

TFD Europe

SME Showcase Briefing

TFD is the Trusted Name in Logistics Support Decision Making and Logistic Support Training, Providing Solutions to Support Analysis Challenges

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TFD Europe

SME Showcase Briefing

Why briefing at the SME Showcase at this time?

We have merged with our 'sister' Company Aspire Consulting Ltd.



- Consolidating skill base, know-how, premises and admin arrangements.
- Complementary activities allow a more holistic offer to the market.
- Activities are mutually supporting.
- Can offer a seamless service to customers as tasks and projects evolve.
- It's a good time to engage with the TDI Community and update everyone on our revised Organisation.

Our Aim: Optimizing Defence Resources, across the Enterprise, for Operational Availability



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ILIAS

Patria

LOCKHEED MARTIN



DIEHL
Defence

NORTHROP GRUMMAN



Ministry of Defence

GENERAL DYNAMICS

Elbit Systems

BAE SYSTEMS

babcock™



Booz | Allen | Hamilton



aselsan



FMV



EVA AIR



defence

Department: Defence
REPUBLIC OF SOUTH AFRICA



Puolustusministeriö
Försvarsministeriet
Ministry of Defence



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TFD Business Model and Approach

Provide Software Products and Training to facilitate In-House Modelling and Enduring Analysis Capability

Consultancy to identify and understand specific problems encountered with Design, Cost or Performance of Equipment and Support

Logistic Support Training Courses

A Combination of These.

Our Customers' Roles

Functional Groups within Customer Organisations

Planners

Providers

Buyers

Designers

Owners

Operators

Maintainers

Our Customers – Functional Group Outcomes

Design

- Design Choices
 - Alternatives
 - Trade Offs
 - Front End Analysis

Support

- Support Options
 - LORA / LOMA
 - PBL
 - CLS
 - Organic Repair
- Planning

Cost

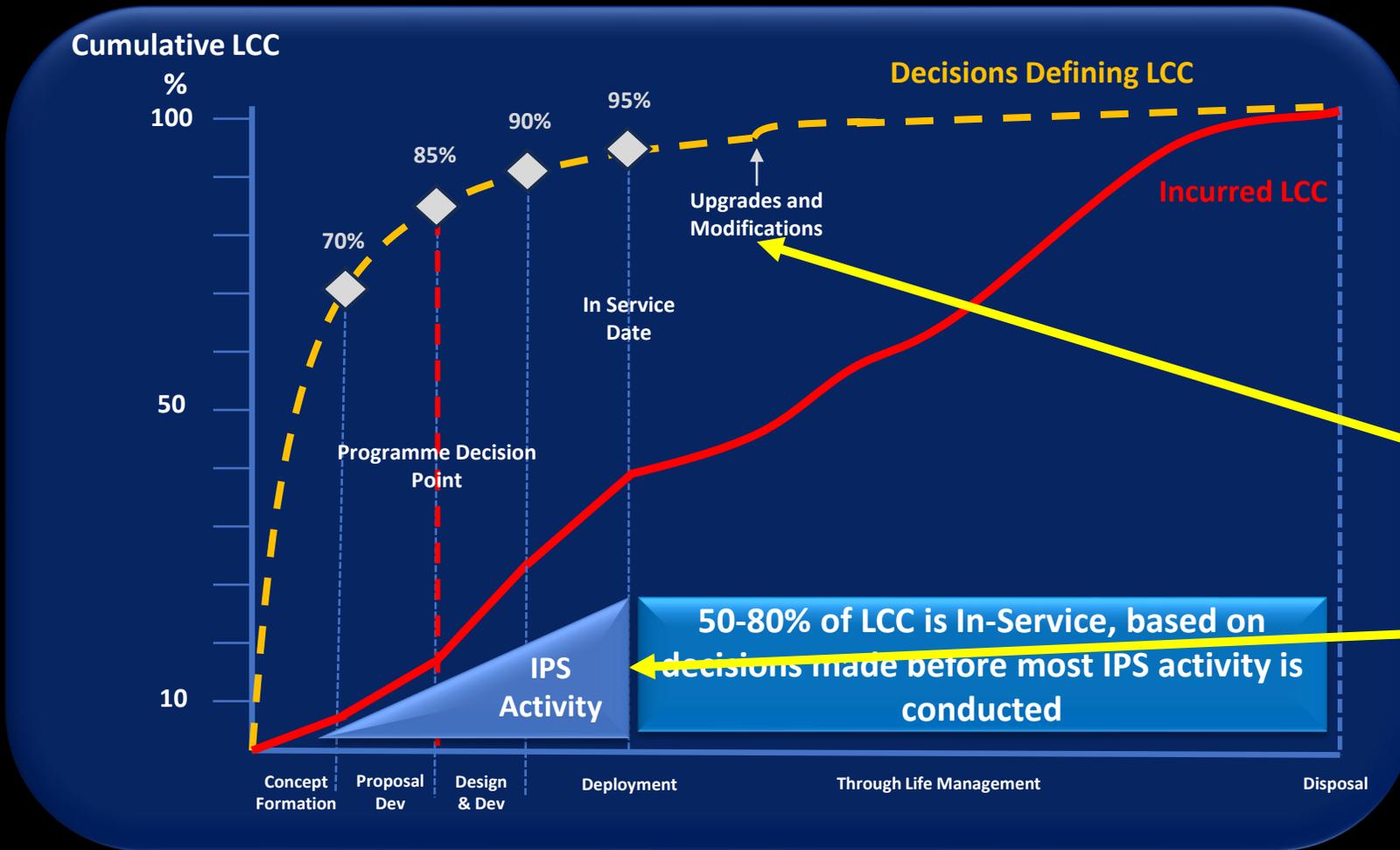
- Procurement
 - IP
 - RP
 - Support Resources
 - Warranty
 - Contracts

Logistic Performance

- Stock Policies
- Shipping Routes / Frequency
- Security of Supply (Risk / Confidence)
- Through-life Policy and Plans

Effective Programme Management

Life Cycle Costs



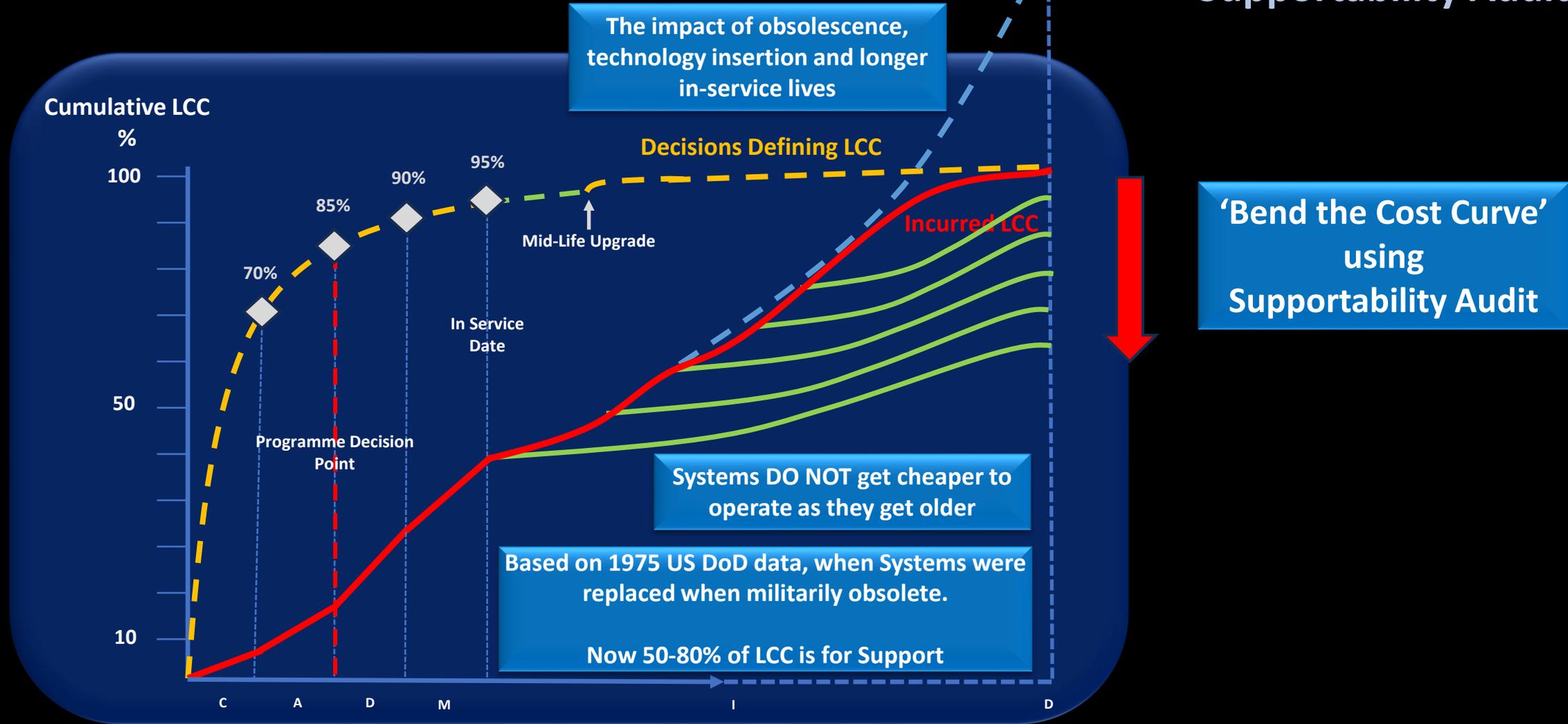
By starting the ILS involvement earlier (Including Support Modelling and Analysis), Support costs and constraints can be identified and mitigated before Contractual commitments are finalised

Modifications may be implemented shortly after the In-Service Date

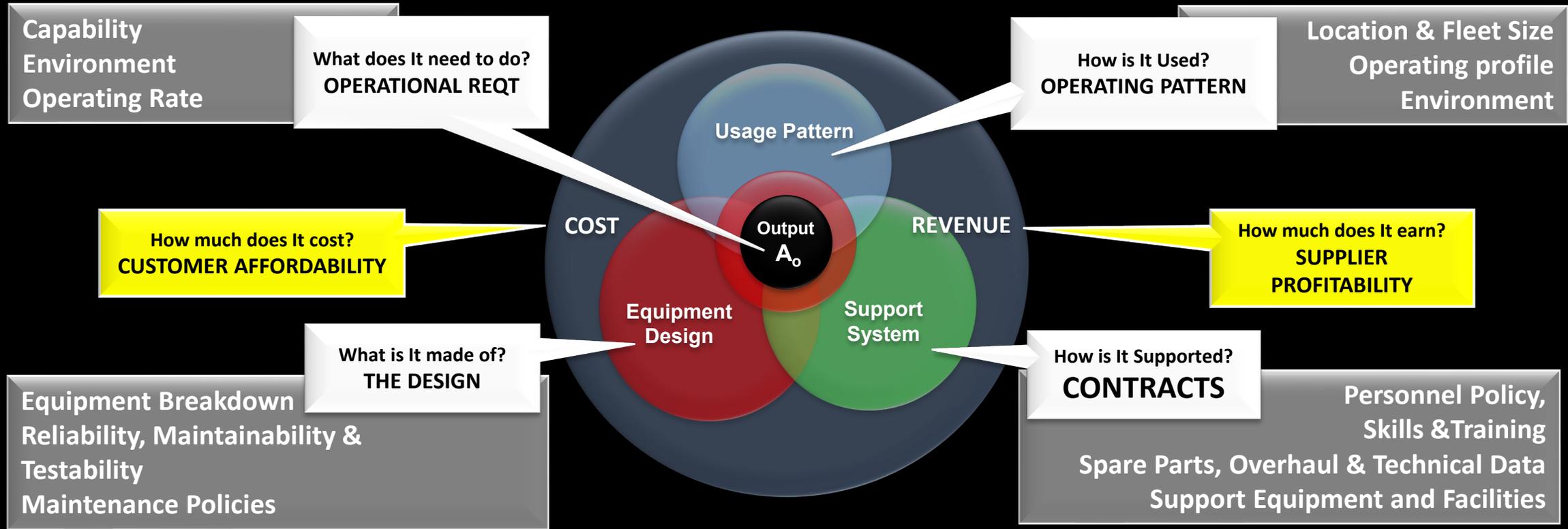
Before ILS Activity commences, most decisions have been made and funds committed

Effective Programme Management

Supportability Audit

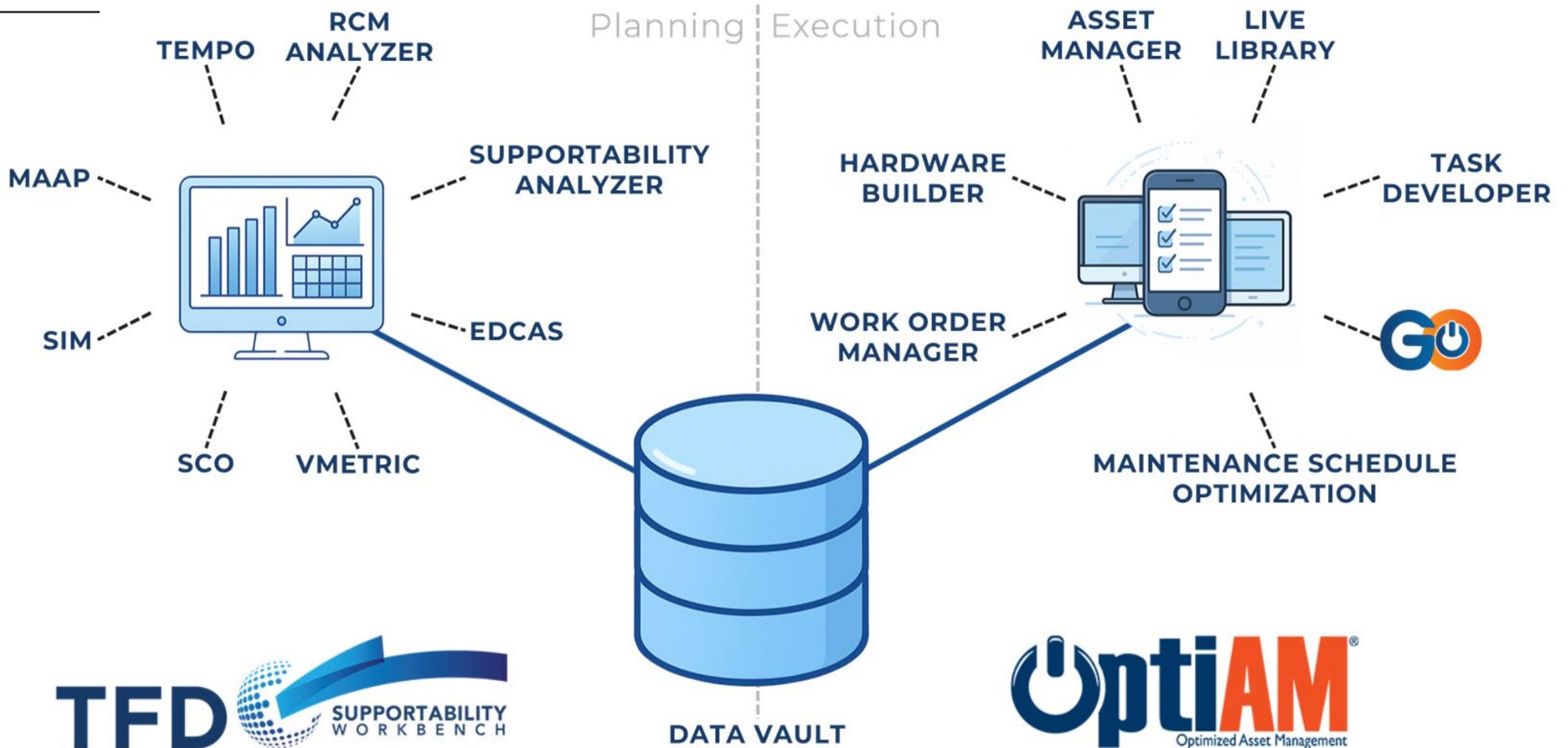


Modelling and Simulating The Total (Support) System



Modelling and Analysing Multi Domain Capabilities
 (Interoperability, Shared Resources, Common Parts, Standardization)

Support analysis software



ILS & Support Analysis Courses

- Integrated support Integrated support:
 - Support concepts for non-support people..... 1 day
 - Integrated support: ILS to IPS transition.....2 days
 - Integrated support: Comprehensive overview of the S-Series specifications..... 5 days
- Support analysis
 - Support analysis..... 5 days
 - Support analysis: Reliability-centred maintenance.....4 days
 - Support analysis: Task analysis.....3 days
 - Support analysis: Training needs analysis and course design (DSAT)..... 5 days

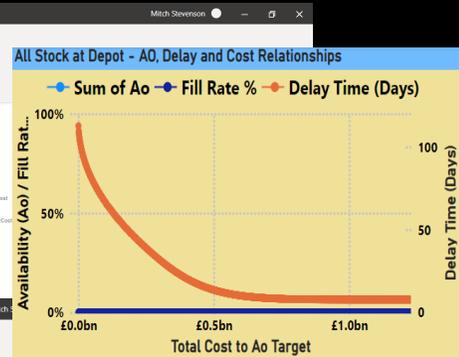
Support analysis includes disciplines such as FMEA, Reliability-centred Maintenance (RCM), Maintenance Task Analysis (MTA), Level of Repair Analysis (LORA).



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TFDG Top 10 LRU Cost Drivers					
Description	Part Name	Maintenance Event	Values	Summary	
Propulsion E	Jet Engine	Air Intake	17,263,494.00		
	Demo Aircraft	Empennage	10,063,963.00		
			8,674,193.00		



Fleet Information			
Aircraft In Fleet	Op Hours Per Week (Per AC)	Total Op Hours Per Week	Total Op Hours per Year
106	10	1060	55120

LRU Information			
LRUs per Aircraft	Total LRUs in Fleet	Total Value of Fitted LRUs per Aircraft	Total Initial Spares Investment Cost
2000	212000	£85,527,280	£1,070,889,287.37

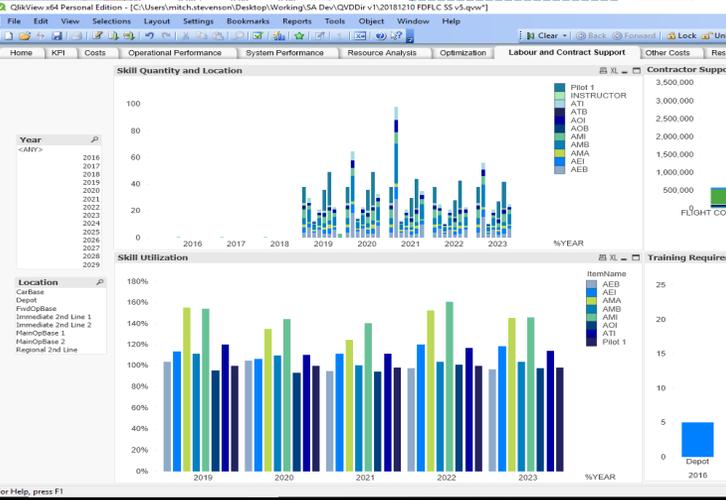
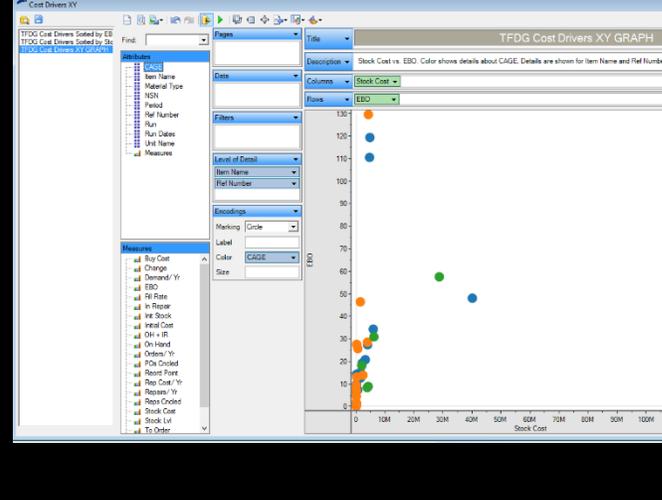
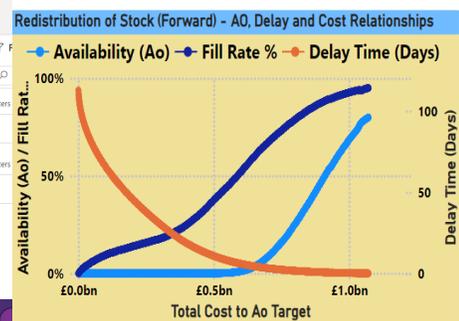
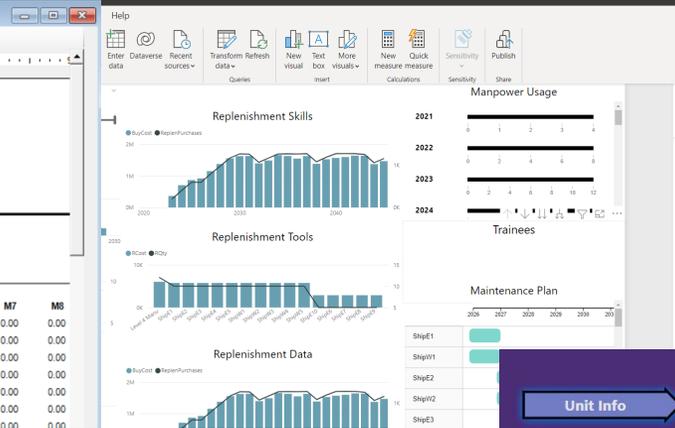
Repair Information	
Annual Repairs	Annual Repair Cost
31719	£411,186,613

Contract Costs (MRO)			
Initial Investment (Customer Retains Value)	Annual Repair Cost	5 Year MRO Cost	MRO Cost per AC (5 Years)
£1,070,889,287.37	£411,186,613	£2,055,933,073	£19,395,595

TFD GROUP TOOLS FOR DECISION

Unit / Contractor Name: Depot A
Part Name: Air Intake
Maintenance Event Name: Repair Air Intake
Reference Number

Year	Scheduled Total	Unscheduled Expected	Scheduled per Year	Unscheduled Expected	M1	M2	M3	M4	M5	M6	M7	M8
2018	0.00	204.02	0.00	204.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	0.00	408.33	0.00	204.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	0.00	618.90	0.00	210.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	0.00	904.58	0.00	285.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	0.00	1,190.42	0.00	285.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	0.00	1,476.42	0.00	286.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



- Unit Info
- Unit FP
- Through Life Costs
- Cost Breakdown £
- Cost Breakdown b...
- Propulsion Data
- Energy Costs
- GWP Data
- Maint Events
- Skills

Total Through Life Costs

LAF Today	£109M
Swift e-Avgas	£95M
Swift AI Air	£80M
Swift L-Ion	£79M
Swift Avgas	£70M
Swift LH2	£54M

Total Kg of CO2e

LAF Today	92M
Swift Avgas	53M
Swift e-Avgas	14M
Swift AI Air	9M
Swift LH2	6M
Swift L-Ion	6M

Total Energy Cost

Swift e-Avgas	£46M
Swift AI Air	£43M
LAF Today	£36M
Swift L-Ion	£21M
Swift Avgas	£16M
Swift LH2	£11M

Total Cost of Maintenance

LAF Today	£42M
Swift L-Ion	£31M
Swift e-Avgas	£20M
Swift Avgas	£20M
Swift LH2	£19M
Swift AI Air	£19M

Total Labour Costs (Annual Labour Rate)

LAF Today	£60M
Swift Avgas	£57M
Swift e-Avgas	£57M
Swift LH2	£53M
Swift AI Air	£48M
Swift L-Ion	£48M



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Questions & Discussion

Workbench Features

- **TFD Data Vault** - The Comprehensive, Robust, Common-source Repository of Logistic Data
- **EDCAS** - The Defacto Standard for Cost and Level of Repair Analysis
- **MAAP** - The Smart Answer to Multi-resource Planning, Optimization and Continuous Improvement
- **VMetric** - The Pre-eminent Inventory Optimization Tool
- **Tempo** - The Next Generation Inventory Optimization Tool

Add Ons - SIM, SCO, SIM Studio, Integrated Logistic Data Template (ILDT) Validator



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Supportability Workbench - Functions

