

#### SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY STAFF REPORT

Item No. 16

Meeting Date: JANUARY 6, 2011

#### Subject:

Progress Report and Informational Presentation on the San Diego International Airport Transit Plan

#### **Recommendation:**

Accept the Progress Report and Informational Presentation on the San Diego International Airport Transit Plan.

#### **Background/Justification:**

An Airport Transit/Roadway Committee was convened in 2005 to assist and advise the San Diego County Regional Airport Authority in the preparation of the San Diego International Airport Transit Plan. Comprised of various transportation and transit agencies, the Airport Transit/Roadway Committee has met to discuss and formulate ways to improve transit access to San Diego International Airport. The Committee has provided extensive input towards the formulation and content of the Airport Transit Plan to enhance modal choices for the public and airport passengers and employees. The invited members of the Committee include the FAA, SANDAG, MTS, NCTD, Caltrans, City of San Diego, Centre City Development Corporation, California Coastal Commission, Port of San Diego, and California State Parks - Old Town.

A goal of the Airport Transit Plan is to increase the existing Airport passenger transit ridership from 1.2 percent to 5 percent. Striving to achieve this goal would increase the regional accessibility and mobility for airport passengers as well as airport employees.

#### Page 2 of 2

After the preparation of an initial Plan with potential programs, the second phase of this Airport Transit Plan (Phase II) continues to develop a multi-modal approach to increasing passenger and employee transit ridership at San Diego International Airport. Phase II has evaluated potential airport employee programs and monitored a demonstration program with an employee express bus to the Old Town Transit Center. Another potential program under analysis focuses on resident passengers that may use remote terminals with parking (referred to as "Park and Fly" or "Flyaway" services) along the Interstate 5 and Interstate 15 corridors. The potential Park and Fly service may consist of long and short-term vehicle parking and buses operating express service from the Airport terminals to remote terminal locations. This type of service is in operation in other regions (such as Los Angeles International Airport) with multiple remote locations that provide parking for passenger vehicles. The analysis to date indicates that remote terminal services along the I-5 and I-15 corridors may serve the highest concentrations of resident passengers as indicated by the criteria of passenger volumes and resident passenger density per square mile.

In addition, the San Diego International Airport Master Plan (which has within it the Airport Transit Plan) is referenced in the Greenhouse Gas (GHG) Memorandum of Understating (MOU) with the California Attorney General to improve air quality and advances the region's efforts to reduce greenhouse gases. Also, the Coastal Development Permit for the Green Build includes several special conditions related to the Airport Transit Plan.

#### **Fiscal Impact:**

This is an information presentation only. Costs for Airport Transit Plan programs, such as remote terminal operations, may be developed in future phases.

#### **Environmental Review:**

- A. This Board action is not a project that would have a significant effect on the environment as defined by the California Environmental Quality Act ("CEQA"), as amended. 14 Cal. Code Regs. §15378. This Board action is not a "project" subject to CEQA. Pub. Res. Code §21065.
- B. California Coastal Act Review: This Board action is not a "development" as defined by the California Coastal Act Pub. Res. Code Section 30106.

#### **Equal Opportunity Program:**

Not applicable.

#### **Prepared by:**

ANGELA SHAFER-PAYNE VICE-PRESIDENT, PLANNING AND OPERATIONS

Item No. 16



## San Diego International Airport Airport Transit Plan - Phase II

**Progress Report** 

January 6, 2011

### SDIA Airport Transit Plan – Phase II Agenda

- Objectives and Overview
- Existing and Planned Transit Systems and Air Passenger Characteristics
- Airport Employee Transit Incentive and Trip Reduction Program
- Express Bus Service to/from Old Town Transit Center
- Remote Parking/Terminal with Express Bus Service



### SDIA Airport Transit Plan – Phase II Presentation Objectives

1. Status Update on the Airport Transit Plan Phase II

2. Next Steps on the Remote Parking/Terminal with Express Bus Service



### SDIA Airport Transit Plan – Phase II Introductions

- Jessica Wyatt, HNTB Corporation
  - 15 years of experience in transportation planning and engineering specializing in airport ground transportation and landside access
  - Conducted numerous ground access studies across the country
  - Managed the traffic impact study for the Airport Master Plan FEIR and the Airport Transit Plan Phase I for SDCRAA

#### Diane Ricard, DMR Consulting

- 25 years of experience in urban transportation specializing in airport ground access
- Co-authored ACRP's Planning Guide for Offsite Terminals and Handbook to Assess the Impacts of Constrained Airport Parking
- Assisted LAWA in the implementation of the Union Station and Westwood FlyAways and Massachusetts Port Authority with the Logan Express Program



### SDIA Airport Transit Plan – Phase II Airport Transit / Roadway Committee

- Airport Transit/Roadway Committee
  - Meets regularly to discuss transit and roadway access to SDIA
  - Provided input and review during the 2008 Master Plan and EIR process
  - Provided input to Regional Transportation Plan (RTP) prepared by SANDAG and Airport Authority
  - Reviewed and provided input on the Airport Transit Plan Phases I and II
- Committee Member Agencies
  - San Diego Association of Governments (SANDAG)
  - North County Transit District (NCTD)
  - California Department of Transportation (Caltrans)
  - Metropolitan Transit System (MTS)
  - City of San Diego
  - Centre City Development Corporation (CCDC)
  - San Diego Unified Port District
  - Federal Aviation Administration (FAA)
  - California Coastal Commission
  - California State Parks Old Town



## SDIA Airport Transit Plan – Phase II Committee Input

#### San Diego Association of Governments (SANDAG)

- GIS mapping, population and income information
- Information on regional rideshare and employee trip reduction programs

#### California Department of Transportation (Caltrans)

- Locations of existing and proposed regional park and ride lots including usage, potential capacity and expansion opportunities
- Location, cost and ownership information on various parcels along the I-5 and I-15 corridors
- Metropolitan Transit System (MTS)
  - Ridership statistics for MTS Routes 992, 923 and Trolley
  - Cost and operational information for Premium Express Bus Service
  - Trolley station parking statistics
- Federal Aviation Administration (FAA)
  - Funding rules for off-site development and direct bus service
- North County Transit District (NCTD)
  - Information on Escondido Transit Center including future development plans



## SDIA Airport Transit Plan – Phase II Purpose / Background

#### Airport Transit Plan Phase I was prepared in 2008

- Identifies opportunities to improve transit access to SDIA
- Sets a goal of increasing airport transit usage to the national average of 4% to 6% of air passengers

#### Airport Transit Plan Phase II initiated in 2009

- Evaluates the feasibility of implementing various transit improvement measures
- Supports the efforts of the 2008 SDIA Airport Master Plan and Final Environmental Impact Report
  - Stated goal of improving transit access to SDIA
  - Coastal Development Permit for Greenbuild requires annual reports on progress of Airport Transit Plan
- In 2009, the SDCRAA selected three improvement measures for further study and feasibility analysis



### SDIA Airport Transit Plan – Phase II Transit Improvements for Further Study

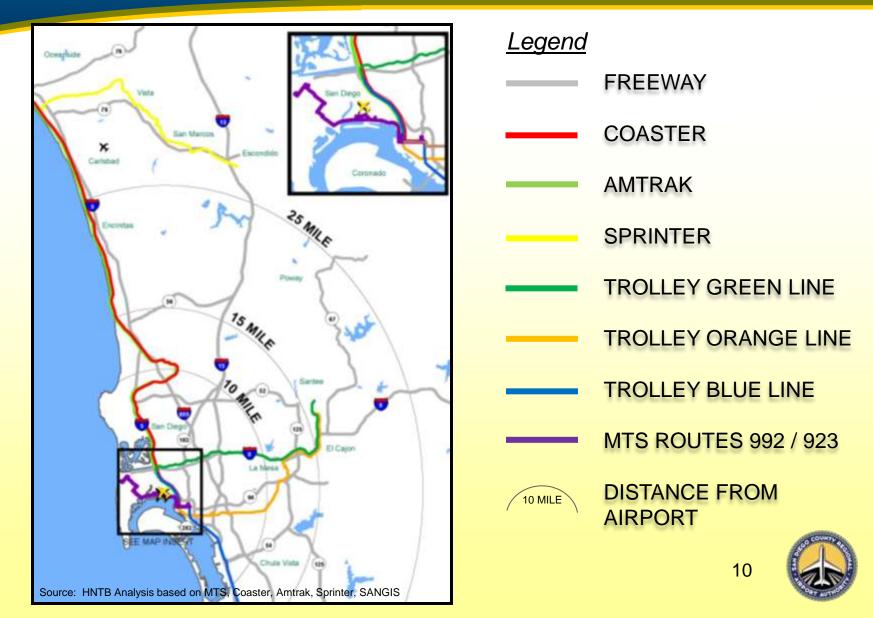
- Airport Employee Transit Incentive / Trip Reduction Program
- Express Bus Service to/from Old Town Transit Center (OTTC)
- Remote Parking / Terminal with Express Bus Service



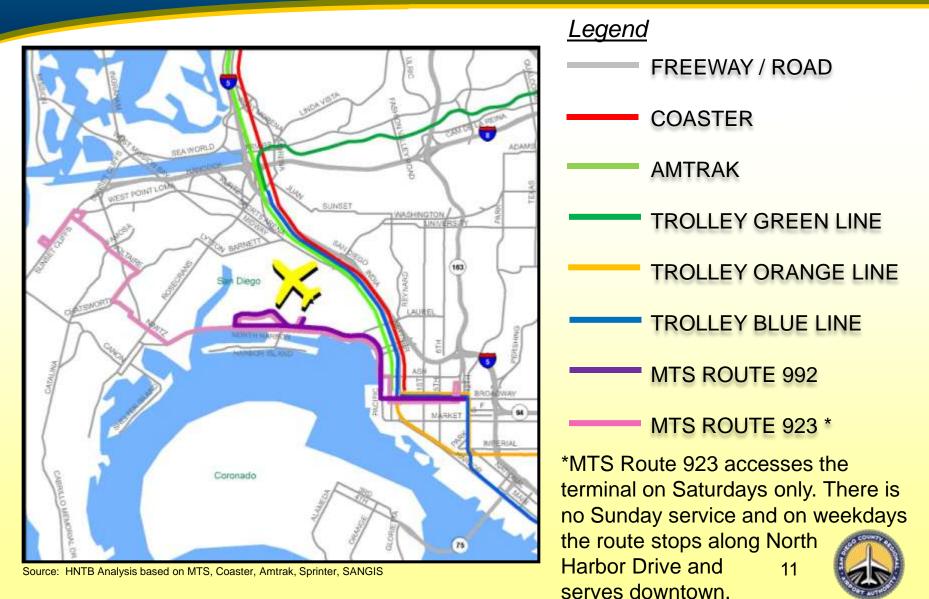
# Existing and Planned Regional Transit Services and Infrastructure



### Existing Regional Transit System Transit Service in the San Diego Region

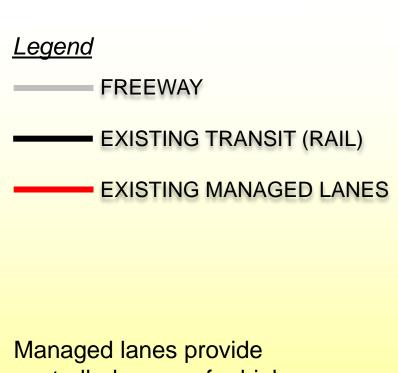


## Existing Regional Transit System Transit Access to SDIA



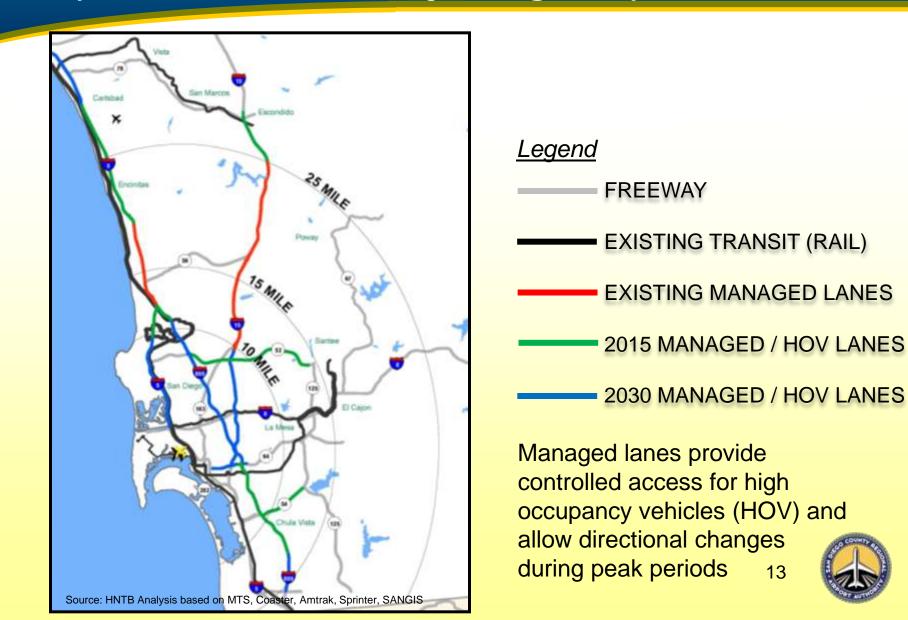
### Existing Managed Lanes Improvements on I-5 and I-15 corridors





Managed lanes provide controlled access for high occupancy vehicles (HOV) and allow directional changes during peak periods 12

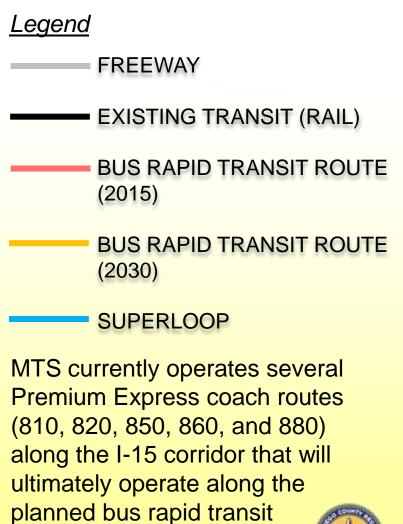
### Planned (2015 / 2030) Managed Lanes Improvements on major highway corridors





### Planned Bus Rapid Transit Routes Downtown Service in 2015 and 2030





routes.



14

# SDIA 2009 Air Passenger Survey

Includes air passenger ground access characteristics





### 2009 SDIA Air Passenger Survey Large Air Passenger Sample

- Originating air passenger intercept survey conducted May 18<sup>th</sup> to June 28<sup>th</sup>, 2009
- Approximately 8,000 total air passenger survey responses
- ↗ 36 "door-to-airport" questions relating to:
  - Flight number/destination
  - Arrival mode (e.g. private vehicle, transit, etc...)
  - Ground access trip origin
  - Air passenger type (e.g. resident, visitor)
  - Trip purpose (e.g. business or leisure travel)
  - Length of trip
  - Propensity to use public transit when travelling to / from SDIA

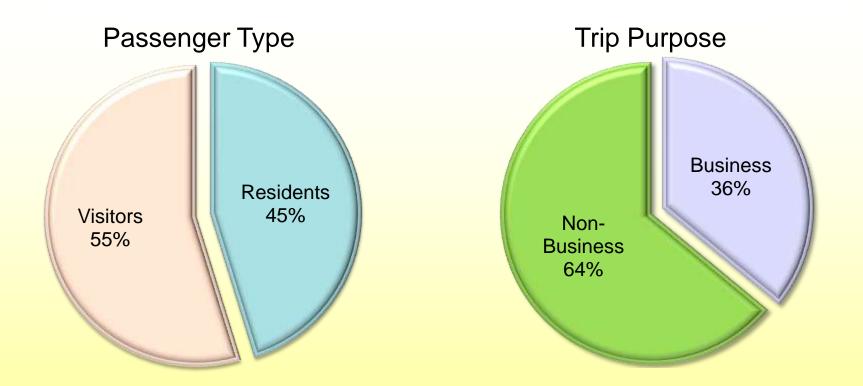


### 2009 SDIA Air Passenger Survey Survey Response Analysis for Transit Plan

- Airport Transit Plan Phase II analysis excluded responses collected over Memorial Day weekend (Friday, May 22<sup>nd</sup> – Tuesday, May 26<sup>th</sup>, 2009)
- Approximately 76% of respondents had trip origins within the San Diego metropolitan area
- Responses were applied to a total average annual day air passengers to develop passenger profiles



#### 2009 SDIA Air Passenger Survey Key Air Passenger Characteristics





18

### 2009 SDIA Air Passenger Survey Percent of Air Passenger Arriving by Each Mode

	Percent of Air Passengers		
	All	Resident	Visitor
Private Vehicle	56%	83%	34.8%
Pick-up / Drop-off	46%	61%	34%
Parked for Entire Trip (includes off-Airport)	10%	22%	0.8%
Rental Car	18%	0.5%	33%
Taxi	13%	8%	16%
Cloud 9 / Supershuttle / Shared-Ride Van	5%	5%	5%
Hotel / Resort Courtesy Vehicle	4%	0.3%	6%
Limousine / Town Car	1.7%	1.8%	1.6%
MTS Public Bus 992 / Bus 923	1.2%	1.2%	1.1%
Chartered / Tour Bus or Military Transport	0.6%	0.5%	0.7%
Walked	0.3%	0.2%	0.3%
Bus or Van from Cruise Ship Terminal	0.2%	0%	0.3%

Note: Totals may not add to 100% due to rounding; For percentages under 2%, exact values to the tenths are shown. Source: HNTB Analysis based on 2009 SDIA Air Passenger Survey

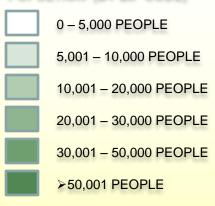


19

#### Existing San Diego Region Population Total Population (Census) by Zip Code

#### Legend

#### **EXISTING 2000 CENSUS POPULTION (BY ZIP CODE)**





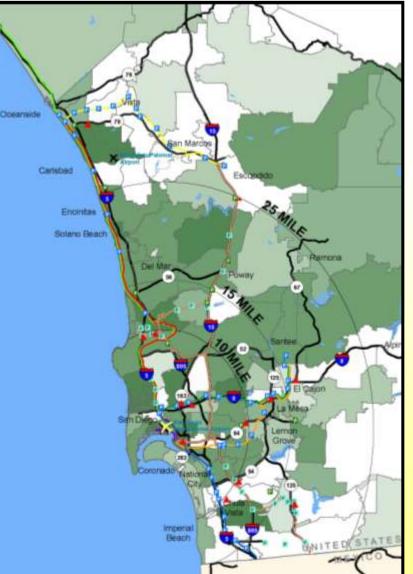
- EXISTING

PARK AND RIDE LOT



CALTRANS SELECTED EXISTING PARK AND RIDE LOT

PARK AND RIDE LOT - PLANNED









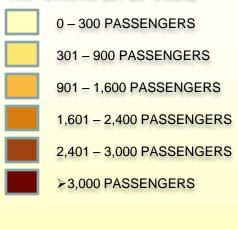
### Total Daily Air Passenger Trip Origins Air Passenger Origins Differ from Population

#### <u>Legend</u>

Ρ

P

#### EXISTING DAILY AIR PASSENGER TRIP ORIGINS (BY ZIP CODE)



#### PARKAND RIDE LOT - EX STAND SIDE LOT



Oceanside











Source: HNTB Analysis based on 2009 SDIA Air Passenger Survey, SDCRAA, SANGIS, Caltrans, MTS

### Daily Resident Air Passenger Trip Origins The Remote Terminal Focuses on Residents



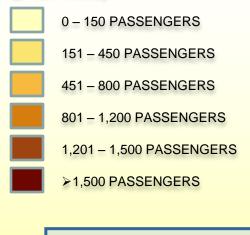
(BY ZIP CODE)

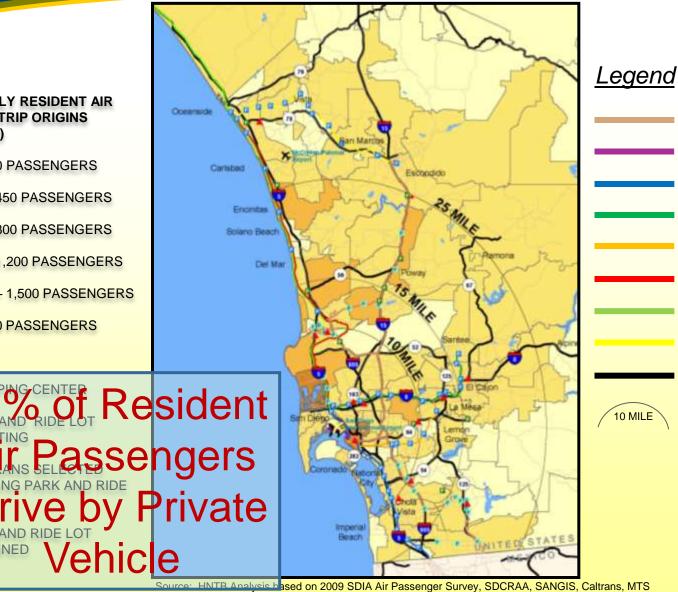
Ρ

Ρ

Р

- PLANNED





BRT ROUTE (2015)

**TROLLEY BLUE LINE** 

TROLLEY GREEN LINE

TROLLEY ORANGE LINE

**MTS BUS 992** 

COASTER

AMTRAK

SPRINTER

FREEWAY

AIRPORT

22

**DISTANCE FROM** 

#### Existing Daily Air Passenger Trip Origins Visitors Comprise the Secondary Market



# Airport Employee Transit Incentive / Trip Reduction Program



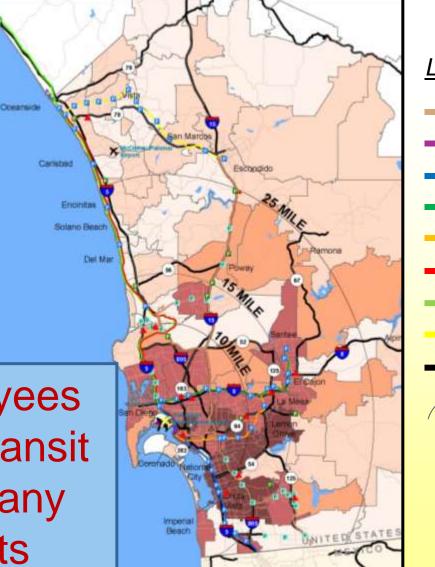
24

### Total Existing Employee Residences Many Employees Live South of the Airport

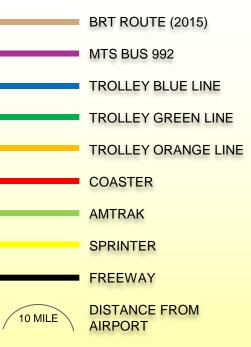
#### <u>Legend</u>

#### EXISTING EMPLOYEE RESIDENCES (BY ZIP CODE)







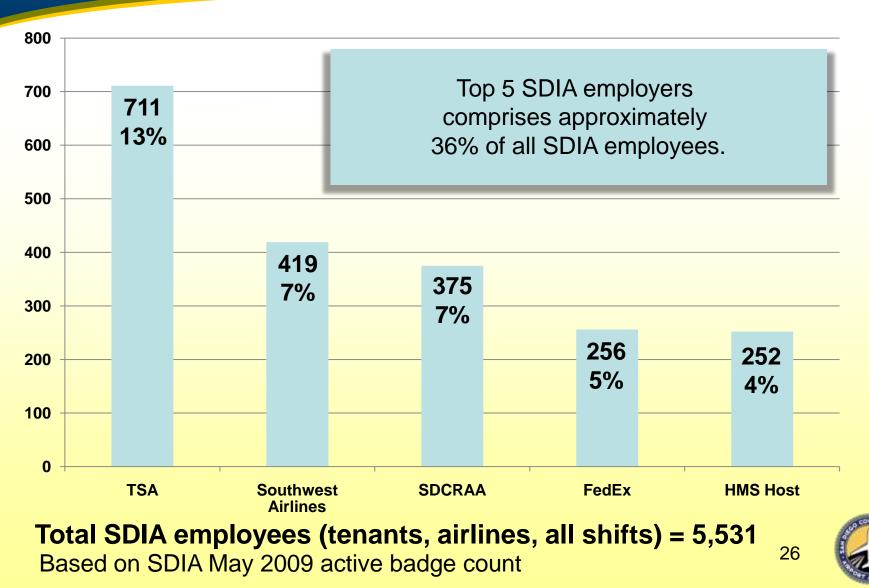






Source: HNTE Analysis based on 2009 SDIA Air Passenger Survey, SDCRAA, SANGIS, Caltrans, MTS

### Top Five Employers at SDIA Many Employees Work Late or Early Shifts



Source: HNTB Analysis based on SDCRAA employee data

## Employee Trip Reduction Programs Current Programs Provided by Top Employers

- Pre-Tax Deductions Allowed for Transit Passes
- Subsidized Transit Passes for Top Employers
  - ↗ TSA provides 100% subsidy
  - ↗ SDCRAA provides 50% subsidy
  - Southwest Airlines provides 50% subsidy
  - → FedEx 0% subsidy
- Regional Vanpool Program
  - SDCRAA provides 50% subsidy
- ↗ iCommute Program
  - SANDAG online carpool, vanpool rider matching program
  - Includes Guaranteed Ride Home program

27

### Potential Employee Parking Measures Consider Those with no Transit Options

	SDCRAA Employees	Airport Tenants / TSA Employees
Increase parking fees for all airport employees	Х	Х
Charge SDCRAA employees to park	Х	
Charge employees monthly vs. quarterly to make fees more visible	Х	Х
Allow transit/carpool users to buy daily parking passes, allowing them to drive on occasion without paying for monthly parking	Х	Х
Provide reduced rates for carpools/vanpools	Х	Х
Provide preferential parking for carpools/vanpools	Х	Х

Notes:

- 1. Parking policies must consider shift employees with little or no transit / rideshare options.
- 2. All measures work towards reducing air emissions per California Assembly Bill 32: Global Warming Solutions Act.



### Potential Trip Reduction Incentives Potential Trip Reduction Incentives

	SDCRAA Employees	Airport Tenants / TSA Employees
Implement car share program (e.g. zip car) to allow transit / rideshare employees use of vehicles for personal errands and/or official business	Х	Х
Allow telework and flextime schedules for employees whose jobs do not require them to be on site	Х	
Provide on-site bicycle facilities such as bike racks, lockers and showers	Х	Х
Source: HNTB Analysis Note: All measures work towards reducing air emissions pe	ər	

Note: All measures work towards reducing air emissions per California Assembly Bill 32: Global Warming Solutions Act.



## Potential Programs and Outreach Encourage Employees by Providing Resources

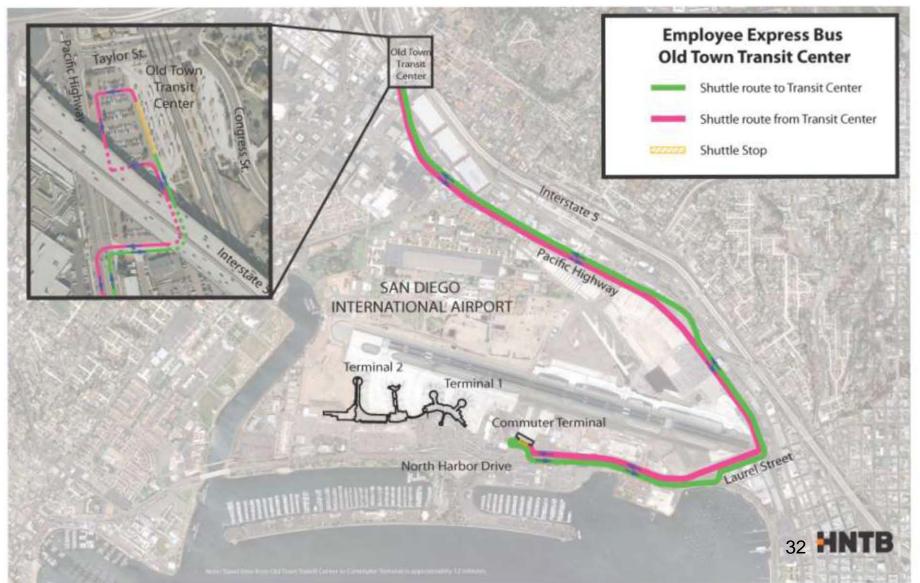
	SDCRAA EMPLOYEES	AIRPORT TENANTS / TSA EMPLOYEES
Develop a formal trip reduction program for SDCRAA and airport employees	Х	
Require airport employers with over 100 employees to implement a trip reduction program		Х
Provide a transportation resource center for employees to find transit information or incentives on transit or rideshare options	Х	Х
Designate a transportation coordinator to manage, coordinate and implement employee trip reduction program elements	Х	Х
Source: HNTB Analysis Note: All measures work towards reducing air emissions California Assembly Bill 32: Global Warming Solutions Ac	-	30

# Express Bus Service to/from Old Town Transit Center (OTTC)



31

#### Airport Employee Bus Service from OTTC Express Bus Service Route



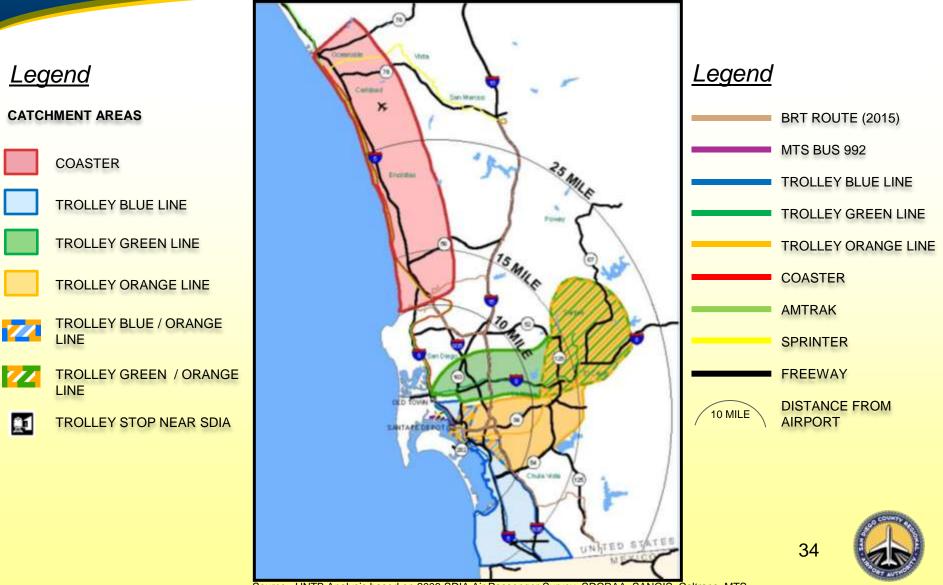
Source: HNTB Analysis

### Airport Employee Bus Service from OTTC Demonstration Program Parameters

- Initiated after conducting survey of employee transit use and propensity to use old town express bus
- ↗ Frequency:
  - Monday through Friday 9 runs per day timed with the Coaster
  - Schedule adjusted to match Coaster's holiday schedule
- Annual Cost: \$80,000 (labor and fuel)
- Ridership: Approximately 12 employees per day
- Service in operation from June 2009 to June 2010
- Two-Month Port Demonstration Program With Port Ridership (24 total riders / day)
- Diamond Award (SANDAG) Best New Program



### MTS Route 992 and OTTC Catchment Areas Areas Most Likely to Attract Potential Riders



Source: HNTB Analysis based on 2009 SDIA Air Passenger Survey, SDCRAA, SANGIS, Caltrans, MTS

### MTS 992 & OTTC Bus Catchment Area Total Pool of Air Passengers and Employees

	TOTAL DAILY AIR PASSENGERS		TOTAL EMPLOYEE RESIDENCES
TOTAL POOL OF AIR PASSENGERS AND EMPLOYEES WITHIN MTS ROUTE 992 CATCHMENT AREA	26,244		4,655
TOTAL POOL OF AIR PASSENGERS AND EMPLOYEES WITHIN OTTC EXPRESS BUS ROUTE CATCHMENT AREA	COASTER	6,864	320
	Green Line Trolley	5,948	1,147
	Total	12,812	1,467

Source: HNTB Analysis based on 2009 SDIA Air Passenger Survey

Note: This is a summary of passengers and employees that begin their trip within the catchment area and does not represent actual bus riders.





### OTTC Employee Express Bus Demonstration Program Considerations

- Small percentage of total airport employees live within the Coaster catchment area
- Coaster schedule restrictions limit potential employee ridership for shift employees
  - No Sunday service
  - Limited Saturday service
  - Peaked service focused on commute hours
  - No late night service

#### Potential opportunities

- Consider increasing service frequency to capture Green Line Trolley riders
- Consider expanding to serve air passengers



### OTTC Express Bus Service Considerations for Expanding to Air Passengers

- Overlaps with Route 992 catchment but could provide tailored and faster service
- Must assess parking strategy at Old Town and other Trolley / Coaster stations
  - Limited overall parking at transit stations (except Qualcomm)
  - Currently no overnight parking allowed at transit stations
  - Program would need to:
    - Designate overnight parking at specific stations
    - Restrict airport parking at Old Town, including daily parking



# Remote Parking / Terminal with Express Bus Service



#### Remote Terminal with Express Bus Service What is it?

LAX Flyaway Ticket Kiosk

#### Van Nuys Flyaway Bus Station

Remote terminal / parking with express bus service targets airport passengers and employees traveling from a location(s) greater than 10 miles or 30 minutes from the Airport

> Boston Logan Express Woburn Station



### Remote Terminal Bus Service Key Consideration for Success

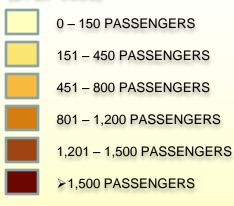
- ↗ Service is provided 7 days a week
- ↗ Maximum bus headways 30-minutes
- Remote Terminal is located a minimum 10 miles or 30 minute travel time from the Airport
- Non-stop service or for longer routes a maximum of one stop with consideration to FAA funding rules
- Bus schedule captures a minimum of 80% of departing and arriving aircraft seats
- Sufficient secure parking must be available at the Remote Terminal



### Daily Resident Air Passenger Trip Origins The Remote Terminal Focuses on Residents

#### <u>Legend</u>

#### EXISTING DAILY RESIDENT AIR PASSENGER TRIP ORIGINS (BY ZIP CODE)





- EXISTING

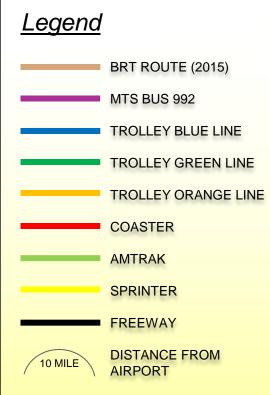
PARK AND RIDE LOT



**CALTRANS SELECTED** EXISTING PARK AND RIDE LOT

PARK AND RIDE LOT - PLANNED

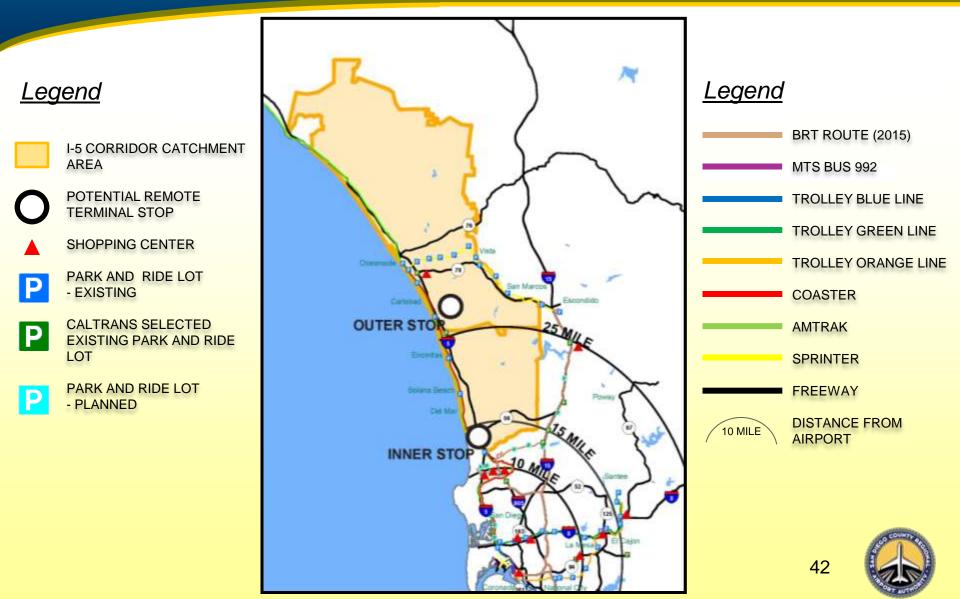




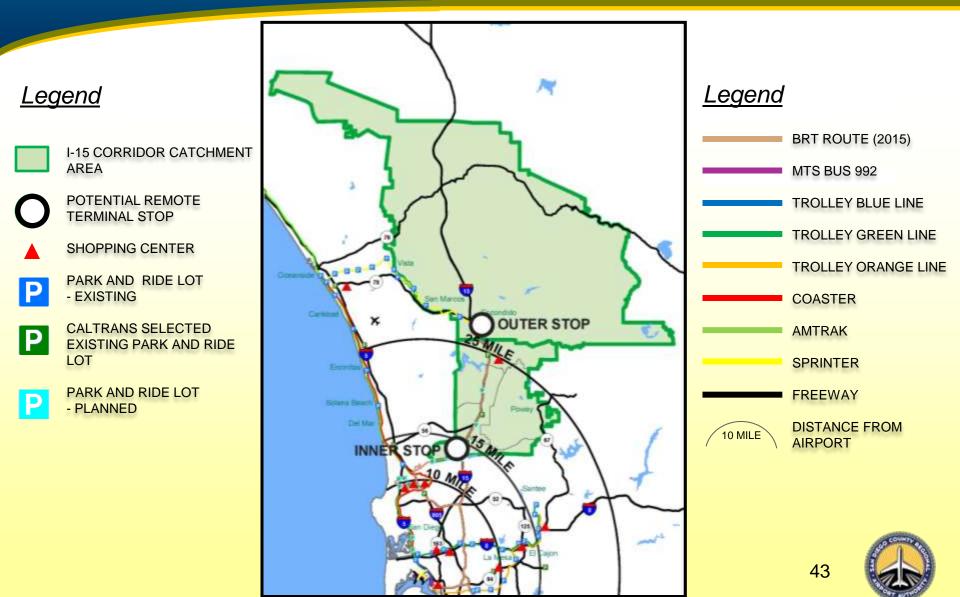


Source: HNTB Analysis based on 2009 SDIA Air Passenger Survey, SDCRAA, SANGIS, Caltrans, MTS

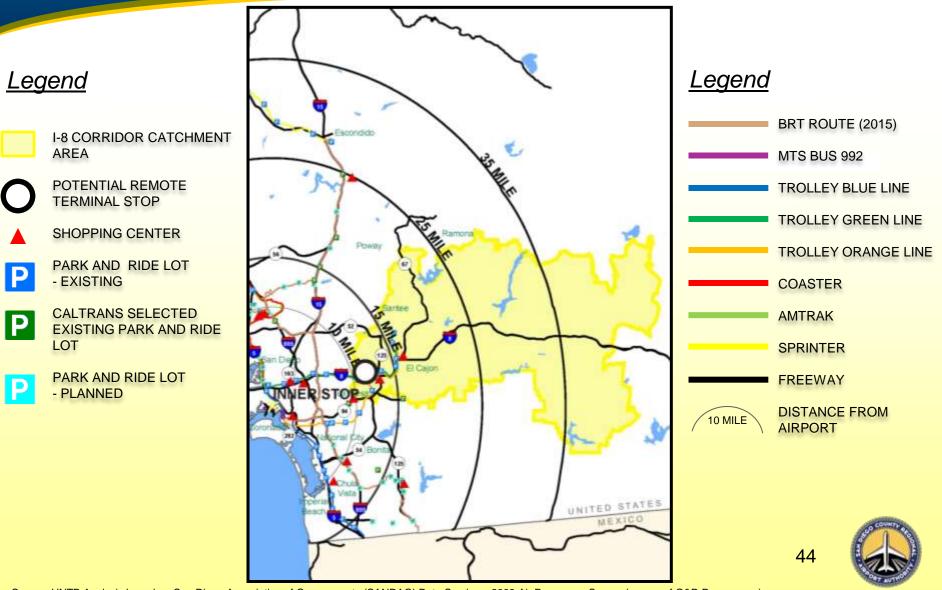
#### Remote Terminal Catchment Area I-5 Potential for an Intermediate Stop



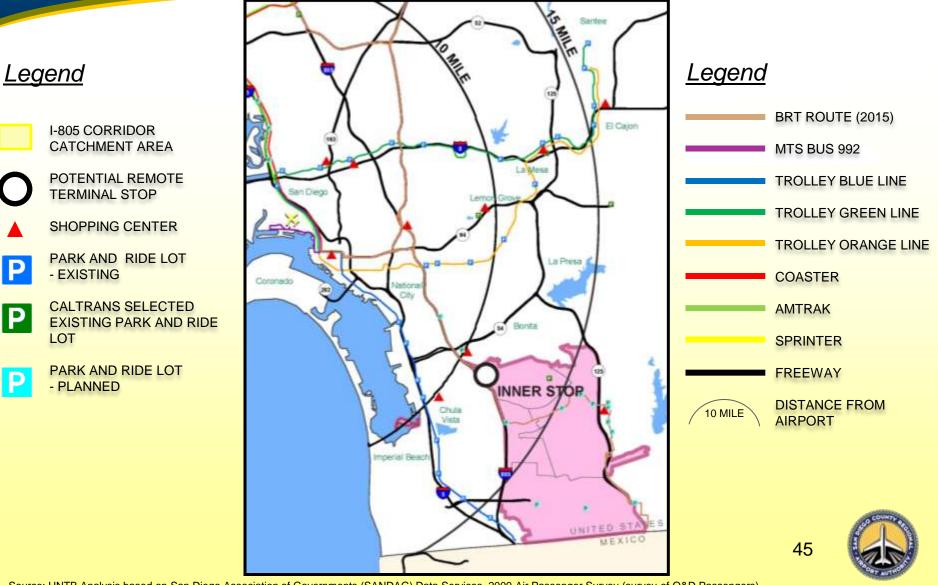
#### Remote Terminal Catchment Area I-15 Potential for an Intermediate Stop



#### Remote Terminal Catchment Area I-8 Non-Stop Service

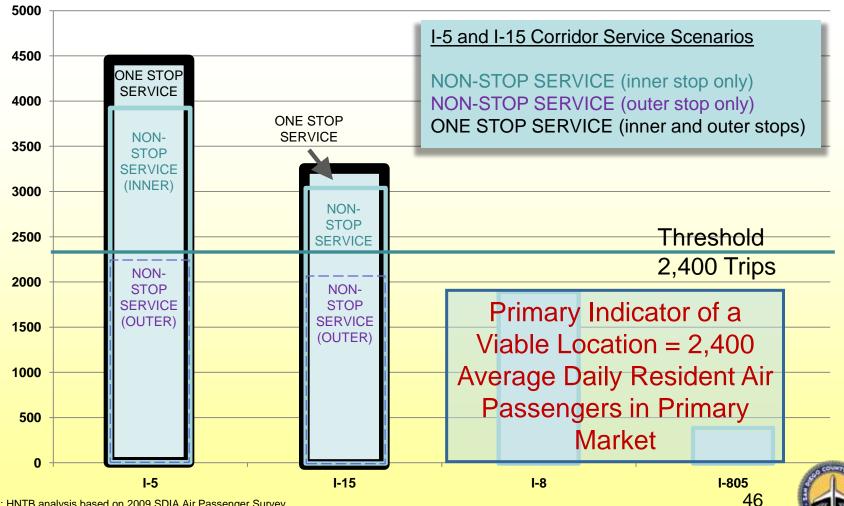


### Remote Terminal Catchment Area I-805 Non-Stop Service



#### Threshold for Determining Most Viable Location Start with the Strongest Market

#### AVERAGE DAILY RESIDENT AIR PASSENGER TRIPS



### Recommendation for Viable Corridors I-5 and I-15 Represent Strongest Markets

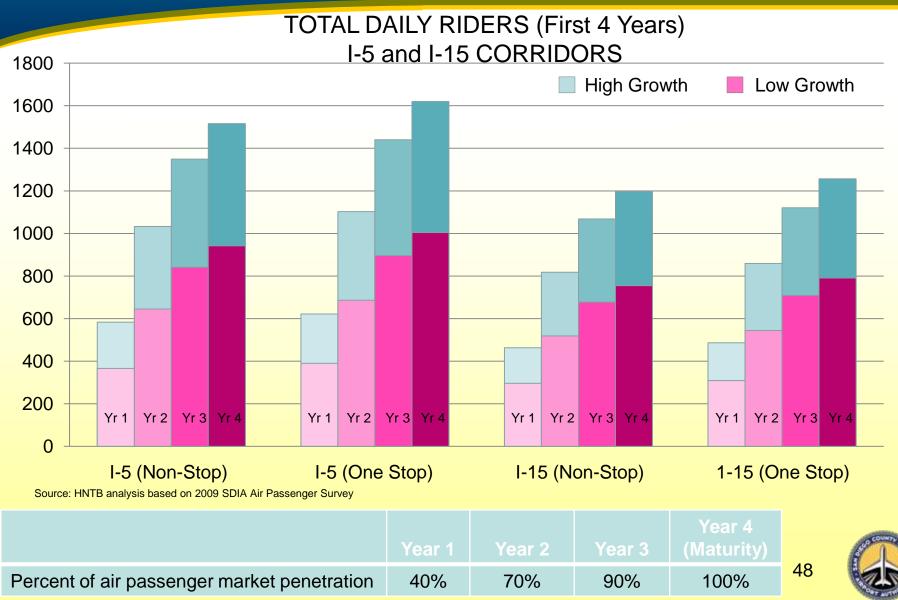
#### I-5 and I-15 Recommended for Feasibility Analysis

#### ↗ I-8 and I-805 Evaluated but:

- Did not meet all catchment area threshold s(2,400 trips or 8 passengers per square mile)
- Existing airport connectivity along Trolley routes
- I-5 and I-15 corridors are stronger markets for demonstration programs



### Remote Terminal Potential Ridership Service Should Reach Maturity by year 4



### Remote Terminal Next Steps Authority to Consider Following Options

Review ridership levels after 2 years to ensure service is tracking with growth projections

1) Authority Operate

2) Transit Agency Operate

3) Private Operator



### Authority to Operate Next Steps

- Determine feasibility
  - Bus and Parking Rates
  - Costs
    - Capital
    - Operating
    - Impact to other airport revenues (e.g. parking)
  - Operate to breakeven or profit

## Consider FAA guidelines on use of airport revenue



### Authority to Operate Key Decisions

- Purchase or lease private property or enter into agreement for use of public property
- Purchase or lease buses
- Permanent or modular terminal facility
- Surface or covered parking



### Transit Agency or Private Operator Next Steps

#### ↗ Issue Request for Information (RFI)

- ↗ Specify service parameters
- Provide airport passenger and remote terminal catchment data
- Issue Request for Proposal (RFP) for service if sufficient interest in industry or SDRAA exists
- Potential concessions SDIA could provide selected operator
  - Provide exclusive access for operator
  - ↗ Waive airport permit fees
  - Provide preferential curbside areas
  - Provide liaison to assist in finding remote terminal location





### For more information about the Airport Transit Plan project, visit the Airport Transit / Roadway Committee website:

http://www.san.org/sdcraa/leadership/committee s/transComm.aspx



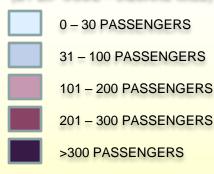
Supplemental Information

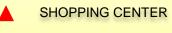


### Existing Daily Air Passenger Trip Density Total Daily Air Passengers per Square Mile

#### <u>Legend</u>

#### EXISTING DAILY AIR PASSENGER TRIP ORIGIN DENSITY (BY ZIP CODE – SQUARE MILE)





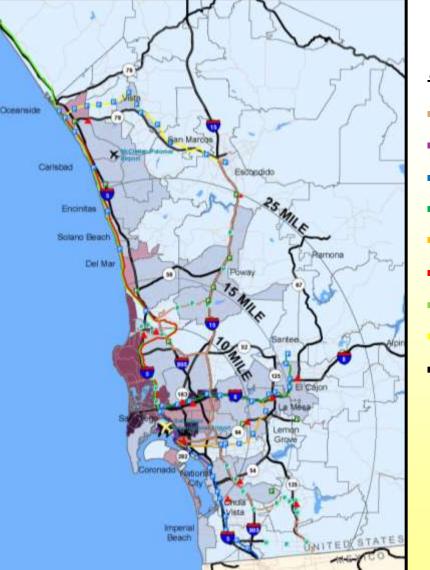


PARK AND RIDE LOT - EXISTING



CALTRANS SELECTED EXISTING PARK AND RIDE LOT

PARK AND RIDE LOT - PLANNED







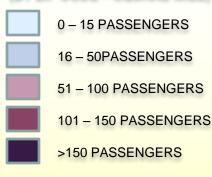
55

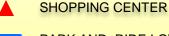
Source: HNTB Analysis based on 2009 SDIA Air Passenger Survey, SDCRAA, SANGIS, Caltrans, MTS

### Daily Resident Air Passenger Trip Density Existing Resident Air Passengers per Square Mile

#### <u>Legend</u>

#### EXISTING DAILY RESIDENT AIR PASSENGER TRIP ORIGIN DENSITY (BY ZIP CODE - SQUARE MILE)





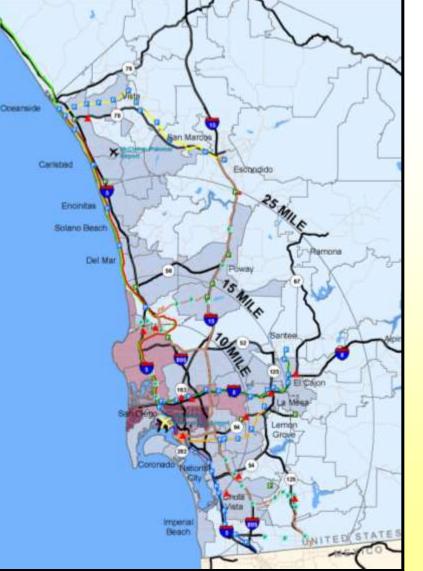


PARK AND RIDE LOT - EXISTING



CALTRANS SELECTED EXISTING PARK AND RIDE

PARK AND RIDE LOT - PLANNED







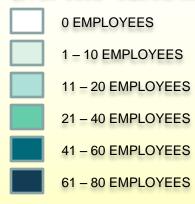
56

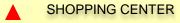
Source: HNTB Analysis based on 2009 SDIA Air Passenger Survey, SDCRAA, SANGIS, Caltrans, MTS

### Existing Employee Residence Density Total Employee Residences per Square Mile

#### <u>Legend</u>

EXISTING EMPLOYEE RESIDENCE DENSITY (BY ZIP CODE – SQUARE MILE)



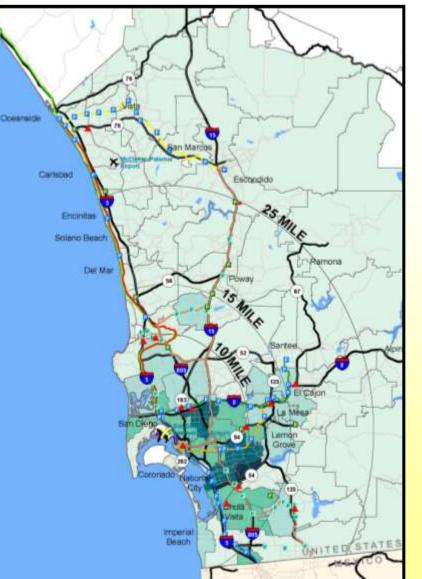


Ρ

POTENTIAL REMOTE TERMINAL SITES SELECTED FROM EXISTING CALTRANS PARK AND RIDE LOTS

CALTRANS PARK AND RIDE LOT - EXISTING

CALTRANS PARK AND RIDE LOT - PLANNED





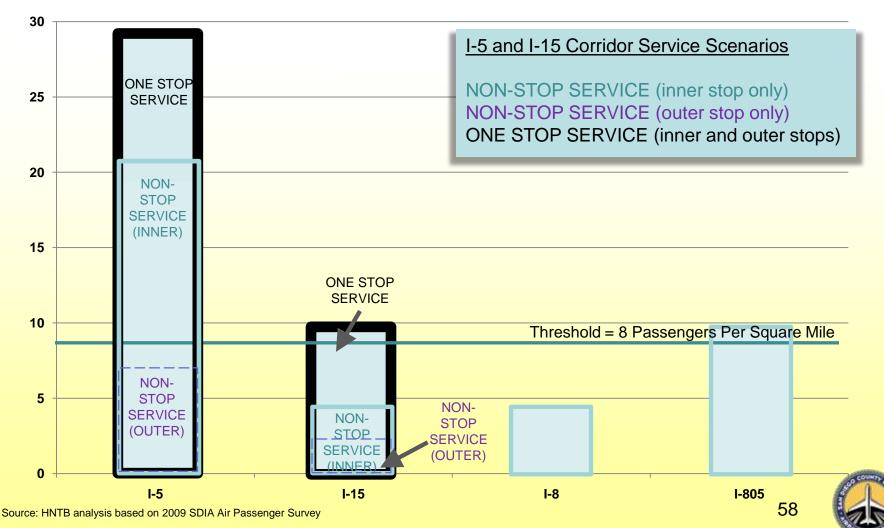




Source: HNTB Analysis based on 2009 SDIA Air Passenger Survey, SDCRAA, SANGIS, Caltrans, MTS

### Remote Terminal Air Passenger Threshold Density Threshold 8 passengers per square mile

#### AVERAGE DAILY AIR PASSENGERS PER SQUARE MILE



### Remote Terminal with Express Bus Keys to Success

#### Service / Frequency

- ↗ 7 days a week
- Maximum 30 minute headways
- Non-stop service or maximum of <u>one</u> stop for longer distances with consideration to FAA funding rules

#### ↗ Location:

- Along a primary airport access route
- Minimum 10-15 miles or 30 minute travel time from the Airport
- Near freeway entrances and exits or with good freeway visibility
- Near transition point between non-congested and congested routes
- Near dense population/employment areas with a minimum of 2,400 average daily resident airline passengers

Amenities:

- Sufficient secure parking
- Safe and clean waiting areas
- Passenger and luggage check-in capability nice but not required (e.g. airline kiosks)



### Remote Terminal Bus Service Operating Assumptions

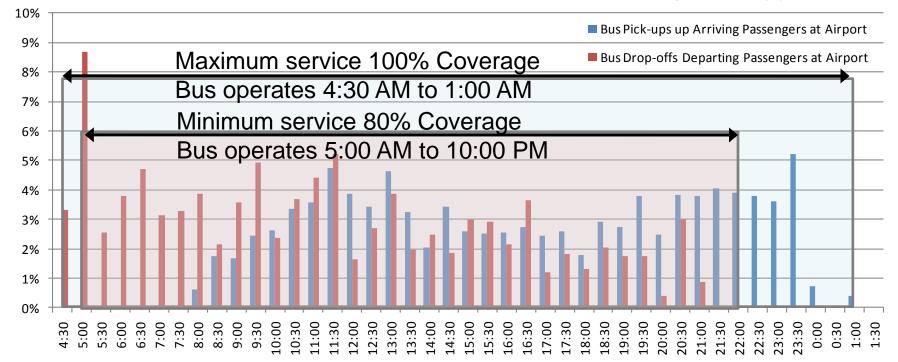
- ↗ Service is provided 7 days a week
- ↗ Bus serves all terminals with a stop at each curbside
- ↗ Maximum 30-minute headways
- Remote terminal bus schedule captures a minimum of 80% of departing and arriving aircraft seats
- First bus arrives at the airport 90 minutes prior to departure of the first flight that the bus schedule serves (lead time)
- Last bus leaves the airport 60 minutes after arrival of the last flight that the bus schedule serves (lag time)



#### Remote Terminal Bus Operating Hours Bus Must Operate Early Morning and Late Night

#### Daily Percentage Distribution of

#### Aircraft Seats with 90-Minute Lead and 60-Minute Lag Time Applied



#### **Assumptions:**

Headways are every 30 minutes in both directions 90 minute lead time before flight departure 60 minute lag time after flight arrival



Source: HNTB Analysis based on San Diego International Airport Flight Schedule, June 15 - 21, 2009; 2009 Air Passenger Survey