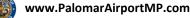


McClellan-Palomar Airport Master Plan Update

Public Meeting #5

Master Plan Update and Draft EIR Overview January, 30 2018



Agenda

- 1. Staff Presentation
 - a. Project Background
 - b. Master Plan overview
 - c. Draft Program Environmental Impact Report (EIR) findings
- 2. 30-minute question & answer
- 3. Break out into open house stations
- 4. Adjourn at 8:30 pm



Photo from Public Meeting #3 on April 30, 2015.











- Proposal stays within the existing fence line
- Proposes safety improvements
- Continued use of existing airline terminal
- Keeps airport parking area the same size
- Balanced proposed forecasts



Airport History



- Aviation gateway to and from San Diego's North County
- Economic driver for vibrant business community
- County of San Diego owns and operates the public airport
- Provides corporate, commercial, and private services for the region



Public-Use Airport

FAA Definition:

Public Use Airport - available to general public without need for approval from County as owner/operator.

Services:



- Air Traffic Control Tower, operated by FAA
- Commercial Airline Service
- Aviation Businesses Provide Charter, Corporate Services, & Flight Training
- Emergency Medical Airlifts
- Military & Law Enforcement
- Aircraft Sales, Maintenance & Repair
- Car Rental Companies
- TSA & U.S. Customs and Border Protection



Regional Economic Benefit

Projected by 2030

- 4,615 jobs supported
- \$155.2 million in personal income
- \$560.8 million in business revenue
- \$33.4 million in state and local tax revenue





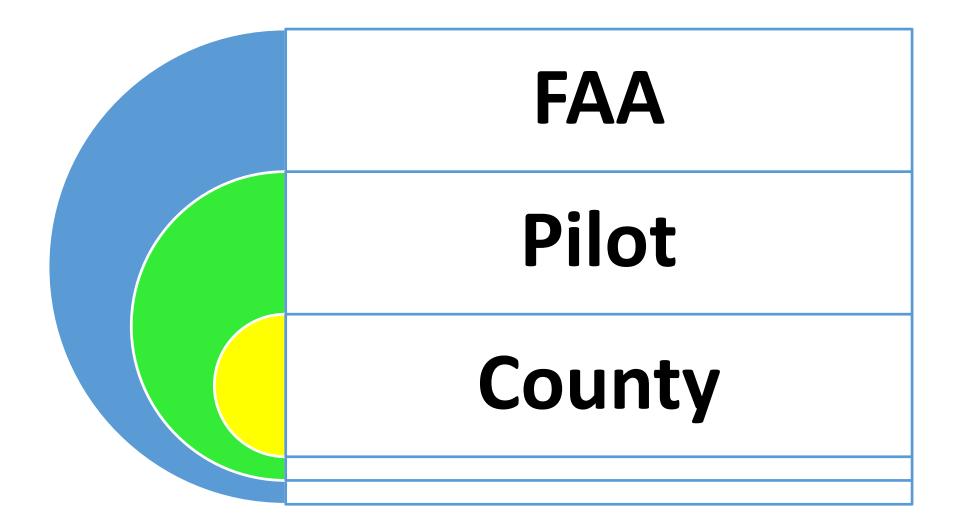


Master Plan Update Process



2 3 1 **Conduct Facilities Identify Facility Draft Master** Inventory, Forecasts Needs and Develop/ **Plan and Study** Study Development of Aviation Demand **Environmental** & Begin Stakeholder Alternatives Impacts Outreach in (FAA Standards) **Early 2014** 5 6 We Are Here **Conduct Draft Respond to Public** Present Comment and Alternatives Program **Environmental Finalize Master** at Board of Impact Report (EIR) Supervisors Plan and Public Outreach in **Program EIR** Hearing in Mid-2018 Early 2018

Roles & Responsibilities



Why is a Master Plan Needed?

Master Plan: 20-Year Planning Document

- Forecast of aviation demand
- Determine FAA-defined facility requirements
- Financial, and Phased Implementation Plans
- Environmental review

Establishing the Airport Layout Plan (ALP Map)

- County obligated to maintain updated ALP
- ALP is illustrated map of current and proposed plans
- FAA reviews for compliance with standards
- Required to apply for federal funding for projects



Master Plan Objectives



- Remain on-Airport Property
- ➢ Financial Feasibility
- Avoid Impacts to Airport Businesses
- Accommodate Existing and Future Demand
- Minimize Environmental & Offsite Impacts
- Adhere to FAA Design Standards

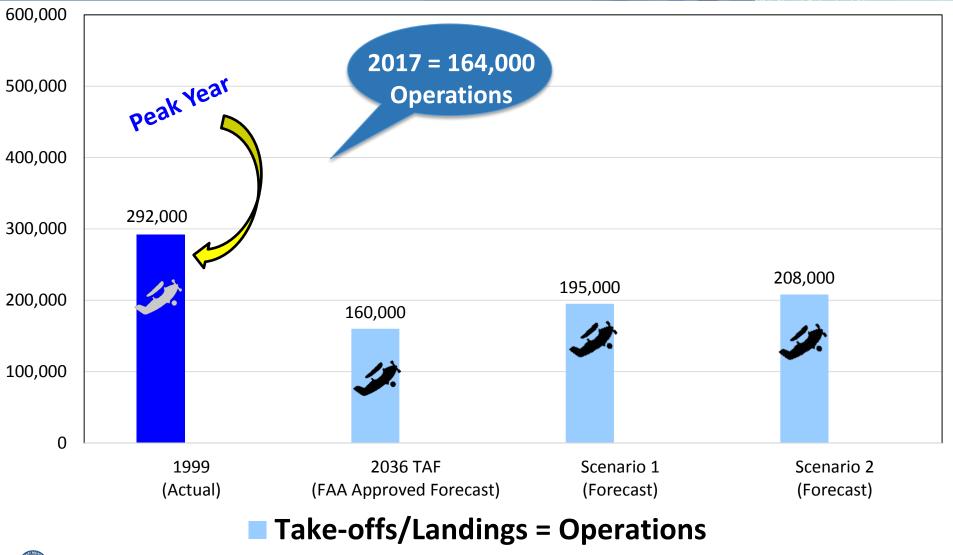






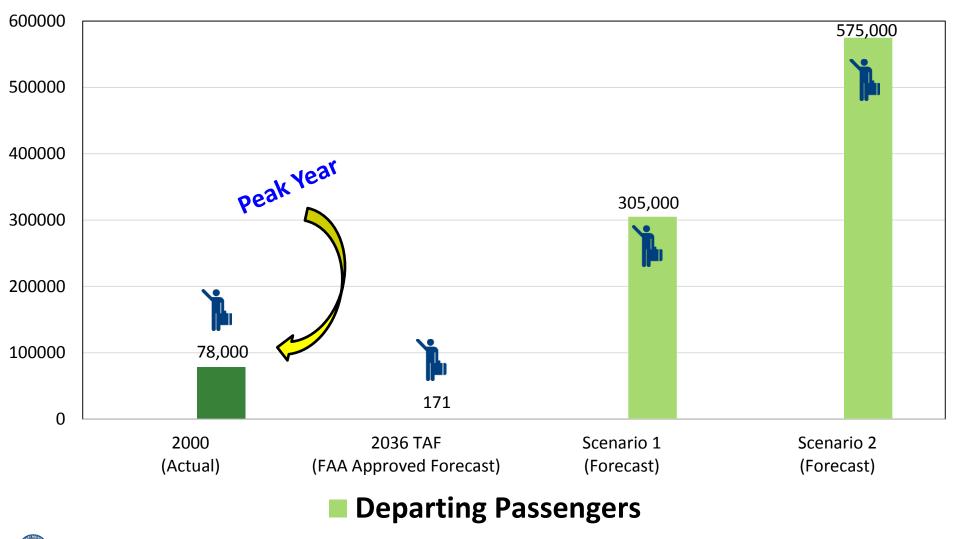


Historical & 2036 Forecast Operations

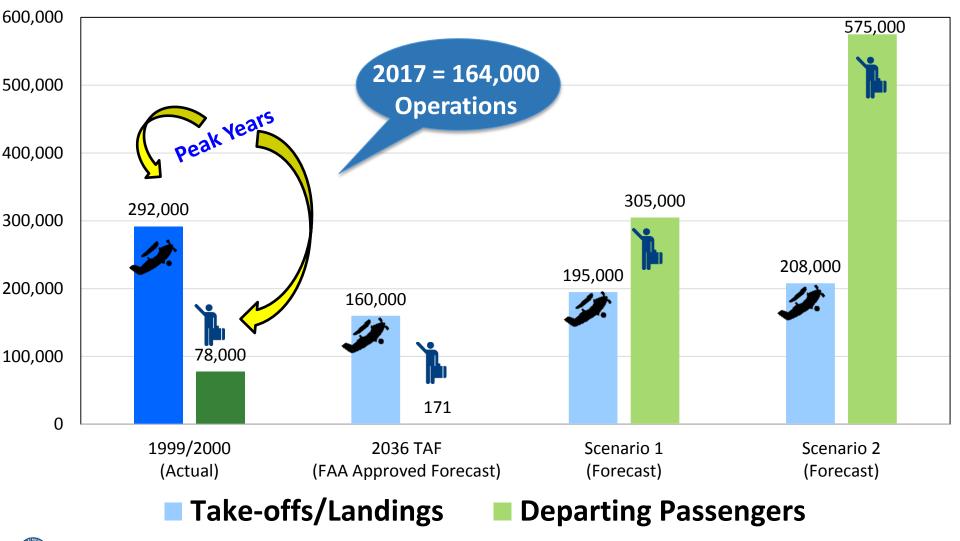




Historical & 2036 Forecast Passengers



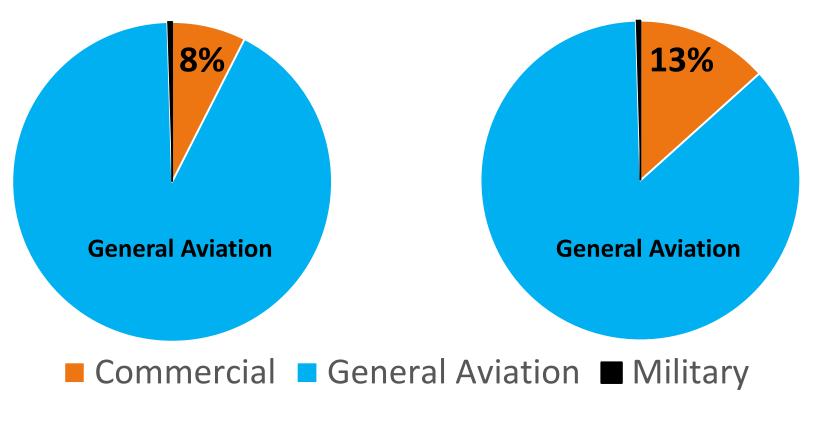
Historical & 2036 Forecast Passengers & Operations Totals



Total Operations in 2036

Scenario 1 – 195,000 Operations with 305,000 Outbound Passengers

Scenario 2 – 208,000 Operations with 575,000 Outbound Passengers













- Reflect types of airplanes using the airport
- Utilize FAA Guidance on airport design
- Determine "Critical Aircraft"
 - defined as the most demanding aircraft with over 500 annual operations during the planning cycle



Aircraft Design Criteria

Primary Characteristics:

- Approach Speed
- Wingspan
- Weight

Approach Speed:

Aircraft Approach Category	Approach Speed (knots)
А	Less than 91
В	91 to 120
С	121 to 140
D	141 to 165
E (military only)	166 or Greater

Evolving Capabilities:

- Quicker landing and takeoff ability
- Longer range
- Better fuel efficiency

Wingspan:

Airplane Design Group	Wingspan (feet)
l	Less than 49
Π	49 to 78
III	79 to 117
IV	118 to 170
V	171 to 213
VI	214 up to but less than 262

Airplane Design Examples



A-I Aircraft:



• Cessna 172 – Wingspan 36 ft.



• Beech Bonanza – Wingspan 33.4 ft.



• Falcon 2000 – Wingspan 63.5 ft.



• EMB-120 – Wingspan 65 ft.



Airplane Design Examples



C-II Aircraft:



Challenger 600 – Wingspan 61.8 ft.



- CRJ-700 Wingspan 76 ft
- Operated by Cal Jet by Elite Airways

C-III Aircraft:



• G-550 – Wingspan 93.5 ft.





Global 7000 – Wingspan 104 ft.

• G-650 – Wingspan 100 ft.

D-III Aircraft:

Critical Design Aircraft changing from B-II to D-III

Falcon 2000 – B-II Current Critical Design Aircraft



B-II Aircraft – Current Design Standard

- Wingspans up to 79 feet long
- Approach Speed up to 121 knots

Gulfstream G650 – D-III Future Critical Design Aircraft



D-III Aircraft – Future Design Standard

- Wingspans up to 118 feet long
- Approach Speed up to 166 knots





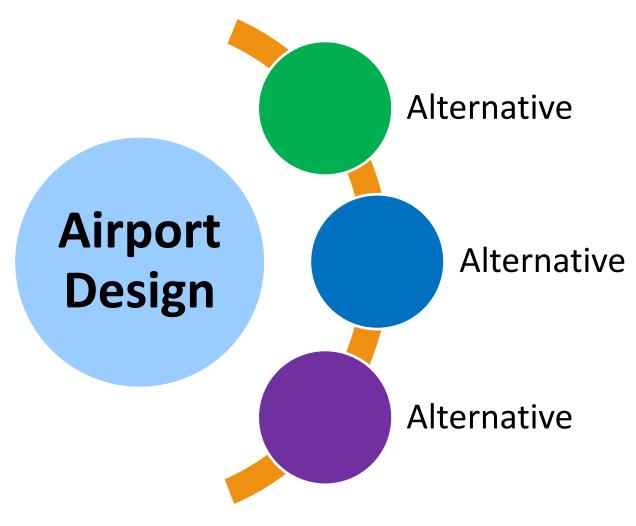




Reviewing Alternatives

BALANCE:

- Safety
- Community
- Stakeholders
- Environmental
- FAA Guidance
- Objectives
- Forecast
- Demand
- Critical Aircraft



Potential Alternatives



Alt 1 = Stay B-II

Enhance Safety

Alt 6 = C-III

Change to III Design for Separation Distance & Safety, Monitor Operations



B-II Enhanced Safety Alternative AIRPORTS

Alternative 1 = B-II Design

Legend



- **Current Runway**
- Current Taxiway
- North Apron Remains
- Proposed 200' Runway and Taxiway Extension
- Proposed 700' Runway and Taxiway Extension
- **Proposed EMAS**
- **Aviation Property Line**

C-III (Alt. 6) & D-III (Alt. 5) Alternatives

Alternative 5 = D-III Design...has larger EMAS Alternative 6 = C-III Design

Legend

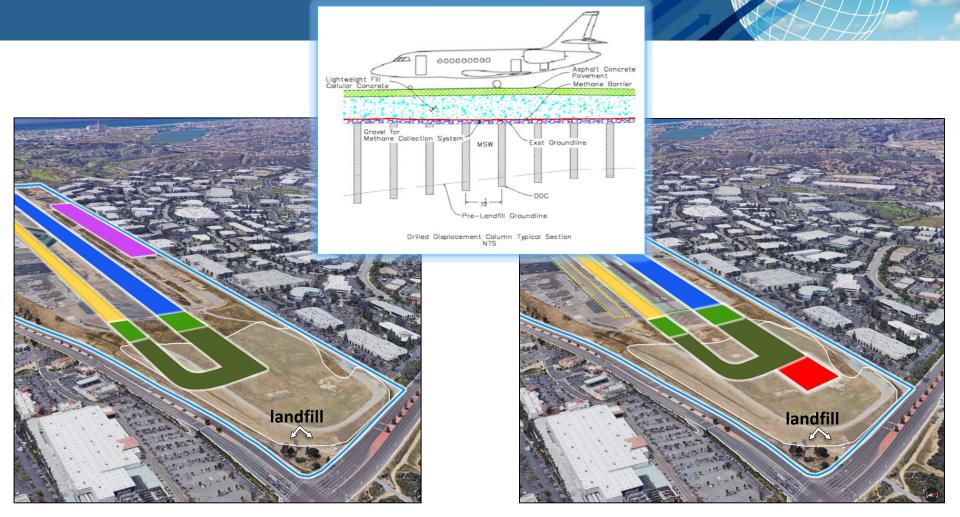


Taxiway Relocation



- Proposed 600' Runway and Taxiway Extension
- EMAS Relocation & Extension
- Aviation Property Line

Runway Extensions & Landfill



C-III & D-III Modified Standards Compliance Design with 200' and 600' Extensions



B-II Safety Enhanced Design 200' and 700' Extensions

EMAS Safety Improvement

Engineered Materials Arresting System (EMAS):

- Safely Stops Planes & Prevents Runway Overruns
- Crushable Concrete
- FAA Approved





Alt. 5 (D-III Design) Install EMAS





Remove North Parking Ramp & Taxiway



Shift Runway & Taxiway North to Improve Safety







Shift EMAS North





Extend Runway & Taxiway; Add East EMAS







Alternative Comparison Chart



	#1 B-II Alternative	#6 C-III Alternative	#5 (Preferred) D-III Alternative
Design Meets FAA Guidance throughout 20-year Planning Period			
Enhances Safety for Existing Wide- Winged Airplanes			
No Expansion Outside Fence Line			
No Impact to Aviation Business Leaseholds			
Includes Option to Install EMAS			
Includes Options to Extend Runway			





Existing Footprints

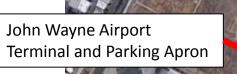






Palomar vs. John Wayne Airport

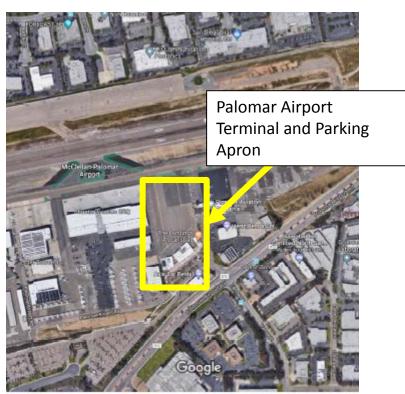
Terminal has 26 gates





John Wayne Airport

Terminal has 1 gate



Imagery ©2017 Google, M

Palomar Airport



Palomar vs. John Wayne Airport Comparison of Commercial Areas

Terminal has 26 gates

Palomar Airport **Terminal and Parking** Apron John Wayne Airport **Terminal and Parking Apron** nagery ©2017 Google, Map data © imagery ©2017 Google. Palomar Airport John Wayne Airport

Terminal has 1 gate

www.PalomarAirportMP.com







Master Plan Draft Program EIR – Environmental Review Approach

Master Plan Process consists of two main elements:

Facility Improvement Alternatives

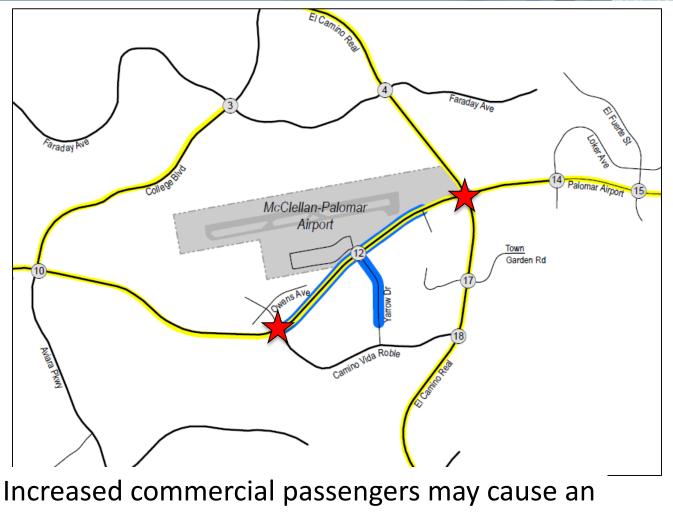
Engineering-based, Airport layout

Environmental Review

Existing environmental setting Conceptual project footprints







impact to traffic. Mitigation is proposed.

Measuring Aircraft Noise

Factors for determining aircraft noise:

- Flight tracks
- Type of airplanes
- Number of operations

Community Noise Equivalent Level (CNEL):

- 24 hour average measurement
- 65 CNEL is the reference level for noise impacts and land use compatibility

If residential areas are at or above 65 CNEL, additional analysis is needed.









Current & Long-Term Aviation Noise: No Significant Impact All residential areas are outside the 65 CNEL boundary

Aesthetics



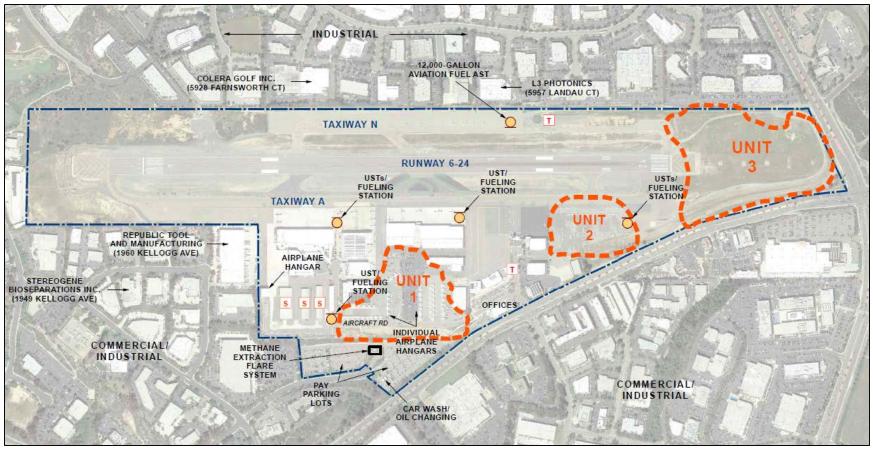


Motorists passing through the area may notice a change if a retaining wall is placed along Palomar Airport Road to support an east end EMAS.



Hazardous Materials

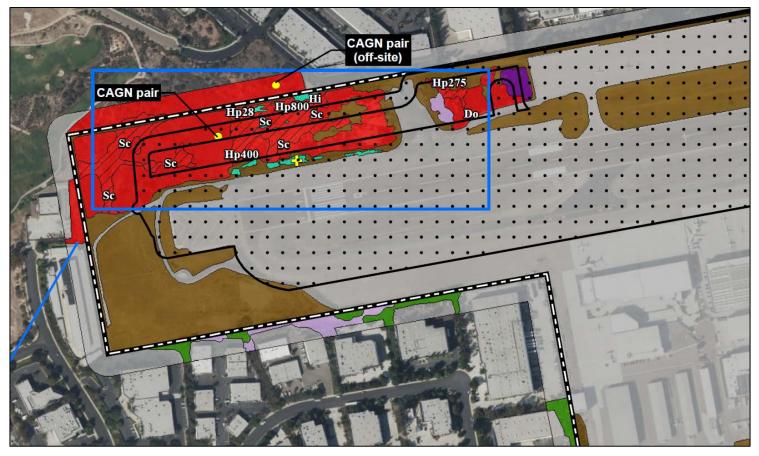




Earthwork in the inactive landfill units requires construction remediation plans in order to mitigate contaminant exposure.

Biological Resources





Removal of native habitat and impacts to birds are a significant impact and will be fully mitigated prior to construction in those areas.

Other Environmental Resource Areas







Draft Master Plan & Program EIR– 60-day Public Review



Documents available at: www.PalomarAirportMP.com

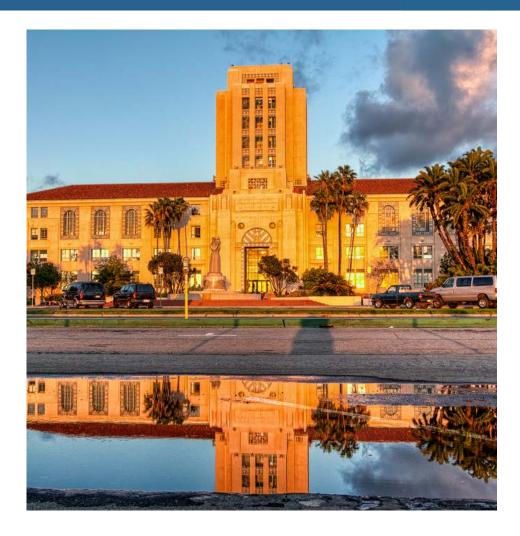
Public Review Period: January 18-March 19, 2018

Comment Submittal:

County of San Diego Attn: Cynthia Curtis 5510 Overland Avenue, Suite 410 San Diego, CA 92123

PalomarMP@sdcounty.ca.gov

Next Steps



- Develop written responses to Public Review comments on the Draft Program EIR
- County Board of Supervisors hearing to consider Master Plan and Program EIR

If approved, airport improvements will occur over time if and when construction funding is identified.

Future Open House and Workshop

Palomar Open House – Feb. 7th

Public Workshop – Feb. 13th





- FAA recommends a Master Plan be updated routinely
- Proposal stays within the existing fence line
- Focus on safety improvements
 - Increase distance between taxiway and runway
 - -Add EMAS
- Option to extend runway
- Continued use of existing airline terminal

Question & Answer

- One question per person
- Respect others and different opinions
- No disruptive behavior or talking over others
- Consider asking in-depth technical questions at stations

Note – Verbal questions are not considered official comments. All Draft Master Plan and Program EIR comments must be in writing.



Questions & Discussion

