

GO Maut 2.0 Project

Technology Upgrade of the Austrian Truck Tolling Roadside System

The tender for Austria's tolling system focused on an operator contract which included the entire technical and operational aspects, including the system design. The technical solution had to meet all requirements for an accurate, auditable, enforceable system suitable for rapid nationwide implementation and an initial volume of up to 700,000 commercial vehicles of over 3.5 tons in weight. In line with Austria's transport policy and European objectives, key issues of interoperability and non-discrimination of users were also critical elements within the tender.

A successful toll road network: 2200 km of Free-Flow Tolling.

With this Kapsch contract the client achieved:

- A stable, reliable, and high-performing system with very low demand for manual interventions that has reduced operational costs. Through automation the number of manual validations has been reduced by over 60%
- Flexible and scalable solution to support future change - modular architecture allows for easy extension of the system.
- Service improvement and increased resilience – significant over-achievement of KPI levels leading to revenue protection, less manual work, and detection of nearly all violators.



Project Scope:

- Design, development, and test of the new technology
 - Roadside Tolling & Enforcement Systems
 - Mobile Enforcement Equipment
 - Operational & Enforcement Back Office
- Integration with the existing and the new Commercial Back Office
- Migration of all roadside facilities (approx. 480) during live operation
- Erection of 28 new roadside stations (tolling and enforcement)
- Establishment of a maintenance organization, operation processes, and tools
- Ten years technical operation and maintenance with an option for another five years

The Challenges:

- The technical solution had to meet all requirements for an accurate, auditable, enforceable system suitable for rapid nationwide implementation and an initial volume of 700,000 commercial vehicles of over 3.5 tons in weight. In line with Austria's transport policy and European objectives, the key issues of interoperability and non-discrimination of users were also critical elements within the tender.

The Solution:

- A fully integrated ANPR-based vehicle identification system was developed, built, and installed within a short timeframe
- The enforcement system also provides pure video-based vehicle classification (length, width, height and number of axles) as well as trailer detection.
- The tolling tariffs are dependent on emission classes (deduction for lower emission) and the ANPR identification system checks if the emission-based deduction is valid for the registered vehicles.
- A redundant operational and enforcement back office which provides transaction-building service, covering the full process from commercial vehicle identification and classification up to automatic and manual validation (class, axels, ANPR result).
- 250,000 on-board units with another optional 250,000 to be delivered during contract duration.
- Post implementation, Kapsch continues to provide the technical operation including monitoring, technical support, and system maintenance as well as change management and additional roadside installations as required.



The Added Value

- *Safe and unimpeded transit capability with a particular focus on connecting with the other EU member states*