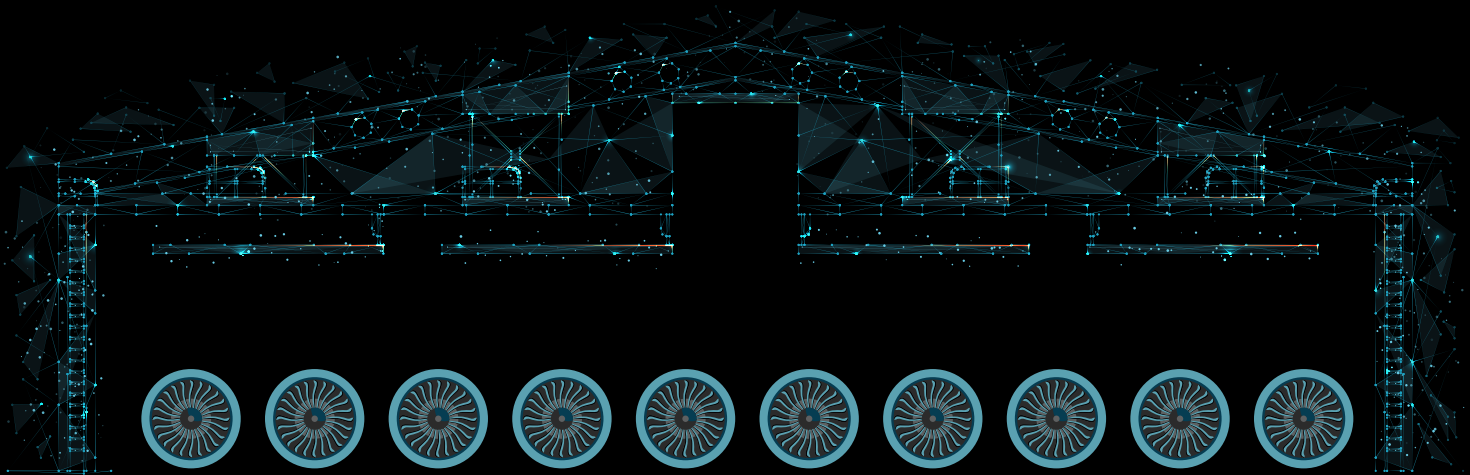


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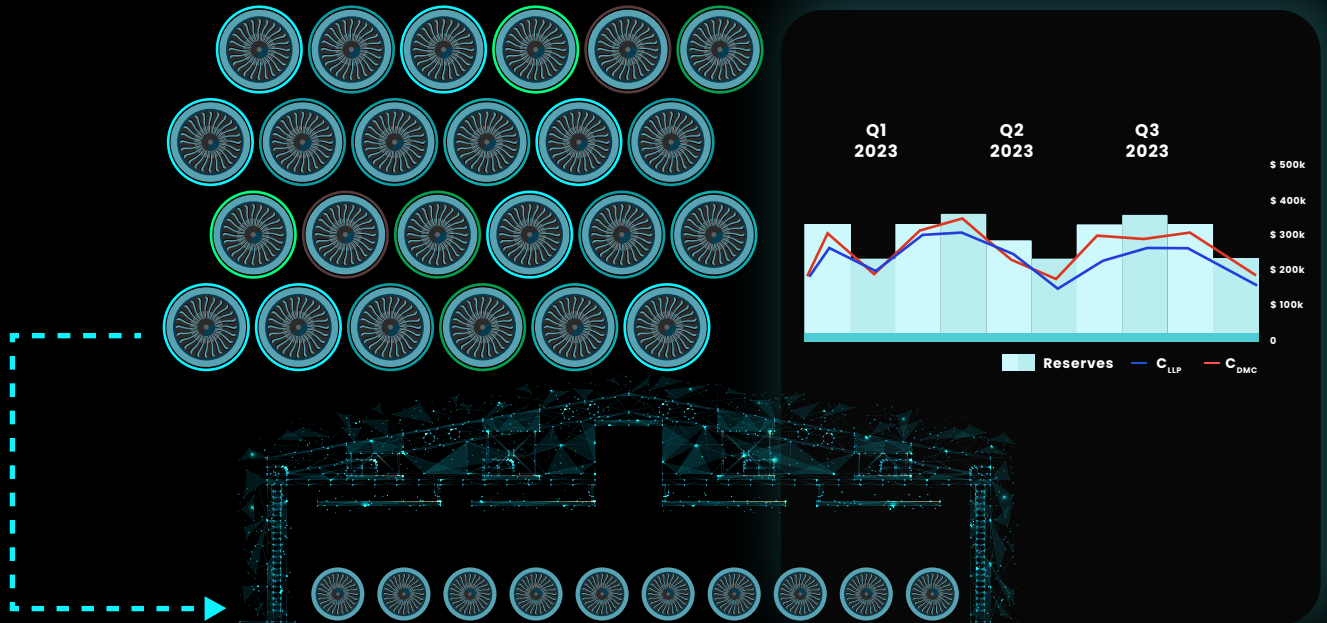
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AI Driven Asset Trades & Maintenance Value Economics

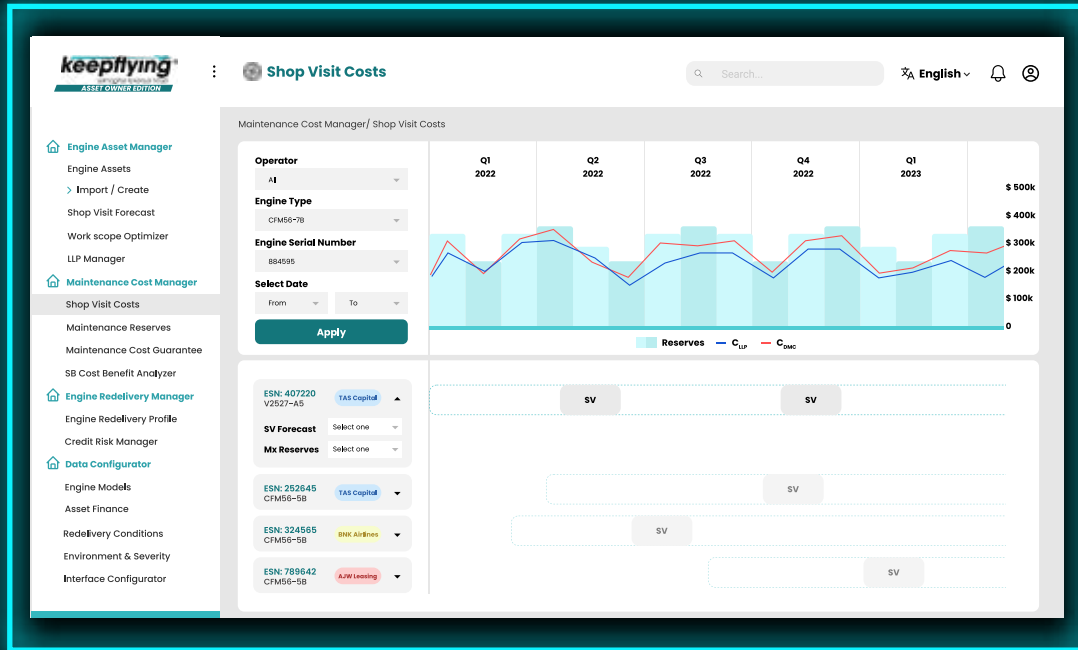
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Optimizing Build Goals for Shop Visit Value Economics



20% cost reductions in SV costs through smarter **build goal** management



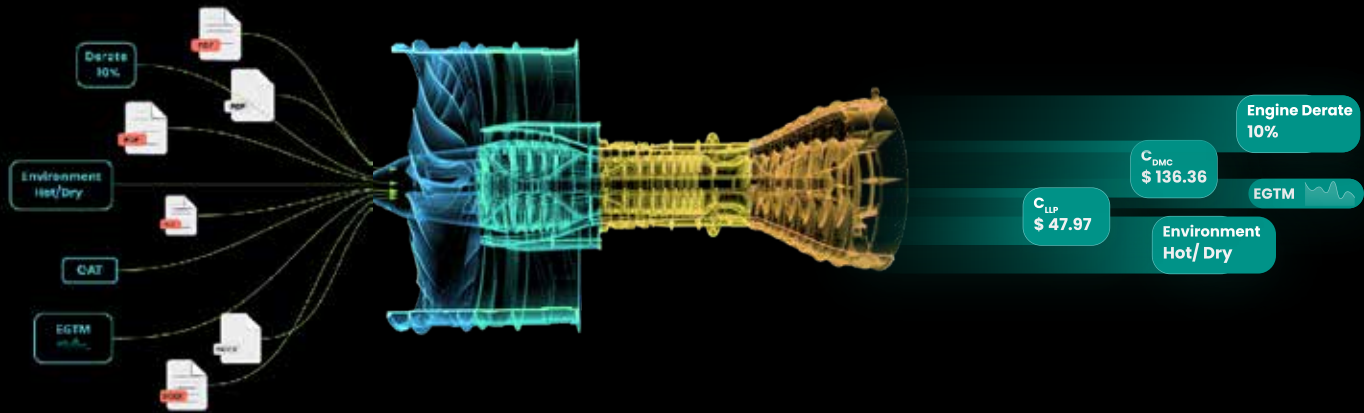
PROBLEM

Shop Visit Build Goals are a factor of tied leases, lease durations, potential trade decisions (Lease, Sell, Part-Out, Scrap) based on the Engine condition and Remaining Useful Life.

SOLUTION

Ultimately, cashflows as a factor of rentals and reserves drive how effectively an Engine / fleet of Engines are managed based on their RUL. Simulate the impact of scenarios to assess costs, reserves and timing of Shop Visit instances along with work scope levels and predicted scrap rates as a factor of operating conditions.

Simulating Commercial Impact of Asset Trades



15% reduction in costs through smarter asset placements

keepflying ASSET OPTIMIZATION

Engine Assets

Engine Assets/ESN: 884595/fan module

Search Asset

Engine Type: CFM56-5B6/3 | Engine Serial No.: 884595 | Operator: ABC Air | C_{DMC}: \$147.55 | View more

Engine Modules

Module	Last Event	Next Event	Full-Life \$	Half-Life \$	Int. Rem.	% Rem.	% Half-Life	% Half-Life Adj
Fan/LPC	Min	PR	850,000	425,000	13,941 FC	16%	-3.5%	(28,750)
HPC	PR	OH	975,000	487,500	3,941 FC	18.7%	-30.3%	(295,425)
HPT	PR	OH	1,010,000	505,000	3,941 FC	18.7%	-30.3%	(306,030)
LPT	Min	PR	1,070,000	535,000	13,884 FC	35.9%	5.5%	58,850

MODULE SUMMARY

Next Event	PR	Last Event	Min
TSN	22482.20	TSV	9850
CSN	16059	CSV	7036
Remaining Cycles	13941		

Cycles Used

Cycles Used			Life Limit			Cycles Remaining		
Rating 1	Rating 2	Rating 3	Rating 1	Rating 2	Rating 3	Rating 1	Rating 2	Rating 3
16059	-	-	30000	30000	20000	13941	-	-

TRACKED PARTS

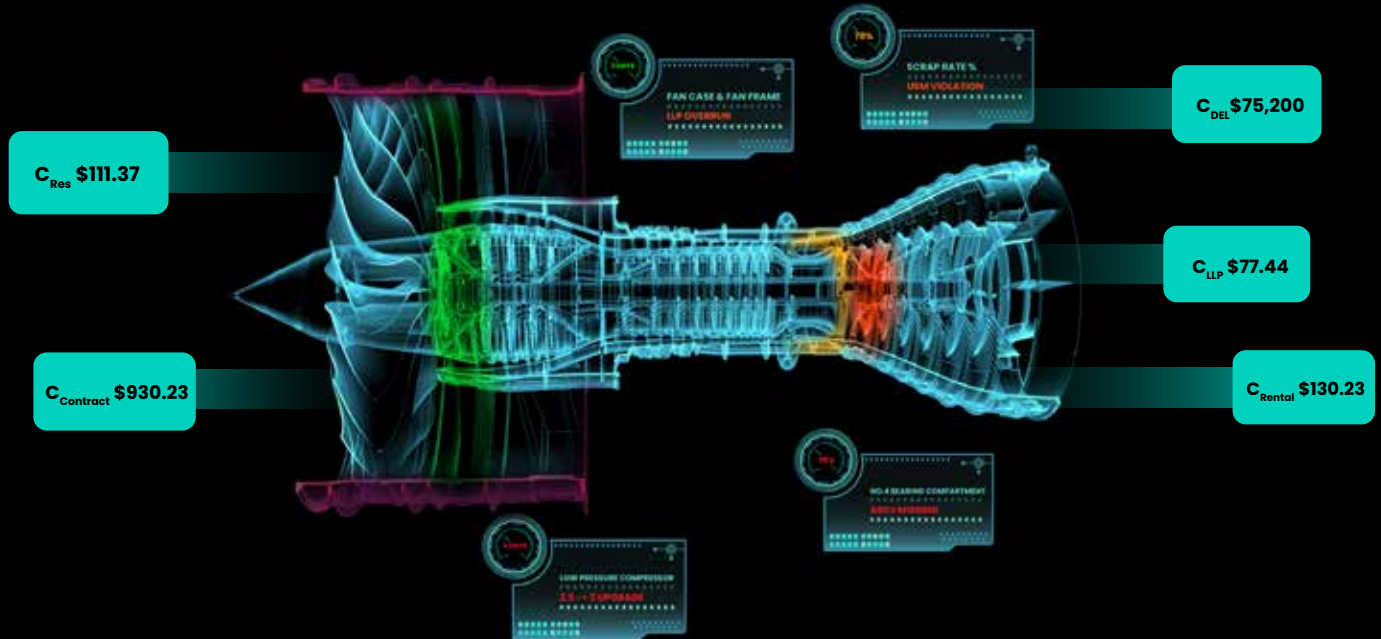
PROBLEM

A fleet of Engines under management have an array of possible revenue potentials depending on how and where the Engine is placed (Lessee profile) and the operating parameters (Environment and Utilization driven by routes, Thrust Rating among others).

SOLUTION

Simulate the impact of trade placements by forecasting Shop Visits in a given duration using scenarios specific to trade decisions. Visualize the Shop Visit instances, work scope levels and running DMC costs per FH, LLP costs per FC to assess commercial feasibilities.

Smarter Redelivery Management & Transition



25% costs reduction in returning an Engine off lease

The screenshot shows the 'Engine Redelivery Profile' for ESN:834511. The interface includes a sidebar with navigation options such as 'Engine Asset Manager', 'Maintenance Cost Manager', and 'Engine Redelivery Manager'. The main content area displays the following information:

- Engine Details:** Engine Type: V2500-A5, Engine Serial No.: 634511, Operator: Bnk Capital, C_{Res}: \$111.37.
- Asset List:** A list of engine assets with their ESNs, CFM56-56 models, and status indicators (Storage, In Service, Shop Visit).
- Scenario and Forecast:** Scenario 1, Forecast, and options to 'Apply' or 'Reset'.
- REDELIVERY CONDITION ALERTS:** C_{Res} \$111.37, C_{Contract} \$930.23, C_{Lp} \$77.44, C_{Out} UNK, C_{Handled} \$130.23, and EGT_{M_{Red}} 31.3.
- LLP OVER-RUNS:** A bar chart showing utilization for components like STUB SHAFT, STG 2 HPT AIRSEAL, STG 4 LPT DISK, and LPT SHAFT.
- ARC STATUSES:** A section at the bottom for engine arc statuses.

PROBLEM

Redelivery risks often turn up 3-6 months before an Aircraft or Engine is due for redelivery. This gives little time to mitigate escalating costs as a result of potential redelivery violations.

SOLUTION

Forecast redelivery risks in advance based on projected utilization (Environment, Technical and Operational parameters) to visualize LLP over-runs, non compliance of AD / SB, status of parts within redelivery binders to ensure redelivery contract conditions are met. Simulate risks and assess mitigation methods months in advance to ensure a hassle-free redelivery.

TAT Risks

Lessee Credit Risk Modeling ATA Spec2400

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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



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