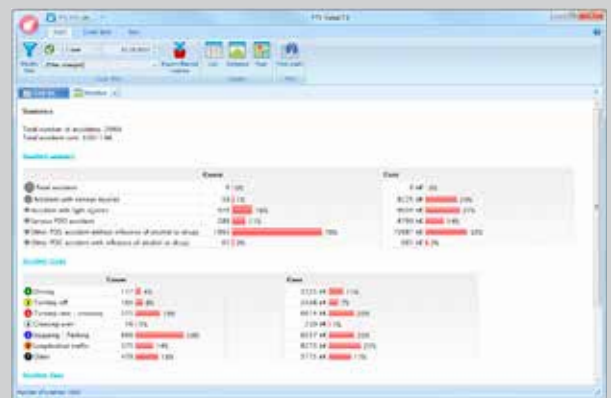
In order to be able to compare the figures as well as possible, the software also offers historical comparative statistics which can be used to trace the development of accident figures. The sophisticated rights concept also ensures that various user groups can call up reports that are appropriate for their organisational unit and responsibilities. This way, police departments can call up recurring monthly, quarterly and annual reports on a nationwide level, while by contrast aggregated statistics and detailed reports on the bureau or country level are also available.



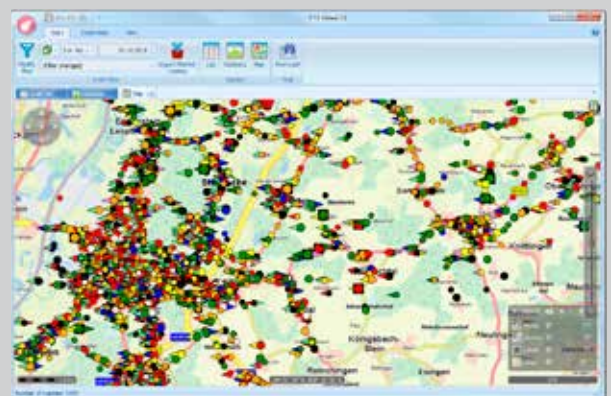
Crash data entry with automatic rule-based data validation



Comprehensive crash data filter and clearly list allow efficient data validation and completion



Statistic reports can be easily created by using the filter and statistics function



PTV Vistad displays the accident data on the digital map according to the current filter options

OUR ENGAGEMENT FOR ROAD SAFETY



Together we can
save millions
of lives.

UN DECADE OF ACTION FOR ROAD SAFETY 2011-2020

In 2014, the PTV Group signed the Global Road Safety Commitment, an agreement for worldwide road traffic safety. The PTV Group hereby declares its support for the goals of the agreement: Helping organisations to develop a systematic approach in order to reduce the main risks of traffic safety and ensure greater safety on the roads

www.roadsafetyfund.org



EUROPEAN ROAD SAFETY CHARTA

The European Road Safety Charta, under the leadership of the European Commission, is the largest civil platform for road safety. In addition to the more than 2300 signers from public and private institutions, the PTV Group is among the participants, who are using their power to work to achieve road traffic safety and reduce the number of traffic fatalities.

www.erscharter.eu



FREE WHITE PAPER ON ROAD SAFETY

- ▶ Inform yourself about facts and figures regarding road safety,
- ▶ get to know what thought leader moves when speaking about this issue and
- ▶ learn why it is important to break out of the institutional silos to bring safety experts and transport planning professionals closer to each other!

your.visum.ptvgroup.com/WhitePaper-RoadSafety

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