

Aerospace

Our Consulting Expertise
and Projects



Takeoff with UNITY

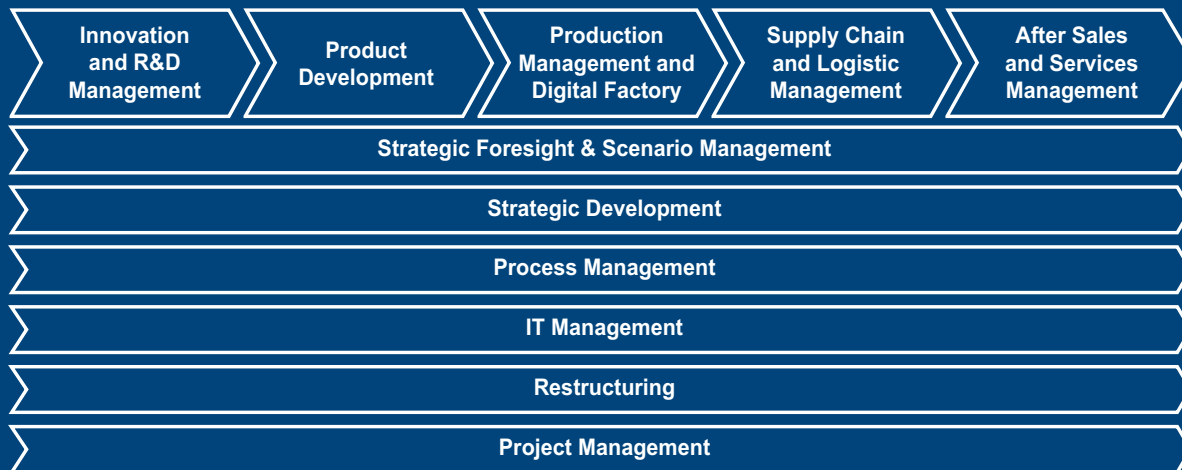
For years, the aerospace industry has been characterized by drastic changes. On the one hand, it is experiencing a shift in the value chain from manufacturers to suppliers. On the other hand, technology and structure are also subject to a fundamental change. New material and system concepts and the demand for higher energy efficiency cannot be harnessed unless innovations and their development and production technology are properly implemented.

For more than 15 years, UNITY Management Consulting has partnered with the aerospace industry across the entire value chain – from innovation and R&D management, product development, production management and digital factory to supply chain and logistic management and after sales and services management. We increase operational excellence and enhance innovative strengths. Our customers profit from our industry expertise, our implementation performance and our efficient project- and process management.



Our Consulting Expertise in the Aerospace Industry

We increase operational excellence and innovative strenghts across our customers` complete value chain.



Over 200 global companies have trusted our advice, these include the following from the aerospace industry:

- AIRBUS
- Alenia Aeronautica
- Diehl Aerospace
- EADS – European Aeronautic Defence and Space Company
- EFW – Elbe Flugzeugwerke
- Eurocopter Group
- FACC
- JAMCO Corporation
- LHT – Lufthansa Technik
- LTAI – Lufthansa Technik Airmotive Ireland
- MTU Aero Engines
- PFW Aerospace
- Premium AEROTEC GmbH
- Fokker Aerospace Group

Selected UNITY Projects in the Aerospace Industry

Strategic Foresight Scenarios and Strategy Development in the Aviation Industry

Task:

- Create a framework for future activities in the areas of research and technology
- Derive requirements for cabin concepts of the future
- Create a general cabin concept that satisfies strategic and customer requirements
- Align strategy and research activities
- Scout technology trends

Measurable Customer Benefit:

- Establish a new innovation department
- Align present research activities and strategic conditions and requirements
- Evaluate research activities based on the strategic framework
- Identify relevant, untapped research fields (technology catalogue)

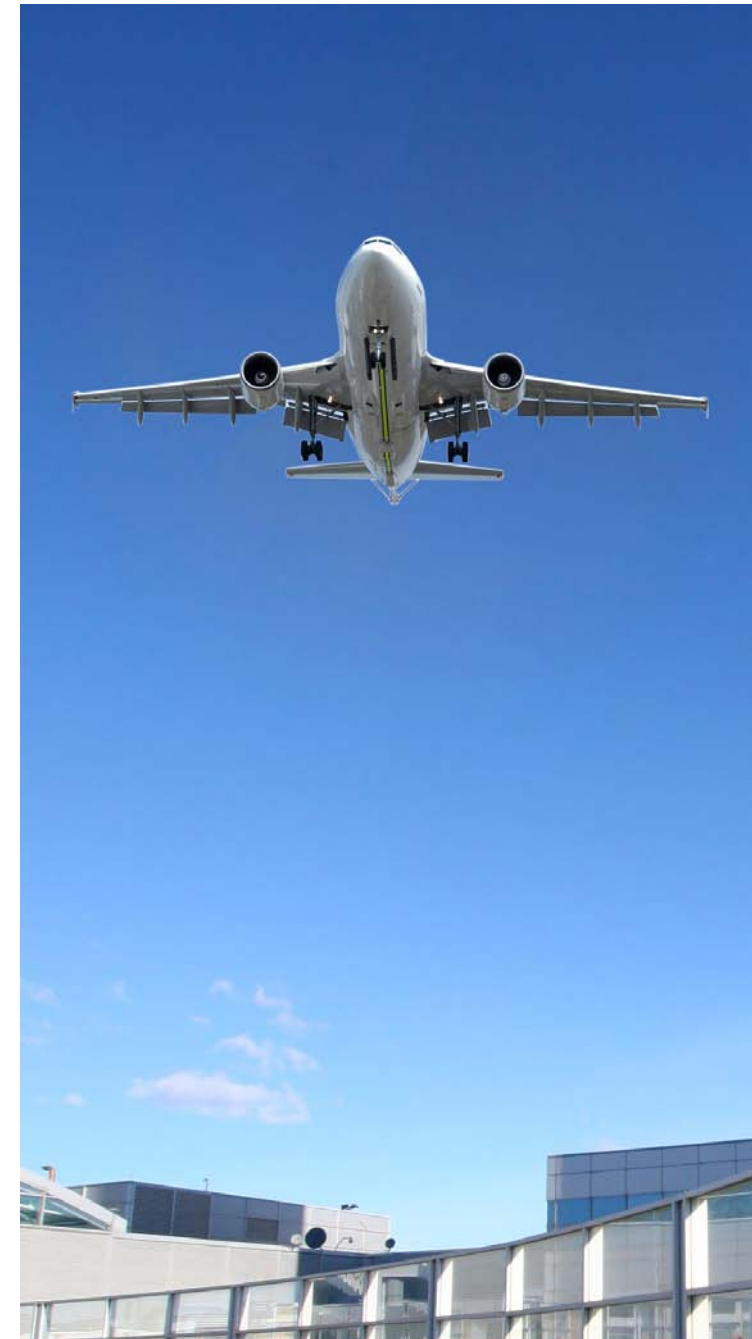
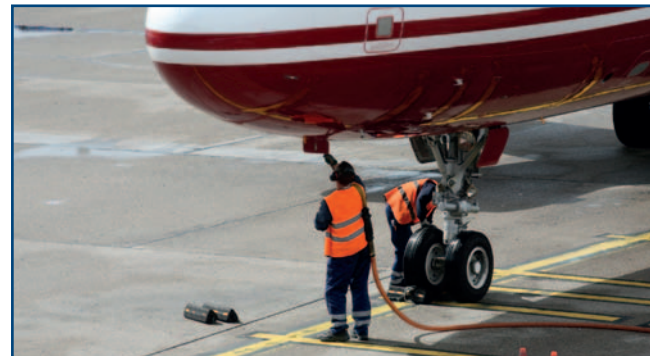
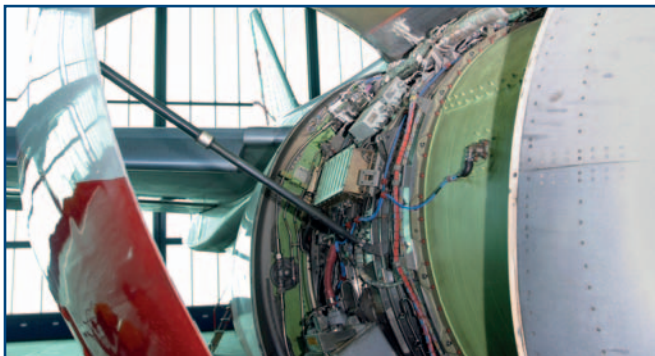
Development Management Reduction of Time-to-Market

Task:

- As-is analysis of interface processes
- Potentials analysis
- Performance-oriented configuration of the processes
- Assessment of profitability
- Benchmarking with different programs
- Reduction of through-put time from engineering to procurement
- Decision memo for the management board

Measurable Customer Benefit:

- Clearly defined process performance indicators
- Reduced through-put time from 56 to 5 work days
- High process transparency
- Significant reduction of engineering costs





Project and IT Management

Carve-out, testing, and commissioning of a subsystem to a productive ERP system

Task:

- ERP Separation for Varel and Nordenham, as a subproject of Zephyr Germany/plant outsourcing project
- Support for deployment scope and test management for a SAP separation
- Deployment planning & coordination of resources
- Issue monitoring & reporting
- ICT cross-project communication and documentation

Measurable Customer Benefit:

- Structured procedures at deployment and test management
- Team co-ordination for the test-waves, deployment and plateau phases
- Transparency & cross-project management



Process Management

Optimized Customization

Task:

- Define the desired process of integrated end-to-end technology processes for the fulfillment of customer requirements
- IT development plan for the to-be processes
- Defined Key Performance Indicators (KPI)

Measurable Customer Benefit:

- Process continuity for development and manufacturing
- Reduce process costs by up to 30%
- Define demands in a new IT landscape to execute processes



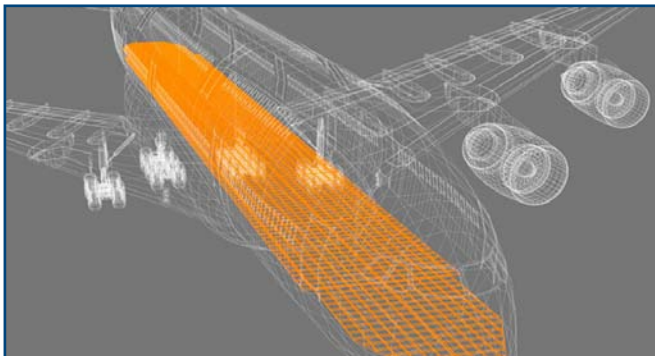
Production Management Lean Production

Task:

- Increase the output quantity without investing in machinery
- Implement Key Performance Indicators
- Line Balancing
- Optimize production scheduling
- Process Optimization
- Technical Support for Lean Production Initiative

Measurable Customer Benefit:

- Increase output about 18%
- Decrease charge out rate in manufacturing approximately 15%
- Stabilize the production rate
- Decrease production cost
- Implemented Lean Management Method
- Optimizing shift plan



Production Management Material Flow Simulation

Task:

- Gain reliable planning results of the new production concept
- Obtain a course of action to realize an optimized production plan
- Reduce throughput-time
- Evaluate HR requirements
- Identify the required staff volume and skills
- Identify bottlenecks and required buffer sizes
- Set reliable time standards for production and logistics operations and control

Measurable Customer Benefit:

- Define necessary actions to significantly reduce throughput-time
- Reliable procurement plan for machine sourcing in a capacity-expansion (Invest > 1,2 million € per machine)





Maintenance Repair and Overhaul Layout Optimization and Lean Management

Task:

- Bottleneck analyses of the current production side through simulation
- Evaluate the potential for optimization based on business cases
- Design future layout concept, taking into consideration the different growth strategies and market developments
- Implement Lean Principles

Measurable Customer Benefit:

- Steps taken to reduce throughput-time, e.g.:
 - Eliminate constrains
 - Staff qualification and shift models
 - Implement one-piece flow
 - Improve material flow control
- Reliable future layout for different production programs and product types
- Reduced floor space
- Reduce turnaround times



After Sales Management Spare Parts Supply on Time

Task:

- Methodical consultancy for the OEM's Customer Service Consulting organization
- Perform analysis of the interfaces between different entities of the airliner's Aircraft Maintenance and organize operations
- Define critical interfaces, define responsibilities and procedures
- Recommend the applicable KPIs

Measurable Customer Benefit:

- OEM: Project execution within the predefined costs volume and time schedule with an ideal methodical approach and a documentation of the result
- Airliner: Implemented KPIs to reduce costs in the Maintenance process and the spare parts supply chain



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About UNITY

UNITY is a management consultancy that provides future-oriented corporate management. We increase our customers' operational excellence and enable their sustainable success by applying innovative processes and business models.

We boost productivity and revenue and act as a catalyst for growth and investment security. For more than 15 years, we have supported our customers by optimizing their value chain. We are the right partner for both medium-sized enterprises and leading international companies that want to create a lasting comparative advantage in their markets. Our customers profit from years of extensive industry expertise, our close conjunction of Research and Science through a deep collaboration with the Heinz Nixdor Institute and our highly-skilled and dedicated team of 150 consultants.

Our Clients

Among the satisfied customers are small and medium-sized enterprises as well as the worlds leading international companies.

Over 200 global companies have trusted our advice around the world. Some of our clients are:

- Airbus
- Audi
- Bayer
- BMW
- Continental Automotive
- Daimler
- Deutsche Bahn
- Deutsche Post
- Gildemeister
- Henkel
- Elblandkliniken
- Lufthansa Technik
- Mercedes-AMG
- Miele
- MTU Aero Engines
- Olympus
- Siemens
- Skoda
- Volkswagen
- Wincor Nixdorf



For further information visit us at www.unity.de or use the QR code:



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