



Ausgewählte Projekte und Tätigkeiten

Die nachfolgend aufgelisteten Projektreferenzen habe ich während meiner Tätigkeit als Senior Policy Analyst bei der RAND Corporation (2000-2006) und später als Geschäftsführer der Avistra GmbH in der Rolle als Projektleiter und Principle Research Leader (2006-2017) durchgeführt. Somit oblag mir die administrative und inhaltliche Verantwortung für sämtliche hier aufgelisteten Projekte. Der Bereich Software Development umfasst meine Tätigkeit bei Lufthansa Systems ab 2017.

Software Development

- Product Management for NetLine/Ops ++ (Lufthansa Systems Flight Operations Control Suite)
- Evaluation of Market Potential for OPSD for the external market (outside LHG carriers)
- Agile Transformation
- Product Marketing and Sales Enablement

Safety & Security

- SeminAir – Security in the Gulf Region
- S3 Security from Seat to Seat: Quantification of trade-off effects between security and passenger comfort
- A Critical Comparison of Civil Aviation Security Practices in Europe and the United States Post 9/11
- Risk management at Frankfurt/Main Airport - Quality assurance
- Qualitative assessment of the collision risk resulting from operations with crossing runways at Frankfurt/Main Airport

Aviation & Environment

- New Technical Measurement Procedures for Soot Particles as a Basis for a Certification Approach
- Shaping new concepts to further limit nitrogen oxide emissions in the LTO-cycle and during cruise flight, taking into consideration the current technical development
- Forecasting emissions and emission dispersion at Vienna-Schwechat Airport supporting an environmental compatibility declaration after construction of a new parallel runway
- Developing a secured data basis as decision support for further developing ICAO emission standards for certification of jet engine aircraft
- Assessing the potential for noise reduction of optimized noise abatement approach procedures at Paderborn/Lippstadt Airport
- The Impact of up-to-date Aircraft Emissions Research on Future Civil Aircraft Design Concepts
- Quantifying the potential for nitrogen oxide emissions reduction of civil aircraft in the LTO-cycle at Frankfurt/Main Airport

Airport Capacity & Punctuality

- Determination of standard taxi times at Frankfurt/Main Airport
- Analysis of dependencies between punctuality and runway operating concept
- Assessing the feasibility of shifting air traffic operations from Berlin-Tempelhof to Berlin-Schönefeld and Berlin-Tegel airports
- Analysis of the terminal capacity for TXL airport (Berlin-Tegel)
- Data basis for the illustration of the correlation between punctuality and capacity
- Analysis of the impact of arrival and departure peaks on capacity and punctuality
- Operative capacity prognosis for Frankfurt/Main Airport based on flight plan and weather forecast data
- Developing starting points within the framework of the punctuality management at Frankfurt/Main Airport
- Working out correlation coefficients of operation capacity according to the Fraport Definition (CAPDEL model)
- Studying potential measures within the escalation management for improved punctuality at "Reduced Airport Capacity Operations" at Frankfurt Airport
- Development of a software module for punctuality forecasting at Frankfurt/M. Airport

Traffic Forecasting

- Forecasting the traffic demand at airports in North Rhine-Westphalia within the framework of Integrated Traffic Planning
- Traffic forecast for Berlin International Airport at Stendal
- Air traffic forecast for the Berlin airports 2006
- Traffic forecast for passenger and freight demand and development of a sample flight plan for Berlin-Brandenburg International Airport at Schönefeld (official study within the Planning Approval Procedure)

Market Studies

- Passenger Survey for the three Berlin Airports
- A brief strategic analysis of aviation security - Opportunities for international initiatives
- Market overview of software solutions for an optimal utilization of the runway setup at Frankfurt airport