



Specifying and Designing Operational Concepts that Lead to **Efficient** Operations

The aviation industry has experienced a lot of growth in the past years and will do so for the foreseeable future. Each aviation stakeholder, e.g. airports, ANSPs, aircraft operators, etc., have their own specific requirements and demands. Ensuring safe and expandable operations is the main objective in today's competitive environment. Therefore, there is a need for innovative, cost-effective and flexible solutions.

YOUR CHALLENGES

Organisations are mostly designed for the efficient management of the day-to-day operation. Often the operational resources and/or specific operational knowledge and experience are not available or only with limited capacity in-house. Up-to-date knowledge is a key to success, and internal staff is frequently overwhelmed with changes and new regulations and not able to identify what is applicable for an operation and what is not.

The growth in the aviation market and demand will increase the pressure to have additional capacity available without a significant increase in cost. A review of internal processes and procedures will be required to enable sustainable growth.

OUR BACKGROUND

We have assisted our customers in solving challenging issues related to specifying operational or flight procedures, reviewing and defining airspace structures, supervising their implementation, supporting verification and validation as well as preparing our customers for bringing the changes into operation and securing their effective use.

OUR APPROACH

All our services are tailored to the individual customer and their specific environment and are based on standard concepts and methods to ensure conformance. These methods are well-proven and lead to cost-effective solutions for our customers. Our solutions meet the highest international standards regarding safety, applicability and quality.

- We are committed to long-term relationships with our customers
- We are experienced in managing unexpected changes during all stages of the project
- We believe in the lessons learned philosophy and ensure that our experts are well trained and have the right level of competencies for any project assignment



Project References

European Commission/SESARJU

Participation in SESAR solutions related to, among others, virtual centre concepts, enhanced runway throughput, enhanced arrivals and departures, airport safety nets.

International Organisations

Network Manager: Assessment of the impact of new SESAR operational concepts (like STAM, dDCB, TTA/CTOT, etc).

FAB CE Project Support: Future concepts and procedures for FAB CE in areas like FRA and FUA implementation, ATCO harmonised competence schemes, etc.

National Supervisory Authorities

Expert assistance in certification of ATS providers and Training Organisations.

Regional and major airports

Designing and validating approach/departure procedures, procedures for group control, use of SIDs, STARs, etc.

Capacity improvements to airport airside operations, incl. related airspace changes.

ANSPs

Specifying and validating reorganisation of airspace, implementing FUA or FRA concepts, adapting operational procedures to new ATM/CNS systems, support in implementing specific concepts (e.g. CPDLC), Human Factor assessments, Remote TWR concepts, etc.

Taiwan ANWS: Assessment of ATC workforce and working position plan.

Safety Assessment

- Safety assessment
- Gap analysis
- Risk management

Capacity & Cost Efficiency

- Capacity building
- Definition of key performance areas and indicators
- Operational efficiency
- Cost reduction programs, etc.

Operational Concepts

Specifying and validating:

- New operational concepts
- Principles for airspace definition, etc.

Procedures & Airspace Design

Specifying and designing changes to:

- Operational procedures
- Flight procedures
- Airspace structures, etc.

Airport Operations

- Evaluation of new obstacles at the airport and development of obstacle zones
- Development of airport manuals
- Operational and maintenance
- Safety Management Systems (SMS)
- Accident emergency programme, etc.
- Airport capacity analysis

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