



# Sustainment Strategy for Commercial Narrow Body Fleet Operator

A Comprehensive Client-Facing Consulting Report covering sustainment enterprise architecture, contract frameworks, cost structures, and operational best practices for narrow body commercial airline fleets.

CONSULTING REPORT

AIRLINE OPERATIONS & MAINTENANCE

# Executive Summary

Narrow body commercial airline operators—whether major network carriers, regional airlines, or charter operators—design their sustainment enterprises to achieve three core objectives: **maximize aircraft availability**, ensure **regulatory compliance**, and **control lifecycle costs** in a highly competitive environment.

## Maximize Availability

Achieve 98–99% dispatch reliability by utilizing predictive analytics and optimized supply chain strategies.

## Regulatory Compliance

Ensure continuous airworthiness through rigorous configuration management and strict adherence to global aviation safety standards.

## Lifecycle Cost Control

Optimize maintenance costs by leveraging digital transformation and strategic outsourcing to achieve predictable cost per flight hour.

# Section Outcomes Overview

Analysis are structured around four key outcome areas, each addressing a critical dimension of the Commercial Narrow Body Aircraft sustainment.

## Analysis 1

### Typical Narrow-Body Commercial Airline Operators Sustainment Strategy

A comprehensive review of how commercial narrow-body operators structure their sustainment enterprise, covering maintenance programs, contract frameworks, organizational models, engineering & airworthiness.

## Analysis 3

### Commercial Aircraft Material Management Best Practices

A deep dive into rotatable pool management, AOG logistics, provisioning strategies, and vendor performance frameworks that optimize parts availability and cost efficiency.

## Analysis 2

### Narrow-Body Commercial Airline Operator Sustainment Best Practices & Emerging Innovations

An examination of industry-leading practices and emerging technologies shaping the future of narrow-body sustainment, including predictive maintenance, digital twins, and MRO innovation.

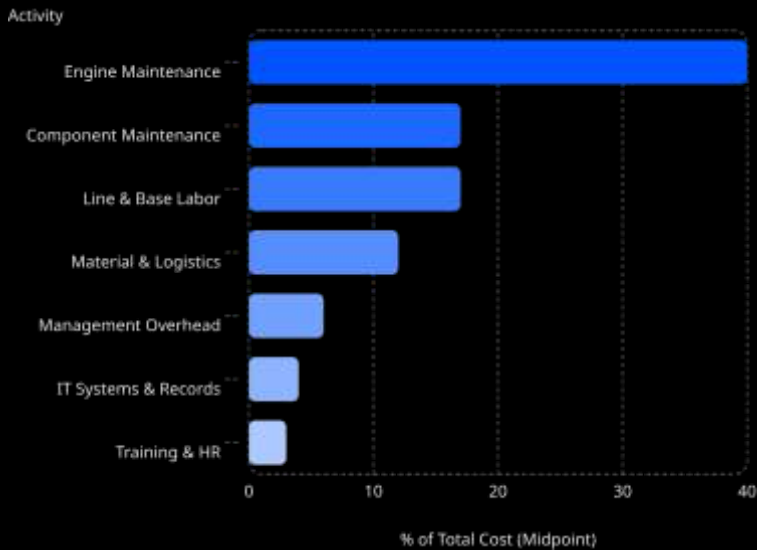
## Analysis 4

### Commercial Aircraft Sustainment Enterprise Cost Analysis, Data Sets & Turn-Around Times

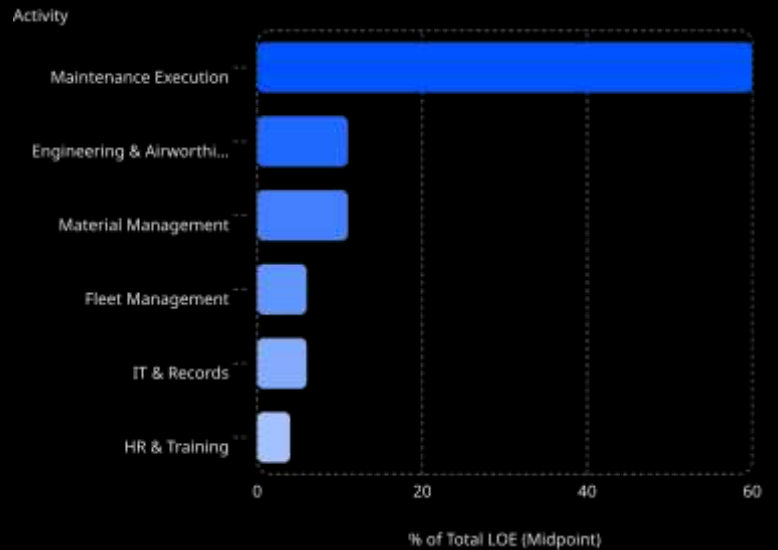
Quantitative analysis of sustainment cost drivers, level-of-effort benchmarks, and turn-around time data sets to support business case development and investment decisions.

# Cost & Level of Effort Breakdown

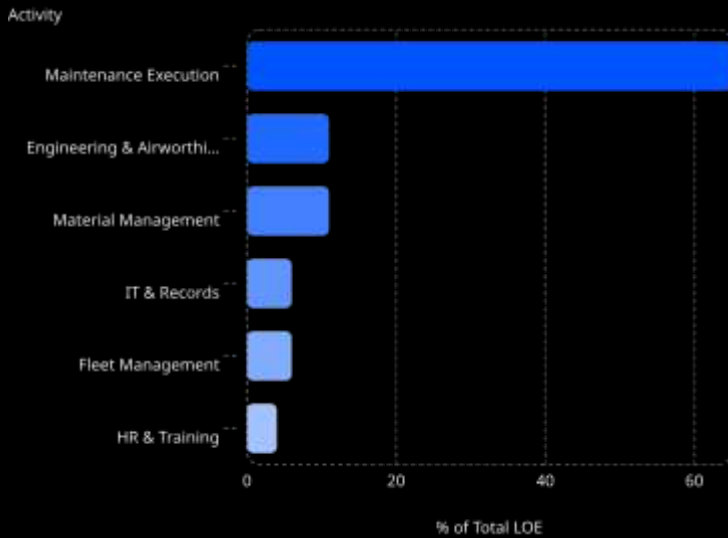
6.1 Sustainment Cost Breakdown — Typical Percentages



6.2 Level of Effort Breakdown — Typical Percentages



# Level of Effort Breakdown



## LOE by Function

Activity	% of Total LOE
Maintenance Execution	60-70%
Material Management	10-12%
Engineering & Airworthiness	10-12%
IT & Records	5-7%
HR & Training	3-5%

## Implementation Timeline

### Contracting

RFP, evaluation,  
negotiation, execution



### Stabilization

Steady state, SLA  
review, cost  
benchmarking



### Transition

Data migration, pool  
transfer, staff training

#### Phase 1: Contracting (3–6 Months)

- Issue and evaluate detailed MRO RFPs
- Negotiate and execute final contract

#### Phase 2: Transition & Onboarding (6–12 Months)

- Migrate data and integrate systems
- Establish rotatable inventory pools

#### Phase 3: Stabilization (12–18 Months)

- Achieve full steady state operations
- Perform formal SLA and cost benchmarking



# Let's Talk Sustainment Strategy for MRO

If this resonated with you — let's connect. Whether you're planning, exploring, need to review your strategy or already on your transformation journey.