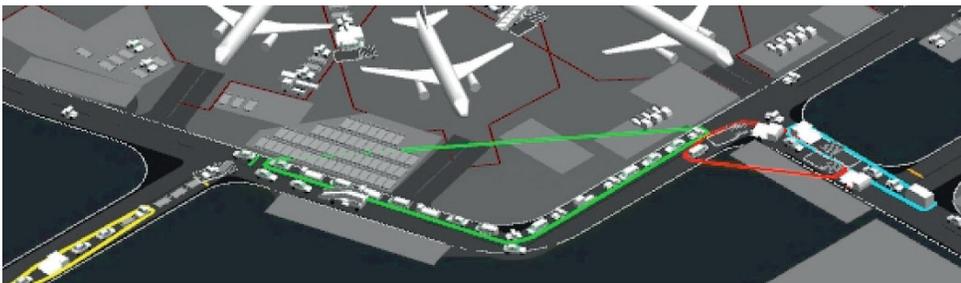


# VEHICLE TRAFFIC AND GROUND HANDLING SIMULATION SOFTWARE



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CAST Vehicle Ground Handling is the leading fast time simulation tool for evaluating airside vehicle traffic and ground handling processes. It offers decision support for planning, optimization and validation of the airside road network and ground support equipment (GSE) facilities.



With CAST Vehicle Ground Handling, operations and infrastructure can be evaluated rapidly in scalable levels of detail, in order to improve the airside layout, plan resources or optimize operations.

## APPLICATIONS COVERED BY CAST VEHICLE INCLUDE:

- » Capacity analysis of infrastructure networks
- » Identification of bottlenecks within the road network
- » Determination of required resources (equipment, staff, parking space, facilities, etc.)
- » Comparison of different layouts and operational strategies
- » Analysis of the influence of an increasing amount of traffic on the existing infrastructure
- » Comparison of alternative routing and operational procedures (What-If experiments)

CAST Vehicle Ground Handling incorporates a sophisticated schedule-based dynamic traffic generation, which takes into account flight load information (e.g. passenger, baggage and cargo), as well as individual ground handler responsibilities and their dispatching strategies. Automated routing, an accurate microscopic driving behavior and conflict resolution guarantees most efficient application and highest usability.

The included comprehensive 3D visualization does not only support an efficient use and analysis but is also an essential feature in order to provide meaningful presentations of results to customers and convince decision makers.

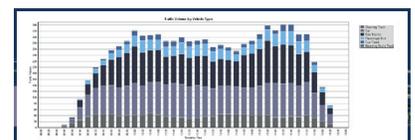
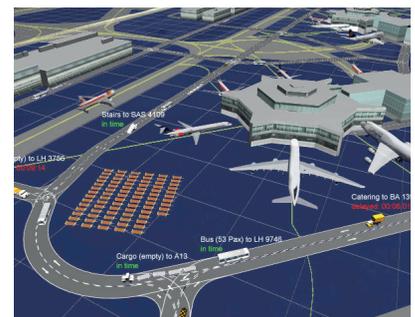
## FURTHER FEATURES:

- » Quick and efficient infrastructure set-up with automated data import and road network generation
- » Ground handling demand generation based on flight schedule and flight-specific ground handling schemes
- » Tour and resource allocation according to individual dispatching strategies
- » Automatic routing, conflict resolution and dynamic traffic management
- » Accurate calculation of capacities, delays, driving times and other relevant KPI
- » Powerful automated analytics, dashboards and export of results
- » 3D flow visualization for analysis and highest management attention
- » Highly rated training and supports services for immediate success

CAST Vehicle can be used stand-alone or as an integral part of the CAST product family:

## FACTS AND BENEFITS

- ✓ Short-, medium- and long-term decision support
- ✓ Reduced investment costs and risks
- ✓ Optimized resources and higher efficiency
- ✓ Enhanced operational quality
- ✓ Easy communication with stakeholders
- ✓ Quick return on invest
- ✓ Individual expert support



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