TOMICS-supported Modelling and Analysis of Biometric Procedure Operation at Airports

At airports the passenger service procedures can be optimised, (partly) automated and their capacity can be boosted by means of innovative technology. For instance, biometric procedures are used for personal identification and in the area of automated access control within the passenger process flow.

For extensive passenger-process-automation the use of biometric procedures (for instance face-recognition-system) proved to be quite promising.

The level of performance and thus the airport capacity is boosted by potential procedure speeding. In addition to economical advantages for the airport operator, the airlines and the Federal Border Guard, the passengers benefit from enhanced safety, service and comfort.

In the context of adopting the concept (application of biometric procedures at airports) they are compared with common procedures and evaluated. For this purpose they are analysed by means of the Microscopic Passenger Simulation-Programme – *TOMICS* – and quantitative influences for traffic-event-prognosis are evaluated in the range of tactical operation.