Post Pandemic Supply Chain Challenges in the MRO Industry

Kıvanç Özgüven International Purchasing Manager

Turkish Technic



AGENDA

Turkish Technic Company Overview

Post Pandemic Supply Chain Challenges

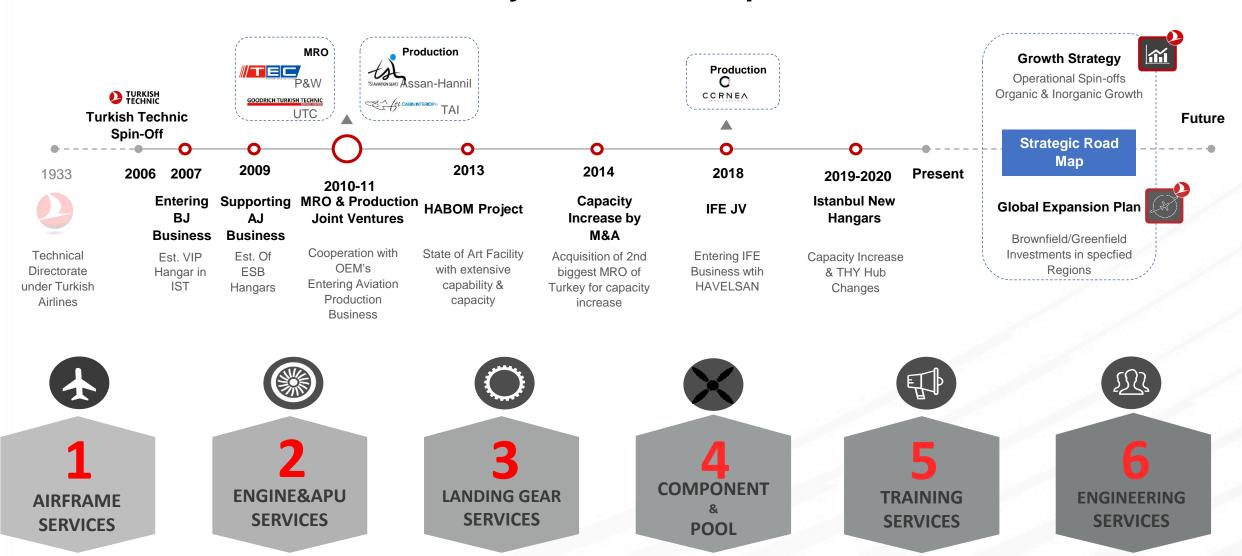
3

How Does IATA Smarthub Support Our Procurement



TURKISH TECHNIC

History & Future Perspective





TURKISH TECHNIC

33 WORKSHOPS 24/7 AOG SUPPORT



1.100+ SPECIALIZED **TECHNICIANS**



16.000+ AIRCRAFT **COMPONENTS**

113.000 COMPONENT MAINTENANCE

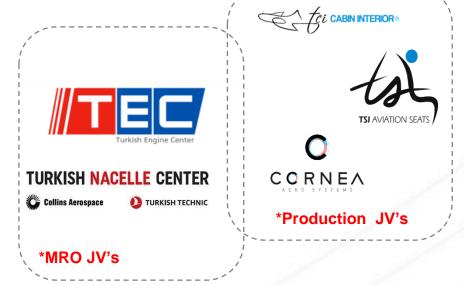


The Most Hangar **Capacity** in One City



CLOSED AREA 647k m²

A320FAM, A330, A340, A350 B737NG, B757, B767, B777, B787 Gulfstream GIV, G450, GV-SP, G500, G550



EXPERIENCE

90 YEARS

WORLD-WIDE CERTIFIED

Certified through 36+ authorities



EMPLOYEES

10.000



1000 +

A/C under pool services incuding THY



TURKISH TECHNIC



CABIN INTERIOR SERVICES

- ➤ Modification
- > Refurbishment
- > IFE Seat Overhaul (5 Star Cabin)
- STC Implemented ServicesManufacturing (TCI)









Panasonic









PAINTING SERVICES

- > Designated Paint Hangar
- ➤ Highly Skilled Technicians
- > Inspection for Defects
- ➤ All Types of Aircraft







ENGINE







CFM

B737NG

CFM56-7B



A320 FAMILY

P&W CANADA

APS3200 SERIES

IAE

A320 FAMILY

V2500-A5 SERIES



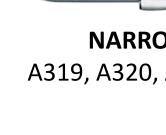
*Our JV – Turkish Engine Center

B737NG

B737 MAX

B737NG

131-9A (Upcoming for A321NEO



NARROW BODY A319, A320, A321, B737NG

TURKISH AIRLINES .



WIDE BODY A330, A340, B777





COMPONENT SHOPS AND SERVICES

➤ 113.000 Component Maintenance

➤ 16.000 Aircraft Components

➤ 33 Workshops

> 1100 Specialized Technicians

> 24/7 AOG SUPPORT

COMMUNICATION & NAVIGATION COMPONENTS	FLIGHT CONTROL SYSTEMS COMPONENTS	FUEL SYSTEM COMPONENTS	APU	LANDING GEAR	ENGINE	IFE SYSTEM& COMPONENTS
HYDRAULIC	BRAKE	CALIBRATION	CABIN INTERIOR & EQUIPMENT	MECHANICAL	ATE	IDG
TEST-CELL	PNEUMATIC	WHEEL & TIRE	STRUCTURAL COMPONENTS	RADIO	ELECTRICAL	HARNESS
BATTERY	SANITARY	SPECIAL PROCESS	SANITARY	ELECTROMECH ANIC	METAL PLATING	





DESIGN AND PRODUCTION

- Design
- ➤ Production & Cabin Reconfiguration
- ➤ Major and Minor STC Changes
- STC Implemented ServicesManufacturing (TCI)









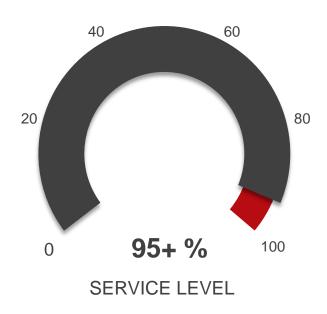
POOL (PBH) SERVICES

- ➤ 24/7 AOG Support
- > Turkish Cargo as Global Partner
- > Web Suite Portal for Customers
- > 12.500+ PN Capability

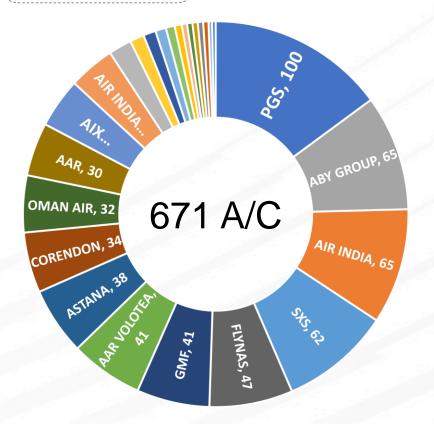
- > 3 Continent, 15 Countries
- > 95+ % Success in Service Level
- ➤ 25.000+ Components Supplied per year
- ➤ Max.30 Minutes Response Time

- > A320FAM
- ➤ B737 CL/ NG
- > A330

- ➤ 29 Customers
- ➤ 31 Contracts

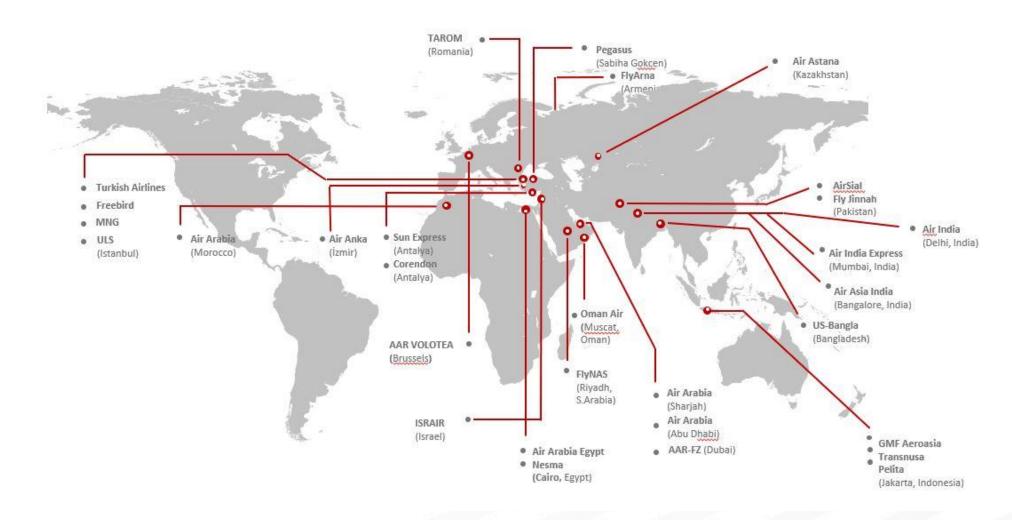








OUR CUSTOMERS





On Site Component Stock In 3 Continents and 15 Countries





AGENDA

Turkish Technic Company Overview

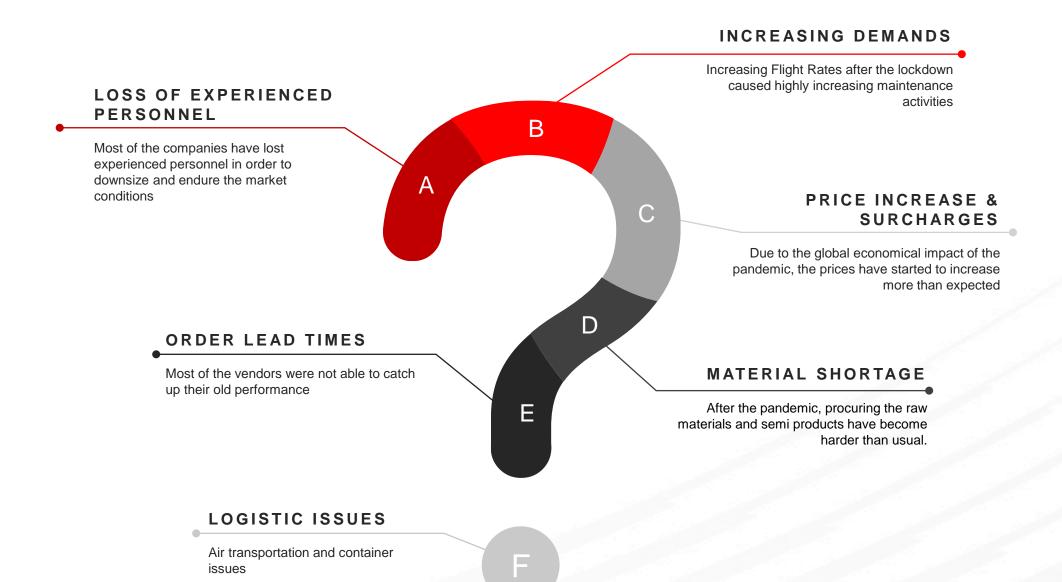
Post Pandemic Supply Chain Challenges

3

How Does IATA Smarthub Support Our Procurement



SUPPLY CHAIN CHALLANGES



TURKISH TECHNIC



TRIGGERING EVENTS



Single Supplier Issues

By not having alternate suppliers can't burndown the backlog



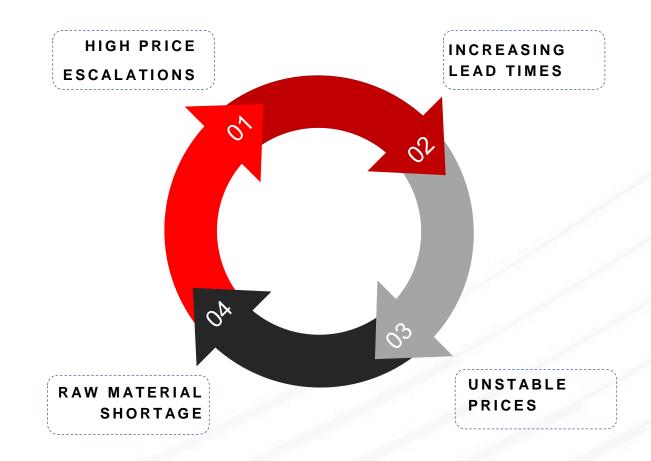
Increasing Re-Order Levels

Since there is an increase in demand and lead time, Re-Order levels are increased as well



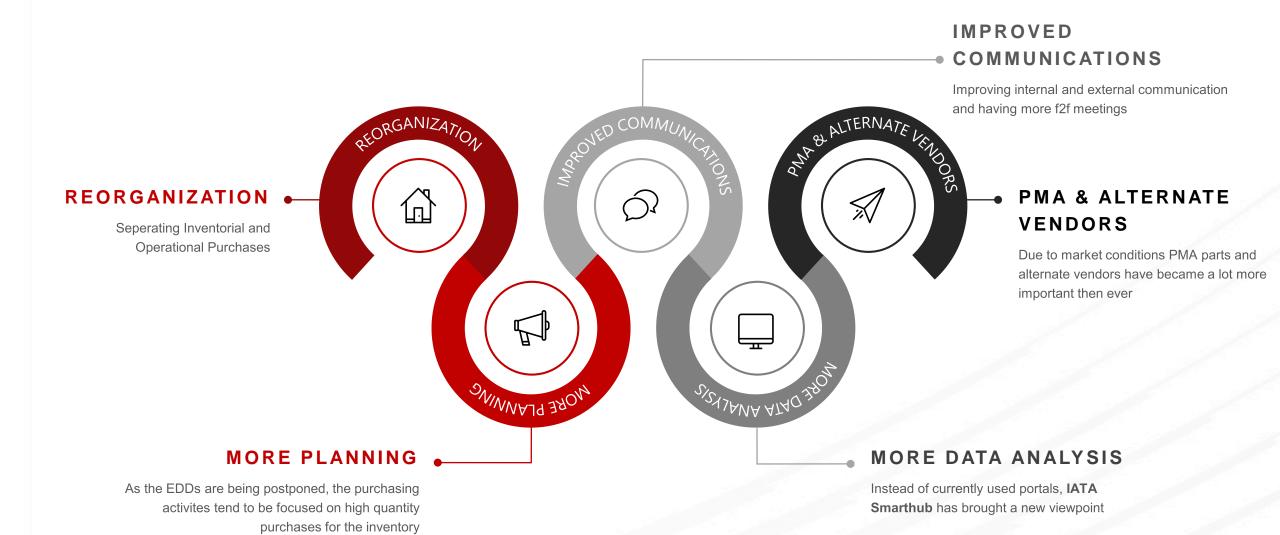
Decreasing Rate of Catalogues

Uncertainty in procurement lead us change the style





NECESSARRY IMPROVEMENTS





Vendor Evaluation System (VES)

- > Fully data oriented evaluation.
- > Prepared to share with OEMs and Vendors
- ➤ LT Performance: 60 % ➤ Disputes: 10%
- ➤ Pricing: 30% ➤ Customer Support will be Included
- Calculating risk factors
- Aims to follow up the improvements or drop backs

RISK FACTORS

x: Total Risk

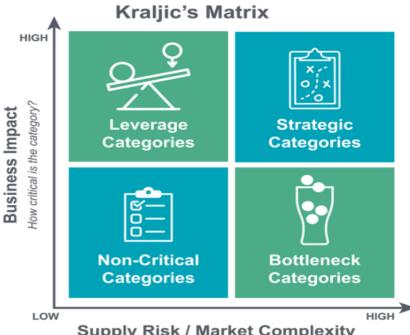
→ x1: Unsufficient Stock Risk

→ x2: Priority Risk

→ x3: Single Vendor Risk

→ x4: Long Lead Time Risk

y: Order Volume



Supply Risk / Market Complexity

How hard is it to create competition?

ACTIONS TO BE TAKEN

- Sharing results with all the vendors and OEMs
- Corrective / Preventive actions to be determined
- Weekly / Monthly review until improvement

KEY FACTORS

- Regularly postponing EDDs
- Changing prices within the same year
- Too many disputes unresolved



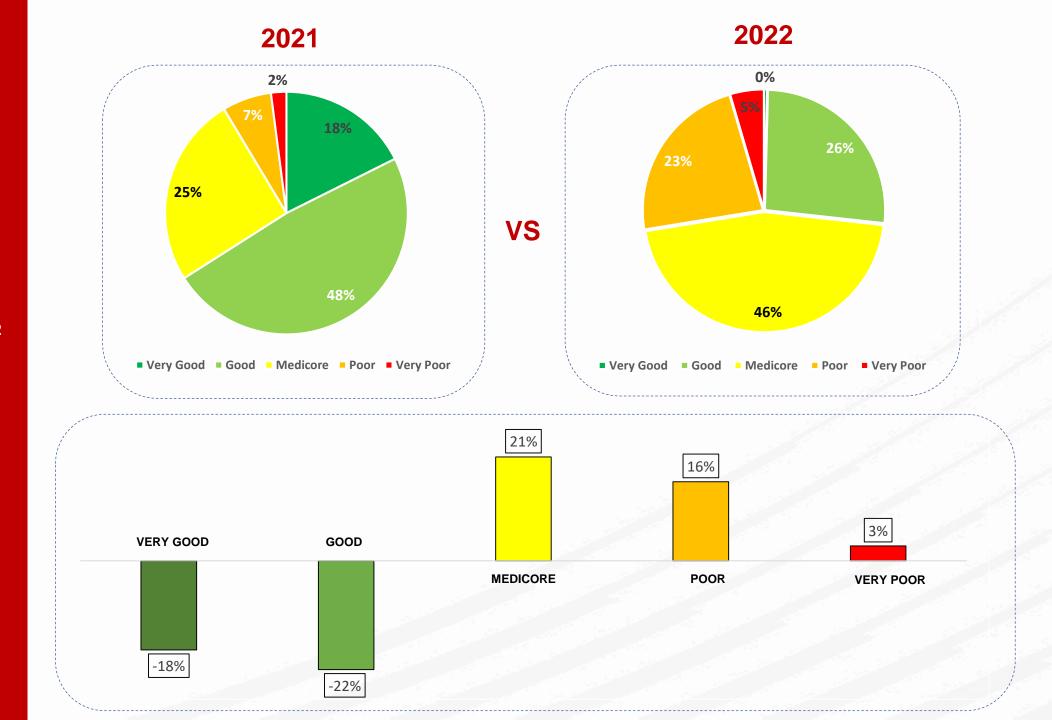


VENDOR EVALUATION RESULTS

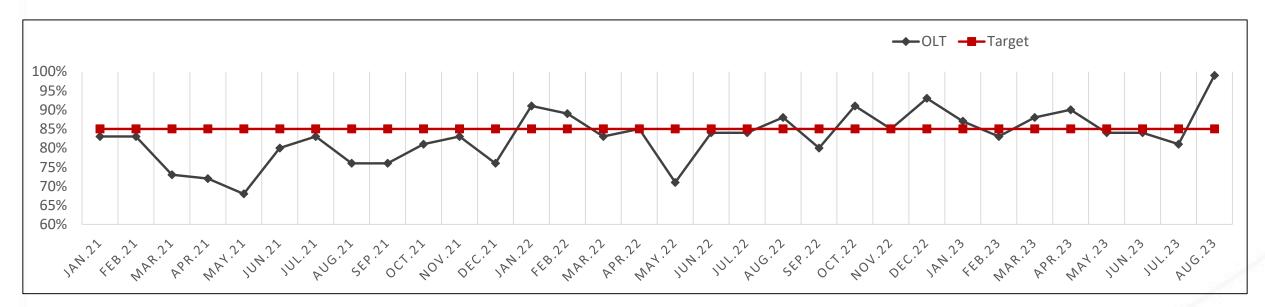
- > 2021 vs 2022
- > Drastical changes in 2022
- New precautions for 2023 and 2024 required



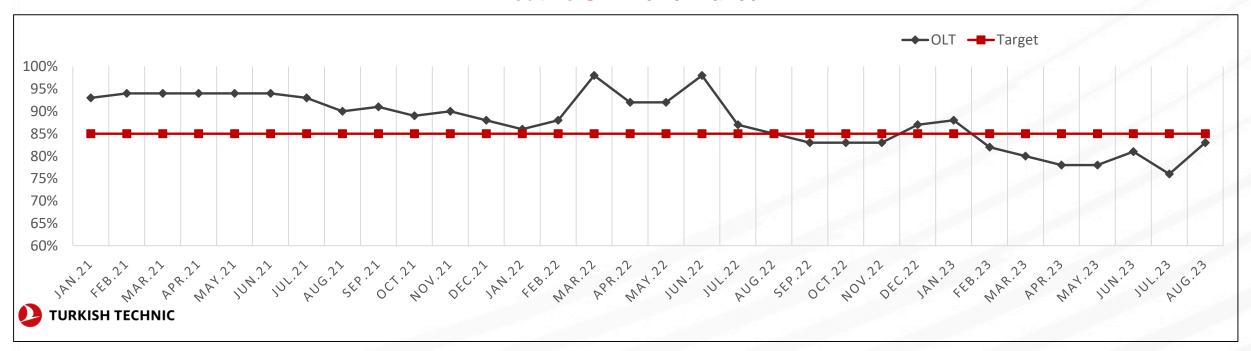




Scheduled OLT Performance



Routine OLT Performance



NECESSARRY IMPROVEMENTS



Increasing Contracted Order Rates

New long term agreements which are mutually more benficial are being offered to the vendors



Backlog Burndown Plans

The increased backlog orders are planned to be closed in shorter duration by the help of better planning



More Reporting & Digitalization

Inventory Levels, increasing order rates, backlogs, EDDs, Priority Levels of order and especially pricing informations are now processed with deeper analysis.



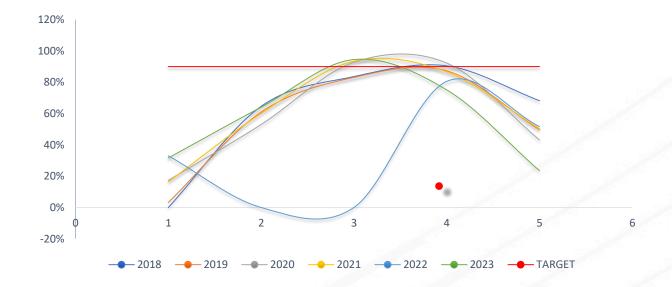
New Capabilites & Agreements

Single sourcing vendors face production and backlog issues, as TT, we offer limited production agreements by receiving the capability via a mutually beneficial business models.



More Catalogues & Planning & Bulk Orders

New catalogues combined with extensive planning and plans made to by-pass possible supply chain issues via sending bulk orders to cover 6 months to 1 year. Critical issue is receiving the catalogues.





Strategic Sourcing and Vendor Support

As a part of Strategic Sourcing, detailed VES activities have taken place. In this manner we were able to monitor and provide more significant feedback to our vendors. This has also led us find different ways to support them.



AGENDA

Turkish Technic Company Overview

Post Pandemic Supply Chain Challenges

3

How Does IATA Smarthub Support Our Procurement



HOW DOES IATA SMARTHUB SUPPORT OUR PROCUREMENT

01 BENCHMARKING

Procurement and repair prices used as data source

02 BER DECISIONS

Repair and FMV rates are included for analysis

03 PURCHASING via CONNECTOR

Purchasing activities to be started

04 DATA INTEGRATION ENABLED

IATA Smarthub Flexibility to create web services for internal reporting systems



05 FEEDING VES DATA

New datas to be included through IATA Smarthub

06 BIDS via AUCTIONEER

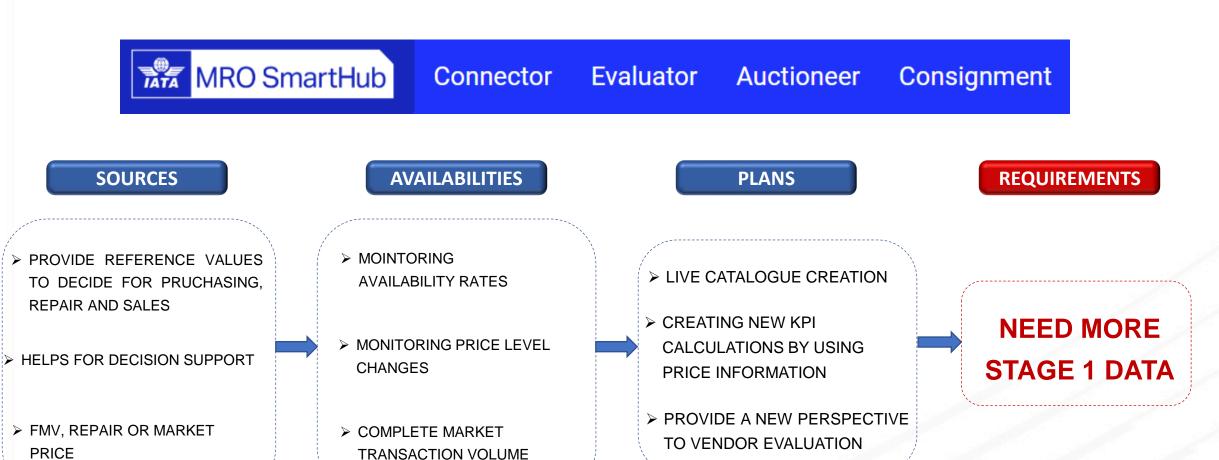
Sales or Sourcing is availble via Auctioneer System

07 COST EFFECTIVE

IATA Smarthub is a very cost effective solution when compared to other products



FUTURE PLANS WITH IATA SMARTHUB





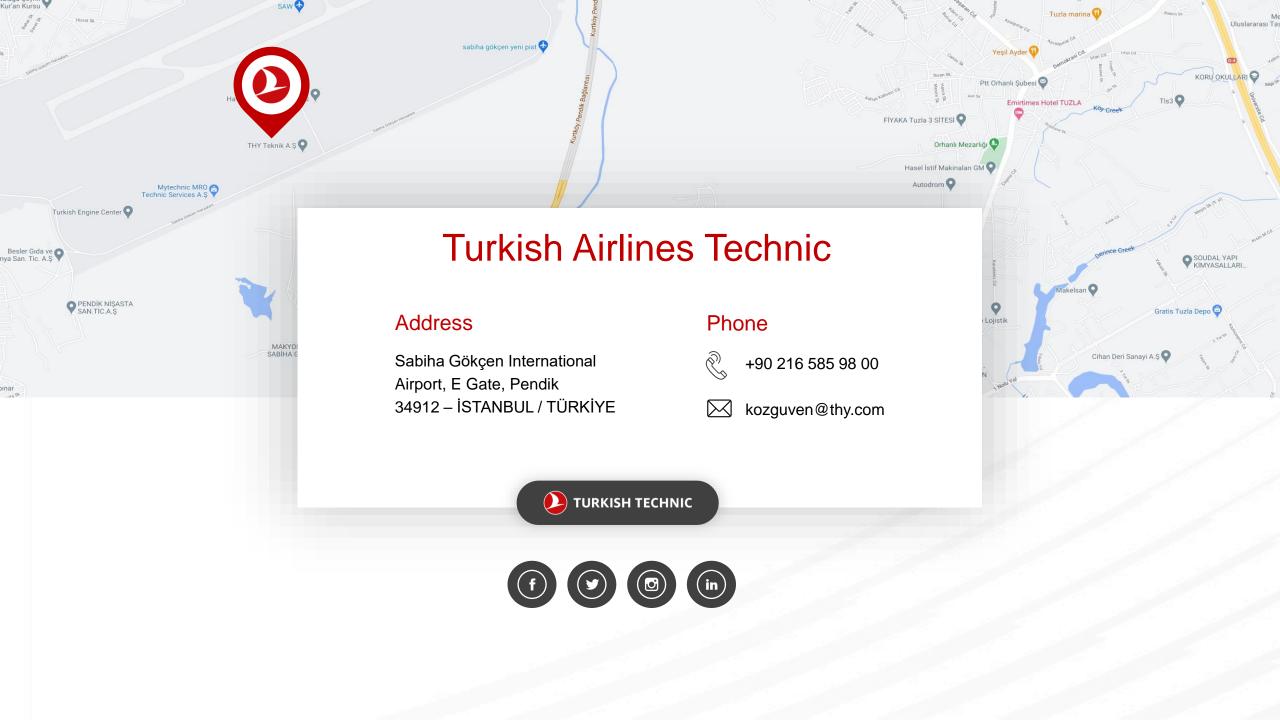
YOU ARE INVITED





BENCHMARKING





THANK YOU

