

Our suite of AI-powered solutions developed in partnership between KLM Royal Dutch Airlines and BCG



DAY OF OPS

Runway

Runway restrictions

Pathfinder

Tail assignment

Sentry

Disruption management



CREW

CrewVision

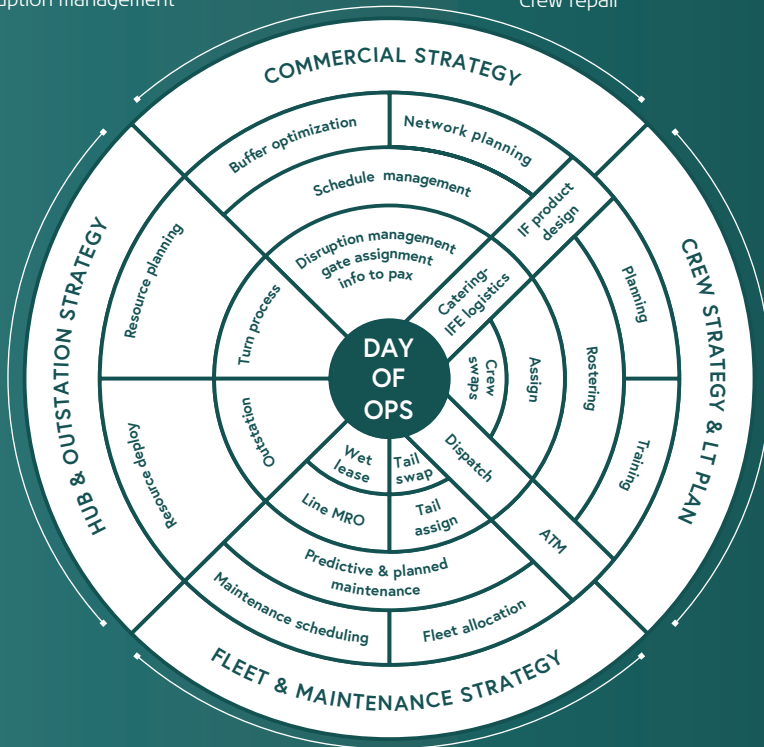
Resource planning

Mentor

Crew training

Harbinger

Crew repair



FLEET AND MAINTENANCE

Phaser

Phase-out and shop visit optimization



GROUND

BagPro

Baggage flow

Terra

Ground resource allocation



NETWORK

Horizon*

Strategic network plan

Orbit*

Scheduling and fleetting

ALIGN

Resource planning

*Horizon and Orbit are BCG tools



See more at: <https://airlineoperations.ai>

Phaser

Phase-out and shop visit optimization

Create a combined shop visit and phase-out plan for engines, with the lowest total cost of ownership across the entire phase-out horizon

Engine selection
for phase-outs to
lower lease penalties

Shop visit planning
to build for end-of-life
lowering overhaul cost

Lease-in usage
to lower cost and
ensure feasibility



Turning airline operations into a competitive advantage

The phase-out challenge

In the next decade, airlines will undergo the largest fleet retirement in history, requiring a new approach to end-of-life management

Planners face a complex choice of selecting engines to phase out...

- Considering complex lease return conditions & penalties
- Capturing uncertain market conditions to sell greentime

...while deciding which shop visits to perform or when to lease-in...

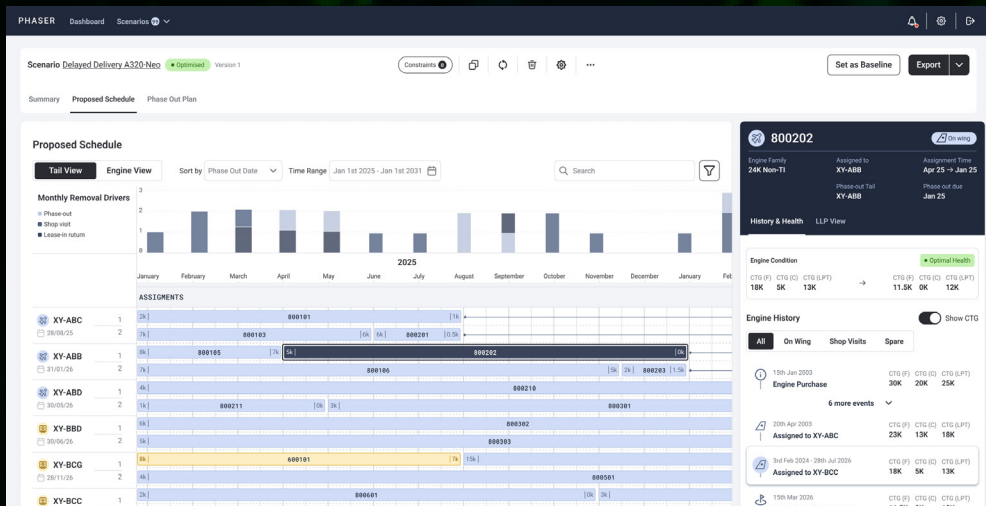
- Planning shop visits and deciding on work scopes
- Leveraging short-term lease-ins to prevent maintenance

...while ensuring the plan is robust & meets operational constraints

- Adhering to all engine limits and shop capacity constraints
- Ensuring sufficient spares to cover for unplanned removals

Phaser helps airlines find the cost optimal plan and adapt quickly to a frequently changing context

Our solution enables users to make the right trade-offs and can be tailored to specific needs



01
Single source-of-truth combining data across departments

02
Automatically ingest engine data combined with easy file uploads

03
Users can frequently run a wide range of scenarios

04
Compare scenarios across KPIs and dive into planning details

05
Customizable exports to quickly share results

06
Detailed financial insights into the cost of ownership

Value potential

