

FedEx Express

Proactive/Reactive FRM

Data Collection Beyond
AMOC





Proactive FRM

Scheduling Improvement Group (SIG)

- **SIG = Company + ALPA**
- **Crew Resource Planning Dept. (Solver)**
- **11 PSIT (Pilot Scheduling Improvement Teams)**
 - Trained via NTSB course on Fatigue
 - Review Pairings (Prelims & Finals)
 - Build Regular Lines (**No PBS**)
 - Utilize SAFTE-FAST
- **Disputed Pairing Process**
 - Identify Pairings for Risk of Fatigue
 - Specific on **Objectionable DNA**





Proactive & Reactive FRM

Fatigue Event Review Committee (FERC)

- FERC = Company + ALPA
- Proactive
 - Review of **Objectionable DNA** from SIG
 - AMOC



Proactive & Reactive FRM

Fatigue Event Review Committee (FERC)

→ **FERC = Company + ALPA**

→ **Reactive**

- **Pay decisions: sick bank replenishment**
- **Fatigue Call/Event Review**
- **Fatigue Report Review**
- **Duty Extensions Review (beyond operational limits)**



Recent Contract Changes

Additional FERC Responsibilities

12.A.9

- 72 hours check
- Categorizing pay decisions (new approval process)

Reactive

12.A.10

- 1 – Prospective ULR Pairings
- 2 – outside FARs or CBAs or both
- 3 –within FARs and CBAs

Proactive

12.C.5.b.ii

- Review duties beyond operational limits domestic

Reactive

12.D.6.c.ii

- Review duties beyond operational limits International

Reactive

25.BB.e.5

- New SIG Process
- FRMS Track

Proactive



Centralized Fatigue Review Process

Fatigue Event
Management

Fatigue Report
Review

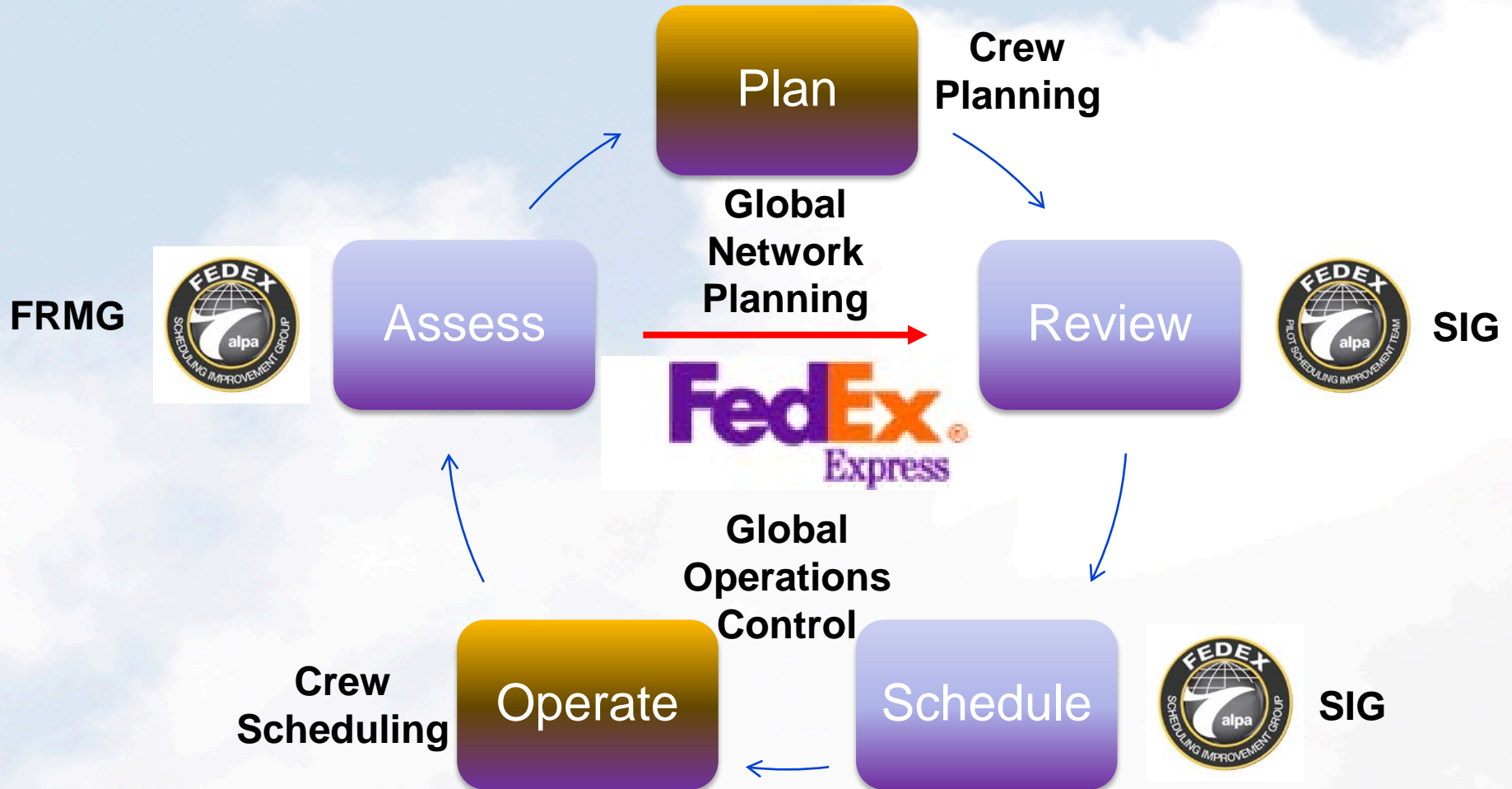
Proactive Fatigue
Review

Duty Extensions
Review

Centralized
Fatigue
Review
Process



Scheduling & FRM Process



Not Dependent Only on Fatigue Calls for Data



Data Collection Status

Study Design	# Of Subjects	Status of Study
IND 4 Consecutive Nights	54 Pilots	Scientist Review Complete
AFW 4 Consecutive Nights	17 Pilots	Scientist Review Complete
CDG 4 Consecutive Nights	33 Pilots	Scientist Review Complete
Memphis – AM Out and Backs	45 Pilots	Scientist Review Complete
HKG multiple nights design	33 Pilots	Scientist Review Complete
Go Around the World – Westwards	94 Pilots	Analysis Pending
Go Around the World – Eastwards	81 Pilots	Analysis Pending
Sling Shot Designs	25 Pilots	Analysis Pending
International – Any Augmented Ops	20 Pilots	Data Collection – In Progress
5 Night Sequence	15 Pilots	Data Collection – In Progress
EUR – Budapest Short Layover	9 Pilots	Analysis Complete
FERC Pairings	164 pilots	Data Collection – In Progress
	Total – 590	Completed Data sets



FERC Pairing (objectionable) DNA

Study Design	# Of Subjects	Status of Study
3 leg-4 nights	25	Analysis Pending
LGG-MEM Design	35	Analysis Complete
PVG-MEM Design	14	Analysis Complete
LB-24-LB Design International (a)	21	Analysis Pending
HKG Base – LD-14-LD Domestic (b)	18	Analysis Complete
Short-long West Coast (c)	9	Data Collection – In Progress
Others	42	Data Collection – In Progress
(a) MEM-NRT-CDG		
(b) BKK-CAN-MNL (14-15hrs) MNL-CAN-NRT		
(c) DFW-IND-ONT		





Recent Success Stories

- BUD (Budapest Pairing Change)
- Contract Language (32/120)
- Increased Sleep Rooms
- Wake up call program
- LCK-IND-SWF-LCK (SWF empty)
- Limit Trip length (on specific harder designs)
- Short layover in PVG/LGG
- CAN trip shortening
- BKK layover and hubturn
- Pairing Design Fixes and Retentions
- Data Collection

Sleep Rooms

MEM	296
IND	31
AFW	23
OAK	6
CDG	16
CAN	24
EWR	0
LAX/ANC*	0

*(no hub turns)



Challenges FERC Data Collection

- **Intensive SIG Process**
- **Keeping FERC/DCSC Data Driven**
- **DNA Tracking and Collecting Data**
- **System form changes**
- **Time**
- **Communicating Outcome**



Goods and Others

Others

- **Cost**
- **Time**
- **Sleep log vs Actigraph**
- **Peer report not published**

Goods

- **Buy in by both sides**
- **Objective**
- **DNA**
- **Changes**
- **Sleep rooms, Wakeup program, recliners**