



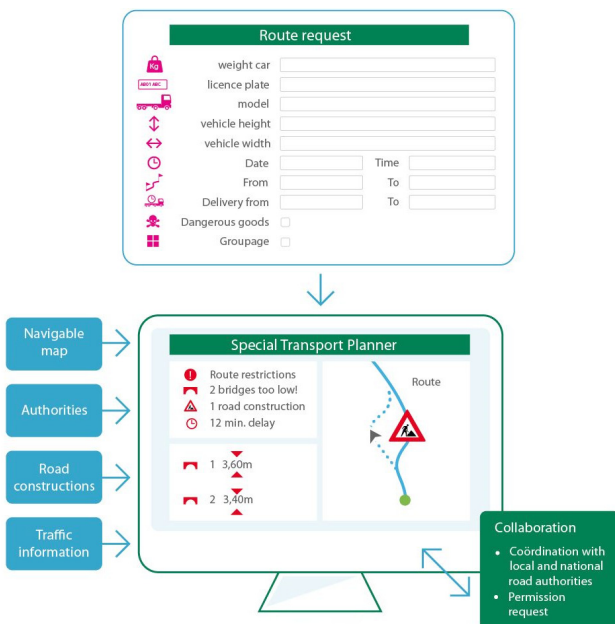
Planning and logistics

With the planning and logistics solutions developed by ARS T&TT, road authorities, logistics companies and enforcement organisations can optimise their transport planning and permission handling.

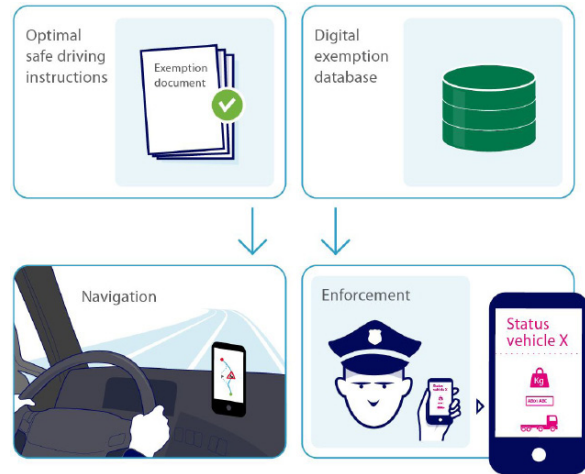
The ARS T&TT Transport planning solution enables authorities to regulate permission for exceptional transport to use their road networks, while logistics companies can use the platform to provide optimal vehicle-specific driving instructions. Our solutions provide accurate, timely and location-specific planning information at the right time, for the right place, in the right format at minimal cost.

Special transport planner

The Special transport planner platform (STPP) developed by ARS T&TT provides real-time multi-modal information.



The STPP forms the basis for all of the planning and logistics projects carried out by ARS T&TT. This modular platform can be used to plan detailed routes taking into account actual road restrictions, roadworks and multimodal route alternatives. The platform delivers data using open standards to in-car navigation systems, enforcement systems and other systems by using open data standards.



Benefits

- Cost reduction due to less paperwork, fewer delays and lower associated costs.
- One multimodal platform including up-to-date maps, restrictions and real-time traffic information.
- Support for multimodal transport planning which includes rail, road and water.
- Dedicated GUI for road authorities, logistics companies and enforcement organisations.
- Connections to additional sources including real-time and predicted traffic and roadworks information.
- Collaboration: Easy sharing of information between stakeholders regarding planning and requesting approvals.
- Detailed driving instructions with route plan, special conditions, speed limits and cautions.
- Tracking and tracing of vehicles and on-trip rerouting by sending real-time route changes to vehicles.
- Cautions and constraints for an approved route can be included in the route plan.
- Standardisation and modular production conversion for rapid and reliable deliveries.
- All stakeholders receive a common view of consignment details, schedules for transportation, planned route information, road details, road structure details, etc.
- Builds up historical data on specific types of transport planned routes, road structures, etc.
- Standard APIs are available for uploading business information and road restrictions.
- Real-time quality control, 100% reliability in quality and delivery information, over 99.9% system availability.



From road structure info to multimodal transport planning

The ARS T&T Special transport planner maintains a database containing information on road network and road structures. Details of road conditions, overhead structures and cables, tunnels, road characteristics such as sharp turns, steep inclines, bridges, structural details (e.g. the load bearing capacity of structures such as bridges), underground pipes, cables or ducts, level crossings, and special conditions or events (e.g. road-works or festivals) are collected and maintained within the system.



When a route planning request for a special transport comes in, the vehicle and consignment details are captured by the system, including vehicle type, registration and ownership, driver details, and consignment details including height, width, gross weight, axle weight, overall length, type of consignment, classification, precautions and special conditions / constraints,.

Standard APIs are made available to the transporters for uploading the requested details. The route planner also maps significant waypoints along the route that may be of interest to the transporter, such as the point at which the driver changes or the escort starts, stops or changes.

Assisted and complex route planning

The system also supports an assisted route planning feature, which provides an option for transporters to choose their preferred routes and submit them for approval. The assisted route planning feature indicates the suitability of the selected route based on road conditions, structural capacities / constraints, etc.

Additionally, the system has a unique feature enabling the planning of complex routes that avoid unsuitable structures and other road constraints without manual intervention.

Interface and reports

The Special transport planner offers a help desk function that enables road owners / authorities to provide specific services to different agencies. Stakeholders are also provided with specific views and sets of functions relevant to their operations. The functionalities include authorisation and authentication for each user, registration of named users from each agency involved in the process and workflow-driven processes with routing, escalation and alerts for various events / conditions.



An example of bad special transport planning