

The San Diego Region's Air Transportation *Future*



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Ryan N. Hall, Airport System Planner II San Diego County Regional Airport Authority



Presentation Overview

- The law 1.
- 2. The ballot measure
- 3. The regional asset
- At risk: the regional economy 4.
- Lindbergh's limitations 5.
- SDIA concepts 6.
- Airport site selection process 7.
- Miramar feasibility 8.
- 9. Your questions



The Law

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The authority shall adopt a comprehensive plan on the future development of San Diego's regional international airport. In developing its plan, the authority shall review all options of alternative sites, including, but not limited to

- expansion of the existing airport site
- use of current military installations that may become available for civilian or mix-use
- and other development options available to address future airport needs.





Source: California Public Utilities Code, Section 170048 (h)





The Ballot Measure

On June 5, 2006, the Airport Authority Board adopted a resolution to place the following measure on the November 7, 2006 county-wide ballot:

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To provide for San Diego's long-term air transportation needs, shall the Airport Authority and government officials work to obtain approximately 3,000 of 23,000 acres at MCAS Miramar by 2020 for a commercial airport, provided

- necessary traffic and freeway improvements are made
- military readiness is maintained without expenses to the military for modifying or relocating operations
- no local taxes are used on the airport
- overall noise impacts are reduced
- and necessary Lindbergh Field improvements are completed?





- Tiny Lindbergh Field fuels the regional economy.
- An airport designed to fully meet the region's long-term air transportation needs would fuel the regional economy even more with
 - Visitor spending by air passengers
 - Contribution to the Gross Regional Product
 - Creation of airport-related jobs



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Visitor spending by air travelers



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Airport's contribution to the Gross Regional Product





Airport-related jobs in San Diego County



At Risk: The Regional Economy

- What damage will be done to the San Diego region's economy and residents if future air transportation needs are not fully met?
- A 2005-2035 Airport Economic Analysis projects the following losses if nothing is done: HRA

✓ Lost personal income ✓ Lost Gross Regional Product ✓ Lost jobs



SELECTION PROGRAM

At Risk: The Regional Economy

Job losses in 2035 would be equivalent to some of the region's largest employers



* Percentage of foregone cargo exports using other modes



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Source: 2006 HR&A Airport Economic Analysis

SELECTION PROGRAM

At Risk: The Regional Economy

Losses to the Gross Regional Product in 2035 would approach or exceed the 2004 annual revenues of two of the region's largest public companies



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- Lindbergh Field cannot meet the region's long-term air transportation needs.
- Why not?
 - ✓ Single runway
 - ✓ *Limited-capacity runway*
 - ✓ Small footprint
 - ✓ Geographic constraints

✓ *Limited-capacity runway*

* Due to terrain and other obstructions, only 7,590 feet of SDIA's runway is usable for landings

✓ Geographic constraints

- SDIA sits in a bowl, with terrain obstructions off both ends of the runway
- SDIA has the • steepest approach angles for landing aircraft allowed by the FAA
- Fully loaded 747's bound for Europe or Asia cannot take off from SDIA

Aircraft

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More operations are projected than Lindbergh Field can handle

Palomar Observatory	•Warner Springs	Borrego •Springs
tido Si	anta	Ocotillo
Ramona	sabel An	za weiiso Romano
iardo 📍	Julian	Desert
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y Lakeside		Park
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In four decades (1990-2030) passenger demand at SDIA is projected to *triple*

Palomar Observatory on S dido Y:	Warner Springs anta sabel An	Borrego •Springs Ocotillo za Wells
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Lakesid Santee	e Alpine	Mount Laguna
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ijuana	Tecate	

Nationwide, passenger demand is

projected to increase more than 3% each year

Sources EAA Aprochase Eproporte 2006 2017	AIRPOR
Source: FAA Aerospace Forecasts 2000-2017	SELECTION

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Since 2004, annual percentage growth in passenger volumes at SDIA has surpassed projections

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Sources: SH&E, SDIA, FAA

AIRPORT SITE SELECTION PROGRAM

SDIA Concepts

Numerous concepts examining how Lindbergh Field could be expanded to serve the region's long-term air transportation needs have been thoroughly analyzed.

None have proven feasible without extraordinary community impacts.

SDIA Concepts, 2001 Master Plan

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Airport Site Selection Process

 Comprehensive comparative analysis of all options in the region

Extensive stakeholder involvement

- 32-member Public Working Group suggested criteria and thresholds for potential airport sites

Three technical peer review groups

- Environmental
- Airspace
- Ground Access
- Extensive public outreach & input
- Airports Council International-North America (ACI-NA) peer review
- Transparent & thorough process

Airport Site Selection Process

An airport to serve the region's long-term air transportation needs requires :

- Two runways for simultaneous takeoffs & landings
- 12,000 ft. runways to handle all aircraft types
- FAA-required 4,300 ft. separation between runways for dual independent flight operations
- At least 3,000 acres to address capacity demands
- Efficient mass transit system for airport access
- Ability to serve 35 million passengers 4.300 ft. Runway Separation annually
 - Will accommodate natural population growth of the region

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The Long-Term Solution Airport Site Selection Program

- The Airport Authority is mandated by state law to plan for the Region's long-term air transportation needs.
- Comprehensive comparative analysis of all options in the region
- 32-member Public Working Group suggested criteria and thresholds for potential airport sites
- Three technical peer review groups •
 - Environmental
 - Airspace
 - Ground Access
- Geographic Information System (GIS)-based search identified additional sites

Public Working Group -Criteria and Thresholds

Limiting Criteria	Threshold	Description
Terrain Obstructions – Topography	Significant	Excludes sites that have signific terrain obstructions
Existing Residential Population to be Relocated	No greater than 5,000	Excludes sites causing the reloc of 5,000 or more residents
Existing Noise Impacted Population	No greater than 10,000	Excludes sites resulting in more 10,000 people being impacted b noise
Mitigation Acreage for Coastal Wetlands/ Vernal Tide Pools	No greater than 1,000 acres	Excludes sites requiring more th 1,000 acres to be mitigated
Mitigation Acreage for Wetlands/Marine areas	No greater than 1,000 acres	Excludes sites requiring more th 1,000 acres to be mitigated
Fill required for developing the site	No greater than 100 million cubic yards (net)	Excludes sites requiring more th 100 million cubic yards of fill (ne develop the site

Campo Search Area

Borrego Springs Search Area

The Long-Term Solution Airport Site Selection Program

AIRPORT SITE

Civilian Site Concepts Campo/Boulevard

Civilian Site Concepts Desert Site in Imperial County

Civilian Site Concepts SDIA Concept 6

Steve Breen SAN DIEGO UNION-TRIBUNE

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MCAS Miramar Concept

List of Site Study Elements

- **Meteorological Conditions** •
- **Airport Facilities and** • **Operational Efficiency**
- Joint Use Evaluation •
- Airspace •
- **Ground Access**
- Utilities
- Land Acquisition/Relocation
- Noise
- Air Quality
- Geological/Geotechnical/Seis • mic
- Hydrology •
- Water Quality •
- **Biological Communities**
- **Endangered and Threatened Species**
- Wetlands •
- Floodplains •

- Historical, Architectural, • Archaeological, Paleontological
- Coastal Zone Management
- **Prime/Unique Farmland**
- **Light Emissions**
- **Visual Impacts**
- DOT Section 4(f)
- **Energy Supply and Natural** Resources
- **Solid/Hazardous Waste Handling** •
- Land Use •
- **Community Disruption** ۲
- **Induced Socio-Economic** Impacts
- **Housing Impacts** ۲
- Mitigation
- **Implementation Requirements**
- **Cost Estimates** •

Miramar Feasibility

Five feasibility criteria analyzed

Aeronautical	Environmental	Noise	Market	Military	Fi

- 1. Aeronautical does the site meet basic airport planning criteria?
- 2. Environmental what impact will an airport at this site have on the natural environment?
- 3. Noise how many residents will be impacted by noise from an airport at this site?
- 4. Market how attractive and accessible will the site be to airlines and passengers?
- 5. Military what impacts will an airport at this site have on military operations?
- 6. Financial how much will it cost to build an airport at this site?

Market Accessibility

Most U.S. Airports are located 5 to 20 miles from the City Center

Only Denver (25.4 miles) and Dulles (26.6 miles) are farther than 25 miles

Top U.S. Airports and Potential San Diego Airport Sites **Distance from City Center (in Miles)**

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Airport Site Selection Process

Summary Comparison – Final Sites

	CBS	ICDS	NAS NI/ SDIA	МСВ СР	MCAS Mirama
Aeronautical	Meets need	Meets needs with issues	Major issues	Meets need	Meets nee
Environmental	Issues	Issues	Coastal issues	Issues	Issues
Market	Not acceptable	Not acceptable	Strong	Acceptable	Strong
Military	No military issues	Airspace changes required	Unmitigatable impacts	Joint use appears possible	Joint use appears possible
Financial	Somewhat Questionable	Least viable	Somewhat questionable	Potentially viable	Potential viable

Financial Feasibility

Who Pays?

- No local taxes pay for airport facilities
- Funds come from a variety of outside sources:
 - FAA (ticket tax)
 - Existing passenger facility charge (\$4.50 per ticket)
 - Airport revenue bonds
 - Airlines and concessionaires
- Local taxes may be needed for new transportation infrastructure
 - Additional onramps & offramps
 - Additional roadway lanes
 - Shifting portions of freeways

Stay Informed!

www.san.org/siteselection

Questions?

