

# ZLA METROPLEX

PHASE 2 TRAFFIC MANAGEMENT INITIATIVES

March 2<sup>nd</sup>, 2017



# Overview

- LAX Departures Impact
- LAX Arrivals Impact
- AFP
- ZOA to SCT arrivals
- SAN Diego and LAS Vegas
- SCT departures
- Playbook Routes
- Communication



# LAX Departures Impact

## 8 New RNAV SIDs & 7 Up-number SIDs

### ADR 48-50

#### SCT TMI's

- 7 MIT via RWY 24R for like SIDs, 3-5 MIT all others
- 7 MIT via RWY 25L,
  - 4 MIT if following ORCKA/LOOP
- RWY staging to segregate flows.
- North Complex- north SIDs
- South Complex- south SIDs

#### ZLA TMI's

- CFRs to PHX/SFO/SJC/OAK/SAN/SLC as requested by adjacent Centers
- Tactical Reroutes between ORCKA, DOTSS & PNDAH SIDs for fix balancing
- In line with our daily operations



# LAX Arrivals Impact

## 6 New RNAV STARs

## 2 Up-number STARs

- ▣ Daily GDP to LAX for arrivals between 1600z-0600z
  - National scope + Canada
  - First week or as needed
  - Helps provide stability
  
- West: 50-52 AAR
  - Initial AAR, to be evaluated and adjusted nightly for next day operations. In line with RWY 07L/25R closure.
- East: 46-48 AAR



# LAX Arrivals Impact

- ▣ 10-15 MIT from ZLC/ZAB/ZDV
  - Used to fine tune delivery and support TBFM
  
- ▣ 10 MIT from ZOA
  - Used to fine tune delivery and support TBFM
  
- ▣ TBFM
  - Preferred method of delivery over MIT

The above TMI's are in line with our daily operations and do not inhibit our ability to deliver the AAR.

MIT will also allow for familiarity and verification of Optimized Profile Descent OPD

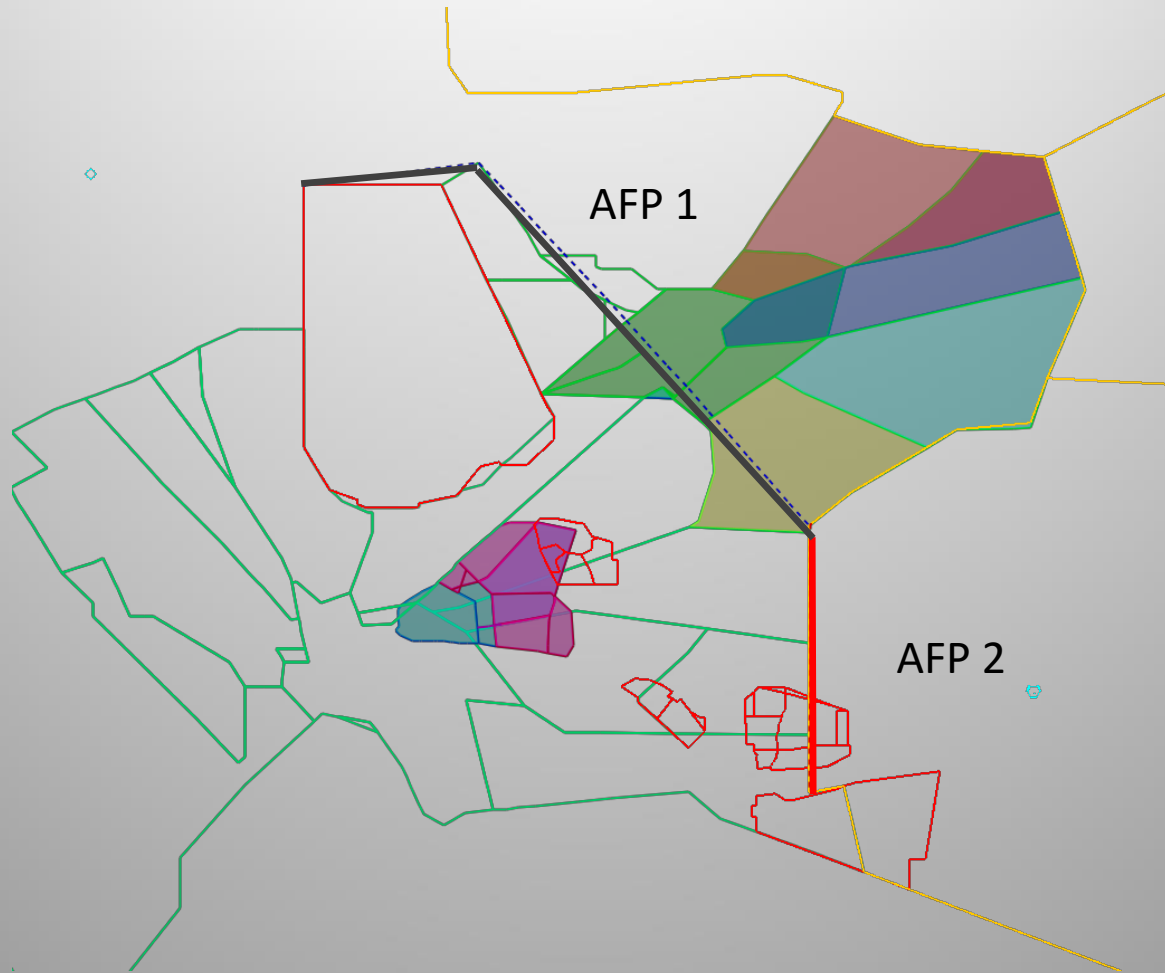


# LAX Questions

All TMIs will be continuously evaluated and will be lowered or removed when there is confidence that procedures, airspace and automation are working as designed.

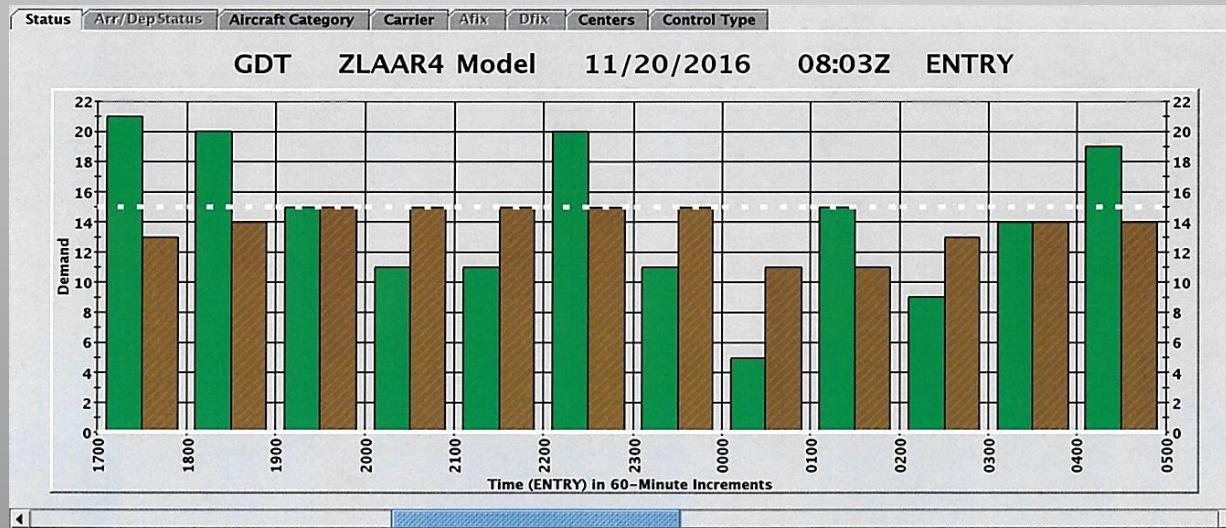


# AFP Placement



# AFPs

- ▣ Concurrent running AFPs
  - 2 AFPs allow for steady delivery of arrivals through ZLA
- ▣ Eliminates peaks by balancing traffic
  - Allows for controlling airports that cannot be easily managed by TMIs
    - 8 new RNAV stars to Basin airports





# AFP

- ▣ Includes all ZLA arrivals except
  - LAX/SAN/LAS
  - Flights below FL180
  - Overflights and ZLA departures
  
- ▣ AFPs 1500z-0600z daily
  - Initially not to exceed 35 minutes of average delay and avoids late night operations
  - Scope of AFP evaluated Nightly for next day operations



# AFP Questions

All TMIs will be continuously evaluated and will be lowered or removed when there is confidence that procedures, airspace and automation are working as designed.



# ZOA to SCT arrivals

Traffic From ZOA is Not included in an AFP

- ▣ BUR/VNY 10-15 MIT as one
- ▣ SNA/LGB 10-15 MIT as one

MIT will allow for validation of new procedures and airspace changes for ZLA and SCT



# SAN Diego

## 2 New RNAV STARS

### 4 New RNAV SIDs

- ▣ ZOA to schedule SAN via EDC
  - In line with daily operations
  
- ▣ From the EAST. All SAN traffic to be routed via J2 excluding ZLC to SAN arrivals.
  - Reroute is to allow for SAN to be excluded from AFP
  
- ▣ 10 MIT via J2 from ZAB
  - Tactically based on demand
  
- ▣ TBFM



# Las Vegas

## 1 Up-number STAR

## 1 Up-number SID

- ▣ Departures- As needed
  - 15 MIT via STAAV and TRALR
    - Directly impacts new airspace changes
  - 10-15 MIT all other departures as needed
- ▣ Arrivals
  - TBFM with MIT from ZOA/ZLC/ZDV/ZAB to fine tune arrivals and allow for new sector stability
  - In line with daily TMIs to manage airport/sector capacity

LAS will not be captured in an AFP, traffic will be managed tactically with ATCSCC collaboration.



# SCT departures

## 14 New RNAV SIDs & Airspace redesign

- ▣ All SCT departures (not including **LAX**)
  - 3-5 MINIT per airport per corridor (DAG/TRM/IPL)
    - ▣ Implemented as needed to manage sector capacity
  - Increased departure delays may be needed to avoid additional delays to LAX departures.
    - Potential reroutes for fix balancing



# Playbook Routes

To be used tactically as back-up to AFP

- ▣ No J92/J11 landing PHX 1400z-0200z
  - 1-2 days, then as needed
  
- ▣ All other re-routes managed tactically



# Communication

- ▣ Hotline for real-time coordination
- ▣ Nightly Telcon with ATCSCC and Industry to discuss next days operations and planning, 1730L PST
- ▣ End of Shift Summary for lessons learned





# Questions?

