



The Sustainment Enterprise Metrics Dashboard-Status, Value-Added, and Way Forward

December 10, 2019

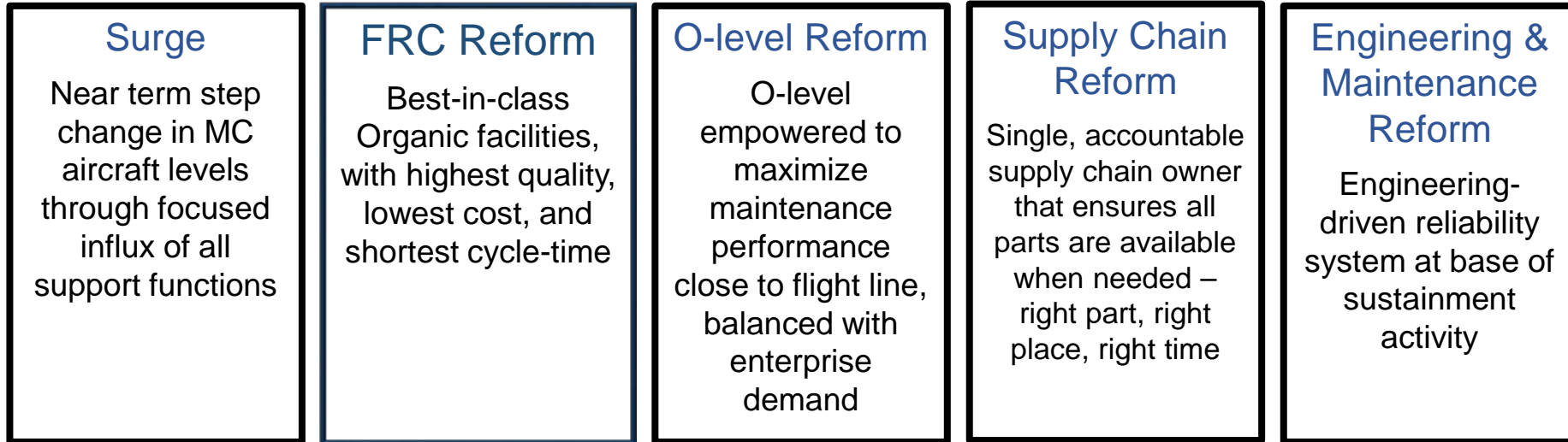
Presented to: Dept. of Defense Maintenance Symposium

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Air Systems Group Executive
Systems Acquisition Group Executive



Naval Sustainment System (NSS)

Implementation of Naval Sustainment System



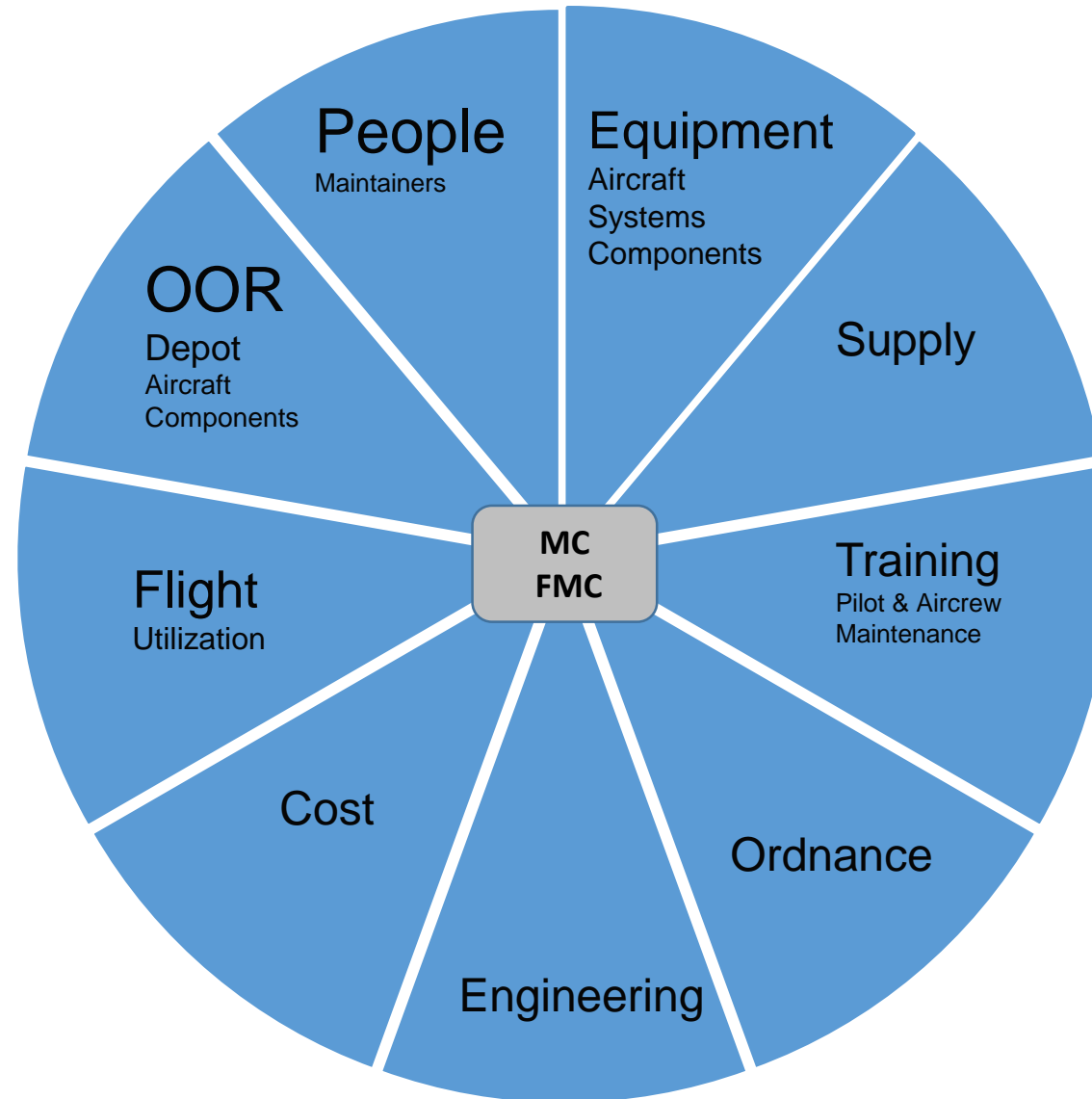
Governance, Accountability, & Organization

- Cascade readiness metrics across organizations
- Streamline Select Processes – i.e. OMN BTR in FY19
- First-steps towards enduring sustainment culture (applicable to all pillars)
- Coordinate currently ongoing, over-arching sustainment focus efforts (e.g. MRIPT, NSS, Task Order, R2R)
- Establish & pursue a sustainment data strategy
- Cement culture of sustainment (applicable to all pillars)

WILL TRANSFORM THE AVIATION LIFE-CYCLE SUSTAINMENT MODEL



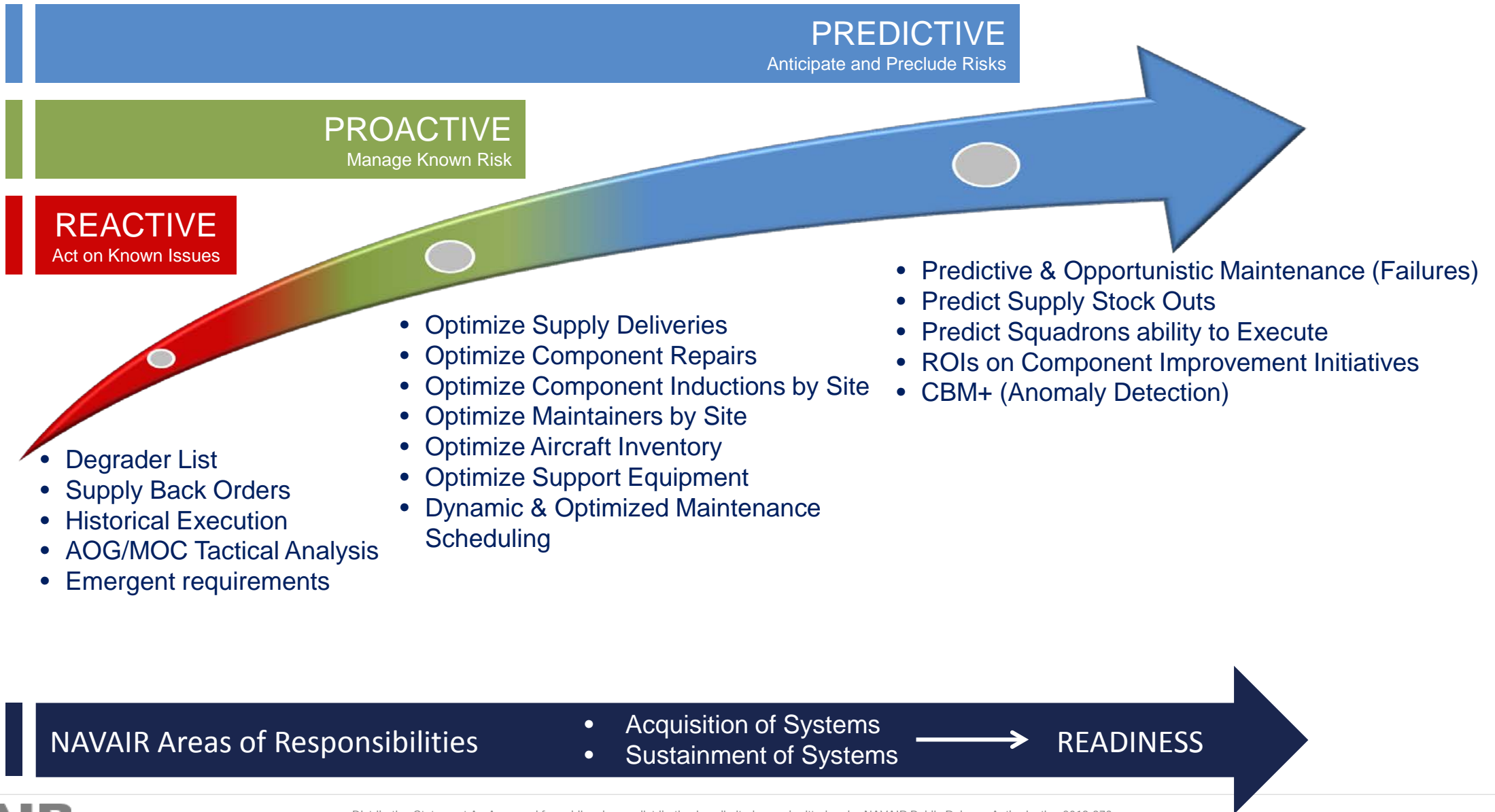
Naval Aviation Data Analysis





Path to Improve Readiness

Move Analytics from Reactive to Proactive to Predictive





Analytical Tools to Improve Readiness

Near Term/ Tactical Improvement

Aircraft Down NOW...get it back up

Self Service Business Intelligence

- People (maintainer readiness)
 - Total Force Databases
 - MACCRAT
 - Enterprise Dashboards Air Boss's Report Card
- Equipment
 - Enterprise Dashboards (Tableau & QLIK)
 - AOG/MOC Dashboards & Tools
 - In-Flight Vehicle Health Monitoring IVHM
- Supply
 - NAVSUP Logistics Cell (**LOGCELL**)
 - Supply End-to-End (**E2E**)
- Training
 - Training Analysis Project (TAP)
 - SHARP/MSHARP
 - Current Readiness Databases

Long Term/ Strategic Improvement

Posture FUTURE aircraft readiness

Analytical IT Systems

- Vector –Enterprise Analytical Tool (SQL .net environment)
- DECKPLATE- Authoritative data warehouse capable of hi end analytics (Teradata_Cognos environment)
- Sensor Ground Stations - IMDS, FAME, HMS, CAMEO, MEGA
- Aircraft Utilization – RAMP, AIRRs, Navy Synchronization Tool NST
- Depot- NMDS, Business Objects
- Several OEM Tools (ALIS, HMS, eRIC)

Exercised Within a Digital Environment

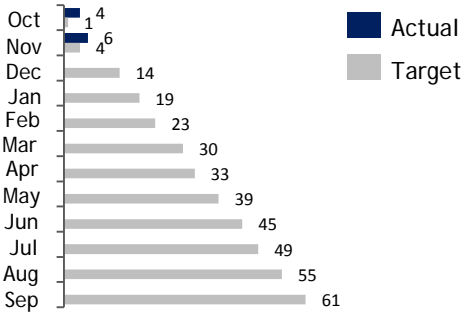


F/A-18 E/F FRC Reform HUD - 20 November 2019

All listed actions directly affect TO4,5
Data as of 19 November

PMI (FRC-W and FRC-MA)

Delivered MC¹



Performance

35.9 Average TAT days
• Target <60 days

4.3 Average sale to FCF days
• Target <7 days

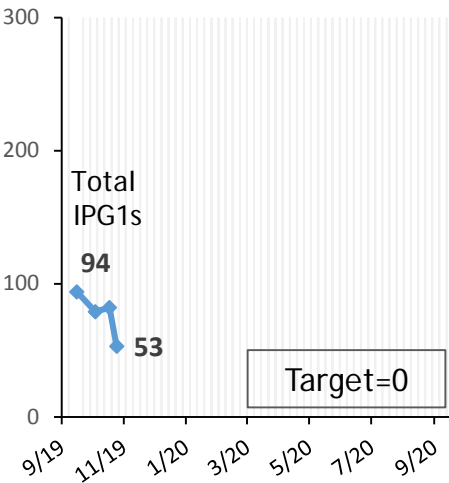
In work FRC-W

Buno	Squadron	Induction	Proj Sale Date	Status
166XXX	VFA-	10/17/19	12/16/19	↓
168XXX	VFA-	10/29/19	12/28/19	→
168XXX	VFA-	11/01/19	12/31/19	→
168XXX	VFA-	11/08/19	01/07/20	N
166XXX	VFA-	11/13/19	01/12/20	N

In work FRC-MA

Buno	Squadron	Induction	Proj Sale Date	Status
166XXX	VFA-	10/09/19	12/08/19	→
166XXX	VFA-	10/16/19	12/15/19	→
166XXX	VFA-	10/23/19	12/22/19	→
166XXX	VFA-	10/31/19	12/30/19	→

D-level (FRC-SW and FRC-E)



Top Degraders	FY20 Sched.	FY20 Comp.	Nov Prod. Target	Actual Nov Prod.	IPG1s	Prod. to Target
GCU	252	19	21	9	10	→
Single Canopies	24	3	2	2	0	→
Double Canopies	36	4	3	0	4	→
Holdback Fitting	24	2	2	0	18	→
Windscreens	96 [^]	11	8	1	10	→
Nose Wheel Steering	72	1	7	0	2	→
Rudder ServoCylinder	136	18	12	2	9	→
PBAR	320	56	27	19	0	→
Flow Control Valve	60	37	5	13	0	→
TE Regulating Valve	128	19	11	4	0	→

[^] Received increased schedule.

I-level (FRC-W and FRC-MA)

Degrader	I-Level			I-Level & Supply			Overall Status
	Repairs Last 30 days	RFI TAT	TGT TAT	RFI/FAQ ^{^^}	Active EXREPs / AWP	ER%	
GCU	83	9.5	13.1	0/44	9/2	85%	→
APX-111	4	3.7	5.2	0/10	1/1	85%	→
MPCDR	28	2.9	19.1	0/23	4/4	93%	→
UFCDR	10	5.3	12.9	0/6	0/0	51%	N
MIDS/JTRS	2	187.0	20	7/20	0/0	44%	→
EOSU (ATFLIR)	9	25.8	7.5	0/7	4/1	92%	N
PAU (ATFLIR)	3	89.2	20	1/3	0/0	100%	N
LAU-127 F/A	19	284.9	22.5	33/30 ^{^^}	0/0	0%	↑
LAU-127 E/A	51	11.4	22.5	34/70 ^{^^}	0/0	0%	↑

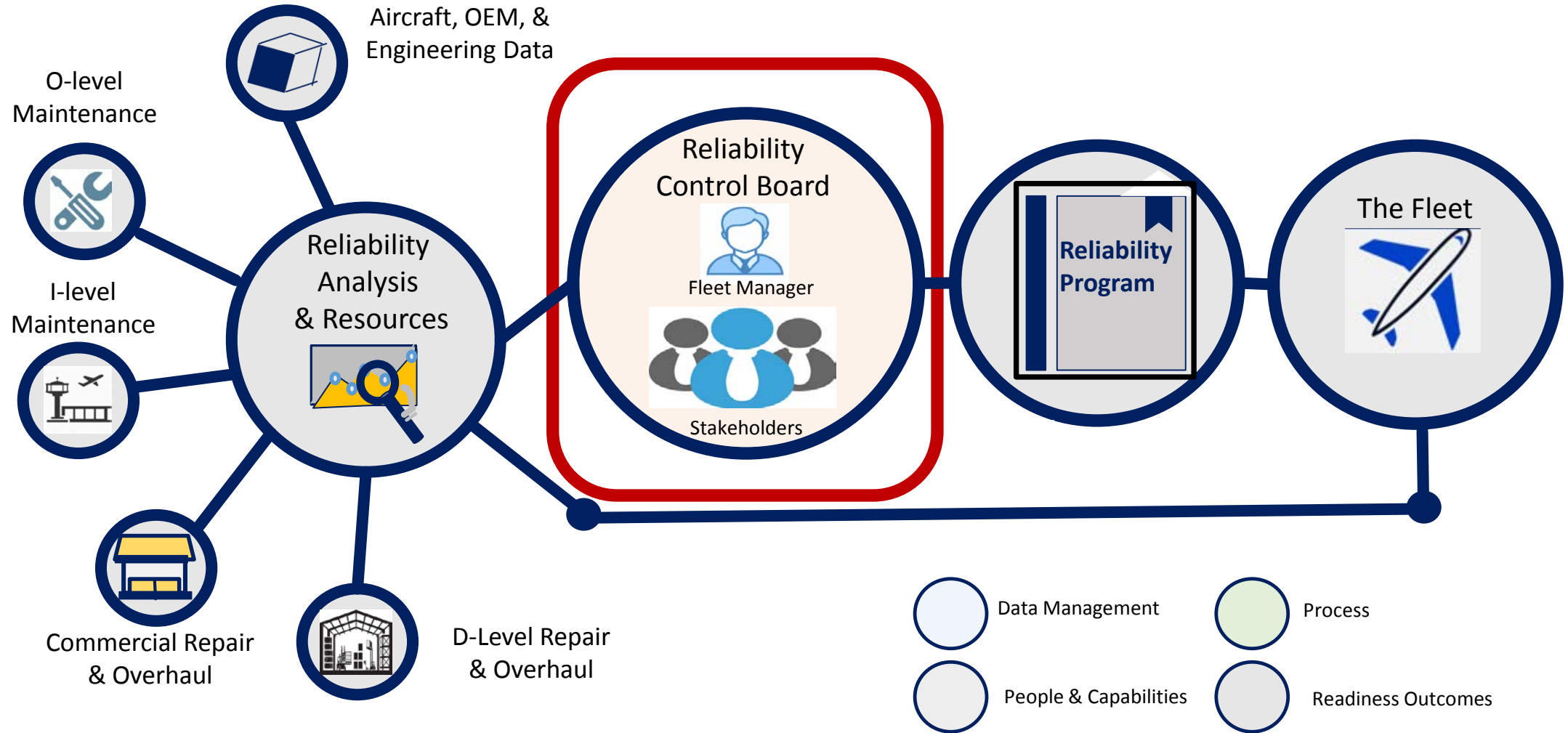
^{^^} FAQ determined by median demand over 12 months.

Actions Against Issues

Production Dashboard Example



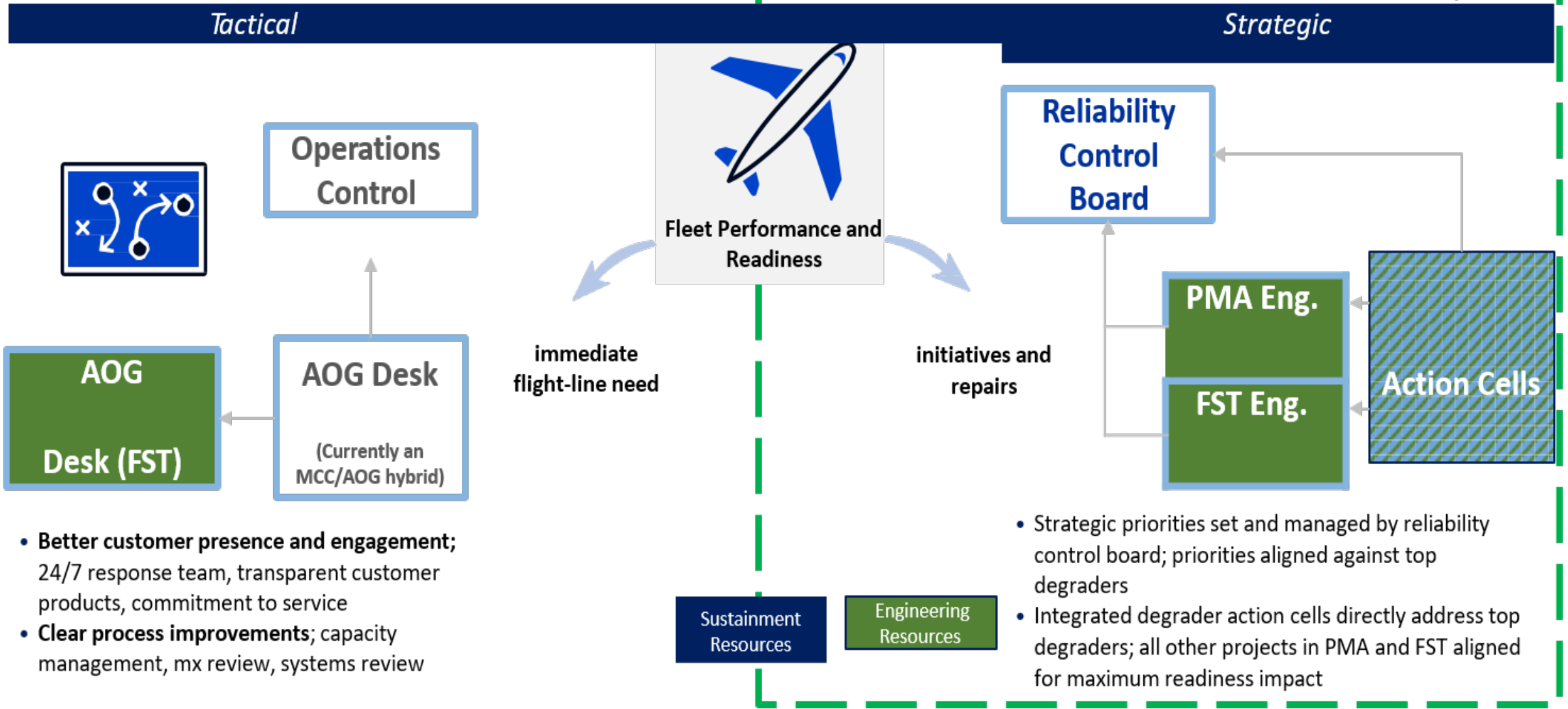
Reliability Control Board





The engineering support team must provide tactical and strategic services that enable fleet readiness

Discussion today



- **Better customer presence and engagement;** 24/7 response team, transparent customer products, commitment to service
- **Clear process improvements;** capacity management, mx review, systems review

- Strategic priorities set and managed by reliability control board; priorities aligned against top degraders
- Integrated degrader action cells directly address top degraders; all other projects in PMA and FST aligned for maximum readiness impact