

TERMINAL PLANNING AND SIMULATION





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The services offered by ARC encompass all aspects of terminal planning. From evaluating existing facilities, to developing terminal layouts and operational concepts for a more efficient use of resources within the terminal (i.e. check-in, security checkpoints, baggage reclaim). Our goal is to enhance the function of terminal buildings, guaranteeing long-term utilization and preventing unnecessary investment costs.



Apart from planning new terminal buildings, the evaluation and improvement of existing terminal buildings and their facilities are an essential part of the planning objectives. Analyzing and evaluating airport operations, concerning capacity and functional analyses, can lead to the detection of unused capacity. This can even postpone or prevent the need for cost-intensive expansion.

ARC's consulting services range from developing terminal layouts as well as operational concepts for new and existing terminal buildings, up to evaluating existing facilities for a more efficient usage of resources (i.e. check-in, security checkpoints, baggage reclaim, etc.). ARC's goal is to improve terminal building functionality, thus guaranteeing a long-term usage of the terminal facility, which in turn prevents additional investment costs.

In order to attain the highest possible level of planning accuracy, ARC employs its multi-agent 3D airport simulation system CAST Terminal, to analyze and visualize passenger flows. Consequently, an accurate representation of the terminal environment is provided, which can be used for further terminal layout analyses and optimization.

Furthermore, with its CAST Express tool ARC conducts advanced facility requirement analyses and capacity assessments to support the optimized planning of facilities and resources.

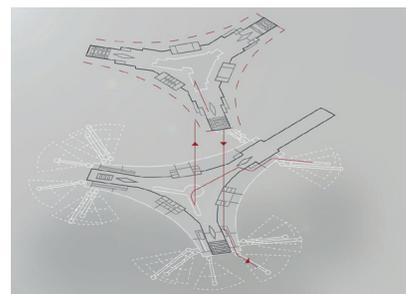
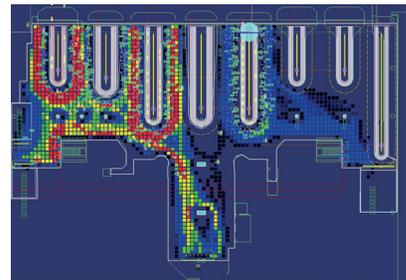
ARC's interdisciplinary consulting team combines long-term experience and expert knowledge and works in close cooperation with customers and relevant stakeholders. Using state of the art methodologies, ranging from analytical calculations to the application of CAST simulation and allocation technology, guarantee a goal-oriented project approach and highest quality of results.

ARC OFFERS A VARIETY OF SERVICES WITH REGARD TO TERMINAL PLANNING, E.G.

- » Terminal facility planning
- » Capacity and functionality analysis
- » Service quality evaluation
- » Selection of the superior terminal layout concept
- » Alternative operational strategy development
- » Architectural concept design
- » Creation of CAD models (2D and/or 3D)
- » Validation of planned terminal design by simulation

FACTS AND BENEFITS

- ✓ Terminal facility planning
- ✓ Capacity analysis
- ✓ Functional requirements
- ✓ Passenger and baggage flow optimization
- ✓ Architectural concept design
- ✓ Low Cost High Quality Terminal



Airport Research Center GmbH
 Bismarckstr. 61
 52066 Aachen | Germany
 Phone +49 241 16 84 3-0
info@arc.de
www.arc.de