

SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY

Board Members

C. April Boling
Chairman

Greg Cox
Jim Desmond
Mark Kersey
Robert T. Lloyd
Paul Robinson
Johanna Schiavoni
Michael Schumacher
Mark B. West

CAPITAL IMPROVEMENT PROGRAM OVERSIGHT COMMITTEE and SPECIAL BOARD MEETING

AGENDA

October 18, 2018
10:00 A.M.

San Diego International Airport
SDCRAA Administration Building -- Third Floor
Board Room
3225 N. Harbor Drive
San Diego, CA 92101

Ex-Officio Board Members

Cory Binns
Col. Charles B. Dockery
Jacqueline Wong-Hernandez

President / CEO

Kimberly J. Becker

This Agenda contains a brief general description of each item to be considered. The indication of a recommended action does not indicate what action (if any) may be taken. If comments are made to the Board without prior notice or are not listed on the Agenda, no specific answers or responses should be expected at this meeting pursuant to State law.

Staff Reports and documentation relating to each item of business on the Agenda are on file with the Board Services Department and are available for public inspection.

NOTE: Pursuant to Authority Code Section 2.15, all Lobbyists shall register as an Authority Lobbyist with the Authority Clerk within ten (10) days of qualifying as a lobbyist. A qualifying lobbyist is any individual who receives \$100 or more in any calendar month to lobby any Board Member or employee of the Authority for the purpose of influencing any action of the Authority. To obtain Lobbyist Registration Statement Forms, contact the Board Services/Authority Clerk Department.

PLEASE COMPLETE A "REQUEST TO SPEAK" FORM PRIOR TO THE COMMENCEMENT OF THE MEETING AND SUBMIT IT TO THE AUTHORITY CLERK. **PLEASE REVIEW THE POLICY FOR PUBLIC PARTICIPATION IN BOARD AND BOARD COMMITTEE MEETINGS (PUBLIC COMMENT) LOCATED AT THE END OF THE AGENDA.**

The Authority has identified a local company to provide oral interpreter and translation services for public meetings. If you require oral interpreter or translation services, please telephone the Board Services/ Authority Clerk Department with your request at (619) 400-2400 at least three (3) working days prior to the meeting.

CALL TO ORDER:

PLEDGE OF ALLEGIANCE:

ROLL CALL:

Committee Members: Boling, Kersey (Chair), Robinson, Schumacher

NON-AGENDA PUBLIC COMMENT:

Public Comment is reserved for members of the public wishing to address the Committee on matters for which another opportunity to speak **is not provided on the Agenda**, and which is within the jurisdiction of the Committee. Please submit a completed speaker slip to the Authority Clerk. ***Each individual speaker is limited to three (3) minutes. Applicants, groups and jurisdictions referring items to the Board for action are limited to five (5) minutes.***

Note: Persons wishing to speak on specific items should reserve their comments until the specific item is taken up by the Board.

NEW BUSINESS:

1. APPROVAL OF MINUTES:

RECOMMENDATION: Approve the minutes of the July 19, 2018 regular meeting.

2. CAPITAL PROJECTS UPDATE:

(Development Division: Dennis Probst, Vice President)

3. AIRPORT DEVELOPMENT PLAN UPDATE:

(Development Division: Dennis Probst, Vice President)

4. CONSTRUCTION PROJECTS FINANCE UPDATE:

(Financial & Risk Management: Geoff Bryant, Airport Finance Manager)

5. SMALL BUSINESS DEVELOPMENT REPORT AND PROPOSED REVISIONS TO AUTHORITY POLICY 5.12 - PREFERENCE TO SMALL, LOCAL, AND VETERAN OWNED BUSINESSES:

(Small Business Development: Regina Brown, Manager)

6. SAN'S SUSTAINABILITY MANAGEMENT PLANNING: PROGRESS UPDATE:

(Planning & Environmental Affairs: Brendan Reed, Director, Chad Reese, Manager Environmental Affairs, Ralph Redman, Manager, Airport Planning)

COMMITTEE MEMBER COMMENTS:

ADJOURNMENT:

Policy for Public Participation in Board, Airport Land Use Commission (ALUC), and Committee Meetings (Public Comment)

- 1) Persons wishing to address the Board, ALUC, and Committees shall complete a "Request to Speak" form prior to the initiation of the portion of the agenda containing the item to be addressed (e.g., Public Comment and General Items). Failure to complete a form shall not preclude testimony, if permission to address the Board is granted by the Chair.
- 2) The Public Comment Section at the beginning of the agenda is limited to eighteen (18) minutes and is reserved for persons wishing to address the Board, ALUC, and Committees on any matter for which another opportunity to speak is not provided on the Agenda, and on matters that are within the jurisdiction of the Board. A second Public Comment period is reserved for general public comment later in the meeting for those who could not be heard during the first Public Comment period.
- 3) Persons wishing to speak on specific items listed on the agenda will be afforded an opportunity to speak during the presentation of individual items. Persons wishing to speak on specific items should reserve their comments until the specific item is taken up by the Board, ALUC and Committees. Public comment on specific items is limited to twenty (20) minutes – ten (10) minutes for those in favor and ten (10) minutes for those in opposition of an item. Each individual speaker will be allowed three (3) minutes, and applicants and groups will be allowed five (5) minutes.
- 4) If many persons have indicated a desire to address the Board, ALUC and Committees on the same issue, then the Chair may suggest that these persons consolidate their respective testimonies. Testimony by members of the public on any item shall be limited to **three (3) minutes per individual speaker and five (5) minutes for applicants, groups and referring jurisdictions.**
- 5) Pursuant to Authority Policy 1.33 (8), recognized groups must register with the Authority Clerk prior to the meeting.
- 6) After a public hearing or the public comment portion of the meeting has been closed, no person shall address the Board, ALUC, and Committees without first obtaining permission to do so.

Additional Meeting Information

NOTE: This information is available in alternative formats upon request. To request an Agenda in an alternative format, or to request a sign language or oral interpreter, or an Assistive Listening Device (ALD) for the meeting, please telephone the Authority Clerk's Office at (619) 400-2400 at least three (3) working days prior to the meeting to ensure availability.

For your convenience, the agenda is also available to you on our website at www.san.org.

For those planning to attend the Board meeting, parking is available in the public parking lot located directly in front of the SDCRAA Administration Building. Bring your ticket to the third floor receptionist for validation.

You may also reach the SDCRAA Administration Building by using public transit via the San Diego MTS system, Route 992. For route and fare information, please call the San Diego MTS at (619) 233-3004 or 511.

UPCOMING MEETING SCHEDULE

<i>Date</i>	<i>Day</i>	<i>Time</i>	<i>Meeting Type</i>	<i>Location</i>
TBD	TBD	TBD	TBD	TBD

DRAFT
SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY
CAPITAL IMPROVEMENT PROGRAM OVERSIGHT COMMITTEE
AND SPECIAL BOARD MEETING
THURSDAY, JULY 19, 2018
BOARD ROOM

CALL TO ORDER: Chair Kersey called the Capital Improvement Program Oversight Committee meeting to order at 10:02 a.m., on Thursday, July 19, 2018, in the Board Room of the San Diego International Airport, Administration Building, 3225 N Harbor Drive, San Diego, CA 92101.

PLEDGE OF ALLEGIANCE: Chair Kersey led the Pledge of Allegiance.

ROLL CALL:

Present: Committee Members: Boling, Kersey (Chair), Robinson,
Schumacher

Absent: Committee Members: None

Also Present: Kimberly J. Becker, President/CEO; Lee Kaminetz, Director,
Counsel Services; Linda Gehlken, Assistant Authority Clerk I;
Martha Morales, Assistant Authority Clerk I

NON-AGENDA PUBLIC COMMENT: None.

NEW BUSINESS:

1. APPROVAL OF MINUTES:

RECOMMENDATION: Approve the minutes of the April 19, 2018 regular meeting.

ACTION: Moved by Board Member Boling and seconded by Board Member Schumacher to approve staff's recommendation. Motion carried unanimously.

2. PROJECTS UPDATE:

Dennis Probst, Vice President, Development, provided a presentation on the Capital Improvement Oversight Committee Projects Update which included Runway Update, Rehabilitate Cross Taxiways B1,B4-B7,C3,C4, and C6, North Side Vehicle Service Road Replacement and Stormwater Drainage Improvements, Fuel Rack Relocation and Hydrant Fueling, Airport Support Facilities Design-Build, and Northside Cargo Development.

In response to Board Member Boling regarding whether hydrant fueling for aircrafts would be faster, Mr. Probst stated that he believed it would be faster, noting as an example that it currently takes three trucks to fill up a wide-body aircraft and using hydrant fueling would avoid having to connect the fuel line multiple times.

Board Member Boling requested that staff provide additional information on the efficiency of hydrant fueling operation.

3. ADP UPDATE:

Dennis Probst, Vice President, Development, provided a presentation on the Capital Improvement Oversight Committee ADP Update which included Environmental Impact Report, Airport Development Program, ADP Timeline, and PM/CM Procurement Update.

In response to concern expressed by Board Member Robinson regarding the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) reviews not being processed simultaneously, Lee Kaminetz, Director, Counsel Services, stated that information from CEQA is needed to complete the NEPA process.

Kimberly Becker, President/CEO, stated that staff will provide the Board with clarification on the NEPA/CEQA timing.

In response to Board Member Robinson regarding whether a study was being done in the Environmental Impact Report (EIR) on sea level rise, Brendan Reed, Director, Airport Planning & Environmental, clarified that in regard to sea level rise, CEQA requires an assessment of whether the project being proposed would create flooding elsewhere.

In regard to the NEPA vs CEQA timeline, Mr. Reed stated that the Authority is the lead for the CEQA review and the FAA is the lead for NEPA. He stated that the Authority has had success performing CEQA first, allowing for a smooth NEPA process.

In response to Board Member Robinson's concerns regarding the appropriate level of review, Mr. Reed stated that it would be the decision of the Federal Aviation Administration; an environmental assessment is planned at this time.

4. PARKING PLAZA AND FIS FINANCE UPDATE:

Geoff Bryant, Airport Finance Manager, Financial & Risk Management, provided a presentation on the Capital Improvement Program Oversight Parking Plaza and FIS Finance Update which included Parking Plaza Cost, FIS Cost, and FIS Funding Sources.

5. SMALL BUSINESS UPDATE:

Christine Pham, Program Manager, Small Business Development, provided a presentation on the Small Business Development Report which included Parking Plaza, Federal Inspection System, ASF & Air Cargo Facts, and SBD Education & Training.

In response to Board Member Boling regarding when the Board will see an agenda item for the definition of a local/small business as was requested at a previous meeting, Ms. Pham stated that staff is in the process of updating the Authority's Policy regarding local and small business participation to be presented at a future Board meeting.

Board Member Boling requested that the item be heard by the Committee before being forwarded to the Board.

BOARD AND COMMITTEE MEMBER COMMENTS: None.

ADJOURNMENT: The meeting was adjourned at 10:54 a.m.

APPROVED BY A MOTION OF THE CAPITAL IMPROVEMENT PROGRAM
OVERSIGHT COMMITTEE THIS 18th DAY OF OCTOBER, 2018.

DENNIS PROBST
VICE PRESIDENT, DEVELOPMENT

ATTEST:

LINDA GEHLKEN
ASSISTANT AUTHORITY CLERK I

Item 2



CAPITAL PROJECTS UPDATE

October 18, 2018

Presented by:

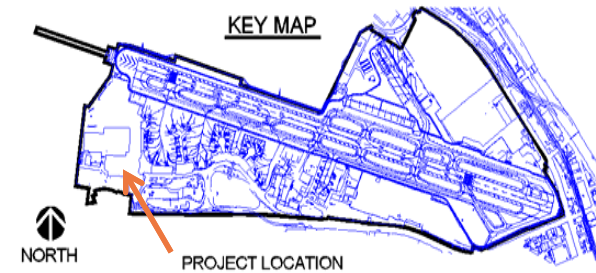
Dennis Probst, Vice President, Development

T2W FIS Buildout

Phase 2 Construction Completion Date: Jun 30, 2019

Current Status

- Gates 46 & 47 are closed through Feb 2019
- Construction of Fuel Hydrant work at Gate 46 & 47 began October 1st
- Gate 33 & 34 closure for by-pass lane work: Feb- May 2019



Airline Relocations and CUPPS

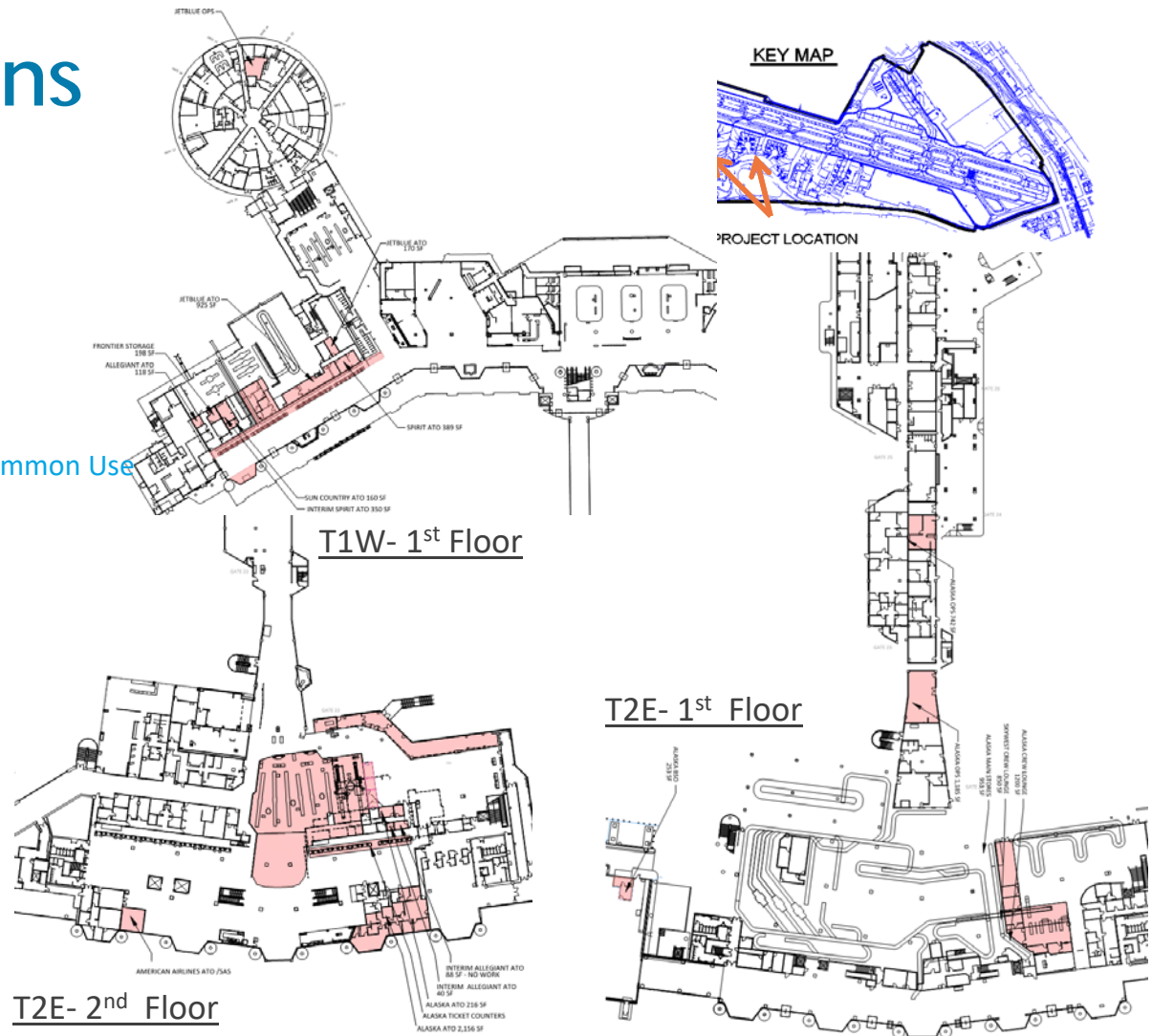
Completion Date: April 2019

Project Scope

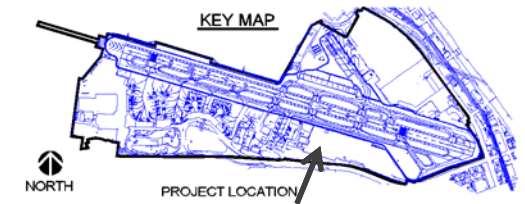
- Phase I:
 - Remodel T2E & T1W for airline relocations
 - Expand Security Checkpoint #5
 - Convert T1W Ticket Counters & Gates to Common Use
 - Relocate Alaska to T2E & Spirit, Allegiant, Sun Country to T1W
- Phase II:
 - Remodel T1W for airline relocations
 - Relocate JetBlue to T1W

Major Milestones

- Phase I complete: Jan. 2019
- Phase II complete: April. 2019



Rehabilitate Cross Taxiways B1, B4 - B7, C3, C4 and C6



Completion Date: March 2019

Key Elements:

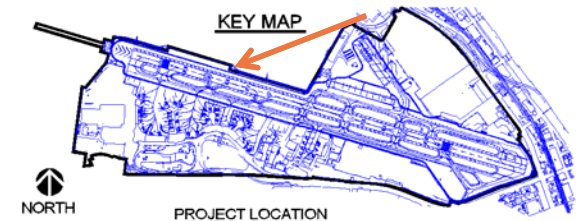
- Asphalt Milling and Overlay of Cross Taxiways
- Taxiway B1 Reconstructed with Concrete
- Taxiway C6 Realigned for ADG V Aircraft
- Work Completed During Hard Nightly Closure
- Upgrade Runway Status Lights

Current Status

- Contract Notice to Proceed issued to Granite Construction on October 11



North Side Vehicle Service Road (VSR) Replacement and Stormwater Drainage (SD) Improvements



Completion Date: January 2019

- Remove and Replace the VSR between the ARFF Station and Greenbuild Ramp
- Expand VSR to 2 lanes east of ILS
- Pavement Cap adjacent to Taxiway J and the FBO – Removed from Scope
- Construction Scheduling and Phasing requires FAA Access at all times during a 105 day construction duration including 70 day full closure period

Current Status

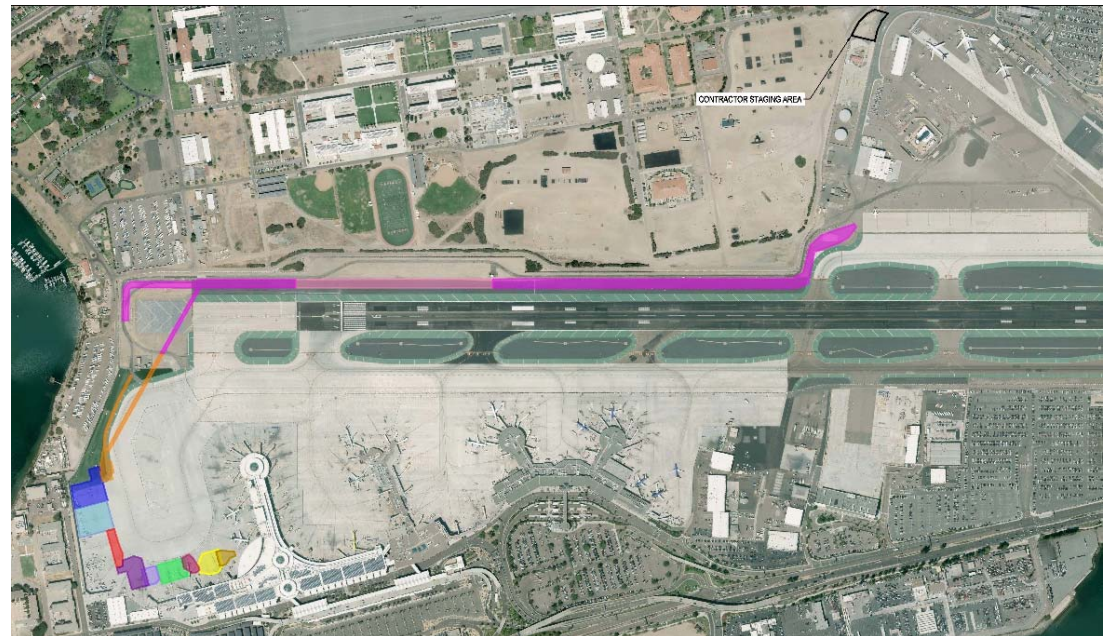
- Contract Notice to Proceed issued to Granite Construction on October 11



Hydrant Fueling Infrastructure

Completion Date: July 2020

- Bid Advertisement: October 3rd .
- Bid Opening scheduled for November 5th.
- Anticipated Construction Schedule:
 - Parallel to VSR: February-May 2019
 - Gate 51: September-December 2019
 - Gates 49 and 50: December 2019-April 2020
 - Gate 48: April 2020-July 2020



Airport Support Facilities Design-Build

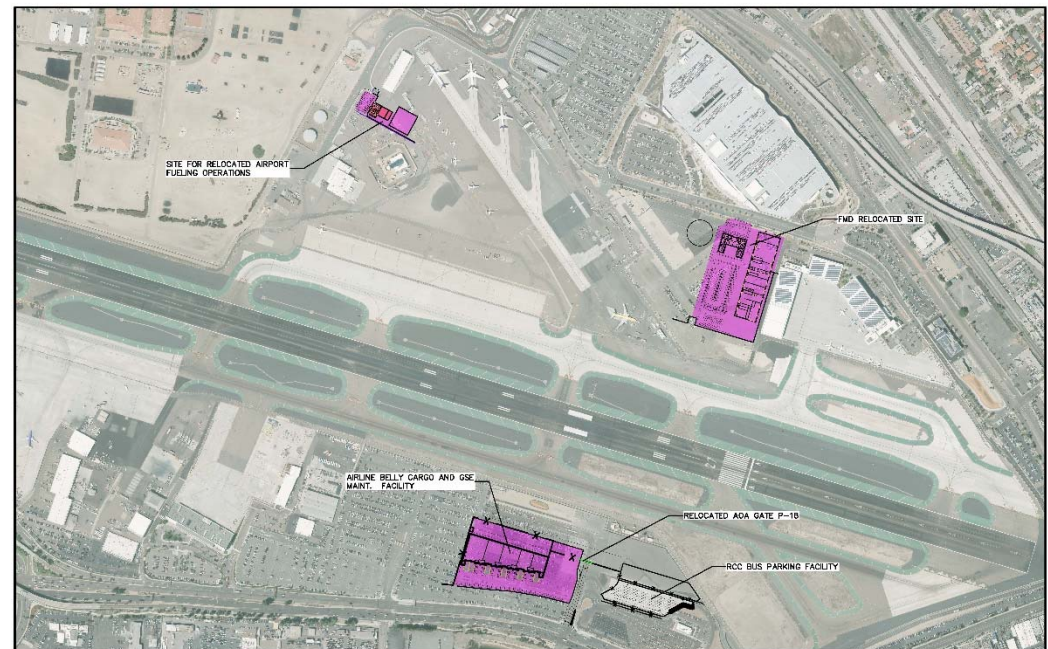
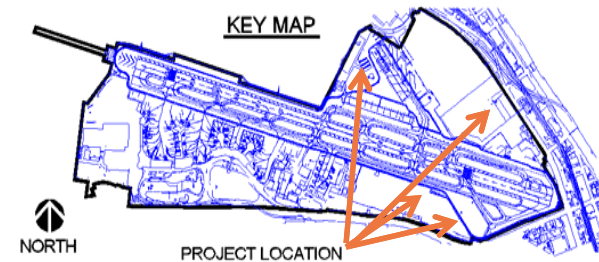
Construction Completion Date: March 2020

Current Status

- Validation Phase deliverables, including the Maximum Contract Price (MCP) and the Master Project Schedule (MPS), are currently being reviewed by the Authority project team
- Final lease negotiations for Airline Support Building ongoing

Anticipated Major Milestones

- Request Approval for Validation Amendment, including MCP and MPS, at November 2018 Board Meeting
- Nov. 2018: Begin early underground construction
- March 2020: Construction complete



Item 3



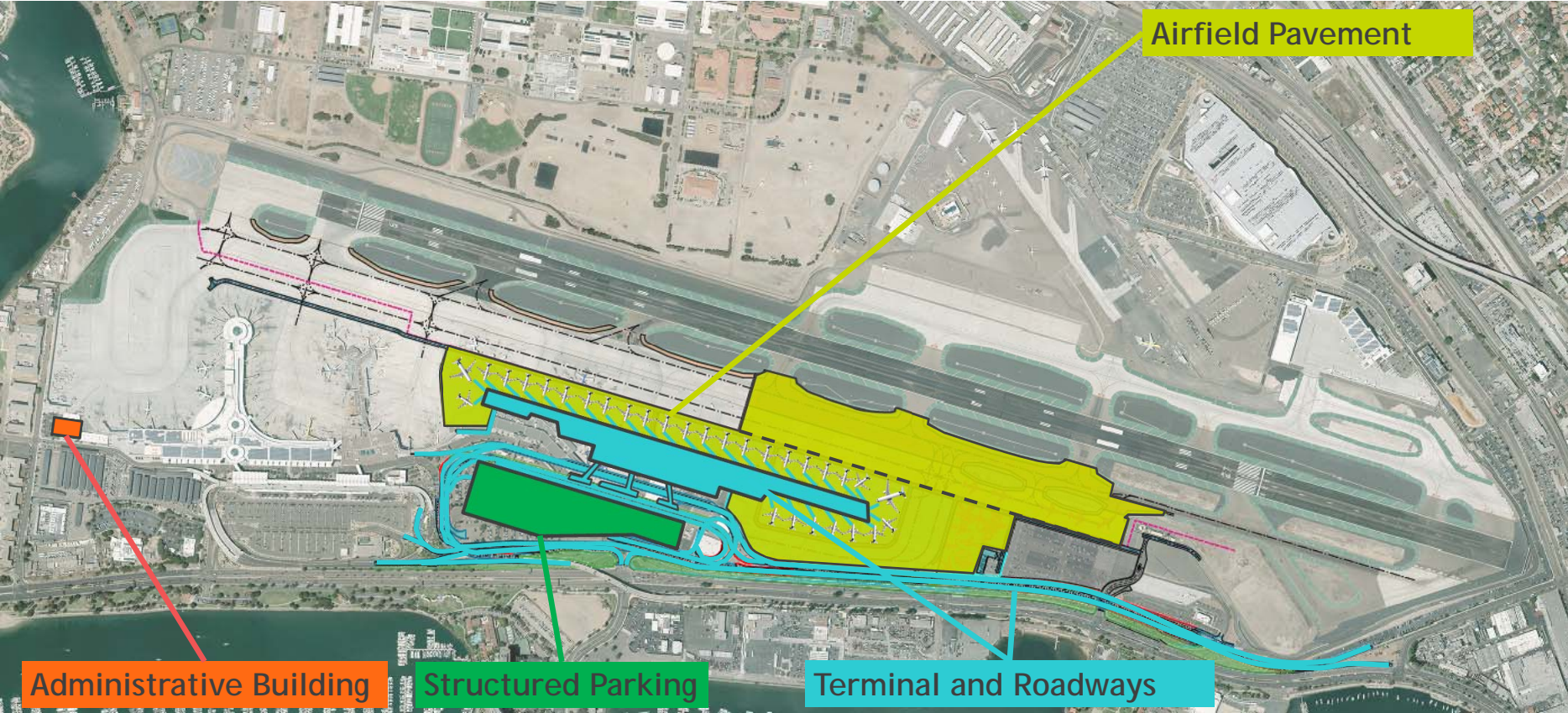
AIRPORT DEVELOPMENT PLAN UPDATE

October 18, 2018

Presented by:

Dennis Probst, Vice President, Development

ADP Phase 1 Potential Procurement Packages



Item 4



CONSTRUCTION PROJECTS FINANCE UPDATE

October 18, 2018

Presented by:
Geoff Bryant, Manager of Airport Finance

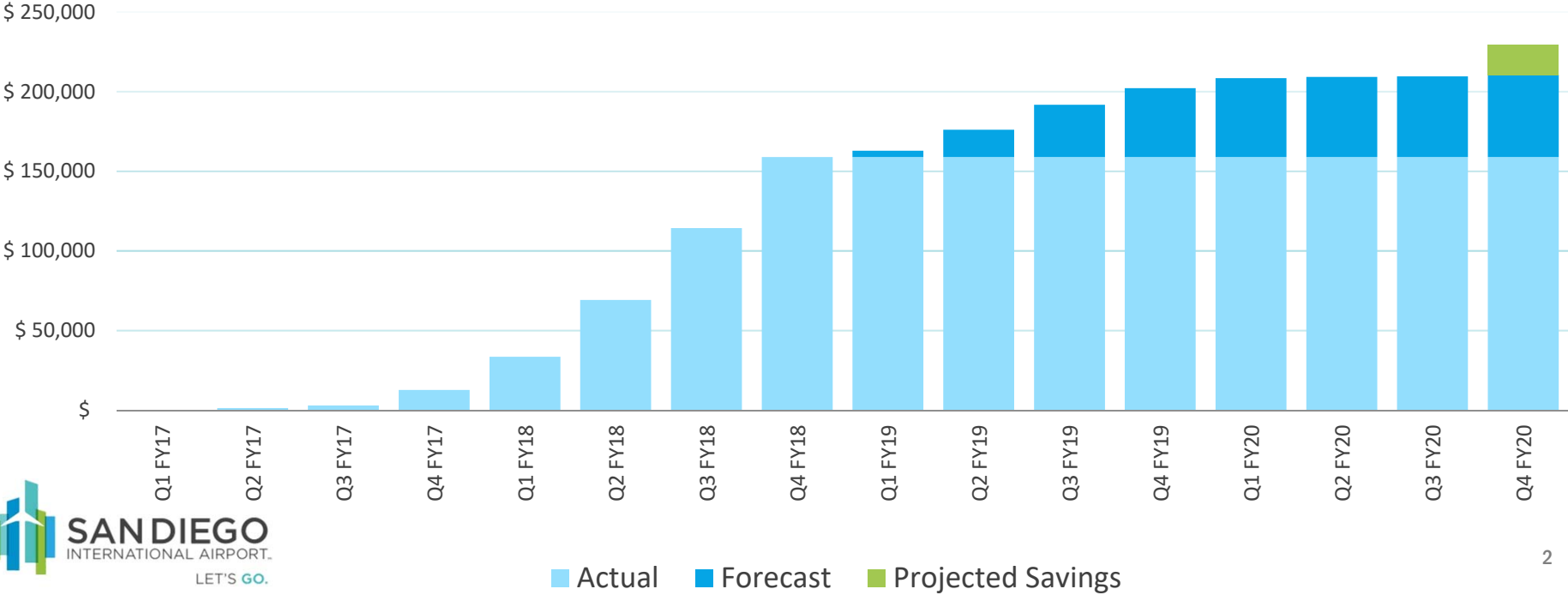


FIS Cost

As of August 31, 2018

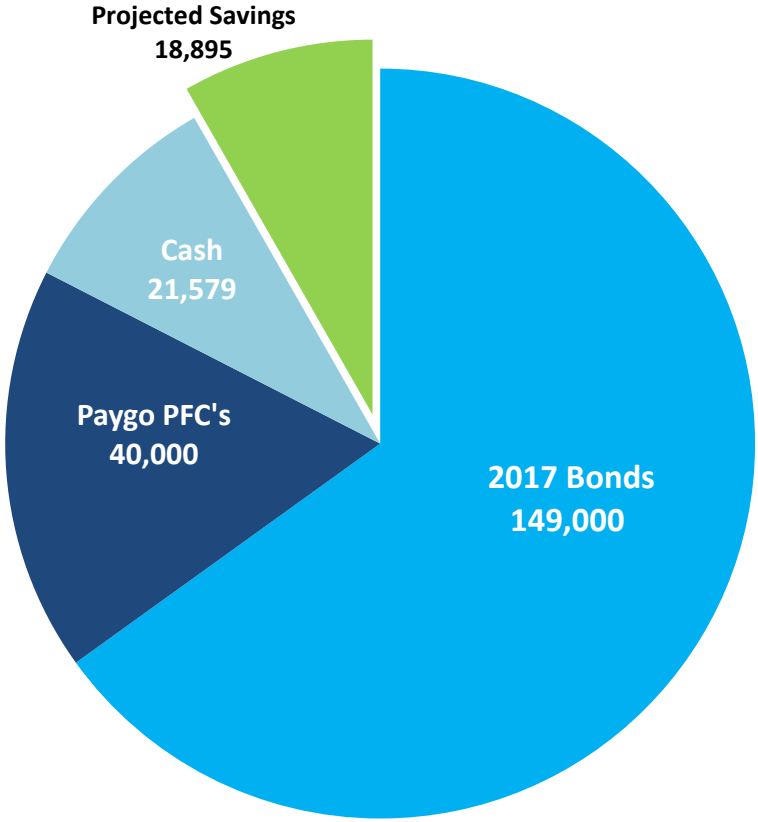
(amounts expressed in thousands)

	Approved Budget	Actual Costs	Forecast	Estimate at Completion	Projected Savings
FIS Project	\$ 229,474	\$ 158,886	\$ 51,693	\$ 210,579	\$ 18,895



FIS Funding Sources

As of August 31, 2018 (amounts expressed in thousands)



Other Projects

Costs thru August 31 2018

(\$ in Thousands)

	Board Approved Budget	Actual Cost incurred	Funding Source
AIRLINE RELOCATIONS and CUPPS	\$ 25,000	\$ 2,763	Future Bonds
HYDRANT FUELING INFRASTRUCTURE	\$ 51,433	\$ 614	Direct Airline Contribution
REHABILITATE CROSS TAXIWAYS (B1W, B4-B7, C3, C4, C6).	\$ 9,800	\$ 38	Grants/2017 Bonds
REHABILITATE NORTH SIDE VSR & STORM DRAIN IMPROVEMENTS	\$ 12,200	\$ 1,193	2017 Bonds



Questions?

● Ticketing
U S Airways

Item 5



SMALL BUSINESS DEVELOPMENT REPORT

Regina Brown,
Manager Small Business Development

October 18, 2018



OVERVIEW

- Parking Plaza
- Proposed Policy Change
- Federal Inspection System
- CARGO & ASF
- Education and Training

Parking Plaza Completed



Parking Plaza

COMMITMENT OVERALL	
Swinerton Small Business Commitment	35%
Subcontracted to Date	\$78.5 million
Small Business Commitment to Date	\$33.7 million (42.88%)

FIS Completed



Federal Inspection System

COMMITMENT OVERALL	
Turner/PCL Small Business Commitment	20%
Subcontracted to Date	\$125.2 million
Small Business Commitment to Date	\$32.7 million (26%)

ASF & Cargo



ASF & Cargo Facts

- Sundt Small Business commitment 35%
- Pre-Bid & Partnering Event June 26th Veterans Museum
- Pre-Bid & Partnering Event August 28th SBDC Carlsbad
- Partnering & Networking Event October 23rd Chula Vista
- Compliance Workshop November 2018

SBD Education & Training



- OSHA 30
- Turner School of Construction 38 participants
- Procurement 101
- Attended outreach events
- PodCast
- Lunch & Learn w/Joint Venture Concessionaires
- Meet the Primes
- Veterans Appreciation Lunch

Questions

Contact:
rbrown@san.org
619-400-2567





Small Business Development

Small, Local, and Veteran
Owned Business Program

October 18, 2018



Overview

- Exemptions
- One Policy
- Trackable and verifiable Local Business definition
- More opportunities provided for Veteran Owned Businesses
- Uniformed
- Simplified procurement calculations

Exemptions



Not applied on federally funded projects



Not applied on concession contracts



Not applied if it conflicts with applicable federal, state or local laws or regulations



Inclusionary Approach shall be applied to projects where subcontracting opportunities exist but have not been clearly defined

One Policy

Current Policies

5.12

5.13

5.14



Proposed
Policy

5.12

More opportunities provided for Veteran Owned Businesses



Currently

Service Disabled Veteran Owned Small Business

There is a very limited pool of certified SDVOSB.



Proposed

Veteran Owned Small Business

There is a wider pool of certified VOSB (may also include SDVOSB).

Trackable and Verifiable Local Business Definition

Currently a Local Business is one that meets the following criteria:



Has a valid business certificate issued by San Diego County, or a valid business license issued by a city within San Diego County



Occupies workspace within the County. Submit evidence that the business has been located within the county a minimum of 6 months prior to the release of a solicitation for which a business responds as a Local Business



Over fifty percent (50%) of the workforce based in the local office resides in San Diego County



It is headquartered in the County. “Headquartered” shall mean that the business physically conducts and manages all of its operations from a location in the County

Trackable and Verifiable Local Business Definition

Proposing a Local Business be defined as one that meets the following criteria:



Has a valid business certificate issued by San Diego County, or a valid business license issued by a city within San Diego County



Occupies workspace within the County. Submit evidence that the business has been located within the county a minimum of 6 months prior to the release of a solicitation for which a business responds as a Local Business



Submit proof to the Authority that the business is in compliance with all applicable laws relating to licensing and is not delinquent on any San Diego County taxes



Must complete the Local Business Enterprise Affidavit of Eligibility form and be enrolled in the Authority's Local Business Enterprise Directory

Submit proof demonstrating one of the following:

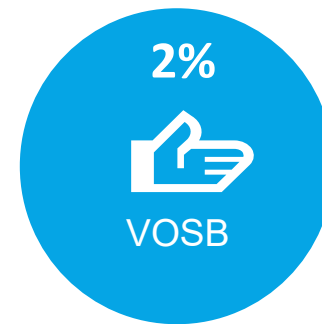


Over fifty percent (50%) of the workforce based in the local office resides in San Diego County



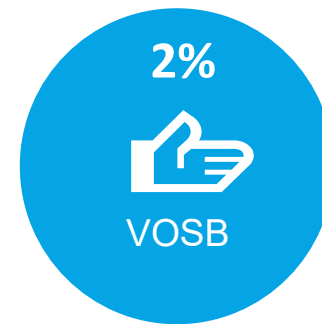
It is headquartered in the County. "Headquartered" shall mean that the business physically conducts and manages all of its operations from a location in the County

Uniformed



-
- On project with no apparent subcontracting opportunities, Prime contractor or consultant will be provided an opportunity to receive up to 3 types of preference.
 - Up to 7% preference with a \$200,000 maximum

Simplified Procurement Calculations



-
- On projects with available subcontracting opportunities that have been clearly defined, SBD will set SB, LB, and VOSB goals.
 - To receive preference, respondents must meet the goal(s)
 - Up to 7% preference with a \$200,000 maximum

Questions

Contact:

Regina Brown,
Manager, Small
Business Development
rbrown@san.org
619-400-2567



Item 6



Sustainability Management Planning: *Progress Update*

Brendan Reed

Director, Planning & Environmental Affairs

Chad Reese

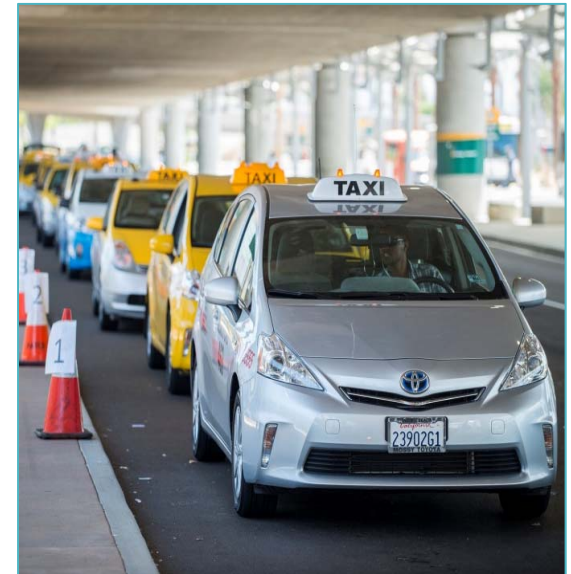
Manager, Environmental Affairs

Ralph Redman

Manager, Airport Planning

Presentation Overview

- Sustainability Management Planning Grant
- Carbon Neutrality – Draft Goals
- Clean Transportation – Draft Goals
- Climate Resilience – Sea Level Rise Modeling
- Next Steps



Airport Sustainability Management Plans are...

“a comprehensive and systematic framework for integrating sustainability into an airport’s long-range planning and operations.”



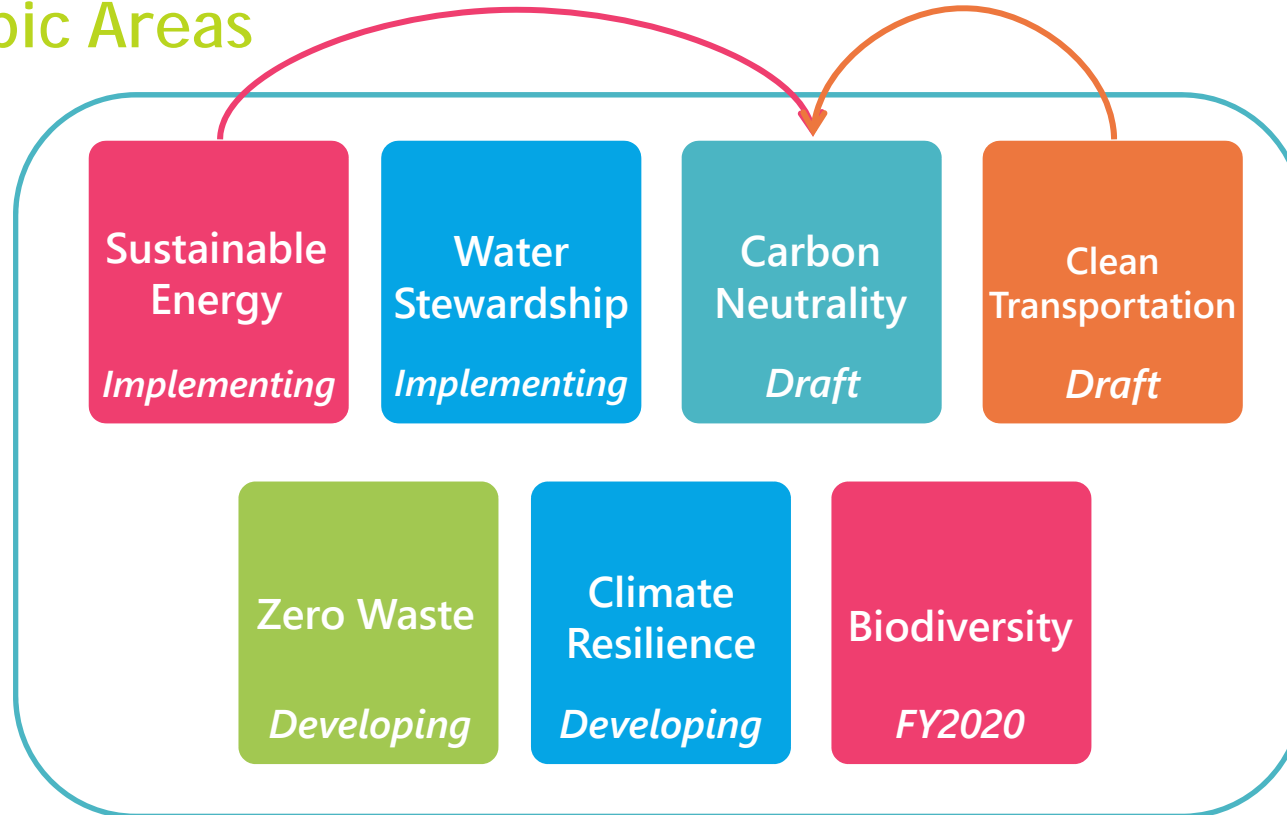
**\$500,000
Grant**

Strategic Value:

- Accomplishes Strategic Plan initiative (2B)
- Establishes achievable, non-binding goals
- Provides internal alignment
- Supports pursuit of grant funding
- Demonstrates continued leadership

Sustainability Management Planning

Main Topic Areas





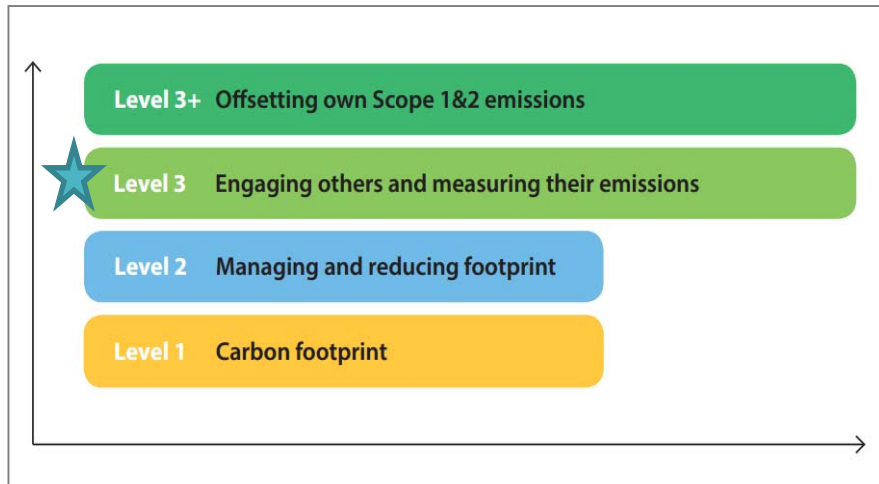
Carbon Neutrality

Air Quality & Emissions

● Ticketing
U S Airways

Carbon Neutrality

Airport Carbon Accreditation



“Authority-Controlled”
Scope 1 & 2 - Emissions from activities which the airport company are directly responsible for

“Authority-Influenced”
Scope 3 - Emissions from activities which the airport does not directly manage but can guide and influence

“Achieve Airport Carbon Accreditation level 3+ (carbon neutrality).”

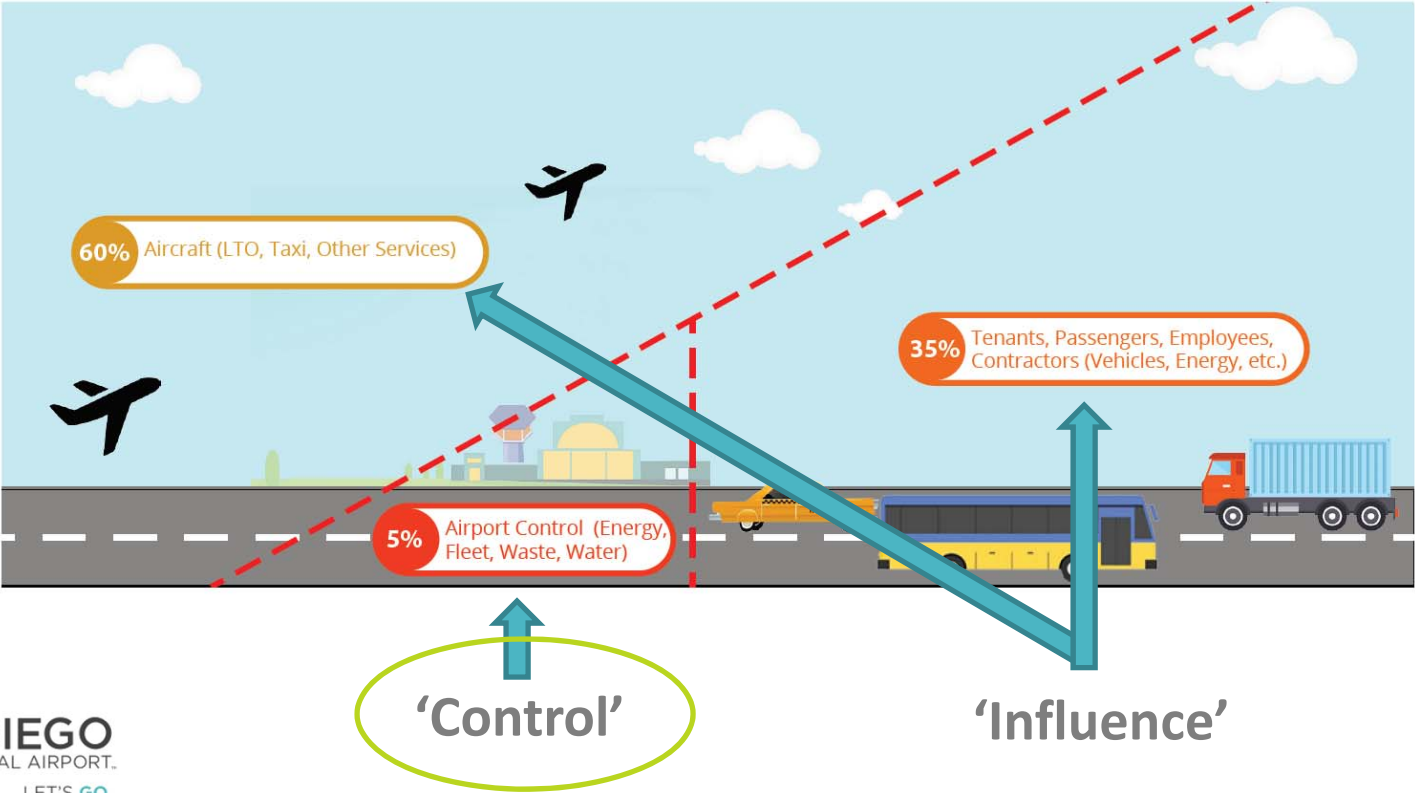
- Airport Authority Strategic Plan 2017-2022



★ SAN's Current Certification Level

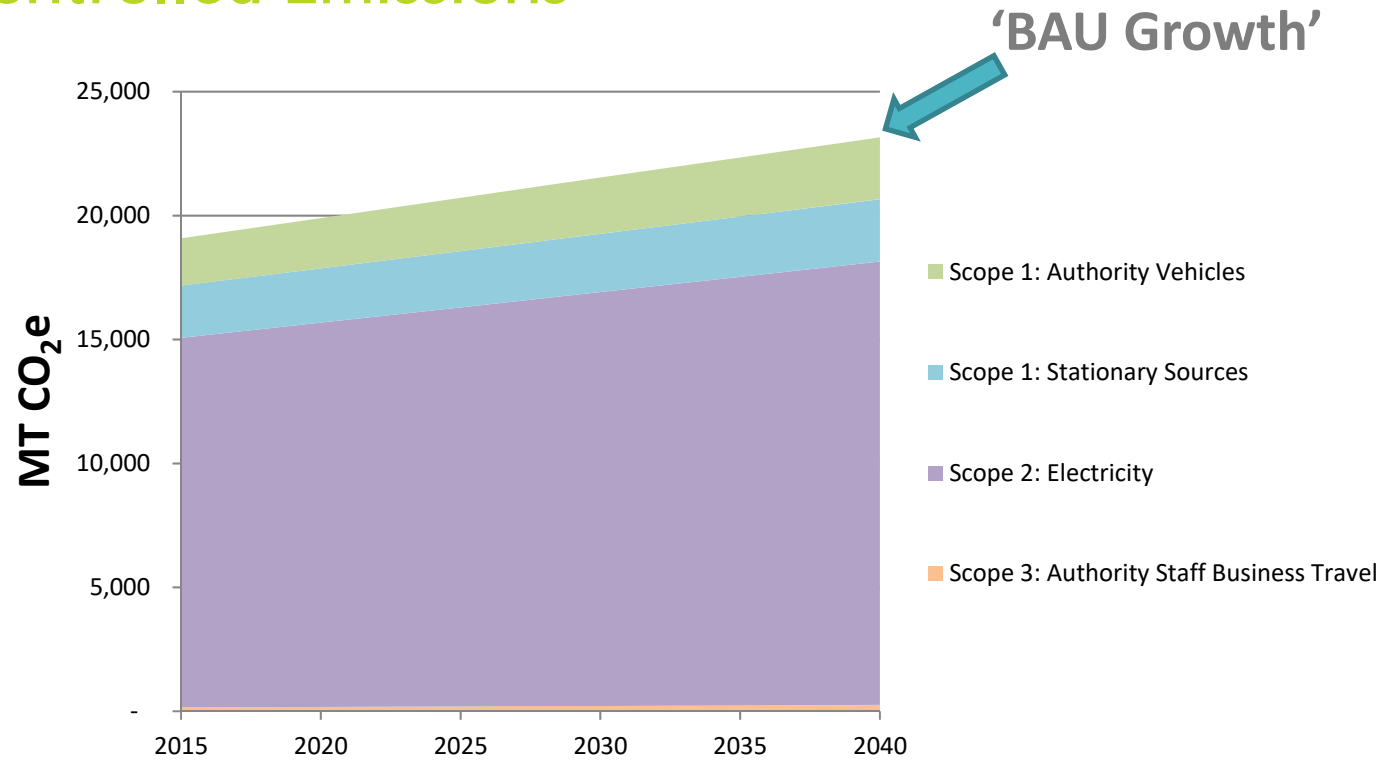
Carbon Neutrality

Airport GHG Emissions Sources



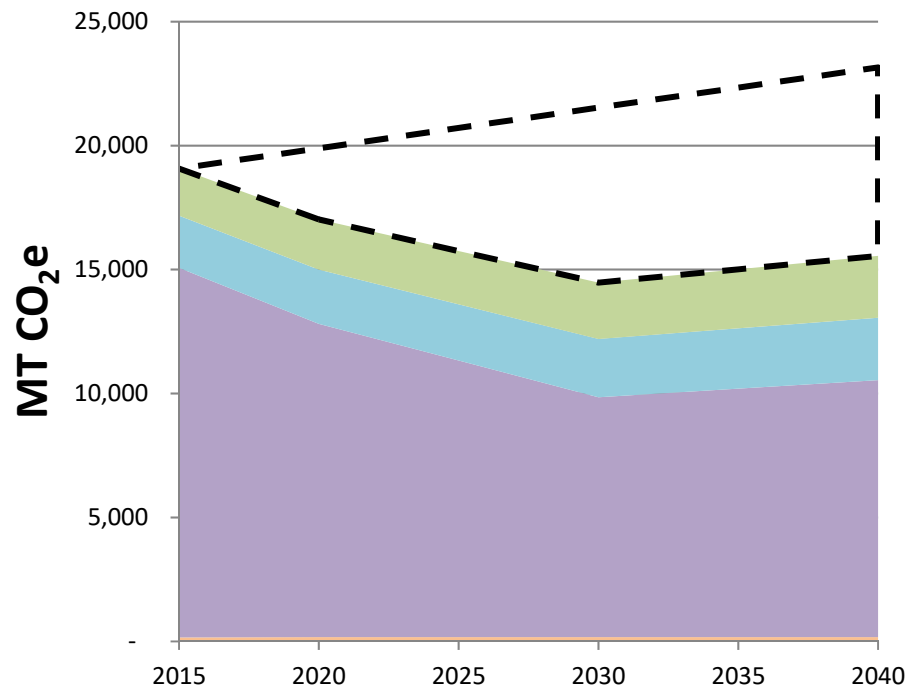
Carbon Neutrality

Authority-Controlled Emissions



Carbon Neutrality

Authority-Controlled Emissions



EXTERNAL DRIVERS

California

GHG Reduction Targets (AB32/SB32/EOs)

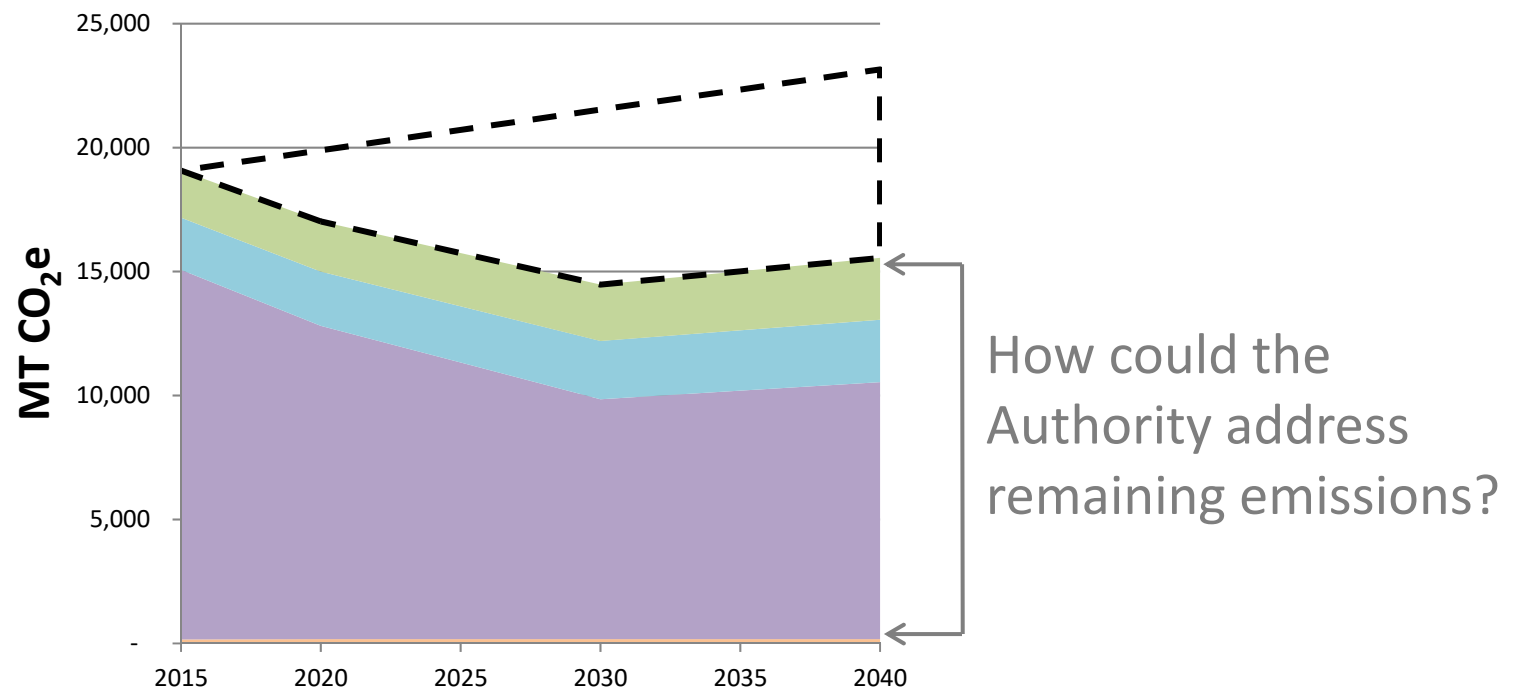
- 1990 levels by 2020
- 40% below 1990 levels by 2030
- 80% below 1990 levels by 2050

Transportation-Specific Regulations

- Fuel Efficiency Standards
- CALGreen code
- Innovative Clean Transit (ICT)

Carbon Neutrality

Authority-Controlled Emissions



Carbon Neutrality

Authority-Controlled Emissions

Main Strategies



Onsite Renewable Electricity & Batteries
[Strategic Energy Plan]



Grid-Delivered Renewable Electricity
[Strategic Energy Plan]



High-Performance Facilities
[Strategic Energy Plan]



Alternative Fuel Equipment



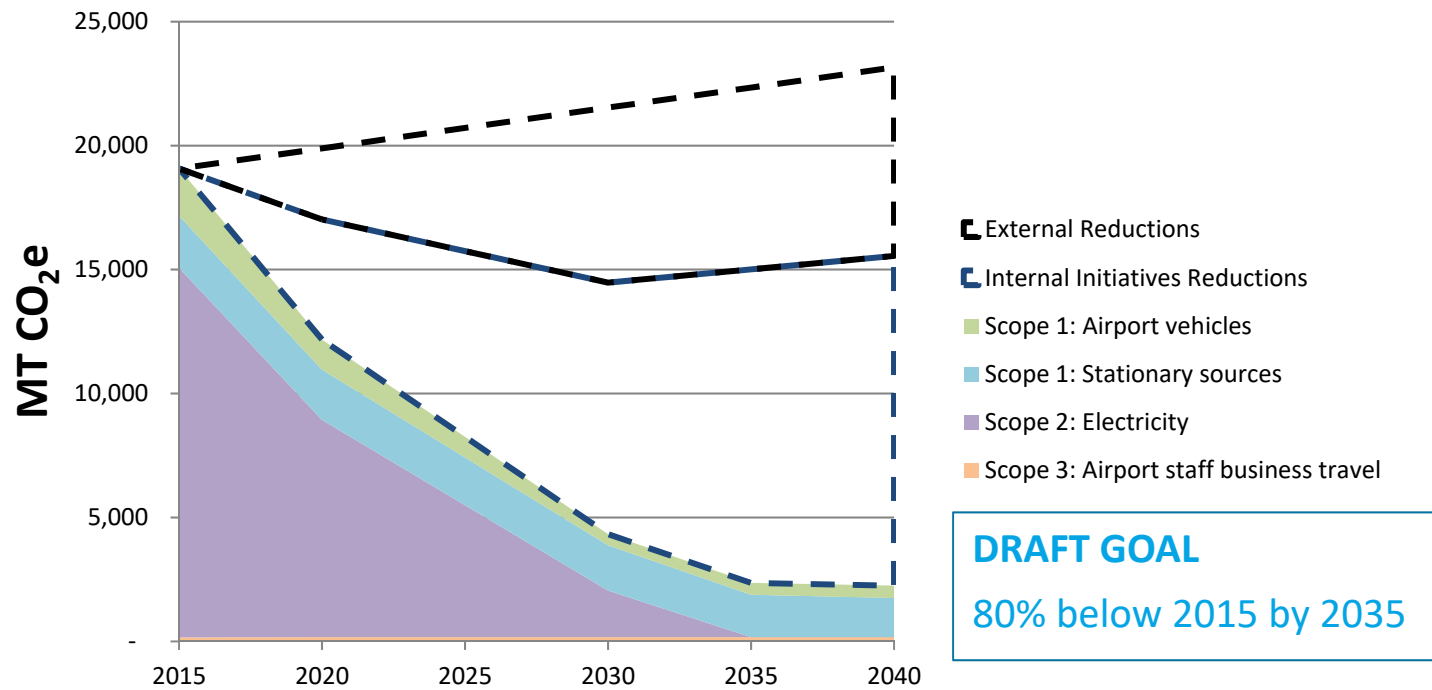
Electric Fleet Vehicles



Metric	Target
Operationally-Controlled GHG Emissions including Scope 1, 2, & Authority staff business travel	80% below 2015 levels by 2035

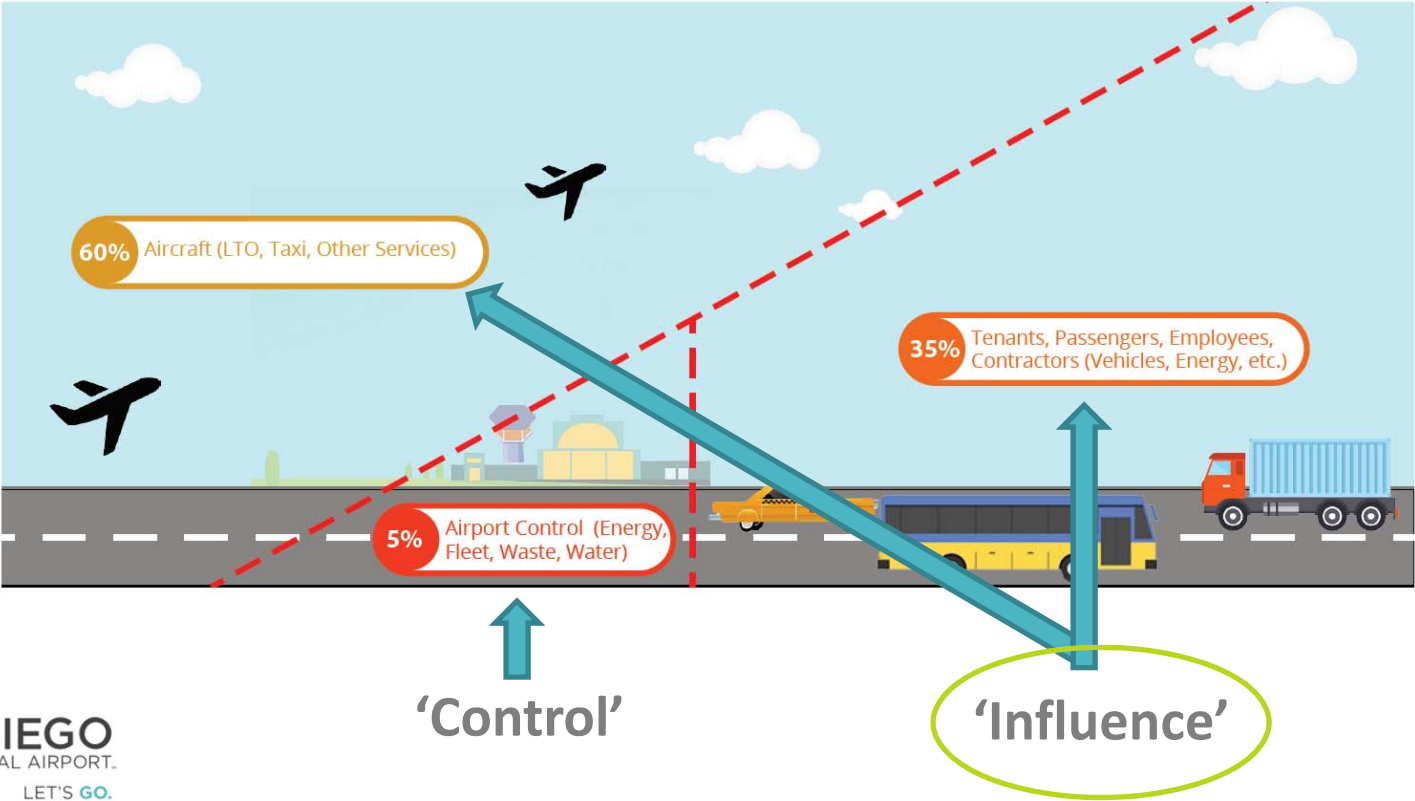
Carbon Neutrality

Authority-Controlled Emissions w/ Reductions



Carbon Neutrality

Airport GHG Emissions Sources



Carbon Neutrality

Authority-Influenced Emissions

Main Strategies



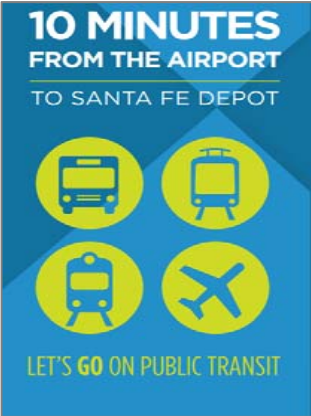
Support Sustainable Aviation Fuel Use



Improve Airfield Efficiency



Expand EV Charging & Parking



Facilitate Alternative Access Modes
[Airport Transit Plan]



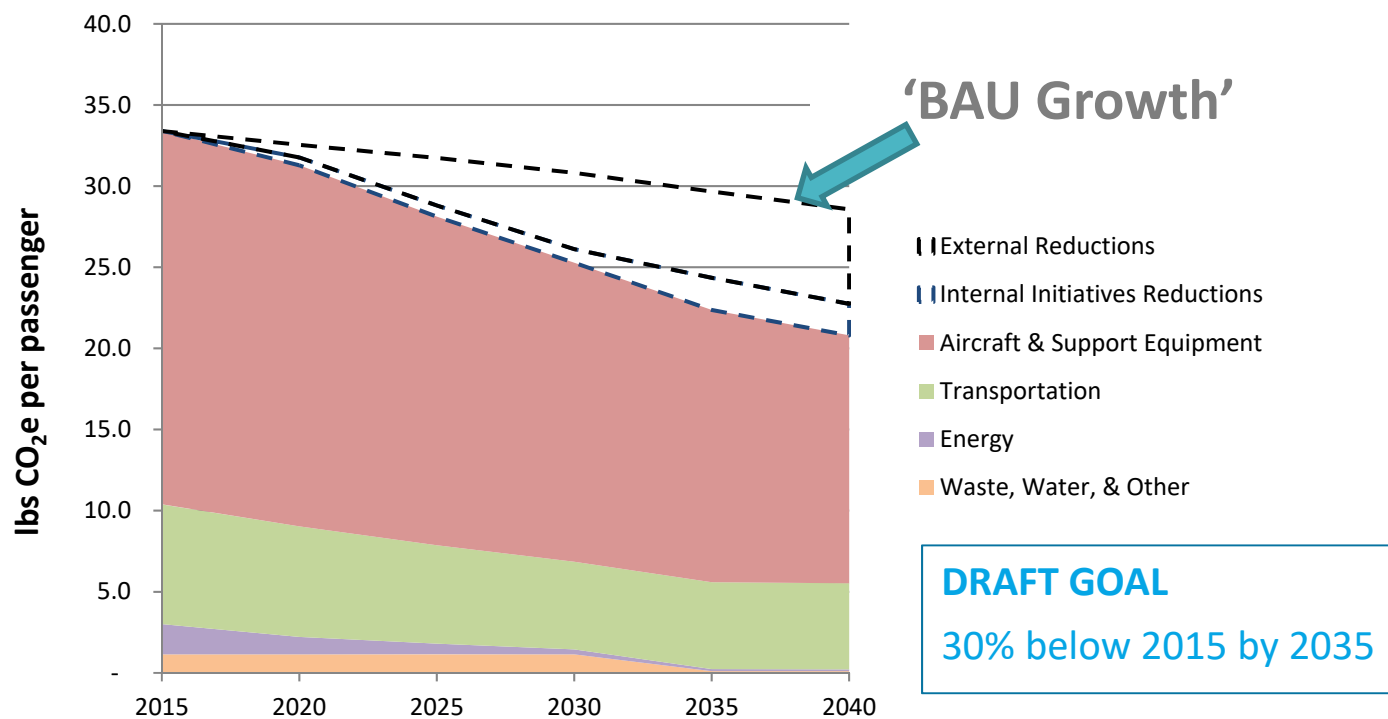
Reduce Potable Water Use
[Water Stewardship Plan]

Metric	Target
GHG intensity measured by Scope 1, 2, & 3 emissions per passengers	30% below 2015 levels by 2035



Carbon Neutrality

Airport-Wide Emissions w/ Reductions





Clean Transportation

Clean Transportation

GOAL 1: Authority's Fleet Vehicles & Equipment



Metrics	Targets
Conversion of Authority owned vehicles to hybrid, electric, or alternative fuels.	100% by 2035
Conversion of Authority owned equipment to hybrid, electric, or alternative fuels.	80% by 2035

Clean Transportation

GOAL 2: Clean Vehicles & Airport-Wide Parking



Metric	Targets
Airport-wide parking (employee, passenger, etc.) designated for clean air vehicles* and/or EV-ready with pre-wiring.	Step 1: 20% by 2025 Step 2: 50% by 2035

Clean Transportation

GOAL 3: Low Carbon Ground Transportation Operators



Metrics	Targets
Use GHG rating (GGR*) to measure GHG intensity (gCO _{2e} /mile) of ground transportation providers (taxi, shuttle buses, hotel vans, TNCs, etc.)	Step 1: GGR of 9 by 2020 Step 2: GGR of 10 by 2030



*GGR of 9 = 205-237 g/mile; GGR of 10 = 0-204 g/mile (www.fueleconomy.gov)

Clean Transportation

GOAL 4: Transit & Other Sustainable Modes



Metrics

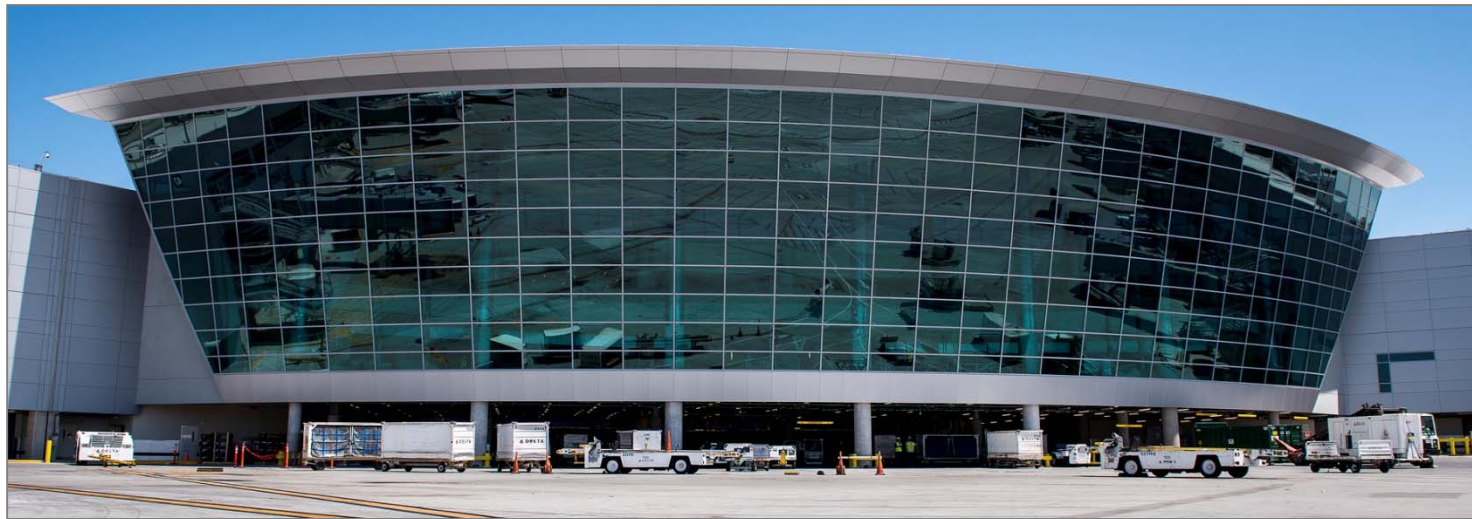
Passengers and employees that use sustainable transportation methods (e.g. public transit, vehicles sharing options such as carpool/vanpool, bicycle) to travel to/from SAN

Targets

15% by 2035

Clean Transportation

GOAL 5: Airline, Tenant, & Contractor Clean Vehicles

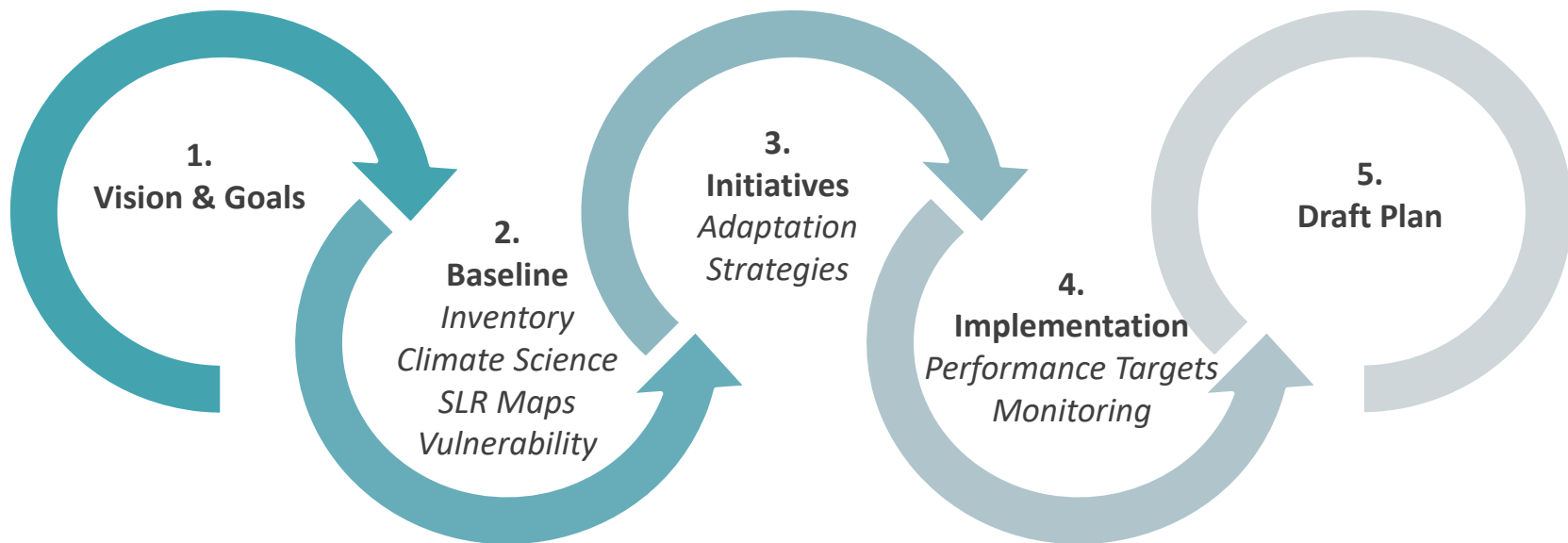


Metrics	Targets
Conversion of vehicles to hybrid, electric, or alternative fuels	100% by 2035



Climate Resilience

Climate Resiliency Plan



Climate Resiliency Plan



Draft vision:



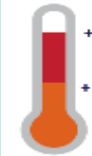
To deliver uninterrupted airport service in a changing climate and provide resilience leadership in the aviation industry

Draft goals:

- Reduce risks associated with climate change to ensure business continuity
- Integrate climate resilience into airport operations and development decisions
- Provide regional and industry leadership in climate resilience
- Maintain a quality passenger experience as climate changes

Climate Stressors



Climate Hazard	2050	2100	Source
SLR 	1.6 Feet	2.5 Feet 4.9 Feet	OPC 2018
Precipitation 	No change (SAN Drainage Study)	+0.2” annual increase Less frequent, but slightly heavier rainfall	SAN Drainage Study CAL-Adapt
Heat 	+5.5 days extreme heat + 1 day heat wave duration	+23.5 days extreme heat + 3 days heat wave duration	Extreme >89° CAL-Adapt CHAT
Other:			
Wildfire	Some data, still an area of active research		
Wind/Fog	No strong future trends observed in data		

Sea Level Rise



SLR Coordination

- Projections chosen to match ongoing Port District efforts as part of AB 691
- Analysis prepared for years 2030, 2050, and 2100
- Mapping will be provided to Port for inclusion in report

SLR Projections

- Projections were based on State of CA SLR projections
- Scenarios chosen to address median (50% probability) and 1-In-20 Chance (5% probability)

SLR Model




- COSMOS 3.0 chosen as model to match Port District
- Model provides for analysis of future years
- Most commonly used for other local efforts

SLR Mapping

- Airport Authority prepared 2016 LIDAR used in SLR modeling
- COSMOS uses 2010 LIDAR

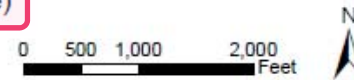


Legend

-  Airport Boundary
-  Daily Tide (Permanent Inundation)
-  100-Year Storm Surge (Temporary Flooding)

San Diego International Airport




0.8 ft Sea Level Rise: Year 2030 (1-in-20 Chance)



Data Sources: Cosmos; San Diego Airport; AECOM; SANDAG & SanGIS.

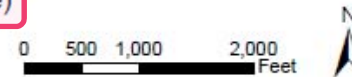


Legend

-  Airport Boundary
-  Daily Tide (Permanent Inundation)
-  100-Year Storm Surge (Temporary Flooding)

San Diego International Airport




1.6 ft Sea Level Rise: Year 2050 (1-in-20 Chance)



Data Sources: Cosmos; San Diego Airport; AECOM; SANDAG & SanGIS.



Legend

-  Airport Boundary
-  Daily Tide (Permanent Inundation)
-  100-Year Storm Surge (Temporary Flooding)




San Diego International Airport
2.5 ft Sea Level Rise: Year 2100 (Median)



Data Sources: Cosmos; San Diego Airport; AECOM; SANDAG & SanGIS.



Legend

-  Airport Boundary
-  Daily Tide (Permanent Inundation)
-  100-Year Storm Surge (Temporary Flooding)

San Diego International Airport

4.9 ft Sea Level Rise: Year 2100 (1-in-20 Chance)

0 500 1,000 2,000 Feet

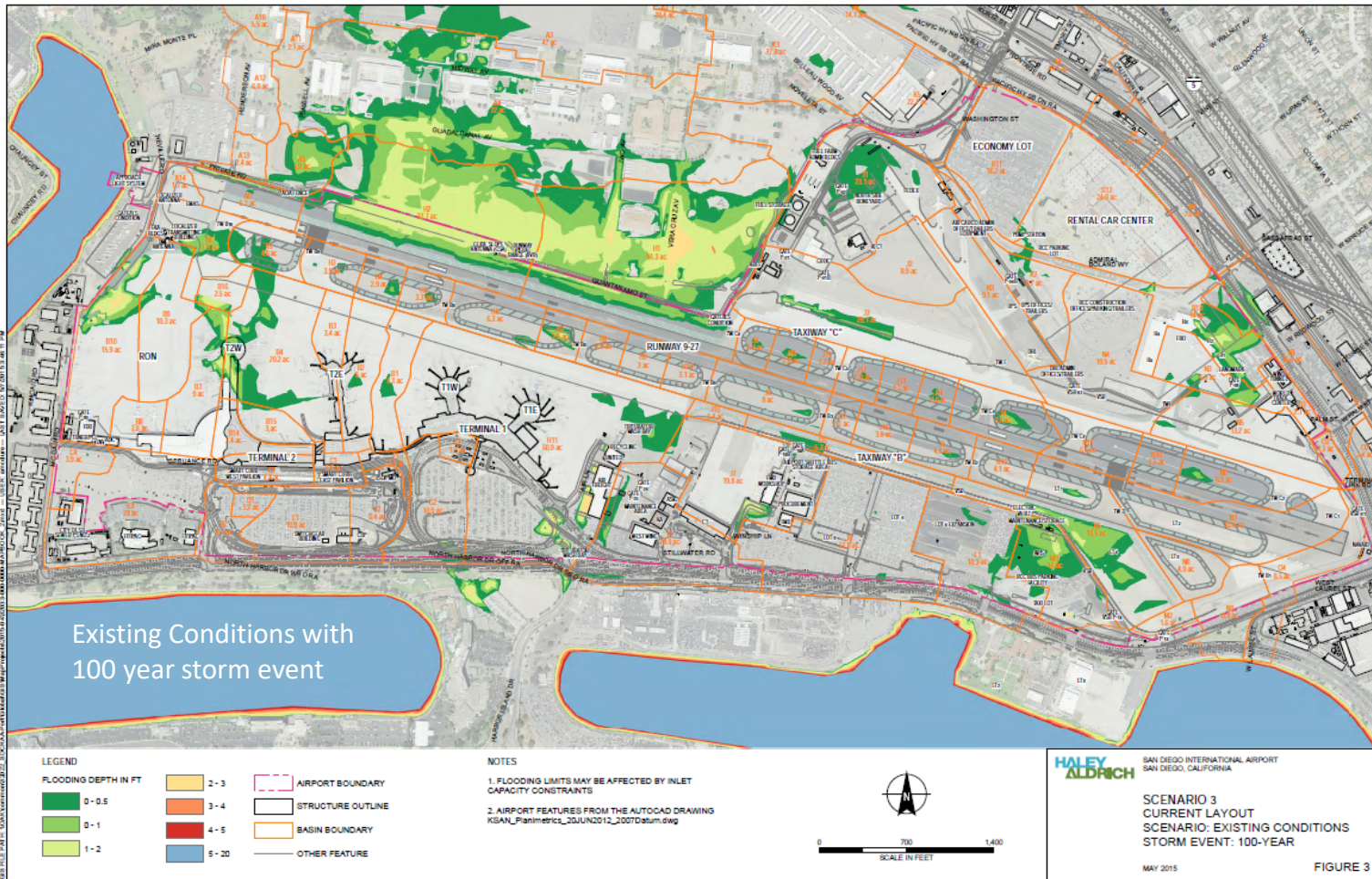


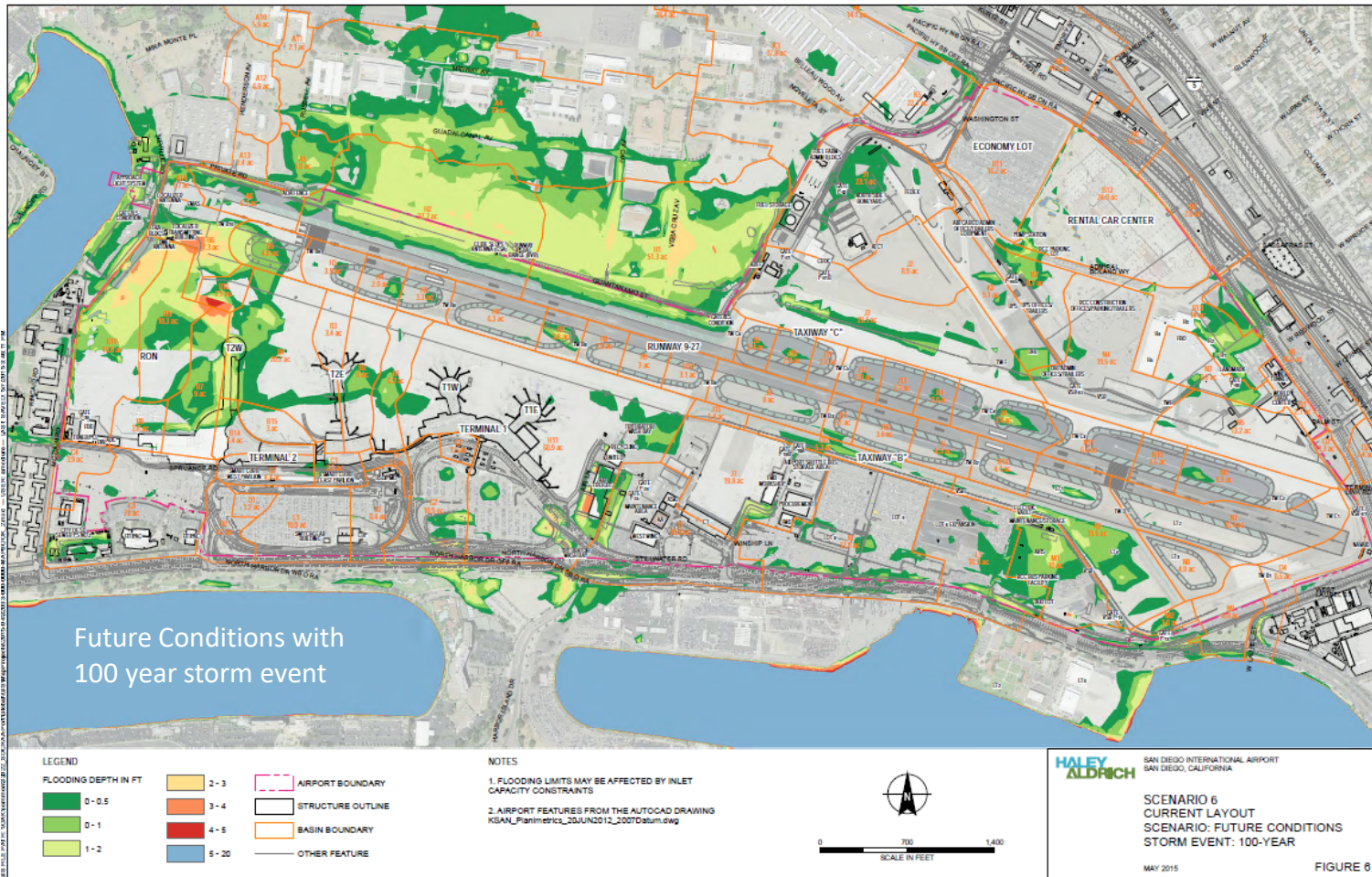
Data Sources: Cosmos; San Diego Airport; AECOM; SANDAG & SanGIS.

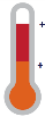


Year 2100:
4.9 ft. SLR with
100 year storm
surge

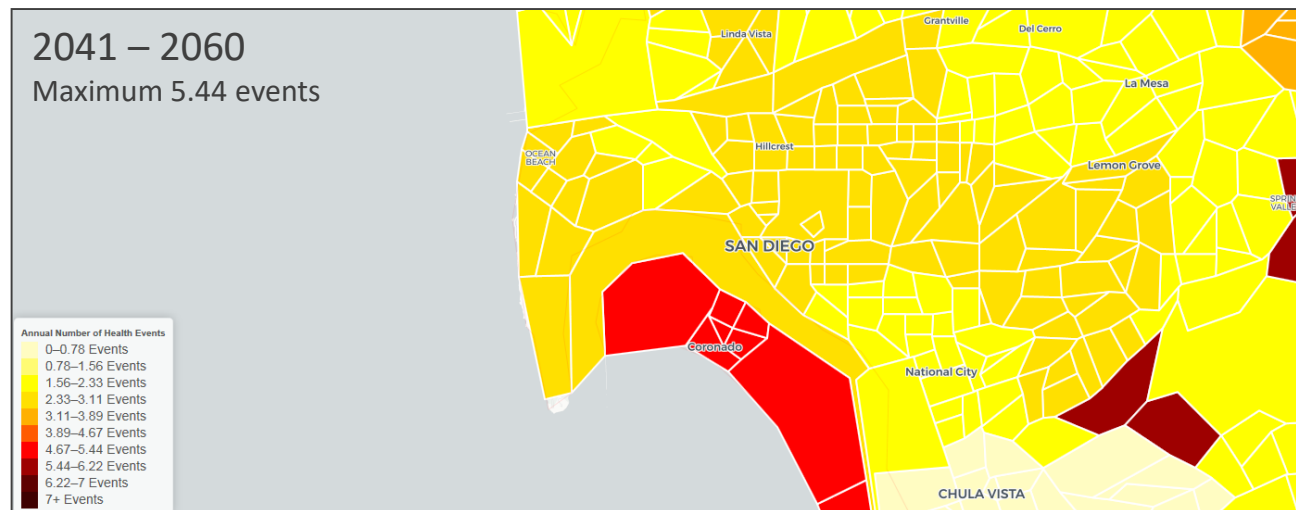
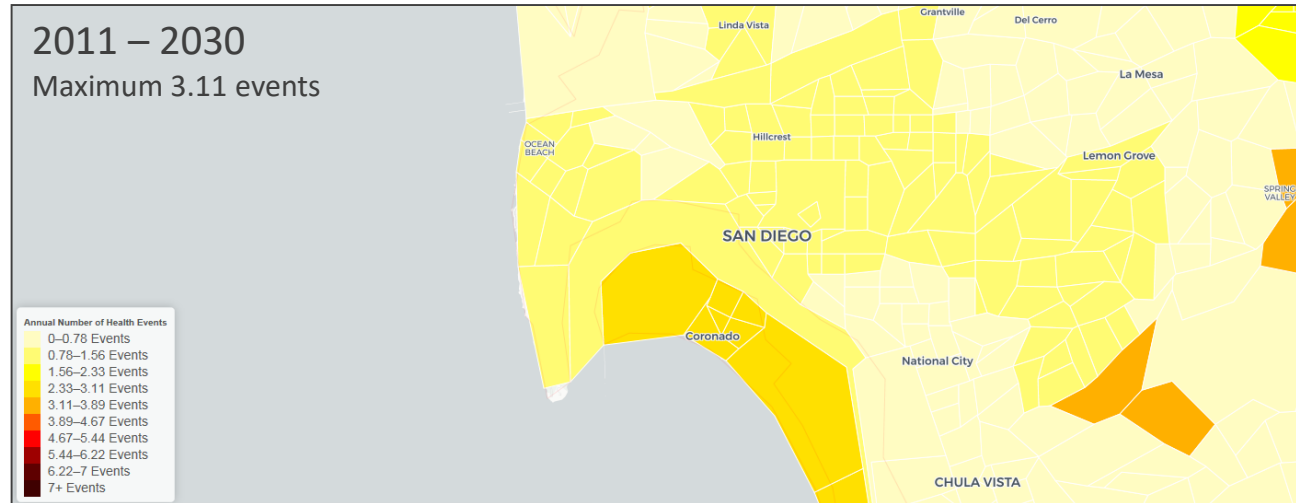




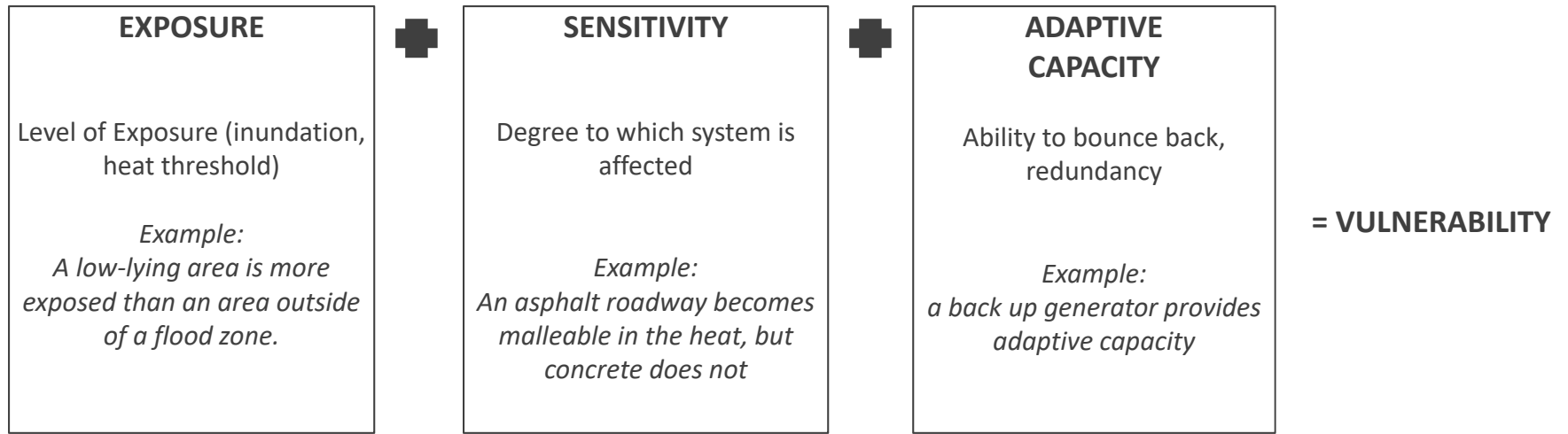




Extreme Heat
Event = over 89°



Vulnerability Assessment



Consequences

- Economic (operation disruptions, damage)
- Social (passenger experience)
- Environmental (Least Tern)



Next Steps & Questions