



CASE STUDY

Flemish tunnels safer thanks to Tein Technology’s automated central tunnel management system

Flemish Tunnel and Control Centre (Vlaams Tunnel- en Controlecentrum - VTC) provides a permanent service, 24/7. Safety and mobility are priorities. Tein Technology guides VTC in transition from various legacy platforms to a robust central tunnel management system with intelligent automation and maximum reliability.

Flanders invests in roads and tunnels
Budgets for investments in all types of transport are rising to an all-time record in Flanders.

By the end of 2019, Flanders will make available 2.7 billion euros for road works, including the upgrading of technology and safety in all tunnels, in accordance with the relevant EU directives.

Traffic jams have doubled since 2011. Statistics show a 44% increase in freight traffic and an 11% increase in passenger traffic by 2030. These traffic works are therefore necessary to satisfy the evolving road needs.

Central control for motorway and major regional tunnels in Flanders
The Flemish Tunnel and Control Centre (VTC), part of the Flemish government

department “Agentschap Wegen en Verkeer”, acts as the central control room for motorway and major regional road tunnels in Flanders.

Particular attention is given to tunnels part of the Trans European Road Network (TERN).

The new framework conditions for the trans-European road network (TERN) required the new installation of a powerful monitoring centre for the Flanders region.

When completed, it will be possible to centrally monitor all tunnel systems in the region.

The secret of Tein Technology’s management platform lies in the combination of modern software technology and the open system design

The intelligent platform integrates tunnel technology
Tein Technology has been commissioned to modernize the central command and control platform of the VTC.

With this project, Tein Technology confirms its leading position as a specialist integrator in traffic applications.

Its profound expertise in the most modern IT technology matches the strict requirements of mission-critical environments - continuity, reliability and availability.

Automation technologies are evolving rapidly. The new VTC tunnel management system is based on the XAMControl technology of Austrian partner Evon GmbH.

It was initially configured in 2016 and will become one of the largest control centres ever realised with XAMControl with approximately 150,000 external data points.

An integrated total solution
XAMControl is implemented as a software layer on top of the existing tunnel systems. This umbrella software layer controls different tunnel technologies and functional links, variable message signs, radio rebroadcasting, CCTV cameras as well as all components of the communication platform (central PABX, intercom positions and broadcasting systems).

Tein Technology confirmed in its leading position as a specialist integrator in traffic applications

The highlights of the system are a completely integrated workflow engine for the guided execution of all issues related to deviations in traffic and technology, the so-called scenario management, the first ever use of ThinClient technology that permits

users all over the country to access the user interface and a proprietary training system for employee qualification.

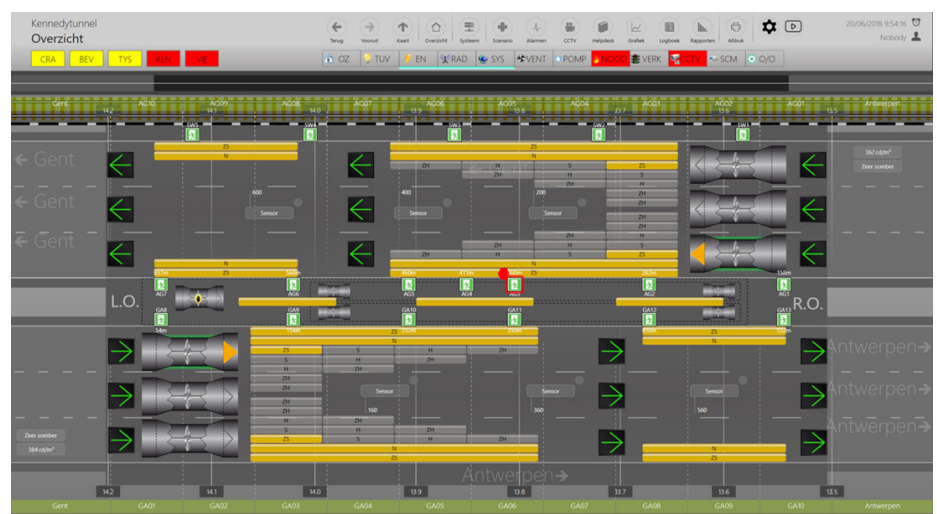
Custom built automatic emergency scenarios, developed by Tein Technology, adapt XAMControl to the specific needs of VTC.

Aspiring rollout and integration plans
Since the acceptance test in November 2016, Tein Technology has been successively integrating additional tunnel systems in the Belgian Flanders region

using XAMControl. By the end of 2018, all TERN tunnels in Flanders will be centrally controlled via XAMControl.

In addition to the complete assimilation of tunnel monitoring, further networking with other central systems are planned.

The ambitious integration of the video management centre, also installed by Tein Technology, has already been successfully completed.



CLIENT & SOLUTIONS

Client: Vlaams Tunnel- en Controlecentrum

Project date: 2017

Solutions: Traffic

Efficient traffic management heightens the capacity, efficiency and safety of road networks. Traffic data collection and analytics reveal predictive traffic flows and open the way to traffic modeling and preventive action. Our in-house know-how and experience combined with our proven relationships with city and state authorities enable us to provide innovative traffic management systems on scales ranging from the small to the very large.

- Fixed and mobile Automatic Number Plate Recognition solutions (ANPR)
- Automatic Incident Detection (AID)
- Traffic data collection
- Traffic management and enforcement

To find out how your organisation can benefit from Tein Technology's expertise in traffic management, contact:

Info@teintechnology.com

Tel: Belgium +32 (0)2 240 64 64

Tel: The Netherlands +31 (0)20 301 2755

or visit our website: www.teintechnology.com

About Tein Technology

Tein Technology is a leading-edge provider in the integration of voice and video platforms for mission critical environments such as financial trading rooms, traffic control for road, rail and waterways, port monitoring, city surveillance and public transport. Tein Technology runs a team of 60 highly qualified specialists and is based in Brussels and Amsterdam.



SMART CITIES



INTELLIGENT TRAFFIC SOLUTIONS



INNOVATIVE MARITIME TECHNOLOGIES



INDUSTRY