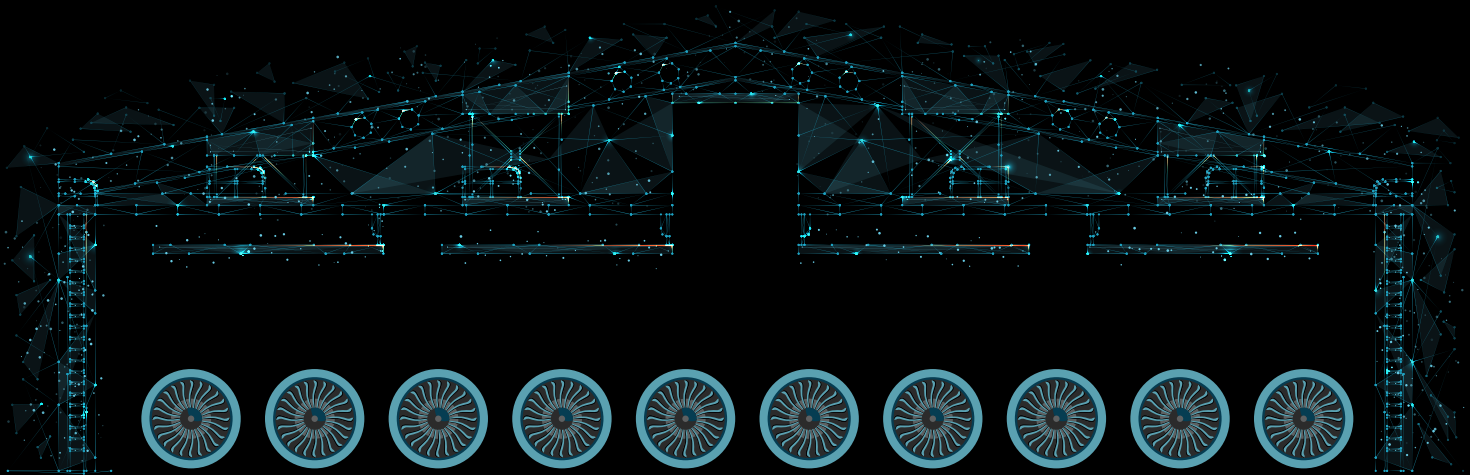


Engine
FinTwin®
MRO
Edition

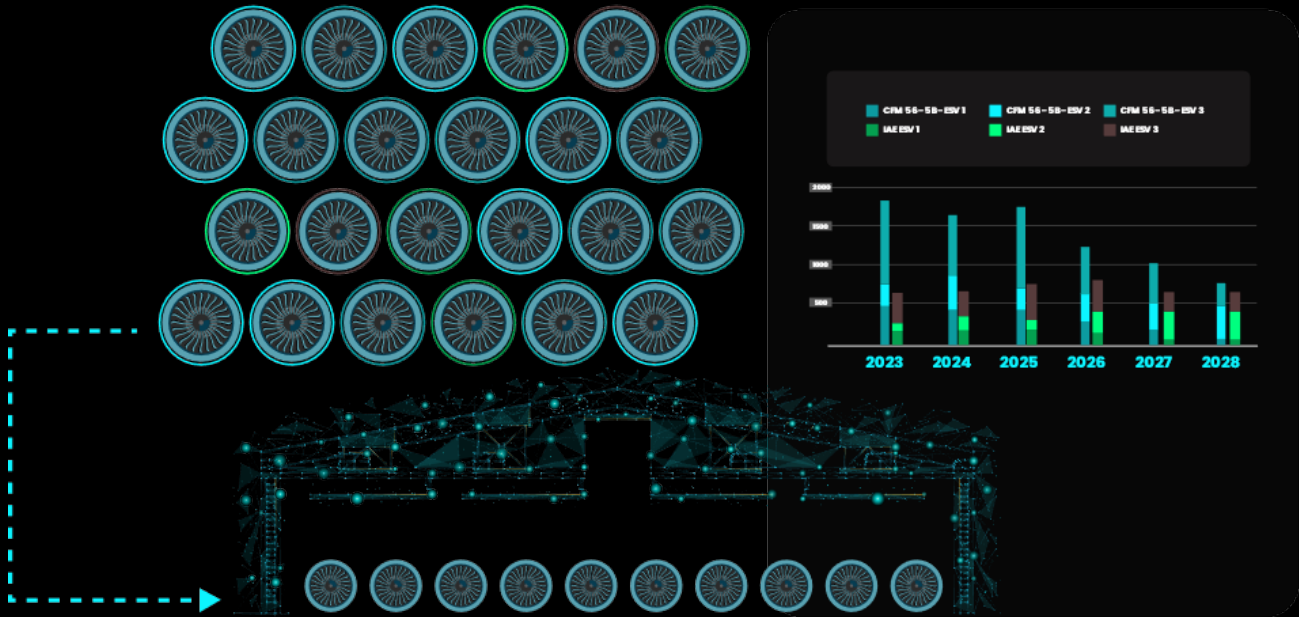
keepflying®
reimagine revenue hours

Enable AI for Gate-Smart Commercial Decisions from Slot Prospecting to Delivery

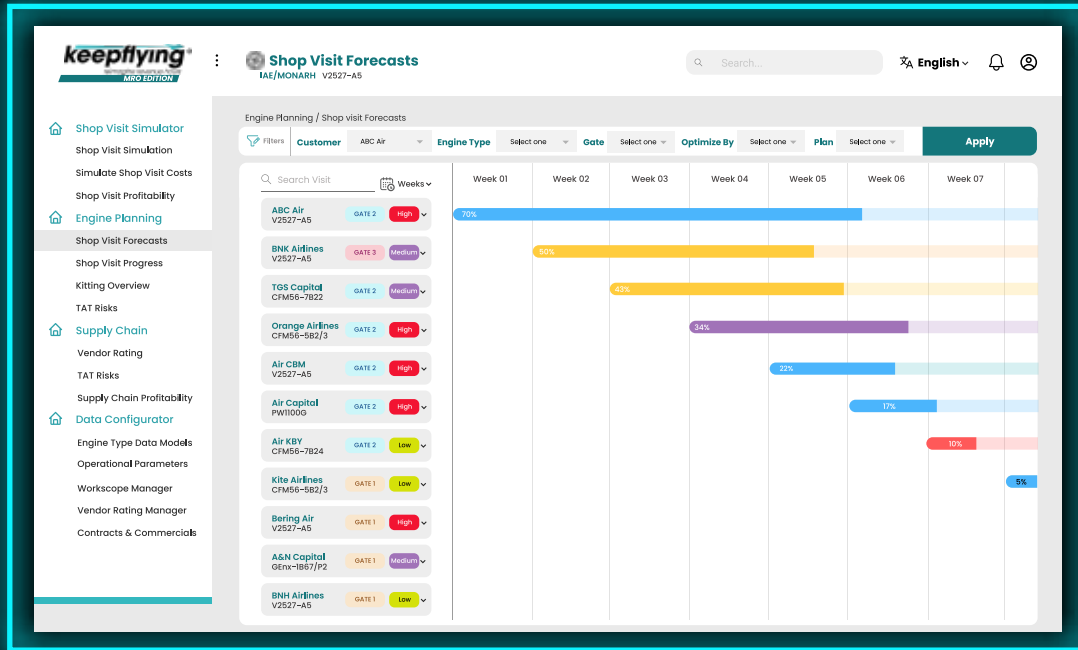
Engine FinTwin® MRO Edition



Slot Prospecting to Induction



35% Profitability in an era of Fixed Price Contracts



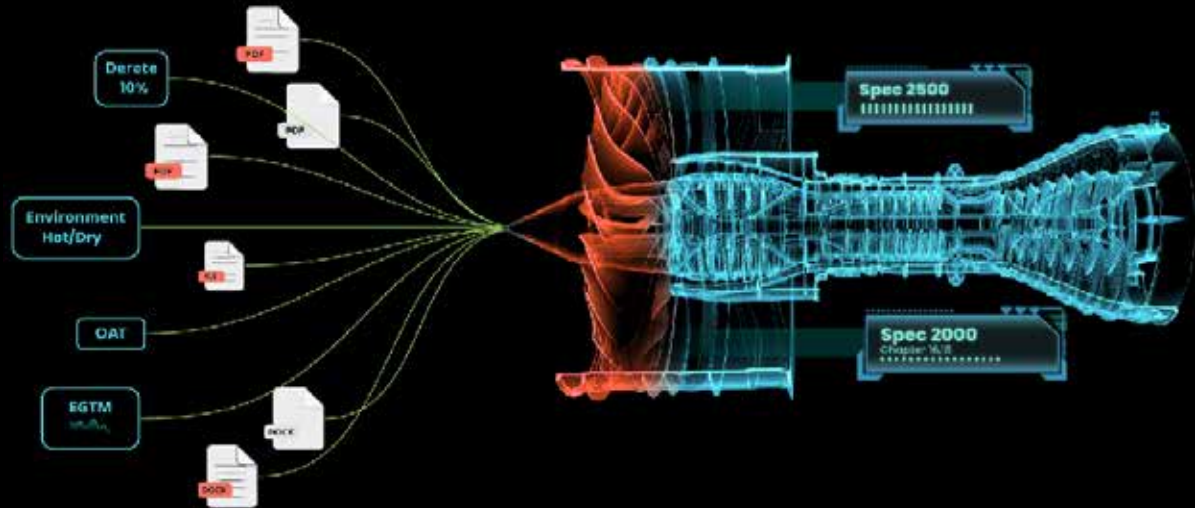
PROBLEM

Budgeting an MRO's capacity – manpower, supply chain, tooling – is a factor of market size and work scope demand relating to the MRO's Engine capabilities and expansion strategies. Quantifying this requires a thorough understanding of the Engine profiles, Operational Environments, previous SV histories and how that translates to man hour & material demand.

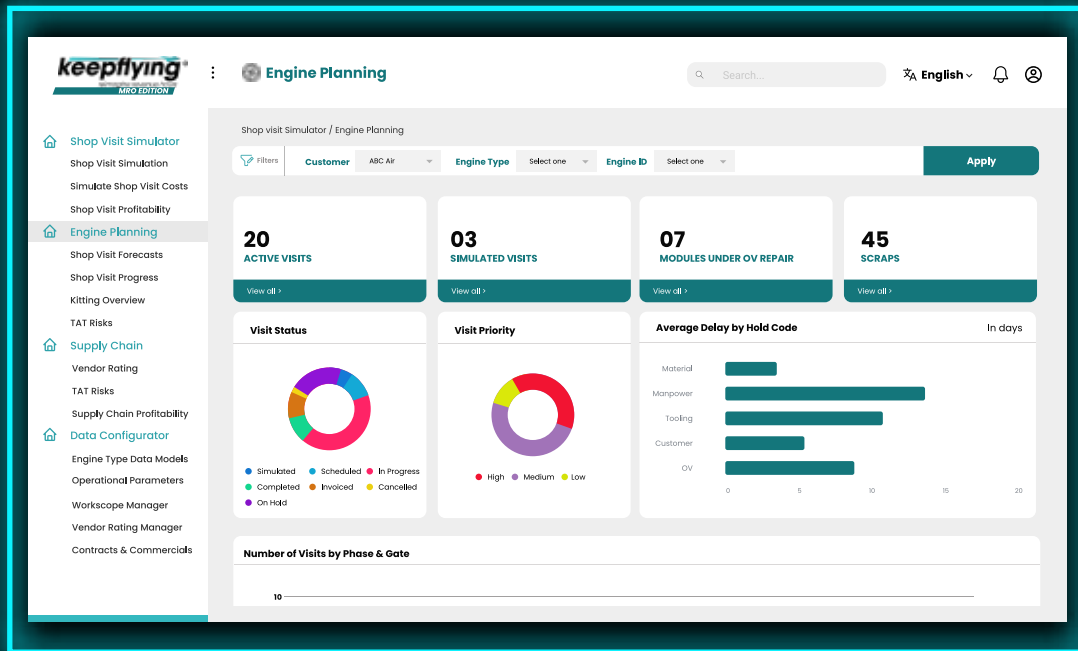
SOLUTION

Simulate the lifecycle of an Engine Shop Visit from Slot Sale to predict work scope levels, man hour demand, scrap rates across modules, material demand and projected costs. Play around with contractual NTEP limits including scrap limits to visualize profitability by slot based on Engine & Operator profiles and SV histories wherever available.

GATE 0



**40% Reduction in costs
by advanced Scrap
Rates Prediction**



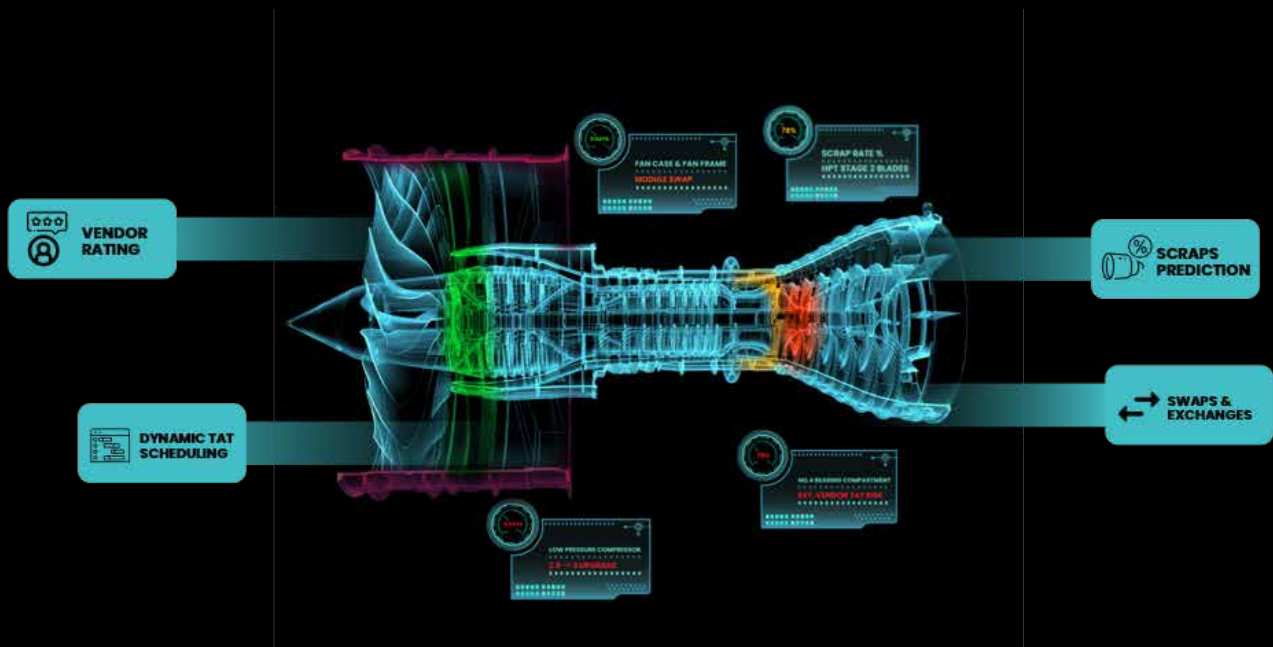
PROBLEM

Processing the incoming Engine Shop Visit data – from operational details to previous SV histories (if made available) to task cards to redelivery conditions can be an arduous process consuming several days / weeks worth of effort. Gate 0 turn around time is critical to ensure smooth induction of Engine and process clarity from Gates 1 to 4.

SOLUTION

Reduce up to 70% time in ingesting and processing PDFs, Excels, records off MIS by adopting ATA standards clubbed with Engine model specific data pipelines to create simulations from Gate 1 to Gate 4 across modules and accessories. ATA Spec2500 and ATA Spec2000 Chapter 18 drive this automated processing within the SpXchange™ platform.

GATE 1-4



30% Optimal Capacity Management in an era of Workscope Fluctuation Management

keepflying **Kitting Overview**
ABC Air V2527-A5

Engine Planning / Kitting Overview / ABC Air / Module Repair

DETAILS **CAPACITY CONFLICTS**

ABC Air V2527-A5

Engine Serial Number: TSS140520
ATA: 72-30
Maintenance Level: L2.3 - CHECK & REPAIR
TAT: 03
Module Start Date: Planned 18-10-2021, Actual 19-10-2021
Module End Date: Planned 22-10-2021, Projected 31-10-2021
In/Out: In
Location: ENG-SHOP
Ref WO: TSSM1
Held Status: On
Delay Code: Material
TAT Exceedance: HIGH RISK

Materials **ManPower** **Tooling**

Part number	ETD	ORDER REF.	PRED.
AS20624	26-10-2021	PO-74562	77.8%
FKT1408	22-10-2021	PO-21645	18.5%
FW79972	23-10-2021	PO-77713	6.3%
UP11446	24-10-2021	PO-79632	36.3%
UP11538	26-10-2021	PO-34125	7.2%
AS43013-108	25-10-2021	PO-66424	0.3%
AS43013-279	27-10-2021	PO-78481	40%
AS20625	28-10-2021	PO-11298	12.7%
AS20626	29-10-2021	PO-24653	8.6%

PROBLEM

Predicting Scrap Rates and Work Scope upgrades as a result of findings usually occurs after splitting, stripping, cleaning and inspection of the modules and components. In an age of crunched TATs and Supply Chain challenges, it is already a week or 10 days into an Engine Shop Visit by which the effects of this can be understood and planned for.

SOLUTION

The KeepFlying® FinTwin® dynamically sketches optimal paths in sync with WIP data coming off the Engine Shop to create risk profiles that impact TAT - material unavailability, resource allocation and the impact of swaps and exchanges in TAT. Dynamic simulation of costs and profitability as a factor of decisions to be made (priority swaps, kit management, USM etc.,) help take faster decisions, visualize commercial implications to ensure commercial viability of Engine Orders in shop.

TAT Risks

Lessee Credit Risk Modeling ATA Spec2400



Shop Visit Forecasting

Discrete Optimization

ATA Spec2500 Asset Valuation

IP-44 Capacity Balancing

Cashflow Modeling

Residual Value

Remaining Useful Life

Shop Visit Forecasting

Cost Forecasting

Lease Redeliveries

Cape Town Convention

Redelivery Risks What-if Simulations

Build Goal Analyzer

Visit Profitability

ATA Spec2500 Cape Town Convention

Work Scope Optimizer Residual Value



Contact us to know how you can start clocking on **Commercial Insights** within the next 8-12 weeks

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