

Preliminary Findings – Baseline and Select Scenarios

- Commercial Passenger Optimization
- General Aviation Optimization
- Air Cargo Optimization

Regional Aviation Strategic Plan

San Diego County Regional Airport Authority RASP Subcommittee

September 15, 2010



Presentation Content

Objectives

- 1. Review project progress to date
- 2. Present Baseline findings
- 3. Review Alternative scenarios details (cost estimates, specific enhancements, implementation schedules, timelines, and decision points, etc.)
- 4. Review preliminary findings on select families of scenarios
 - 1. Commercial Optimization
 - 2. Enhanced Utilization of Tijuana
 - 3. California High Speed Rail
 - 4. General Aviation Optimization
 - 5. Air Cargo Optimization

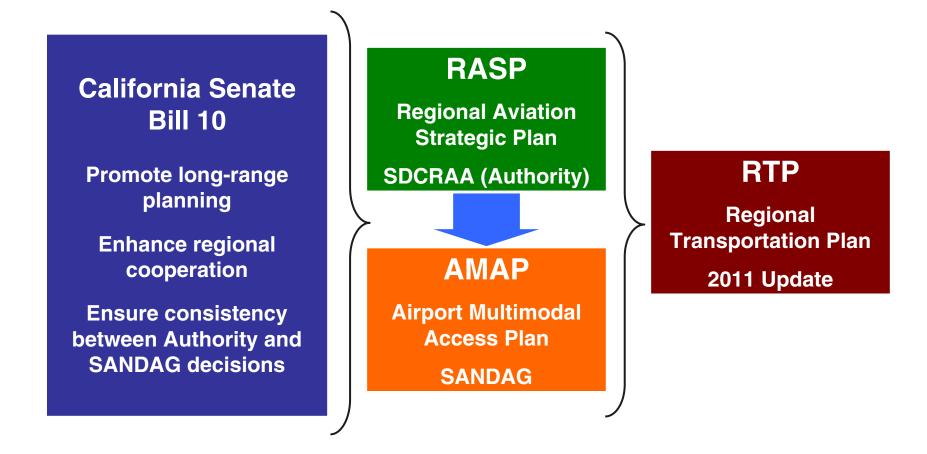
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Regional Aviation Strategic Plan (RASP)

Senate Bill 10 – Multimodal Planning to be Coordinated by SDCRAA and SANDAG





Project Overview

3-Phase Work Plan

Phase I

Data Gathering and Model Development

Spring - Winter 2009

Phase 2

Evaluation of Concepts and Strategies

Spring - Summer 2010

Phase 3

Regional Aviation Strategic Plan

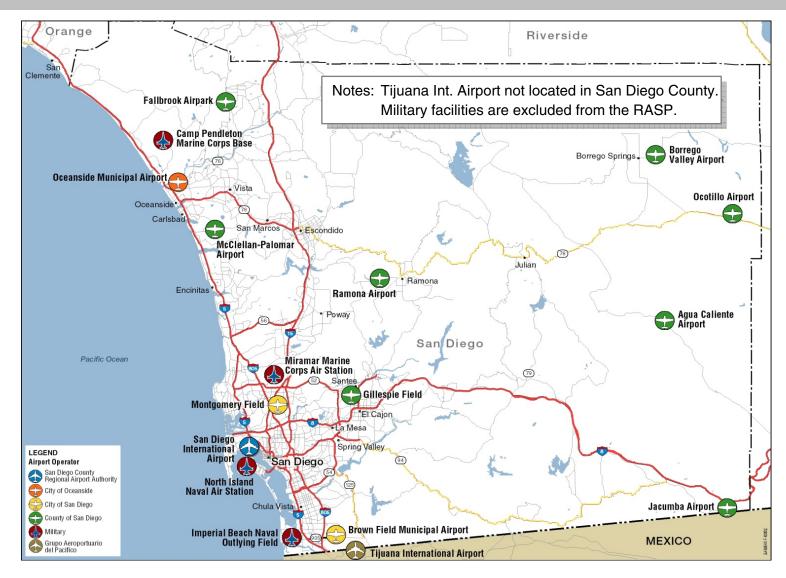
Fall 2010 - Early 2011

Stakeholder and public outreach Task-specific documentation and deliverables

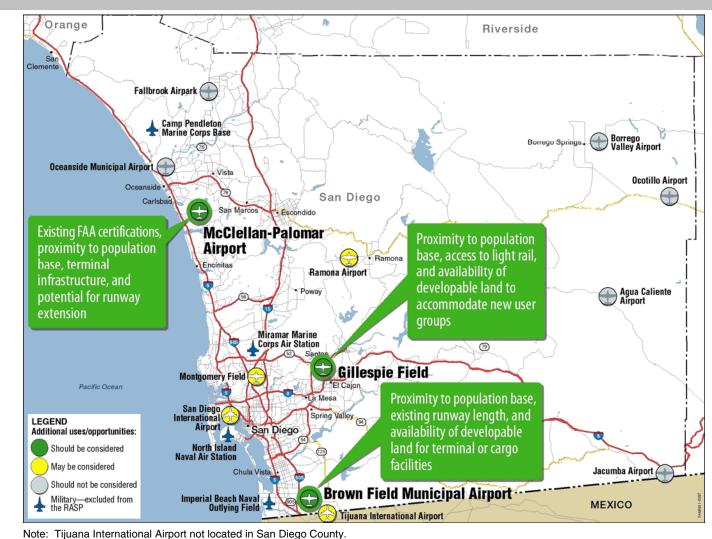


RASP Study Area

12 Public Use Airports Located in a Densely Populated and Developed Region



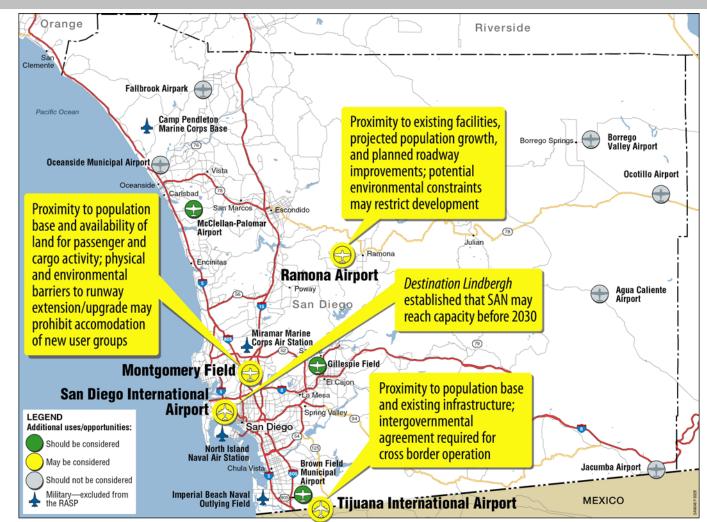
Strategic Assessment Findings



Airports That Should be Considered For Additional Uses/Opportunities



Strategic Assessment Findings



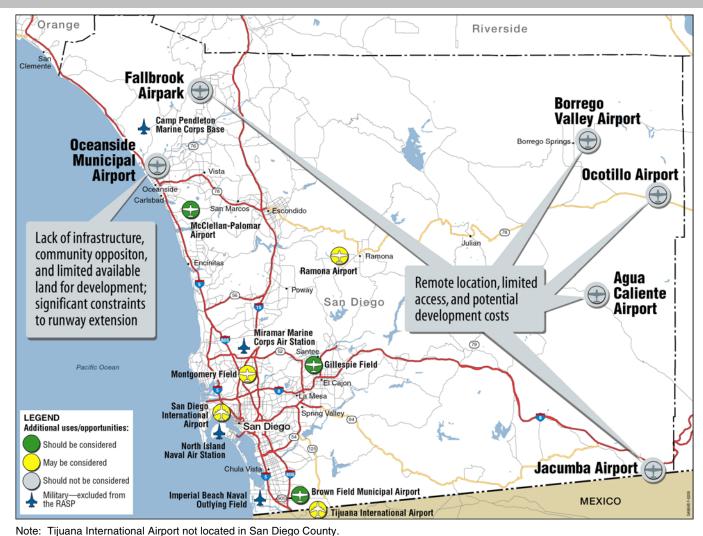
Airports That May Be Considered For Additional Uses/Opportunities



Note: Tijuana International Airport not located in San Diego County.

Strategic Assessment Findings







System Optimization Toolkit

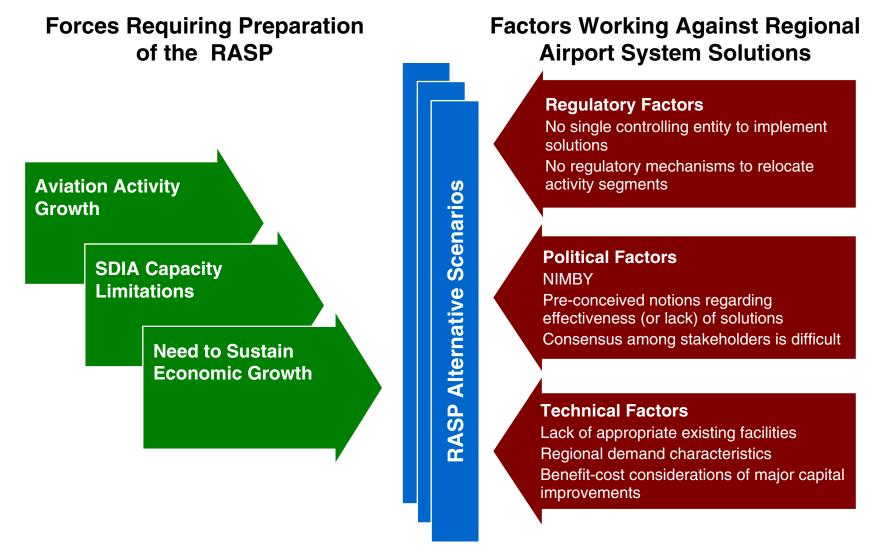
A Wide Range of Options Were Considered in Fall 2009

- Airport capability and/or capacity
 - Runway upgrade or extension
 - Passenger terminal development
 - Cargo facility development
 - GA facility development
 - On-airport access improvements
- Airport market construct facilities to accommodate commercial passenger or cargo activity
- Federal, state and/or local aviation initiatives
 - Congestion management (locally initiated) promote efficient runway use by optimized pricing (depending on goals)
 - Alter rates/charges by user type
 - Induce traffic to other airports
 - Slot controls

- Enhance Tijuana international Airport for U.S.-based travelers
- Changes to surface infrastructure (in coordination with SANDAG)
 - Improve access (link) between airports and regional surface system
 - Enhance the regional system
 - Improve transit services



Complicated Factors Constrain Implementation of Alternatives





Alternative Scenarios

Thirteen Alternative Scenarios for Evaluation of Potential System Changes

1. Commercial Passenger Optimization

- A. Full build-out of the Intermodal Transit Center and north side passenger terminal at SDIA
- B. Preserve SDIA airfield capacity for commercial passenger service
- C. Enhance commercial passenger service at McClellan-Palomar Airport
- D. Introduce commercial passenger service at Brown Field

2. Enhanced Utilization of Tijuana

- A. Tijuana International Airport focus on commercial service
- B. Aviation passenger cross border facility (currently proposed)
- C. Cross border airport terminal

3. California High Speed Rail

Stations at downtown LA, ONT Airport and:

- A. Station at downtown San Diego
- B. Station at SDIA

4. General Aviation Optimization

- A. Enhance McClellan-Palomar Airport for high-end / corporate general aviation
- B. Enhance Brown Field for high-end / corporate general aviation
- C. Enhance Gillespie Field for mix-use general aviation

5. Air Cargo Optimization

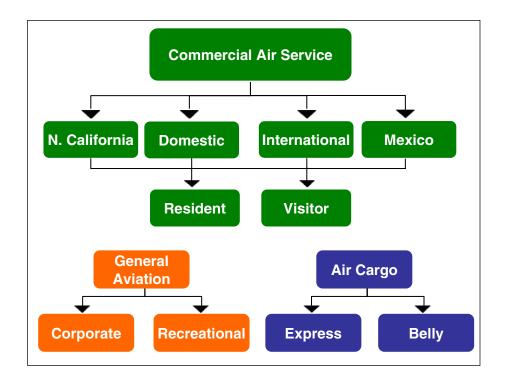
A. Introduce cargo service at Brown Field



Econometric Model and Baseline Findings

Regional Aviation Travel Demand Model

Decision Support Tool to Assess "What If" Scenarios

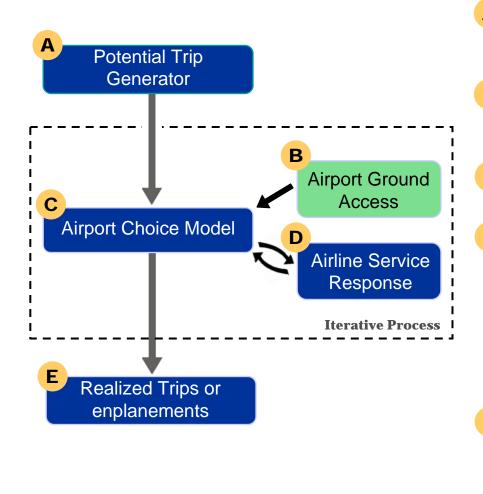


- Estimates demand at each airport from each population / commercial area in the region
- Demand divided among commercial air service, GA activity, and air cargo operations to account for different "demand drivers"
- Categories further differentiated to capture market nuances
- Demand model benefits
 - Leverages SANDAG Regional Travel Demand Model
 - Synchronize RASP results with SANDAG's regional planning in RTP



Demand Model Framework

Passenger Model Framework



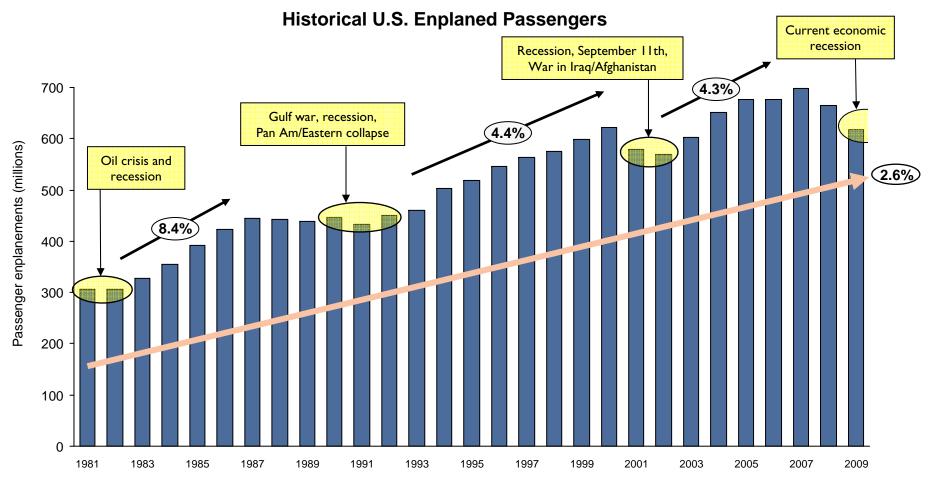
- A Potential Trip Generator Generates potential trips from each population/commercial area within the San Diego region
- **B** Airport Ground Access Identifies the mode, travel time, and cost to get from a population/commercial area to an airport
- **C** Airport Choice Model Determines the airport to which each a generated trip is assigned
- D Airline Service Response Predicts airlines' air fare and service response due to changing demand



E Realized Trips – Quantified as the number of trips (translated to enplanements) once equilibrium between demand and supply is reached (*RASP Model Projection*)

Historical Trends in Commercial Aviation Activity

Following Each Crisis, Aviation Activity Has Historically Recovered Quickly



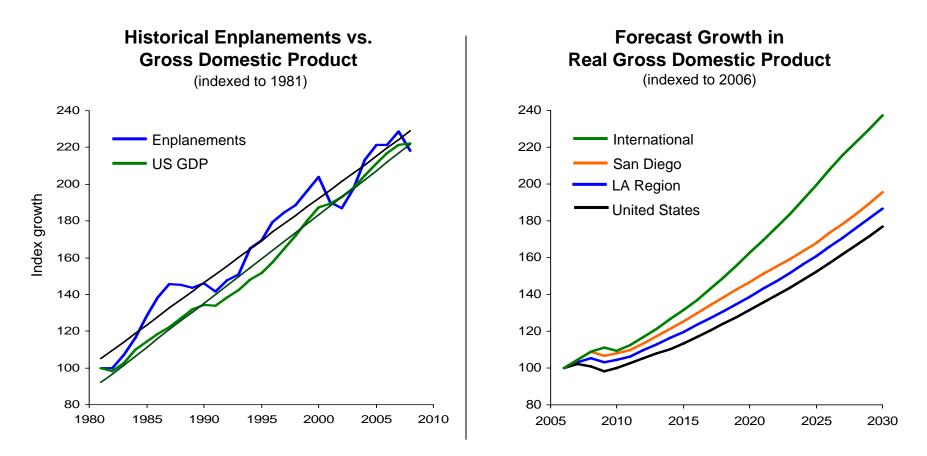
Source: Jacobs Consultancy Analysis, based on T100 Database, Department of Transportation, February 2010.

Note: Year 2009 enplanement is estimated; Database reports only through the 3rd quarter of the year 2009.



Passenger Enplanements and GDP Growth

A Strong Recovery From the Current Recession is Predicted for the San Diego Region



Sources: IMF World Economic Outlook data, October 2009; Los Angeles Economic Development Corporation; Bureau of Economic Analysis data, 2009; SANDAG RTP update, June 2009; and SCAG RTP, 2009.

Notes: GDP growth from 2014 to 2030 estimated based on historical and forecast data available through 2014 International GDP represents an aggregated GDP of countries that influence international traffic to/from the study region.

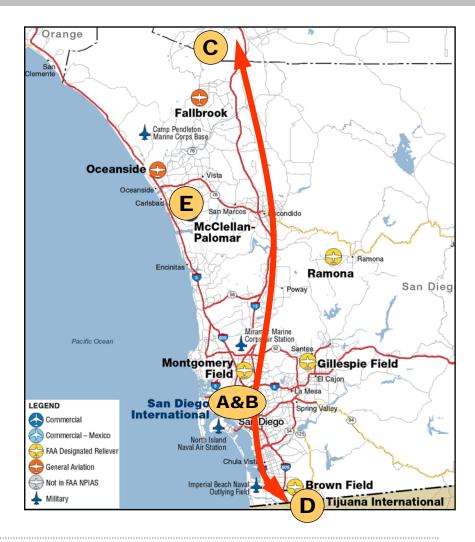


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Baseline Scenario Overview

The "Do-Nothing" Scenario Against Which Other Scenarios Will Be Evaluated

- A Airfield facility constraints "cap" activity at SDIA at around 28M annual passengers (14M enplanements)
- B Airfield capacity constraint results in higher fares and lower levels of service
- C Accommodation of some San Diego demand at LA region airports
- D Accommodation of some regional demand at Tijuana International Airport
- E Increased commercial service at McClellan-Palomar

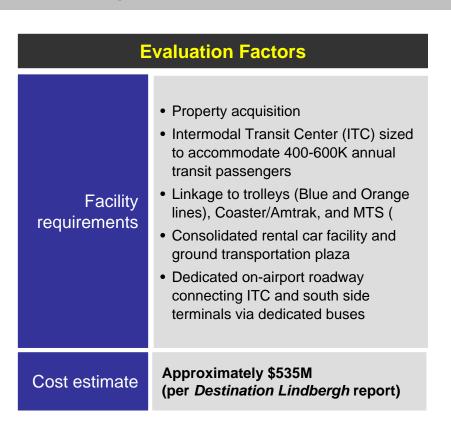




Baseline Scenario

Includes Current SDIA Policies and Planned Near-term Improvements

- Accommodation of existing user groups commercial, cargo, corporate/GA
- Continued nighttime departure curfew
- Destination Linidbergh "Opening Day" recommendations for North Side
- Includes other "approved" or already funded improvements, such as completion of T-2 West 10 gate addition (ongoing; not included in cost estimate)
- Assumes SANDAG transit ridership goal for 2015 of 6% of airport passengers
- Surface improvements per SANDAG's 2007 RTP – "Revenue Constrained Scenario" (not included in cost estimate)





Baseline Scenario

Order of Magnitude Cost Estimates and Potential Funding Sources

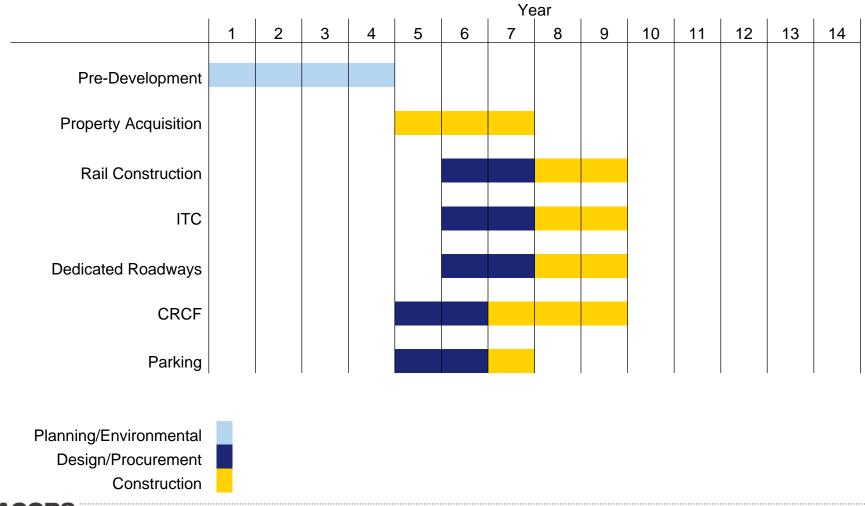
Component	Cost Estimate	Potential Funding Sour	ce
Property Acquisition	\$11 M	PFC/Bonds	
Rail Improvements	\$ 50 M	SANDAG/Bonds	Mix of agencies
Intermodal Transportation Center	\$ 39 M	PFC/Bonds	
Dedicated Roadway	\$ 50 M	Bonds	
Consolidated Rental Car Facility	\$300 M	CFC	SDCRAA
Auto Parking	\$ 85 M	Private/Bonds	
TOTAL	\$535 M		

Notes: Various agencies are responsible for funding and implementing the above projects; not all are the responsibility of the SDCRAA. All costs were taken from Destination Lindbergh and include soft costs and contingency. Costs associated with T2-West Expansion are not included as the project is ongoing.



Baseline Scenario

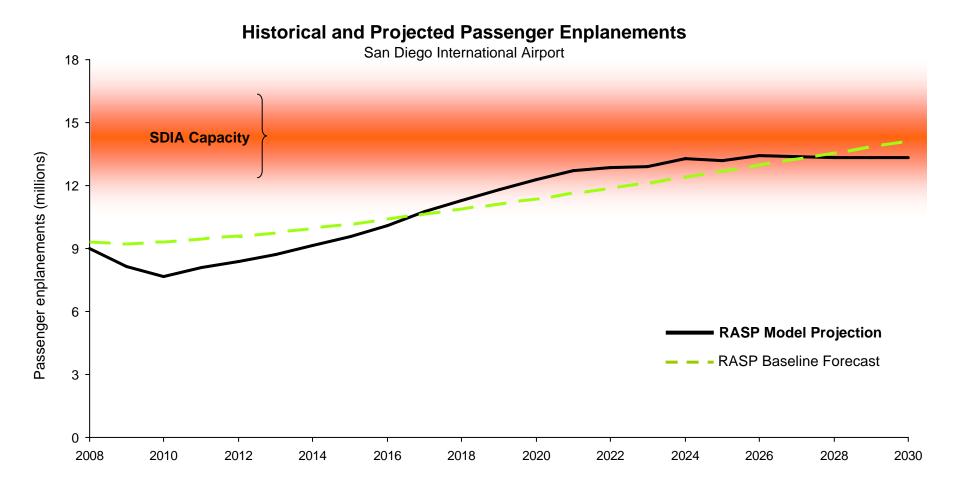
Implementation Schedule





Forecast Comparisons and Model Calibration

Demand Model Indicates Capacity Constraint at SDIA Begins in Early 2020s

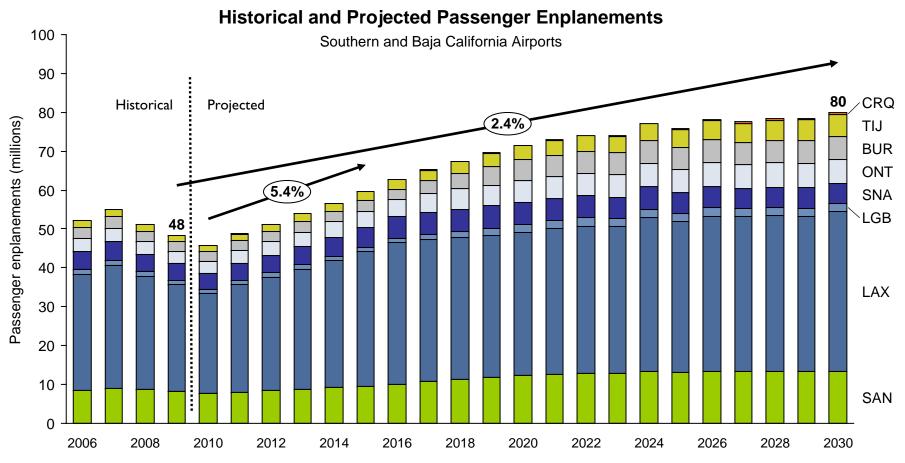


Sources: RASP Forecasts and Financial Forecast Update, Landrum & Brown, Inc. December 2008 and June 2009, respectively. Note: Model calibrated to actual enplanements from 2006 to 2009; projections may be different from actual.



Projected Passenger Enplanements

Enplaned Passengers in the Region are Projected to Increase 50% Between 2009 and 2030



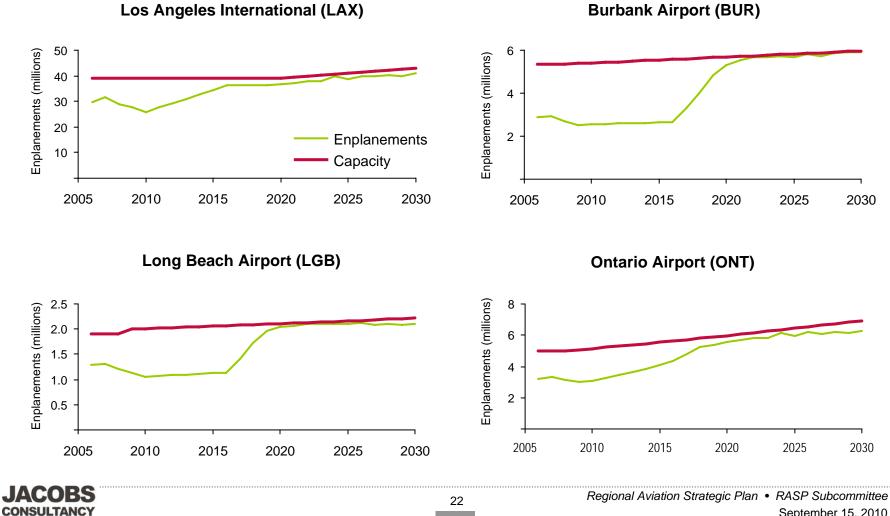
Notes: Passenger enplanements based on forecast demographic data from International Monetary Fund (IMF), LA Economic Development Corporation (LAEDC), and SANDAG Model calibrated to actual enplanements from 2006 to 2009; projections may be different from actual. Results generally correspond to FAA TAF data for 2025.

SAN CAGR = 4.7% in the "recovery"; 2.5% for the forecast period.



Regional Demand / Capacity Analyses

Many Southern Californian Airports Will Also Reach Capacity During the Study Period



September 15, 2010

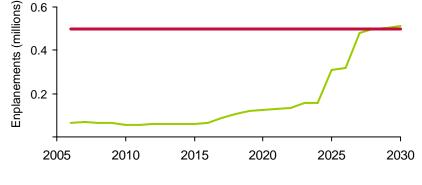
Regional Demand / Capacity Analyses

Tijuana and Palomar Will Accommodate More Demand as LA Airports Reach Capacity

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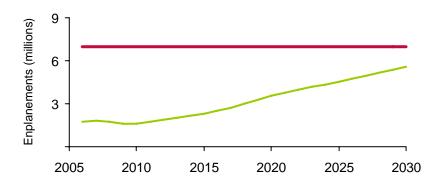
John Wayne Orange County Airport (SNA)

McClellan-Palomar Airport (CRQ)



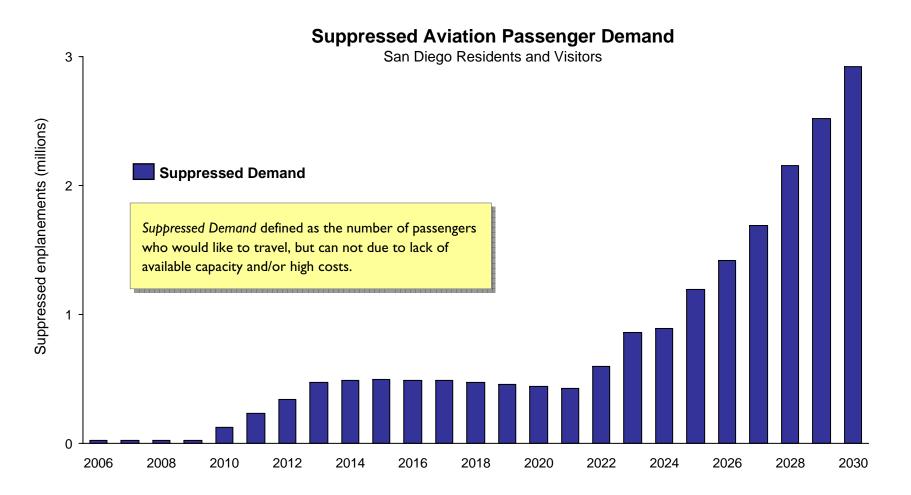
Airport capacities determined individually based on the latest publicly available documents on each airport's website. Capacity increases based on aircraft up-gauging, planned and documented facility improvements, and/or removal of policy restrictions.

Tijuana Rodriguez International Airport (TIJ)



Suppressed Passenger Demand

As Capacity is Reached, the Number of Suppressed Passengers in the County Increases

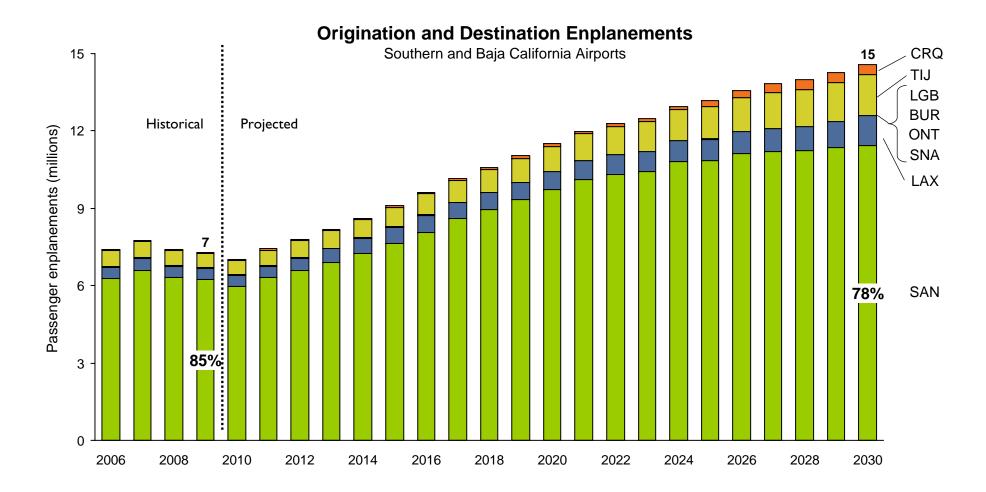


Note: Suppressed demand presented above relative to 2006; some suppressed demand already exists.



Projected Passengers To / From San Diego Region

San Diego Residents and Visitors Will Increasingly Use Airports Outside the County





Summary of Baseline Findings

- SDIA is expected to reach its airfield capacity earlier than previously forecasted; this is a result of model projections that incorporate numerous econometric variables as well as facility constraints
- LAX will continue to serve as the region's international gateway, but will reach its capacity sometime around 2015; this action will cause other airports in the LA region to reach capacity soon after
- McClellan-Palomar will attract additional passenger demand as SDIA nears capacity; but this is not projected to occur until approximately 2025

- Tijuana International Airport will continue to experience strong growth driven by domestic Mexican traffic, and will become the largest gateway for US-Mexico traffic in the region
- Region-wide capacity constraints will result in:
 - Fare increases
 - Diminished service levels
 - Slight changes in traffic mix
 - "Suppressed" aviation passenger demand



Alternative Scenario Findings

Alternative Scenarios

Findings for Highlighed Scenarios are Presented Herein

1. Commercial Passenger Optimization

- A. Full build-out of the ITC and north side terminal at SDIA
- B. Preserve SDIA airfield capacity for commercial passenger service
- C. Enhance commercial passenger service at McClellan-Palomar Airport
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4. General Aviation Optimization

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- B. Enhance Brown Field for high-end / corporate general aviation
- C. Enhance Gillespie Field for mix-use general aviation

5. Air Cargo Optimization

A. Introduce cargo service at Brown Field

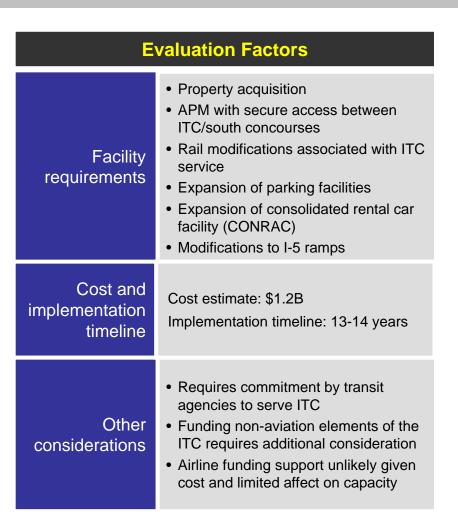


1. Commercial Passenger Optimization Scenario

A. Full Build-out of the ITC and North Side Passenger Terminal at SDIA

Scenario Description

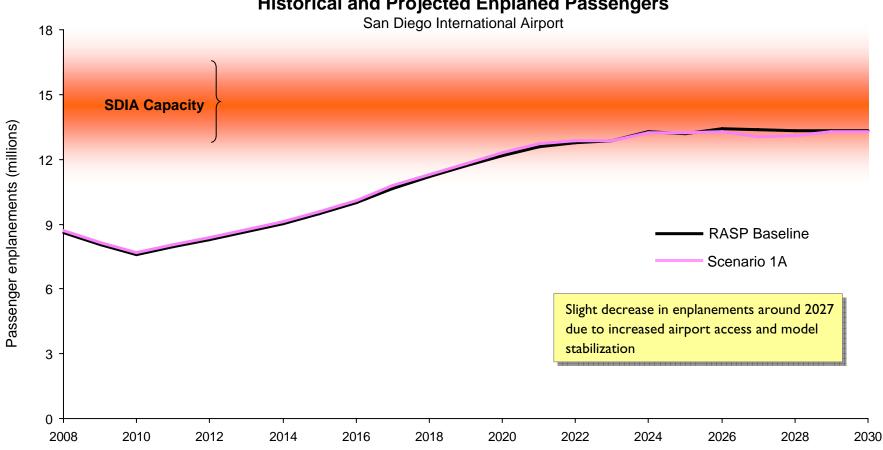
- ITC expanded to accommodate 1.2 1.8M passengers
- North side terminal with passenger processing facilities (ticketing, baggage claim, security, etc.)
- Automated People Mover (APM) connecting north side facilities with south concourses
- Key model assumptions
 - Ground access time/cost estimated as the time/cost required to arrive at the airport terminal, not the actual gate
 - Ground access costs to SDIA assumed to decrease over the planning period due to higher transit ridership and improved access
 - Ground access time to SDIA assumed to remain unchanged (decrease in average ground access time due to roadway access improvements is offset by the increase in average ground access time due to higher transit ridership)





Scenario 1A: Full Build-out of the ITC and North Side Terminal **Comparison to Baseline**

Full Build-out of the ITC Has Marginal Impacts to the Capacity Constraints at SDIA

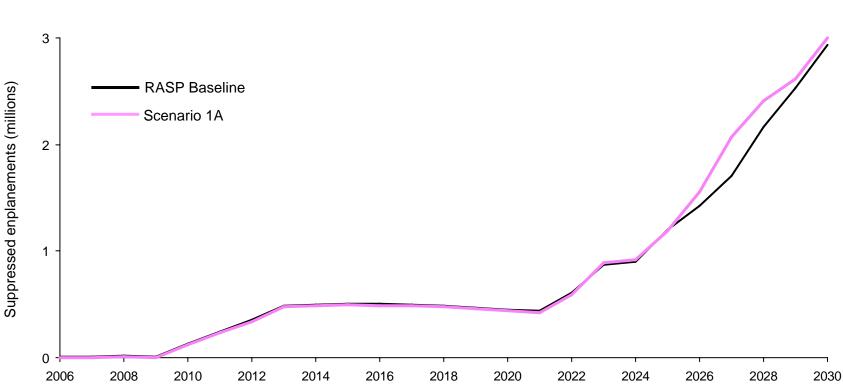


Historical and Projected Enplaned Passengers



Scenario 1A: Full Build-out of the ITC and North Side Terminal Comparison to Baseline

Full Build-out of the ITC Has Marginal Impacts to the Capacity Constraints at SDIA



Suppressed Aviation Passenger Demand

San Diego County Residents and Visitors



1. Commercial Passenger Optimization Scenarios

B. Preserve SDIA Airfield Capacity for Commercial Passenger Service

Scenario Description

- Encourage non-commercial and GA activity to use alternative facilities
- Facilitated via leasing and pricing strategy; would require "coordinated" FBO policy with SDCRAA and other airport sponsors
- Requires SDIA-similar and/or higher level of service facilities at surrounding airports
 - Gillespie: Additional corporate/general aviation facilities (El Cajon development)
 - Montgomery: New FBO, corporate hangars
 - Brown: Elements of proposed private development, including new FBO(s)
- Key model assumptions
 - All forecasted GA and cargo operations at SDIA replaced with commercial operations
 - SDIA capacity limit would increase from 14M to 15.8M enplanements (based on average seat capacity and load factors provided in *Destination Lindbergh* report)

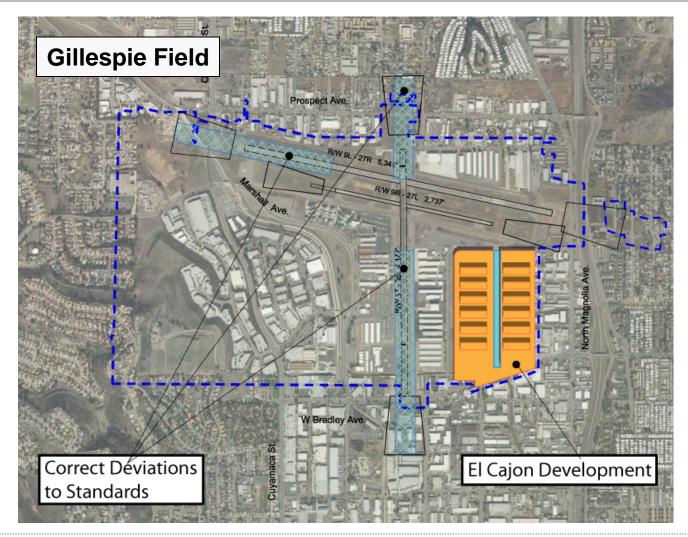
Evaluation Factors				
Facility requirements	 Gillespie Field: Construction of FBO/corporate hangars (El Cajon Development); correct deviations from FAA design standard Montgomery Field: Construction of FBO/corporate hangars Brown Field: Construction of FBO/corporate hangars, T-hangars, helicopter FBO/ARFF (phase 1 of proposed development) 			
Cost and implementation timeline	Cost estimate: \$188M; mostly private funding sources Implementation timeline: 4-5 years			
Other considerations	 Potential legal scrutiny based on perceived access restrictions No legal mechanism to require GA or cargo users to vacate SDIA Runway length at Montgomery and Gillespie Field not capable of handling many high-end corporate GA aircraft 			



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Scenario 1B: Preserve SDIA Airfield Capacity for Commercial Service

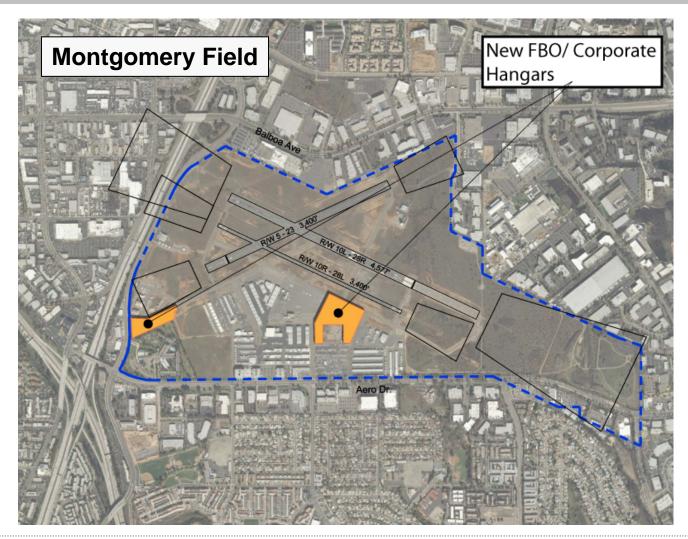
Graphic Depiction and Facility Requirements





Scenario 1B: Preserve SDIA Airfield Capacity for Commercial Service

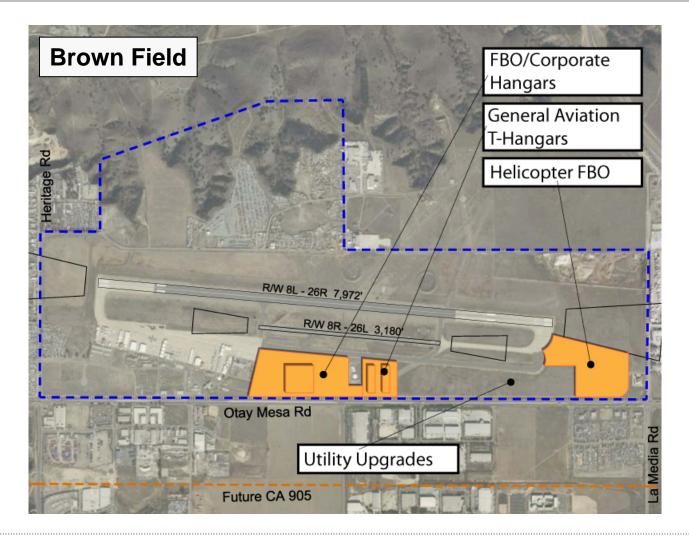
Graphic Depiction and Facility Requirements





Scenario 1B: Preserve SDIA Airfield Capacity for Commercial Service

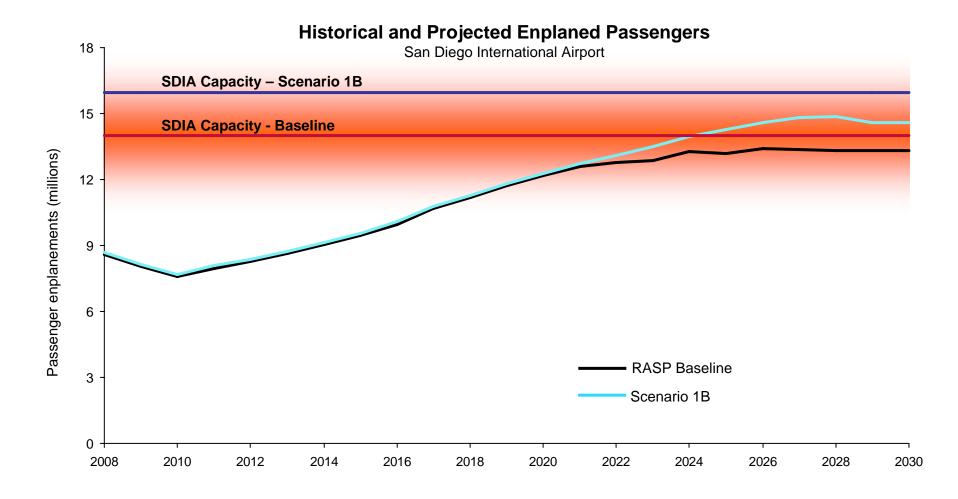
Graphic Depiction and Facility Requirements





Scenario 1B: Preserve SDIA Airfield Capacity for Commercial Service Comparison to Baseline

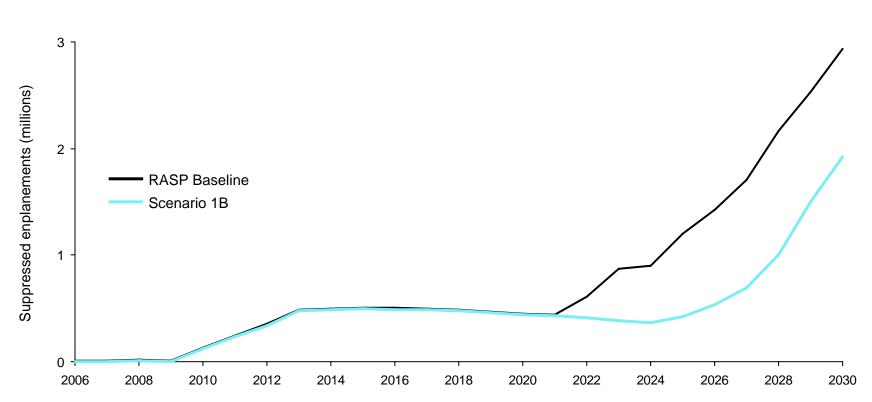
Removing GA and Cargo Operations Delays Capacity Constraint from Approximately 2025 to 2030



JACOBS CONSULTANCY

Scenario 1B: Preserve SDIA Airfield Capacity for Commercial Service Comparison to Baseline

Trend in Suppressed Passenger Demand is Also Delayed Approximately 5 Years



Suppressed Aviation Passenger Demand San Diego County Residents and Visitors

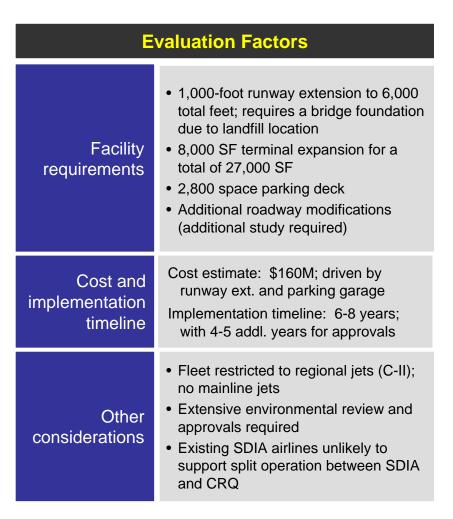


1. Commercial Passenger Optimization Scenarios

C. Enhance Commercial Passenger Service at McClellan-Palomar Airport

Scenario Description

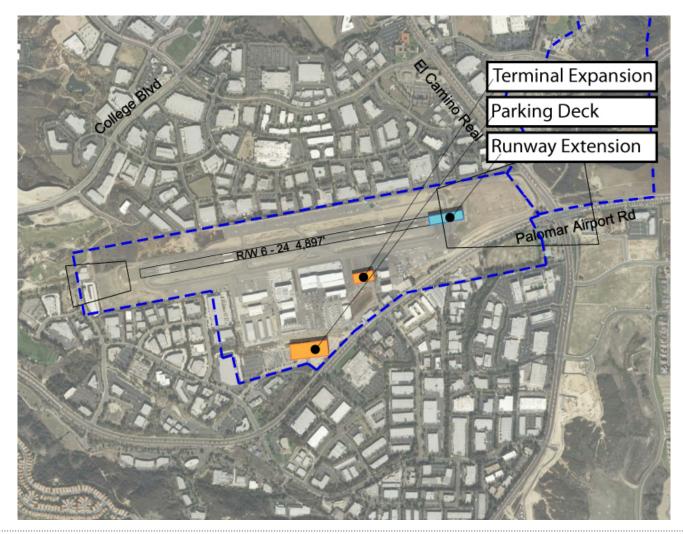
- Provide facilities for multi-carrier commercial service
- Facilitation enhanced via lease incentives and pricing strategies, etc.
- Key model assumptions
 - Airport capacity would be increased from approximately 500K to 750K annual enplanements
 - Non-stop/direct services would be offered to markets within 1,500 mile radius
 - Two subsets of air service "drivers" considered:
 - i. CRQ infrastructure enhancement
 - ii. SDIA capacity limits





Scenario 1C: Enhance Commercial Passenger Service at CRQ

Graphic Depiction and Facility Requirements

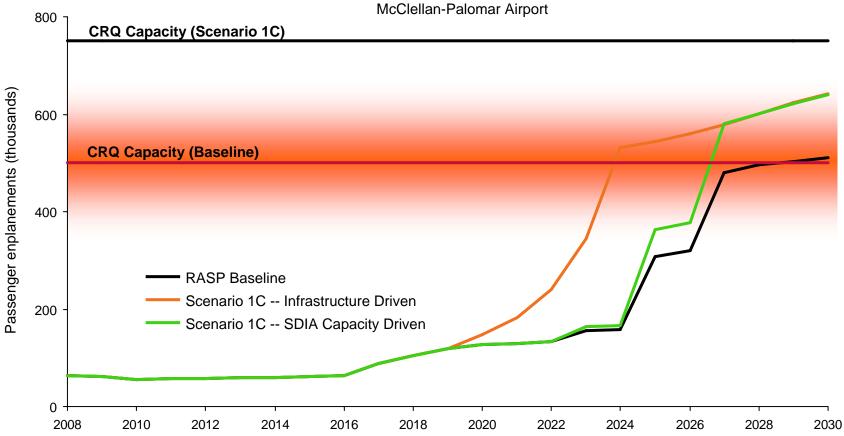




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Scenario 1C: Enhance Commercial Passenger Service at CRQ Comparison to Baseline

Infrastructure Enhancement Stimulates Traffic Growth at McClellan-Palomar

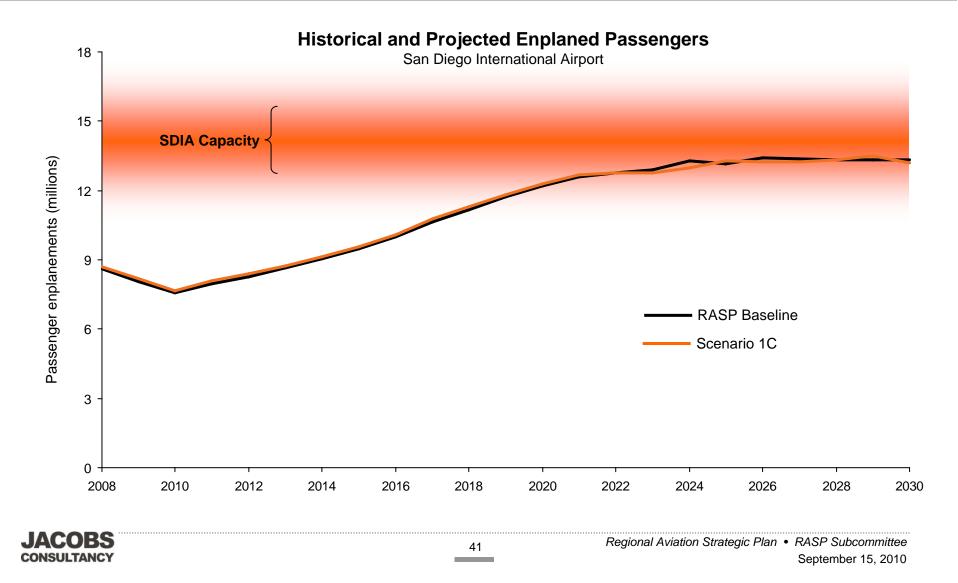


Historical and Projected Enplaned Passengers



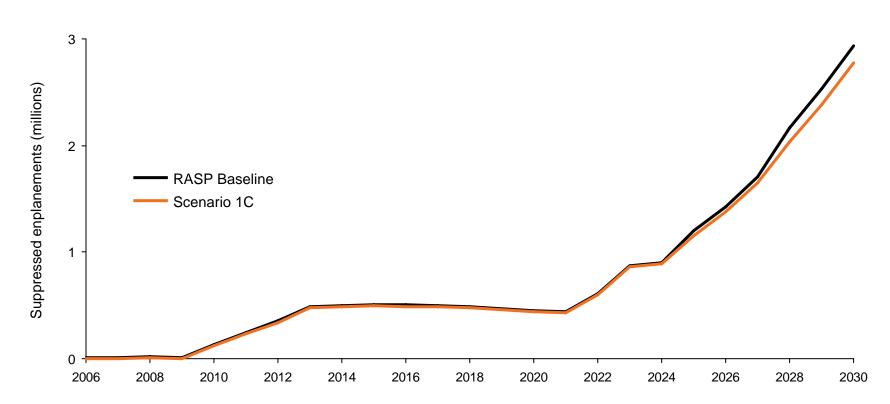
Scenario 1C: Enhance Commercial Passenger Service at CRQ Comparison to Baseline

Increased Commercial Passenger Service Does Not Alleviate Capacity Constraints at SDIA



Scenario 1C: Enhance Commercial Passenger Service at CRQ Comparison to Baseline

Enhancement Allows More Passenger to Travel With Increased Total Regional Capacity



Suppressed Aviation Passenger Demand San Diego County Residents and Visitors



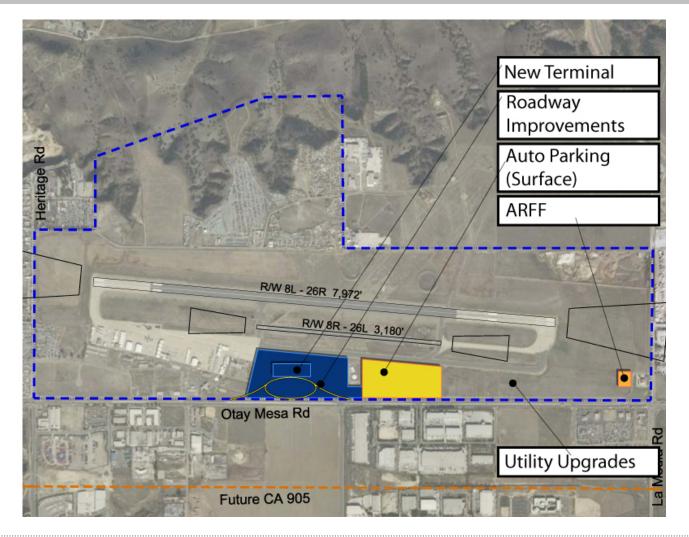
1. Commercial Passenger Optimization Scenarios

D. Introduce Commercial Passenger Service at Brown Field

Scenario Description	Evaluation Factors	
 Provide facilities for multi-carrier commercial jet service to destinations within 1,500 miles of San Diego Facilitated via incentives and pricing strategy; would require "coordinated" policy with SDCRAA and City of San Diego 	Facility requirements	 New passenger terminal building Access/entrance roadway improvements, including connection to highway 2,800 surface parking spaces Facilities for FAR Part 139 certification (e.g., security fencing, fire fighting facilities, etc.) Utility upgrades
Implementation Context I. Airlines unlikely to support split operation between SDIA and SDM; AIP funding predicated on airline agreements	Cost and implementation timeline	Cost estimate: \$100M; driven by utility upgrades and terminal development Implementation timeline: 6-8 years
 Remote location in southern portion of the County is not desirable for commercial passenger operators Limited runway approach capability significantly affects viability Significant public and political opposition anticipated 	Other considerations	 Fleet unrestricted, but most likely regional jet service (<70 seat aircraft) Proximity to commercial service airports negatively impacts viability Terrain and implementation of precision approach

Scenario 1D: Introduce Commercial Service at Brown Field

Graphic Depiction and Facility Requirements





Scenario 1D: Introduce Commercial Service at Brown Field

Scenario Is "Fatally" Flawed

- Precision instrument approaches are infeasible per two FAA determinations (2009 and 2010)
- Precision approach into runway 26R not feasible
 - Extremely high terrain to the north and east
 - Location of the Mexican border
- Precision approach into runway 8L not feasible either
 - Rapidly rising high terrain to the northeast
 - Location of the Mexican boarder restricts missed approach procedure
- Commercial service is unlikely without an instrument approach; AIP funding is predicated on user agreements
- Recommendation Scenario should be omitted from additional consideration



U.S. Department of Transportation Federal Aviation Administration

June 29, 2009

Mr. M.C. Tussey Deputy Director of Airports 3750 John J Montgomery Dr San Diego, CA 92123

Dear Mr. Tussey,

I am writing this letter to follow-up our conversation over the telephone call on 6/26/09 regarding your request to explore the possibilities of developing of a vertically guided Instrument Approach Procedure (IAP) into Runway 8L at Brown Field Municipal, San Diego, CA.

I have conducted a feasibility study for you request and unfortunately your request at the present time is not practical for the following reasons:

- a.) Procedure development criteria require the aircraft to climb straight ahead if a missed approach is executed for a certain distance prior to turning. The distance for the straight ahead climb is determined based on the amount of turn. In this particular instance a left turn of more than 120 degrees is required. This amount of turn would require the aircraft to fly a minimum of 7.3 (NM) from the Runway 8L threshold prior to turning. Due to rapidly rising high terrain, northeast of the airport, it makes this option not possible.
- b.) Secondly and most important, is the close proximity of the airport to the Mexican boarder. Due to the location of the airport in relationship to the Mexican boarder, the direction of the missed approach is restricted to a left turn only, again restricting capabilities due to the high terrain northeast of the field.
- c.) Finally, a procedure into Runway 26R is also not possible due to limited airspace for the procedure and the same problems as mentioned above.

Unfortunately, it would appear that your best option is the minimums published on the current (IAP).

Should you need you have any questions, please do not hesitate to contact Mr. George Reese at (425) 917-6749.

Sincerel Jason E. Pitt Manager



WESTERN FLIGHT PROCEDURES OFFICE AJW-327B 1601 Lind Ave., SW., Room 200 Renton, WA 98057



Alternative Scenarios

Findings for Highlighed Scenarios are Presented Herein



. Commercial Passenger Optimization

- A. Full build-out of the ITC and north side terminal at SDIA
- B. Preserve SDIA airfield capacity for commercial passenger service
- C. Enhance commercial passenger service at McClellan-Palomar Airport
- D. Introduce commercial passengerservice at Brown Field

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- B. Enhance Brown Field for high-end / corporate general aviation
- C. Enhance Gillespie Field for mix-use general aviation

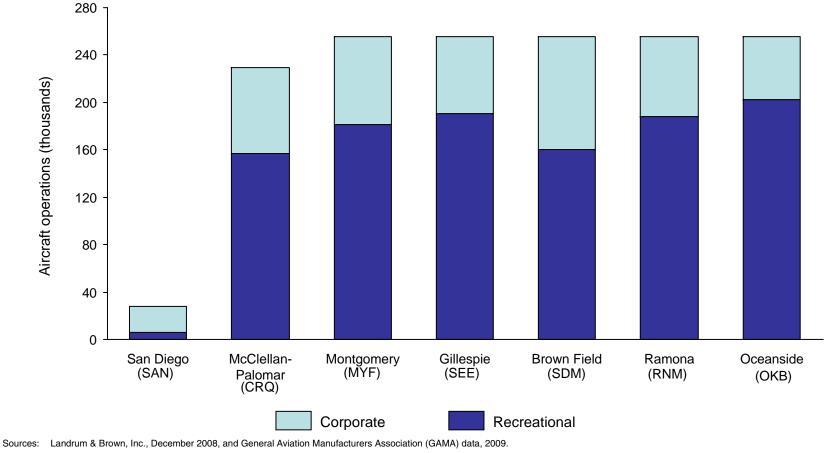
5. Air Cargo Optimization

A. Introduce cargo service at Brown Field



4. General Aviation Optimization Scenarios





Note: Operational frequency of corporate aircraft is assumed to be 2X recreational aircrafts.



4. General Aviation Optimization Scenarios

A. Enhance McClellan-Palomar for High-end / Corporate GA

Scenario Description

- Construct new and convert existing commercial facilities for corporate GA uses (existing terminal would be converted to high-end FBO facility)
- Assumes the Airport would no longer accommodate commercial passenger activity and no additional passenger facilities would be provided
- Facilitated via leasing and pricing strategies; would also require "coordinated" FBO policy with SDCRAA and County of San Diego

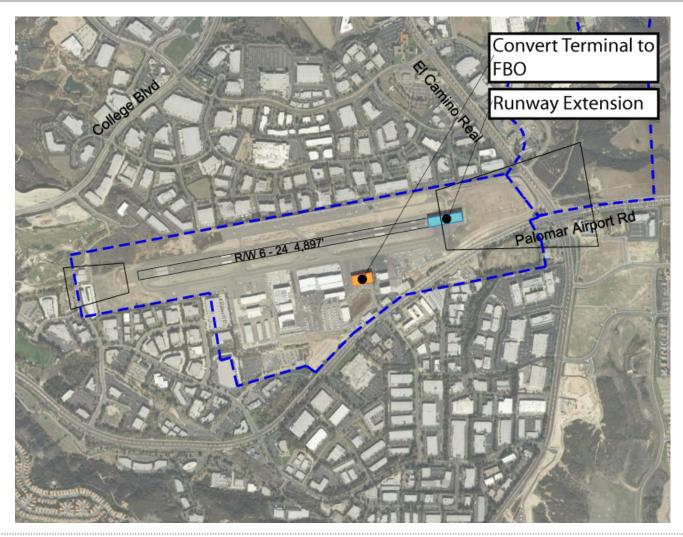
The G-V (corporate jet aircraft) requires 5,910 feet of runway at a max takeoff weight (MTOW) of 91,000 lbs.

Evaluation Factors		
Facility requirements	 1,000-foot runway extension to provide 6,000 feet of departure length Convert existing terminal building into FBO facility 	
Cost and implementation timeline	Cost estimate: \$82M; driven primarily by runway extension Implementation timeline: 5-6 years	
Other considerations	 Eliminates need/costs associated with maintaining Part 139 certification Extensive environmental review and approvals required for runway extension 	



Scenario 4A: Enhance CRQ for High-end / Corporate GA

Graphic Depiction and Facility Requirements





Scenario 4A: Enhance CRQ for High-end / Corporate GA Traffic Shift from Baseline

Potential GA traffic shift to CRQ

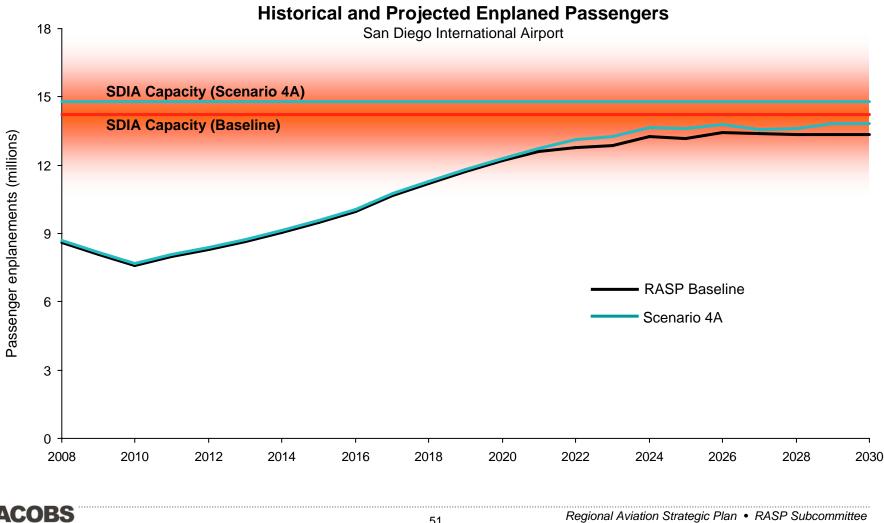
San Diego (SDIA)	Substantial traffic shift due to high congestion at SDIA; significant number of corporate operations would remain due to downtown proximity
Gillespie (SEE)	Some high-end GA traffic may shift due to FBO facility, increased runway length, and ILS
Montgomery Field (MYF)	Some corporate traffic may shift due to FBO facility and ILS
Oceanside (OKB)	No traffic shift since current demand at OKB would not benefit from ILS or longer runway
Brown Field (SDM)	Some corporate traffic may shift due to FBO facility and ILS; however shift likely to be low given 50 mile distance between SDM and CRQ
Ramona (RNM)	No traffic shift since current demand at RNM would not benefit from ILS or longer runway
ACOBS	

CONSULTANCY



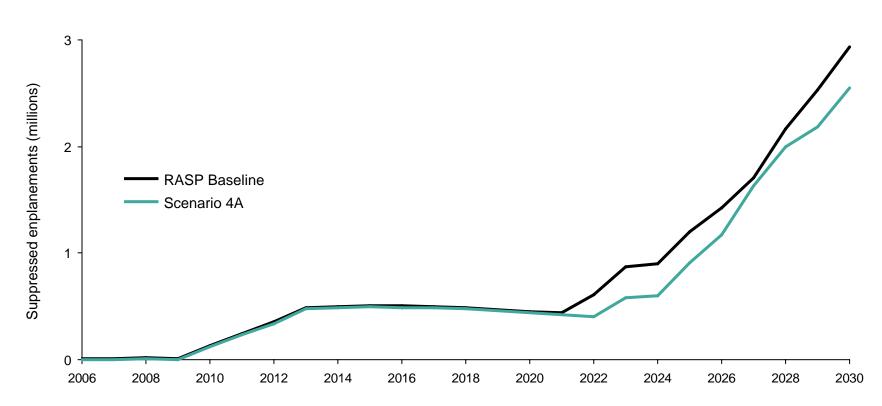
Scenario 4A: Enhance CRQ for High-end / Corporate GA **Comparison to Baseline**

Diversion of High-end GA Traffic to CRQ Delays Capacity Constraint at SDIA



Scenario 4A: Enhance CRQ for High-end / Corporate GA Comparison to Baseline

Enhancement Allows More Passenger to Travel as Total Regional Capacity Increases



Suppressed Aviation Passenger Demand San Diego County Residents and Visitors

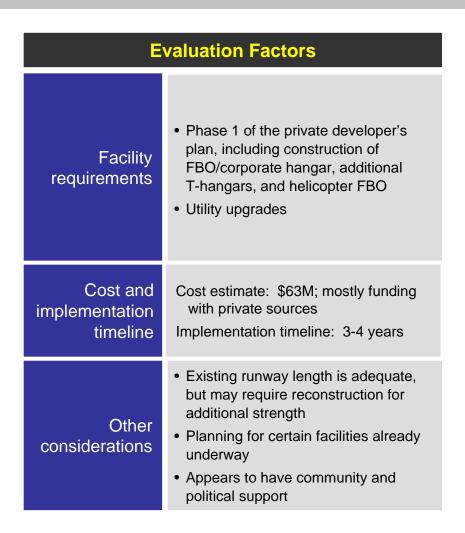


4. General Aviation Optimization Scenarios

B. Enhance Brown Field for High-end / Corporate GA

Scenario Description

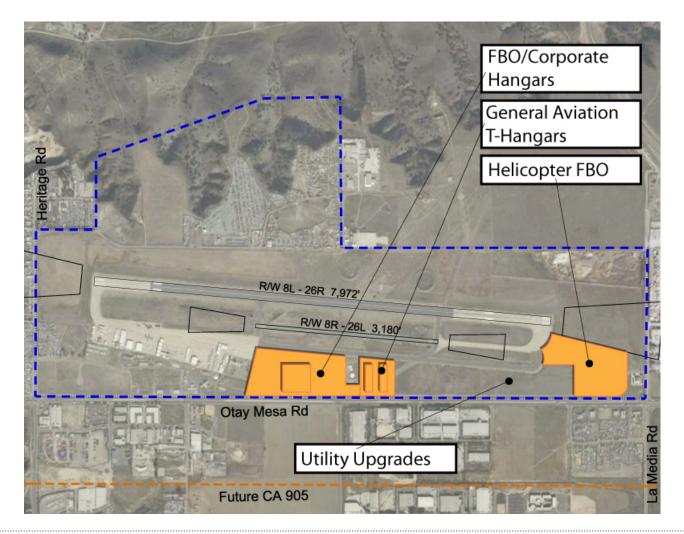
- Construct new and build-out existing facilities exclusively for corporate GA
- Consistent with ALP and proposed private development plans
- Facilitated via leasing and pricing strategies; would also require "coordinated" FBO policy with SDCRAA and City of San Diego





Scenario 4B: Enhance Brown Field for High-end / Corporate GA

Graphic Depiction and Facility Requirements





Scenario 4B: Enhance Brown Field for High-end / Corporate GA Traffic Shift from Baseline

Potential GA Traffic Shift to SDM

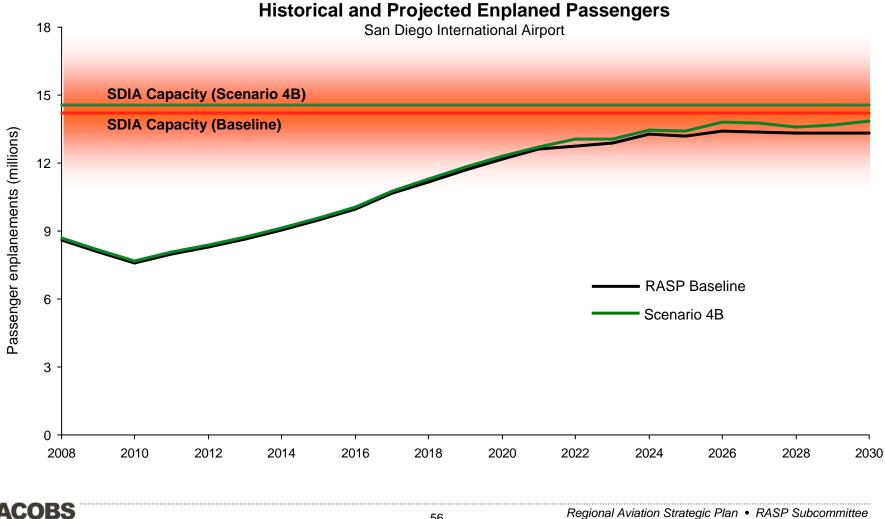
San Diego (SDIA)	Moderate traffic shift due to high congestion at SDIA; significant number of corporate operations would remain due to proximity to downtown and ILS
Gillespie (SEE)	Some high-end GA traffic may be shifted due to FBO facility, but overall shift expected to be minor
Montgomery Field (MYF)	Some corporate traffic may shift due to FBO facility
Oceanside (OKB)	No traffic shift since existing demand at OKB would not benefit from the enhancements at SDM
McClellan- Palomar (CRQ)	Very limited traffic shift for high-end FBO facility
Ramona (RNM)	No traffic shift since existing demand at RNM would not benefit from the enhancement at SDM
JACOBS	

CONSULTANCY



Scenario 4B: Enhance Brown Field for High-end / Corporate GA **Traffic Shift from Baseline**

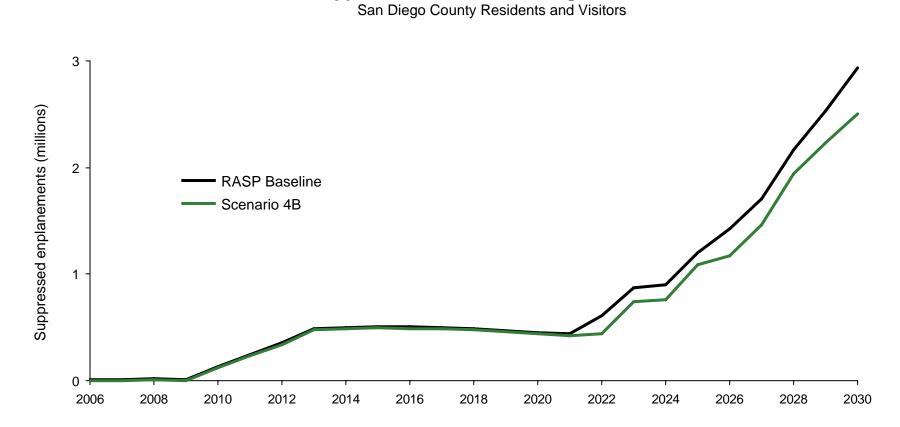
Diversion of High-end Corporate GA Traffic to SDM Delays Capacity Constraints at SDIA





Scenario 4B: Enhance Brown Field for High-end / Corporate GA Traffic Shift from Baseline

Enhancement Allows More Passenger to Travel as Total Regional Capacity Increases



Suppressed Aviation Passenger Demand



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4. General Aviation Optimization Scenarios

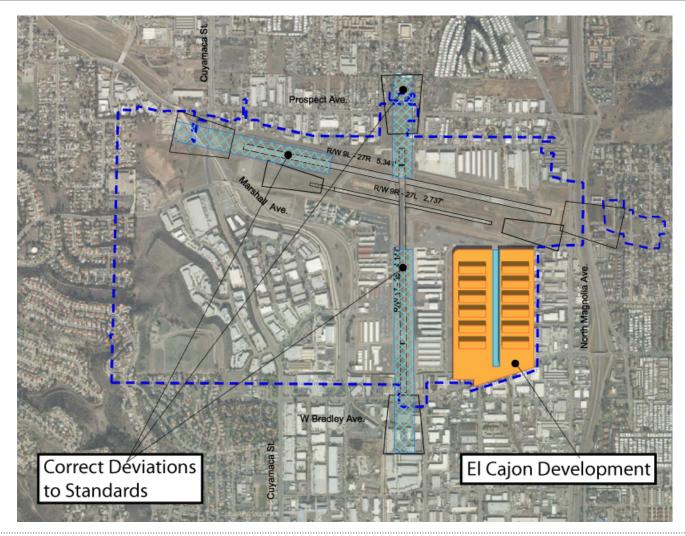
C. Enhance Gillespie Field for Mix-use General Aviation

Scenario Description	Evaluation Factors	
 Build-out of facilities to support corporate and recreational GA activity Assumes implementation of El Cajon Development Facilitated via leasing and pricing strategy; would require "coordinated" FBO policy with SDCRAA and County of San Diego 	Facility requirements	 "El Cajon Plaza" a planned 70-acre development including FBO site, indoor storage hangars, and tie-down space Correct FAA design standard deficiencies Utility upgrades and drainage improvements
Factors Toward Implementation I. Orange and Green Trolley lines provide public	Cost and implementation timeline	Cost estimate: \$90M Implementation timeline: 3-4 years
 transportation between the Airport and downtown San Diego 2. Parallel runways allow segregation of training and itinerant operations 3. Completion of CA 52 extension and interchange with CA 67 improve accessibility 	Other considerations	 Some planning underway Sub-standard airfield separations may be addressed as leaseholds expire or are relocated; no set schedule Environmental approval needed for various projects



Scenario 4C: Enhance Gillespie Field for Mix-use General Aviation

Graphic Depiction and Facility Requirements





Scenario 4C: Enhance Gillespie Field for Mix-use General Aviation Traffic Shift from Baseline

Potential GA Traffic Shift to SEE

San Diego (SDIA)	Moderate traffic shift due to high congestion at SDIA; significant number of corporate operations would remain due to close proximity to downtown
McClellan- Palomar (CRQ)	Some high-end GA traffic shift expected for FBO facility.
Montgomery Field (MYF)	Some corporate traffic shift expected for FBO facility
Oceanside (OKB)	No traffic shift since the existing demand at OKB would not benefit from the enhancement at SEE
Brown Field (SDM)	Some corporate traffic shift expected due to FBO facility
Ramona (RNM)	Some corporate traffic shift expected due to FBO facility
ACOBS	

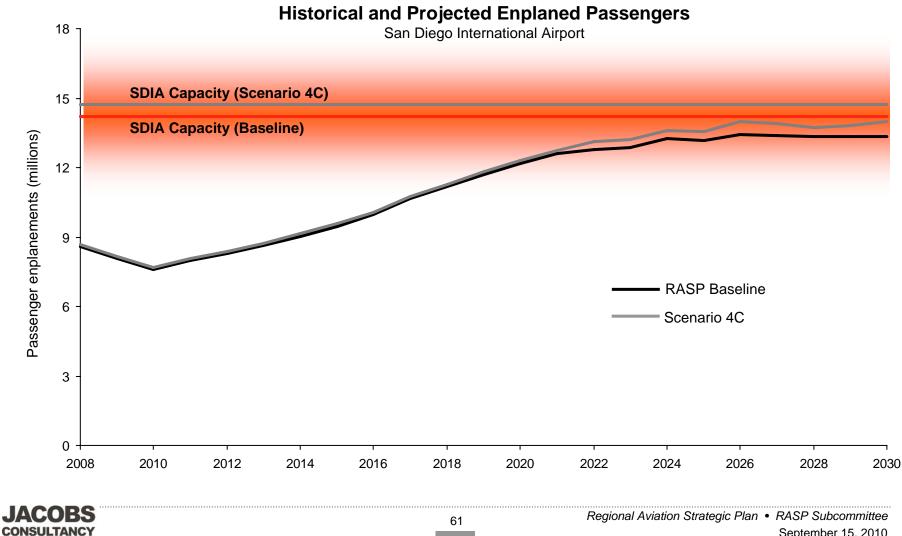
CONSULTANCY



Regional Aviation Strategic Plan • RASP Subcommittee September 15, 2010

Scenario 4C: Enhance Gillespie Field for Mix-use General Aviation **Comparison to Baseline**

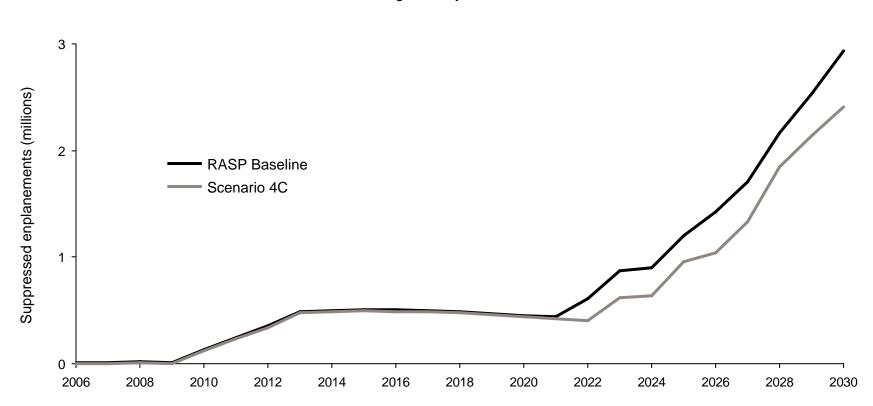
Diversion of GA Traffic to Gillespie Delays Capacity Constraints at SDIA



September 15, 2010

Scenario 4C: Enhance Gillespie Field for Mix-use General Aviation Comparison to Baseline

Enhancement Allows More Passengers to Travel as Total Regional Capacity Increases



Suppressed Aviation Passenger Demand San Diego County Residents and Visitors



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Alternative Scenarios

Findings for Highlighted Scenarios are Presented Herein



. Commercial Passenger Optimization

- A. Full build-out of the ITC and north side terminal at SDIA
- B. Preserve SDIA airfield capacity for commercial passenger service
- C. Enhance commercial passenger service at McClellan-Palomar Airport
- D. Introduce commercial passengerservice at Brown Field

2. Enhanced Utilization of Tijuana

- A. Tijuana International Airport focus on commercial service
- B. Aviation passenger cross border facility (currently proposed)
- C. Cross border airport terminal

3. California High Speed Rail

Stations at downtown LA, ONT Airport and:

- A. Station at downtown San Diego
- B. Station at SDIA

4.

4. General Aviation Optimization

- A. Enhance McClellan-Palomar Airport for high-end / corporate general aviation
- B. Enhance Brown Field for high-end / corporate general aviation
- C. Enhance Gillespie Field for mix-use general aviation

5. Air Cargo Optimization

A. Introduce cargo service at Brown Field



5. Air Cargo Optimization Scenario

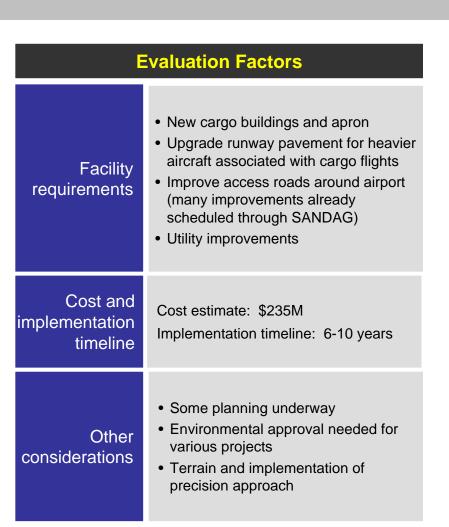
A. Introduce Cargo Service at Brown Field

Scenario Description

- Construction of facilities at Brown Field to accommodate cargo service
- Facilitated via incentives and pricing strategies

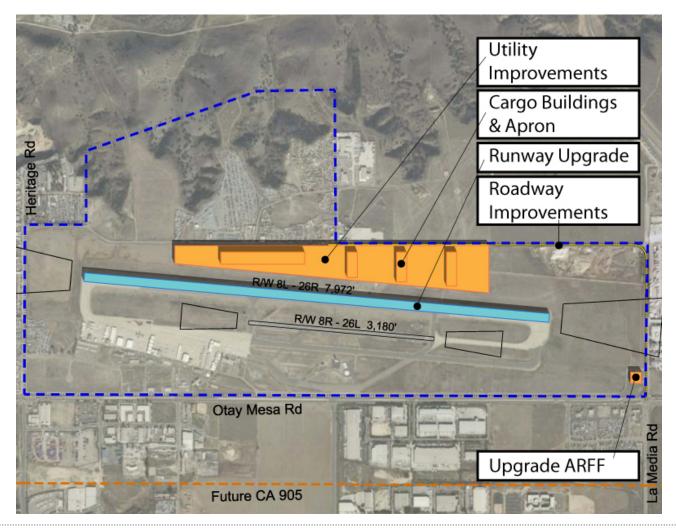
Implementation Context

- Carriers unwilling to operate from facilities south of SDIA due to proximity to sort infrastructure; AIP funding predicated on airline agreements
- Majority of SDIA cargo is accommodated on integrated / express carriers (90%) and originates in or is destined for downtown San Diego
- 3. Limited runway approach capability significantly affects viability
- 4. Lack of nearby cargo infrastructure (e.g., freight forwarders)
- 5. Significant public and political opposition (historic and anticipated)



Scenario 5A: Introduce Cargo Service at Brown Field

Graphic Depiction and Facility Requirements





Scenario 5A: Introduce Cargo Service at Brown Field

Scenario Is "Fatally" Flawed

- Carriers unwilling to operate from facilities south of SDIA due to proximity to sort infrastructure; AIP funding predicated on airline / user agreements
- Lack of nearby cargo infrastructure (e.g., freight forwarders)
- Precision instrument approaches are infeasible per two FAA determinations (2009 and 2010)
- Significant local public and political opposition (historic and anticipated)
- Recommendation Scenario should be omitted from additional consideration

U.S. Department

of Transportation Federal Aviation Administration

June 29, 2009

Mr. M.C. Tussey Deputy Director of Airports 3750 John J Montgomery Dr San Diego, CA 92123

Dear Mr. Tussey,

I am writing this letter to follow-up our conversation over the telephone call on 6/26/09 regarding your request to explore the possibilities of developing of a vertically guided Instrument Approach Procedure (IAP) into Runway 8L at Brown Field Municipal, San Diego, CA.

I have conducted a feasibility study for you request and unfortunately your request at the present time is not practical for the following reasons:

- a.) Procedure development criteria require the aircraft to climb straight ahead if a missed approach is executed for a certain distance prior to turning. The distance for the straight ahead climb is determined based on the amount of turn. In this particular instance a left turn of more than 120 degrees is required. This amount of turn would require the aircraft to fly a minimum of 7.3 (NM) from the Runway 8L threshold prior to turning. Due to rapidly rising high terrain, northeast of the airport, it makes this option not possible.
- b.) Secondly and most important, is the close proximity of the airport to the Mexican boarder. Due to the location of the airport in relationship to the Mexican boarder, the direction of the missed approach is restricted to a left turn only, again restricting capabilities due to the high terrain northeast of the field.
- c.) Finally, a procedure into Runway 26R is also not possible due to limited airspace for the procedure and the same problems as mentioned above.

Unfortunately, it would appear that your best option is the minimums published on the current (IAP).

Should you need you have any questions, please do not hesitate to contact Mr. George Reese at (425) 917-6749.

Sincerel Jason E. Pitt

Jason E. Pitt Manager WESTERN FLIGHT PROCEDURES OFFICE AJW-327B 1601 Lind Ave., SW., Room 200 Renton, WA 98057





Alternative Scenarios

Findings for Highlighted Scenarios are Presented Herein



. Commercial Passenger Optimization

- A. Full build-out of the ITC and north side terminal at SDIA
- B. Preserve SDIA airfield capacity for commercial passenger service
- C. Enhance commercial passenger service at McClellan-Palomar Airport
- -D. Introduce commercial passengerservice at Brown Field

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Stations at downtown LA, ONT Airport and:

- A. Station at downtown San Diego
- B. Station at SDIA



4. General Aviation Optimization

- A. Enhance McClellan-Palomar Airport for high-end / corporate general aviation
- B. Enhance Brown Field for high-end / corporate general aviation
- C. Enhance Gillespie Field for mix-use general aviation

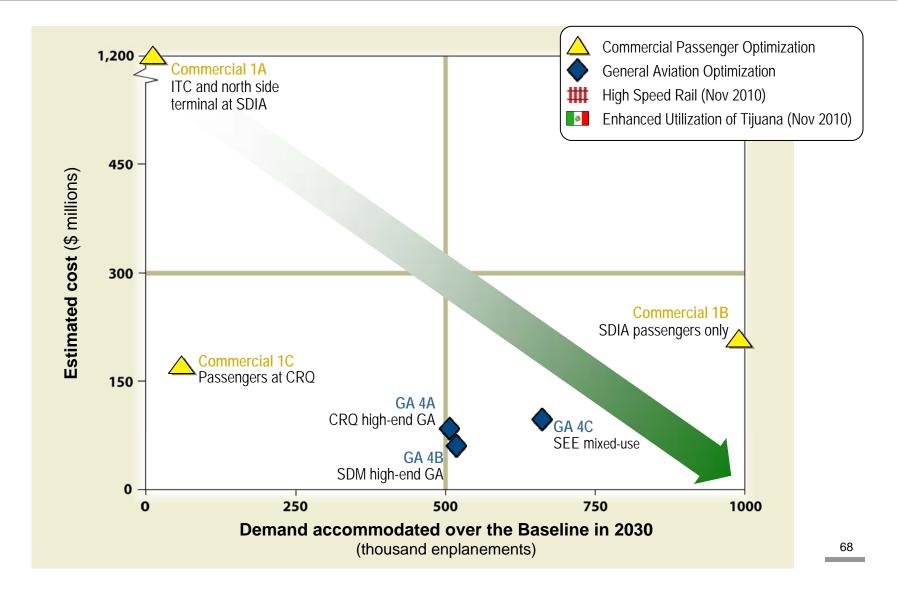
5. Air Cargo Optimization

A. Introduce cargo service at Brown Field



Summary of Findings to Date

Evaluation Matrix Compares Relative Costs and Benefits



Summary of Findings to Date

There is No "Silver Bullet" in the Scenarios Modeled to Date

- Analyses confirm previous thinking that Scenario 1A: Full build-out of the ITC and north side terminal at SDIA – has little effect on suppressed demand relative to the Baseline; although the scenario provides regional access and other benefits not captured by the model
- Of the scenarios modeled to date, Scenario 1B: Preserve SDIA airfield capacity for commercial passenger service – provided the best performance relative to demand; however, implementation of this scenario would be difficult, at best
- Scenario 1C: Enhance commercial passenger service at CRQ – has little effect on suppressed demand relative to the Baseline

- Both Brown Field alternatives (1D and 5A) are "fatally" flawed and should be omitted from additional consideration
- The GA optimization scenarios (4A, 4B, and 4C) have similar costs and provide nearly the same, but nominal, impact on demand relative to the Baseline
- California HSR and Tijuana utilization scenarios are still under consideration; findings will be presented in the October / November timeframe



Public/Stakeholder Coordination

Public/Stakeholder Outreach

Accomplishments in the First Half of 2010

Stakeholder presentations

- Airport advisory groups
- SANDAG
 - Transportation Committee, March 19, 2010
- Business/community organizations
 - San Diego Concierge Association, February 10, 2010
 - San Diego Regional Economic Development Corporation Investor Breakfast, July 23, 2010
- Elected officials outreach
- Web Page: www.sdrasp.com



Public/Stakeholder Outreach

Upcoming RASP Open Houses

Downtown

- Tuesday, Sept. 14, 2010, 5:30-7:30 p.m.
- San Diego County Regional Airport Authority

North

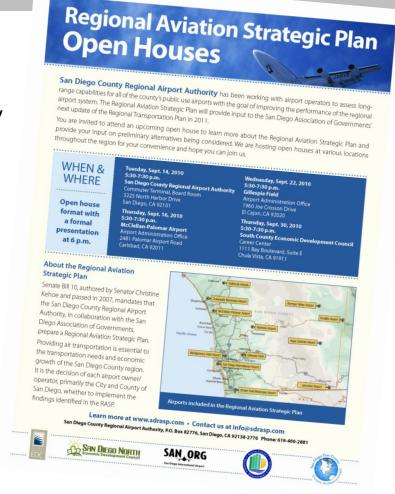
- Thursday, Sept. 16, 2010, 5:30-7:30 p.m.
- McClellan-Palomar Airport

East

- Wednesday, Sept. 22, 2010, 5:30-7:30 p.m.
- Gillespie Field

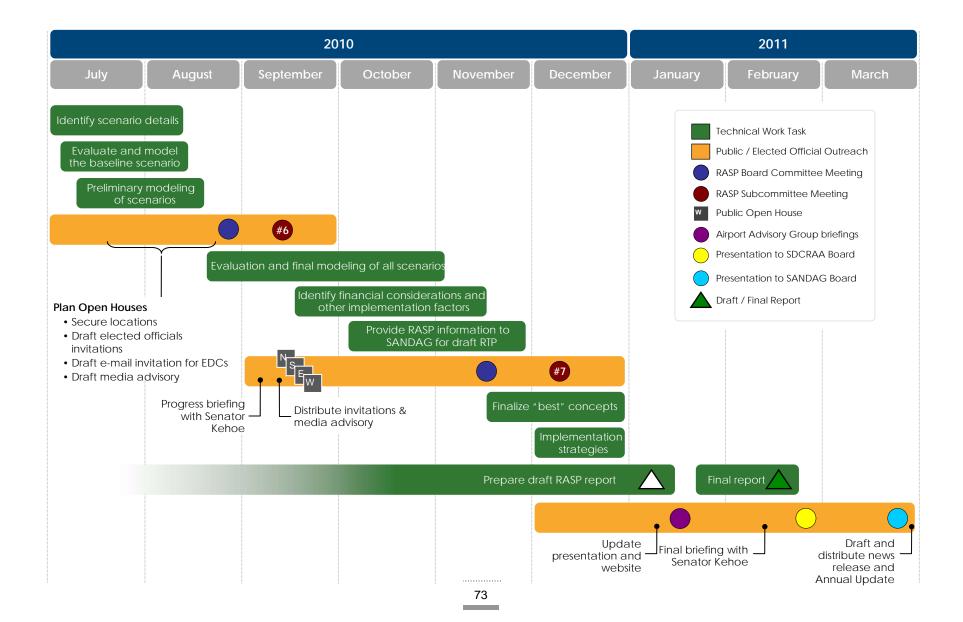
South

- Thursday, Sept. 30, 2010, 5:30-7:30 p.m.
- South County Economic Development Council





Schedule and Work Plan



Scenario Details: Cost Estimates, Funding Sources and Implementation Schedules

Scenario 1A: Full Build-out of the ITC and North Side Terminal at SDIA

Order of Magnitude Cost Estimates and Potential Funding Sources

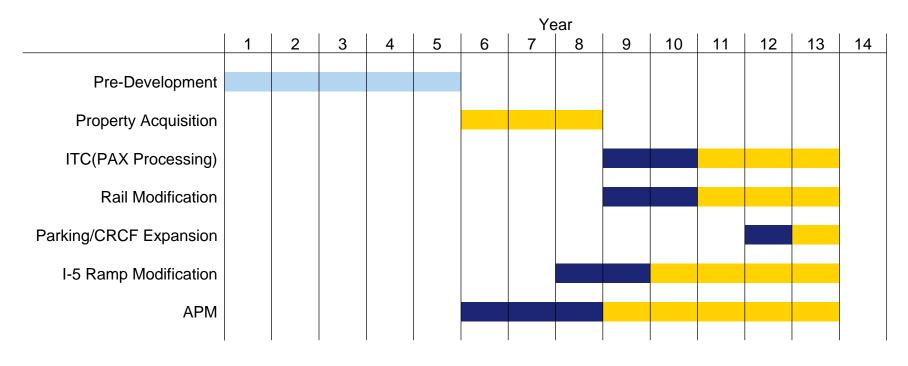
Component	Cost Estimate	Potential Funding Source				
Property Acquisition	\$13 M	PFC/Bonds				
ITC (Passenger Processing)	\$311 M	SANDAG/Bonds/PFC				
Rail Modifications	\$13 M	SANDAG/PFC/Bonds				
Auto Parking Expansion	\$224 M	Private/Bonds				
CRCF Expansion	\$24 M	CFC/Bonds				
I-5 Ramps	\$43 M	SANDAG/Bonds				
APM	\$611 M	PFC/Private/Bonds				
TOTAL	\$1,239 M					

Notes: All costs were taken from Destination Lindbergh and include soft costs and contingency. Construction costs for the APM may be less depending on alignment and grade. Ancillary and enabling projects included.



Scenario 1A: Full Build-out of the ITC and North Side Terminal at SDIA

Implementation Schedule



Implementation Schedule

Planning/Environmental Design/Procurement Construction



Scenario 1B: Preserve SDIA Airfield Capacity for Commercial Service

Order of Magnitude Cost Estimates and Potential Funding Sources

Component	Cost Estimate	Potential Funding Source					
SEE: El Cajon development	\$65 M	Private/Bonds					
Deviations to standards	\$50 M	Private/Bonds/AIP					
Subtotal	\$115 M						
MFY: FBO at Gibbs/Hotel Locations	\$25 M	Private/Bonds					
Subtotal	\$25 M						
SDM: FBO	\$39 M	Private/Bonds					
SDM: T-Hangars	\$3 M	Private/Bonds					
SDM: Helicopter FBO and ARFF	\$6 M	Private/Bonds					
Subtotal	\$48 M						
Grand Total	\$188 M						

 Notes:
 FBO cost estimates based on a range of values provided by SDCRAA.

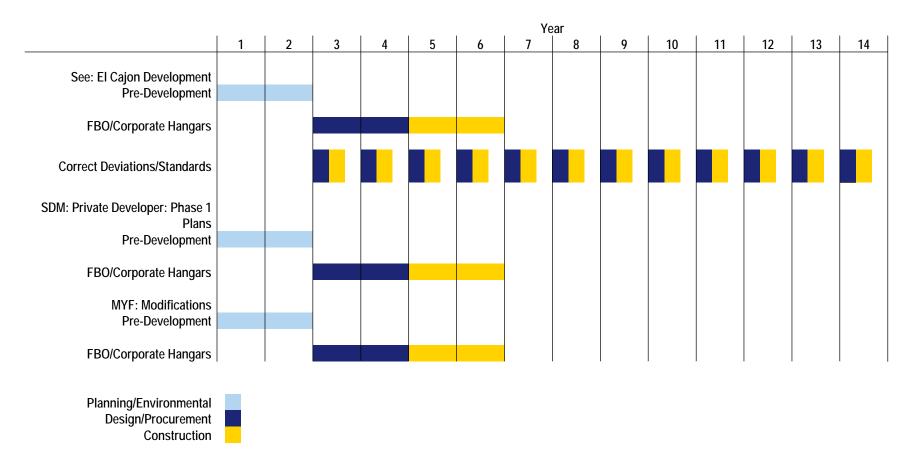
 Private development costs provided by City of San Diego.
 Includes utilities and infrastructure improvements for all development.

 Bonds would be issued by local municipalities or airport sponsors, not SDCRAA.



Scenario 1B: Preserve SDIA Airfield Capacity for Commercial Service

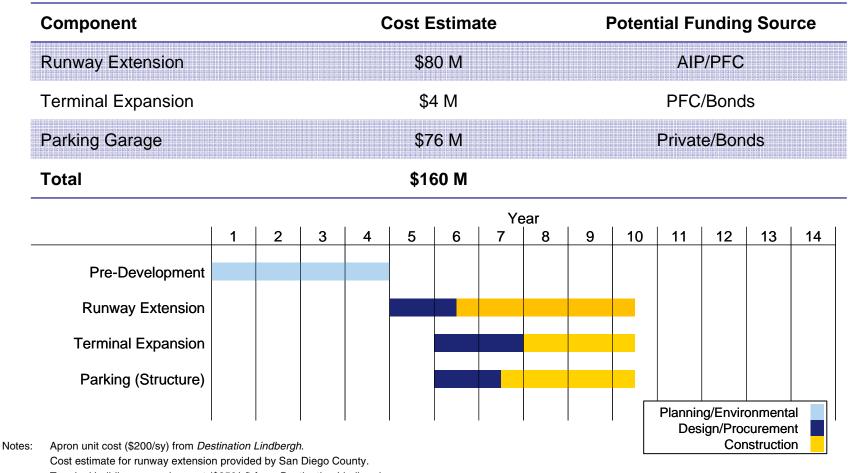
Implementation Schedule





Scenario 1C: Enhance Commercial Passenger Service at CRQ

Cost Estimates, Potential Funding Sources, and Implementation Schedule



Cost estimate for runway extension provided by San Diego County. Terminal building expansion cost (\$350/sf) from *Destination Lindbergh*. Structured parking estimated at \$24,000/structured parking stall.



Scenario 1D: Introduce Commercial Service at Brown Field

Order of Magnitude Cost Estimates and Potential Funding Sources

Component	Cost Estimate	Potential Funding Source
Part 139 Certification (Facilities)	\$9 M	AIP/PFC/Bonds
Passenger Terminal	\$19 M	PFC/Bonds
Roadway Improvements	\$10 M	CalDOT/FHWA/PFC/Bonds
Auto Parking	\$11 M	Private/Bonds
Utilities	\$50 M	AIP/PFC/Bonds
Total	\$101 M	

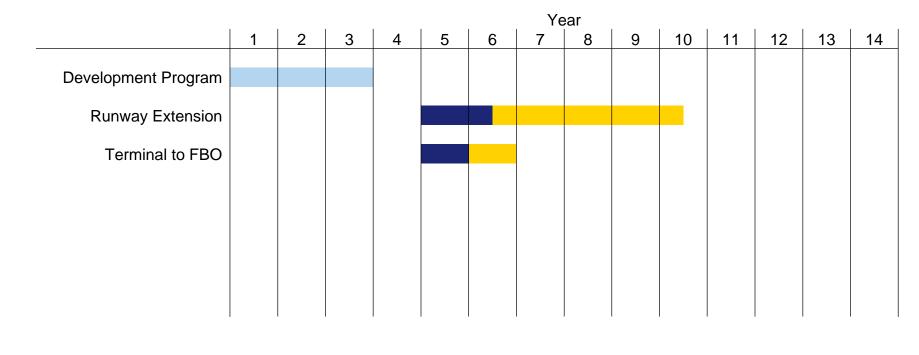
Notes: Apron unit cost (\$200/sy) from *Destination Lindbergh*.

Terminal Building Expansion cost (\$350/sf) from Destination Lindbergh / approximately 28,500 sf per CRQ terminal. Part 139 costs estimated based on upgrades and expenses at CRQ and recent cost at other airports. Surface parking cost (\$4,000/surface stall) from JDA / 2,800 parking spaces based on full build-out for CRQ parking. The 15,500 SY of apron space needed is approximately equal to the space needed to park 6 B737s. Utility costs from City of San Diego (\$50M).



Scenario 1D: Introduce Commercial Service at Brown Field

Implementation Schedule



Implementation Schedule

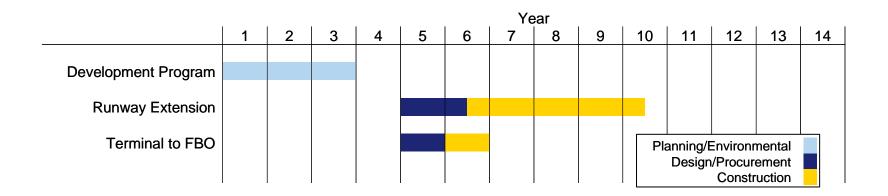
Planning/Environmental Design/Procurement Construction



Scenario 4A: Enhance CRQ for High-end / Corporate GA

Cost Estimates, Potential Funding Sources, and Implementation Schedule

Component	Cost Estimate	Potential Funding Source
Runway Extension	\$80 M	AIP/Bonds
Conversion of Terminal to FBO	\$2 M	Private/Bonds
Total	\$82 M	



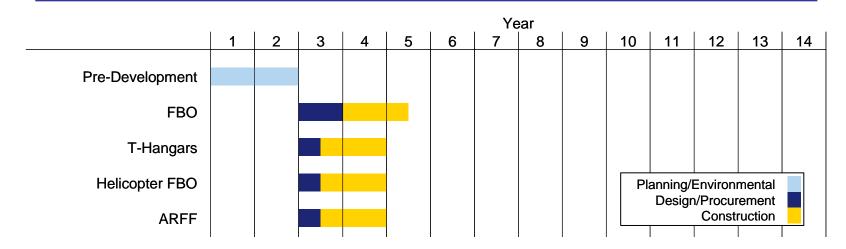
Notes: Cost estimate for runway extension provided by SDCAA. Terminal building conversion cost based on recent projects at other airports.



Scenario 4B: Enhance Brown Field for High-end / Corporate GA

Cost Estimates, Potential Funding Sources, and Implementation Schedule

Component	Cost Estimate	Potential Funding Source
Utility Upgrade	\$15 M	Private/Bonds
FBO/Corporate Hangars	\$39 M	Private
GA T-Hangars	\$3 M	Private
Helicopter FBO/ARFF	\$6 M	Private/AIP
Total	\$63 M	



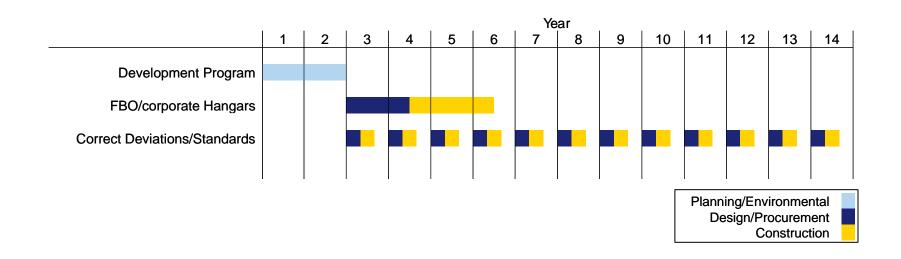
Notes: FBO costs assumed to be between \$25M and \$40M based on recent and planned development costs at local airports. Utility costs from City of San Diego and applied based on 25% development in this scenario



Scenario 4C: Enhance Gillespie Field for Mix-use General Aviation

Cost Estimates, Potential Funding Sources, and Implementation Schedule

Component	mponent Cost Estimate							
El Cajon development	\$40 M	AIP/Private/Local						
Correct Deviations to Standards	\$50 M	AIP/Bonds						
Total	\$90 M							

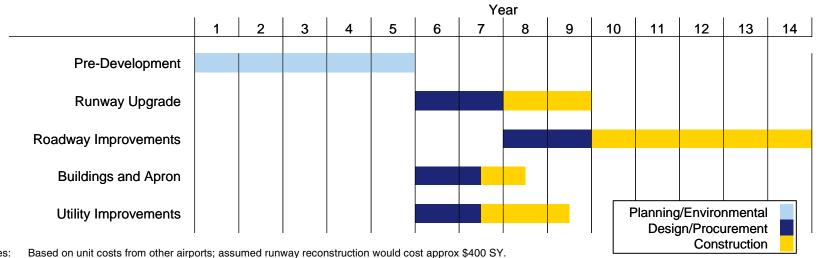




Scenario 5A: Introduce Cargo Service at Brown Field

Cost Estimates, Potential Funding Sources, and Implementation Schedule

Component	Cost Estimate	Potential Funding Source
Runway Upgrade	\$80 M	AIP/Bonds
Roadway Improvements	\$10 M	SANDAG/FHWA/Bonds
Cargo Buildings and Apron	\$94 M	Private/Bonds
Utilities	\$50 M	Bonds
Total	\$234 M	



Notes: Based on unit costs from other airports; assumed runway reconstruction would cost app Cargo apron area was based on existing SF of cargo area at SDIA. Utility costs provided by City of San Diego.



Supplemental Information

Baseline Facilities and Operations Data

	San Di	ego Intern SAN	ational	McClellan-Palomar CRQ			Moi	ntgomery F	ield	Brow	vn Field Mu (SDM)	nicipal	G	illespie Fie SEE	ld		Ramona RNM		Tiju	ana-Rodrig	uez																																					
Airport Activity Statistics				·						·																																																
	Historical		ast 2030	Historical		st 2030	Historical		ist 2030	Historical		st 2030	Historical		st 2030	Historical		st 2030	Historical	Forecas																																						
Annual Enplanements	2007 9.2 Million	(Baseline)	(High) 15.5 Million	2007 46,909	(Baseline) 50,000	(High) 426,200	2007 N/A	(Baseline)	(High) N/A	2007 N/A	(Baseline)	(High) N/A	2007 N/A	(Baseline)	(High) N/A	2007 N/A	(Baseline)	(High) N/A	2007 2.3 Million	(Baseline) 4.4 Million	(High) 6.9 Million																																					
Annual Operations	229,486	309,800	363,400	212,023	268,700	279,900	222,492	271,800		145,661	175,900	281,500	295,652	461,000	489,600	164,699	193,000	242,100	56,200	Approx. 70,000																																						
Regional Forecast Facility Improvement and Operational Assumptions	of new gate auto parking improvemen Continued of jets; replace to larger reg wide body j grows; proje factors. Hig	s, airfield impi g, and roadwants beginning deployment of ment of small jional jets; inci ets as internat ected increase h Scenario enj ects lower fue	y in 2009. f narrow body regional jets reased use of tional activity of load planement	Baseline Scenario assume: SkyWest will continue to serve LAX and replace EMB120 aircraft with CR1200 (or similar) air craft in 2013. Planned 38,000 square feet of new hangar space developed in 2009. High Scenario assumes Runway extension to accommodate CR1200. EMB170. CMB190 and 72-seat Q400 or similar aircraft without restrictions (no indication of length reguired). Markets potentially served in addition to LAX include LAS, PHX, DEN, and SFO.			continue to serve LAX and replace EMB120 aircraft with CR2000 (or similar) aircraft in 2013. Planned 38,000 square feet of new hangar space developed in 2009. High Scenario assumes Runway extension to accommodate CR1200. EMB170. EMB190 and 72-seat Q400 or similar aircraft without restrictions (no indication of length required). Markets potentially served in addition to LAX			continue to serve LAX and replace EMB120 aircraft with (R2)200 (or similar) aircraft in 2013. Planned 38,000 square feet of new hangar space developed in 2009. High Scenario assumes Runway extension to accommodate CRI200, EMB170, EMB190 and 72-seat C400 or similar aircraft without restrictions (no indication of length required). Markets potentially served in addition to LAX			continue to serve LAX and replace EMB120 aircraft with CR2000 (or similar) aircraft in 2013. Planned 38,000 square feet of new hangar space developed in 2009. High Scenario assumes Runway extension to accommodate CR1200, EMB170, EMB190 and 72-seat Q400 or similar aircraft without restrictions (no indication of length required). Markets potentially served in addition to LAX			continue to serve LAX and replace EMB120 aircraft with CR2000 (or similar) aircraft in 2013. Planned 38,000 square feet of new hangar space developed in 2009. High Scenario assumes Runway extension to accommodate CR1200, EMB170, EMB190 and 72-seat Q400 or similar aircraft without restrictions (no indication of length required). Markets potentially served in addition to LAX			ntinue to serve LAX and replace Bil 20 aircraft with CRU200 (or similar) craft in 2013. Planned 38,000 square et of new hangar space developed in 99. High Scenario assumes Runway Insion to accommodate CRU200. Bil 7/0. EMB190 and 72-seat C400 or milar aircraft without restrictions (no dication of length required). Markets tentially served in addition to LAX		ed High Scenario assumes planned 340 acre development in association with Distinctive Projects Company is implemented. Development includes additional hangar capacity to accommodate 290 additional based air craft; full occupancy realized.			High Scenario assumes planned 70 acre Cajon Air Center development is implemented with 55 acres of new aircard's torage hangars; full occupancy realized. Majority of additional based aircard'r would originate from outside San Diego County (a so popsed to other County airports). For ecasts represent unconstrained conditions, and activity levels may exceed current capacity.			developme Center in 20 private han	rio assumes plant of the Ramo 117-2019, inclu gars and 40 pu l occupancy re	na Air ding 56 blic	Not Included in the regional forecast																												
Airport Facilities					No. 11 d. Directo Companyi d																																																					
FAA NPIAS Designation	Large Hu	ub Primary Co	mmercial	Non-Hub Primary Commercial				Reliever			Reliever			Reliever			Reliever			N/A																																						
alifornia Aviation System Plan Designation	Prima	ary Commerci	al Hub	Primar	y Commercial I	Non-Hub	N	Aetropolitan G	iΑ		Regional GA			Regional GA		1	Regional GA			N/A																																						
Total Airport Acreage		661			487			456			880			775			378			1,112																																						
FAA Airport Reference Code		D-V			B-II			B-II			D-IV			B-II		1	B-II			ICAO 4E																																						
Runway Data		9/27 - 9,401			6/24 - 4,897		5/23 - 3,400 10L/28R - 4,577 10R/28L - 3,400 Runway strength limited to aircraft weighing less than 20K lbs.			10L/28R - 4,577 Runway strength li			8L/26R - 7,97 8R/26L - 3,18			9L/27R - 5,341 9R/27L - 2,737 17/35 - 4,147	,	9/27 - 5,000 (Paved)			9/27 - 9,711 10/28 - 8,200 CLOSED		5ED																																			
Instrument Approach	Ru Runv	in way 9: ILS C vay 27 Non-pre	9: ILS CATI Non-precision Runway 24: ILS CATI			Runway 24: ILS CAT I			Runway 24: ILS CAT I			ion Runway 24: ILS CAT I Runway 28R ILS CAT I Non-precision			1	Non-precision			Non-precision				Runway 9: ILS																																			
	Oceanside Municipal OKB																																															Borrego Valley		Ocotillo L90		Agua Caliente L54		Jacumba L78				
Airport Activity Statistics																																																										
	Historical 2007	(Baseline)	ast 2030 (High)	Historical 2007	(Baseline)	st 2030 (High)	Historical 2007	Foreca (Baseline)	st 2030 (High)	Historical 2007	(Baseline)	st 2030	Historical 2007	Foreca (Baseline)	st 2030 (High)	Historical 2007	(Baseline)	st 2030																																								
Annual Enplanements Annual Operations	N/A 14,128	N/A 18,200	(nigh) N/A 36,500	N/A 33,286	N/A 43,200	N/A	N/A 26,251	N/A 22,400	(High) N/A	N/A 800	N/A 800	(High) N/A 	N/A 4,400	(Baseline) N/A 4,400	(High) N/A	N/A 325	N/A 325	(High) N/A 																																								
Regional Forecast Facility Improvement and Operational Assumptions	management of airport; 100 new hangars developed for additional based aircraft.		I forecast Property Ventumanagement hangars devel based aircraft.		ntures will take over nt of airport; 100 new veloped for additional		None Identified			None Identified			None Identifie	d	None Identified None Iden		None Identified		None Identified			None Identified			None Identified			None Identified			None Identified																											
Airport Facilities																																																										
FAA NPIAS Designation		Seneral Aviatio	on		General Aviatio			ieneral Aviatic		1	Not in NPIAS General Aviatio			Not in NPIAS		1	Not in NPIA:		Int	AS = National grated Airpo	rt Systems																																					
alifornia Aviation System Plan Designation Total Airport Acreage		Regional GA 236		1	General Aviatio	n		ieneral Aviatio 246	n	1	General Aviatio	'n		seneral Aviati	on	1	General Aviati 131	on		= Not Applic ecast data— !																																						
				1			1			1						1			Co	inty Regional .	Aviation Strate Forecasts, Lar																																					
FAA Airport Reference Code Runway Data	Run way st weigh	B-I 6/24 - 2,712 trength limited ing less than 1	d to aircraft	Runway s weig	B-l 18/36 - 2,160 trength limited hing less than 1	d to aircraft		B-II 8/26 - 5,011		1	B-I 9/27 - 2,475 (Di 13/31 - 4,210 (D	rt) irt)	Run way st	B-I 11/29 - 2,500 rength limited ing less than 1	to aircraft	Runway s	B-I 25 - 2,510 (Gra trength limited ing less than 1	to aircraft	Bro Air Int Tiju Ter	wn, Inc., Dece port facility da grated Airpor Jana-Rodrigue minal - Market	mber 2008. ata—National t Systems, FAA ez data—Cros t Demand Stud																																					
Instrument Approach		Non-precision			Non-precision	1		Non-precision	1	,	None (visual or	ly)	N	one (visual or	ıly)		None (visual or	ıly)	Infi 20		anagement Gr																																					

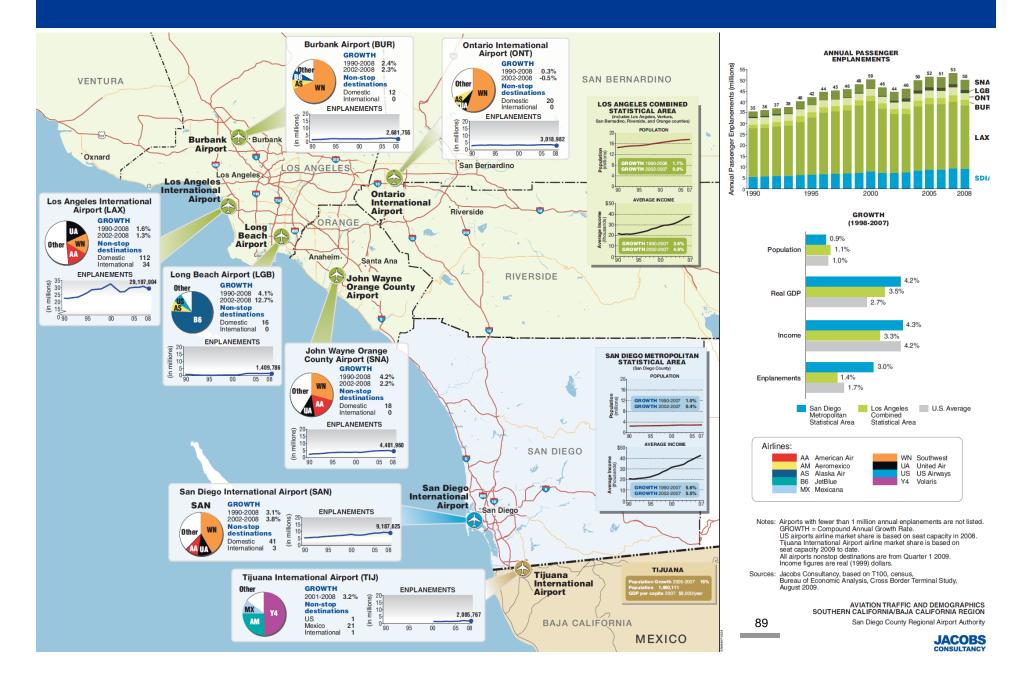
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Strategic Assessment Summary Matrix

	Commercial Service FAA Designated Reliever							General Aviatio	n	1			
	San Diego International SAN	McCiellan- Palomar CRQ	Montgomery Field MYF	Brown Field Municipal SDM	Gillespie Field SEE	Ramona (RNM)	Oceanside Municipal OKB	Fallbrook Community L18	Borrego Valley LO8	Ocotillo L90	Agua Caliente L54	Jacumba L78	Tijuan Rodrigu TIJ
Current Market/Role													
Ownership/Control	San Diego Regional Airport Authority	San Diego County	City of San Diego	City of San Diego	San Diego County	San Diego County	City of Oceanside	San Diego County	San Diego County	San Diego County	San Diego County	San Diego County	U.S./Mexi partnersh
GA - Small/Recreational and Training	-	1	1	~	1	1	~	✓	1	1	1	1	-
GA - Large/Corporate Jet and Air Taxi	✓	1	1	1	1	1	-	-	_	-	-	-	~
Air Carrier - Commuter	1	1	-	_	-	-	-	-	-	-	-	-	~
Air Carrier - Mainline	1	-	_	_	-	-	_	-	_		_	-	~
Air Cargo	1	-	1	_	-	-	-	-	-	-	-	_	_ <i>✓</i>
Facility Assessment/Accommodation of	of Current Users												
Primary Regional Access	1.5 mi from H5	2 mi from 1-5	2 mi from CA 163	3 mi from 1-805	1 mi from CA 67	20 mi from 1-15	2 mi from I+15	10 mi from 1-15	14 mi from CA 78	<1 mi from CA 78	37 mi from 1+8	2 mi from I-8	3 mi from
Airfield- Runway Length	9,401' Paved	4,897" Paved	4.577" Paved 3,400" Paved	7.972' Paved 3,180' Paved	5.341' Paved 4,147' Paved	5,000'Paved	2,712'Paved	2,160'Paved	5,011'Paved	4.210' Dirt 2,475 Dirt	2,500'Paved	2,510'Gravel	9/711° P
Instrument Approach	R/W 9:1L5/CAT1 B/W 27B Localizer	R/W 24: IL5/CAT I	R/W 28R: ILS/CAT1	Non precision	Non precision	Non precision	GP5	Non precision	GPS	None	None	None	R/W 9 ILS/CA 27R Loca
Passenger Terminal Building	41 gates; 16M annual passengers	New terminal w/ 4 gates, 50K annual passengers	None	None	None	None	None	None	None	None	None	None	16 gates; 4M passeng
FB0/Corporate Terminal	Existing	Modern	Existing	Planned	Existing	Existing	None	Existing	Existing	None	None	None	Existin
Cargo Facilities	Existing	None	Limited	None	None	None	None	None	None	None	None	None	Existin
			P	ossible Chan In Role?	ge -				Possible Cha In Role?	nge			
Development Potential													
Proximity to Users/Market Base (a)	3 mi from downtown San Diego	32 mi from downtown San Diego	8 mi from downtown San Diego	20 mi from downtown San Diego	23 mi from downtown San Diego	36 mi from downtown San Diego	40 mi from downtown San Diego	56 mi from downtown San Diego	90 mi from downtown San Diego	95 mi from downtown San Diego	75 mi from downtown San Diego		25 mi fr downtown Sa
Runway Upgrade	Physical constraints	Runway extension to 6.000° possible	Physical and environmental constraints	On- and off-airport land available	Physical constraints	Environmental constraints	Physical constraints	On-Airport land available	Off-Airport land available	Off-Airport land available	Off-Airport land available	Off-Airport land available	Land avai
Airport Land Available for Development	40 acres	Terminal upgrade possible: 10 acres	17 acres	257 acres	191 acres	130 acres Planned	17 acres	45 acres	70 acres	238 acres	N/A	56 acres	166 acr
Proximity to Highway/Mass Transit	Close to 1-5; bus service	Gose to 1-5; bus service	Close to I-805 and I-15; bus service	CA 905 ext. planned	CA 52 extension; link to 2 trolley lines	improvements	Close to I-5; bus service	Access difficult; no mass transit	Access difficult: no mass transit	Access difficult; no mass transit	Access difficult; no mass transit	Access difficult no mass transit	CA 905 exte bus serv
Environmental Concerns/On-Airport	Some contaminated a tes; habitat protection	Environmental contamination	Vernal pools, habitat protection	Vernal pools, habitat protection	Noknown	Extensive vernal pools	No known	No known	Noknown	Noknown	No known :	Noknown	Unknov
Community Concerns	Noise and traffic congestion	Potential noise and development	Aircraft noise	Aircraft noise	Noise and community redevelopment	Potential future residential development	No known	No known	Noknown	No known	Noknown	Noknown	Social and government
				Summary					Summary				
Consideration in the RASP													
Should the airport be considered for additional uses/opportunties to optimize the region's aviation system?	Consideration for additional ucer/opportunities not expected. Destination tin de coph established that SAN will reach capacity before 2020	Consideration for additional user/apportunities should be considered in the RASP because of ensting FAA vertifications, proximity to population base, terminal infrastucture, and potential for runway extension	Consideration for additional user/opportunities, may be considered in the RASP because of proximity to population base and availability of land for passenger and cargo activity, physical and partiers to runway extension/upgrade may prohibit accomd dation of	Consideration for additional userCopportunities should be considered in the RASP because of proximity to population base, existing runway length, and evelopable land for terminal or cargo features	Consideration for additional uncercopportunities should be considered in the RASP because of proximity to population base, access to light rail, and availability of developable land to accommodate new user groups	Consideration for additional user/opportunities may be considered in the RASP because of proximity to existing facilities projected population growth, and planned roadway improvements, potential environmental constraints may restrict development	Consideration for additional user/opportunities should not be considered in the RASP because of lack of infrastructure, community opposition, and limited available land for davidopment; significant constraints to runway extension	Consideration for additional user/opportunities should not be considered in the RASP based on remote location, access, and potential development costs	Consideration for additional unsecopportunities should not be considered in the R&SP based on remote location, access, and potential development costs	Consider ation for additional uses/oppartumines should not be considered in the RASP based on remote location, poor access, and potential development costs	Consideration for additional uses/opportunities should not be considered in the RASP based on remote location, poor access, and potential development costs	Consideration for additional usec/opportunities usec/opportunities considered in the RASP based on remore location, premore location, premore location, potential development costs	Consideration additional user/opportu- may be consi- the RASP bec- proximity to population be existing infrastructure intergovernm agreement re for cross bord operation

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Historical Region-wide Aviation Demand



Existing and Projected Region-wide Aviation Demand

