Project reference | Dutch Highways

Let's s**i**qure your world!
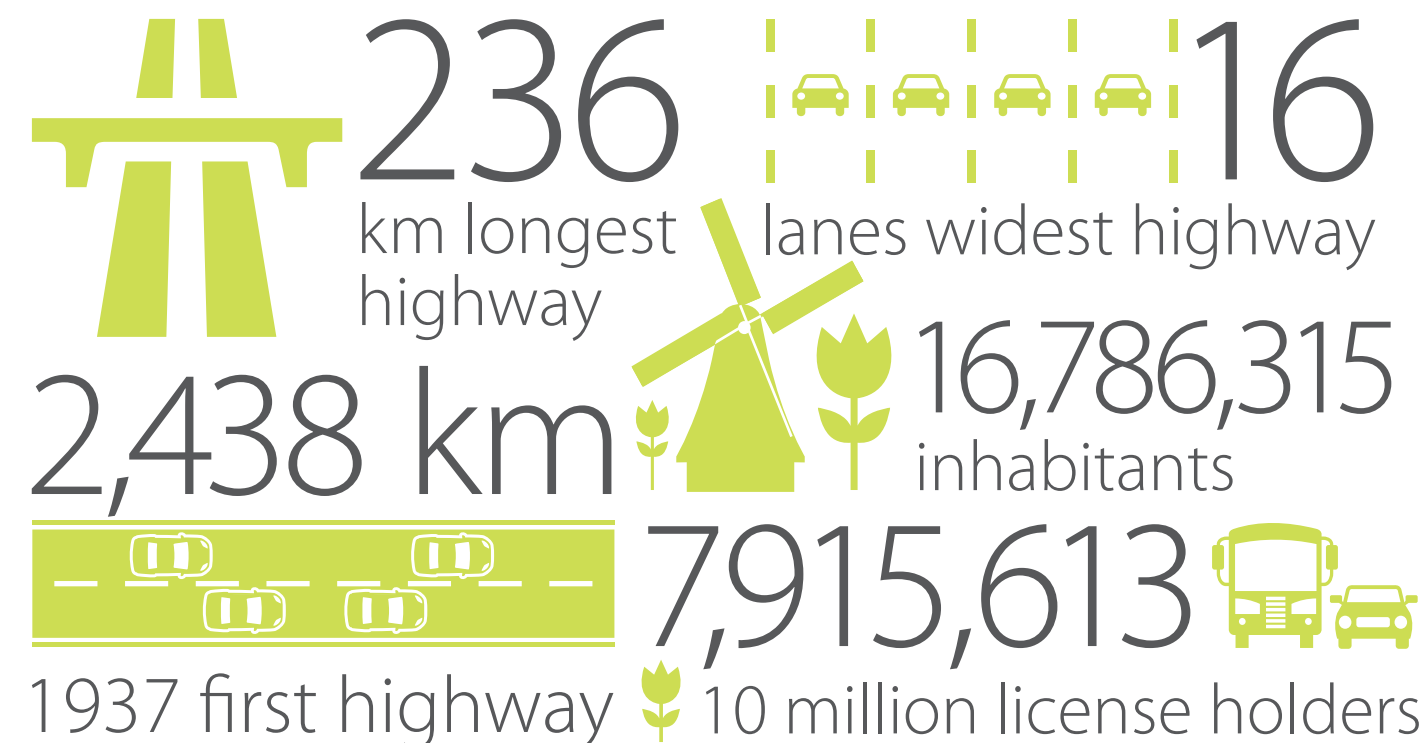
Dutch Highways

Every year more than 400 million tons of cargo pass through the port of Rotterdam, making it one of the world's most dynamic and influential centres of economic activity. It goes without saying that goods need to be able to enter and exit this economic axis as smoothly and efficiently as possible. The Dutch Ministry of Transport, Public Works and Water Management (RWS) solicited for a scalable, future-proof traffic management solution with crystal clear real-time images and incredibly high service availability capabilities. Siqura, along with two systems integrators, GTI and Imtech Projects, took on this challenge.

236 km longest highway

16 lanes widest highway

2,438 km

16,786,315 inhabitants

7,915,613

1937 first highway

10 million license holders

Customer
The Dutch Ministry of Transport, Public Works and Water Management (The Netherlands)

Systems integrators
GTI
Imtech Projects

Technology
IP-based video network

Market
Transportation – Traffic

Challenge
Implement a CCTV system over IP for all the highways and waterways in the Netherlands

Solution
Siqura encoders and decoders

The challenge

Siqura was asked to design and deploy a multiservice network capable of servicing up to 600 DVD-quality video inputs and outputs, 144 audio connections, LAN data and an array of telemetry. The availability of each service had to be at least 99.8 percent, and the network needed to be upgradeable, durable, and, naturally, reasonably priced. The network also had to be redundant, requiring a complete recovery of all the other services, such as video, audio and data streams, in the blink of an eye. Siqura became responsible for the design, installation and commissioning of the entire network system, which ultimately came to include an array of equipment and technology, from encoders, access switches and routers to virtual matrix software.

The solution

Siqura played a proactive role in testing the integration of third-party equipment and software to ensure trouble-free interoperability. In an extensive proof-of-concept testing program, all the required functionalities were successfully met, including conditions regarding latency, video quality at 8 or 10 Mb/s, compatibility with a Barco video wall and Siqura's ability to design a GBE network optimised for IP video.

In one of the busiest and most financially significant regions of the world, RWS needed a reliable, centralised traffic management system that could handle all nautical and terrestrial transport routes of the area 24/7, 365 days a year. Siqura stepped up to the plate, inventing a cutting-edge IP video network system that proved itself both in testing and implementation. In fact, the system met with such success that RWS has now deployed it along all national highways.

C-60 e

DC SYNC

A1
CC1
A2
CC2
D1
D2
NV
VIDEO

SIQURA IQ

SIQURA
SURVEILLANCE SOLUTIONS