## On-Airport Bypass Roadway Alternatives Airport Development Plan



San Diego International Airport


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## Agenda

A Process \& Objectives
B Planning Considerations
C Terminal Roadways
D On-Airport Bypass Road Alternatives
(E) Next Steps


## A



## Process

## Objectives

Opportunities, constraints \& considerations

## Alternatives Developed

Initial brainstorm / vetting

Coordinate alternatives with Airport staff Elimination of some alternatives


Comparative Analysis

SANDAG model to remaining alternatives

LOS determination for alternative segments


## Objectives

- Remove Airport traffic from N. Harbor Drive
- Connect the On-Airport access roadway efficiently and cost effectively to the city street network
- Improve connectivity to Interstate 5, if possible
- Align with regional traffic objectives (SANDAG)
- Maintain western access (Point Loma)


## Evaluation Criteria

- Removes airport traffic from Harbor Drive
- Improves connectivity to l-5
- Aligns with regional traffic objective (Pacific Highway vs. Harbor Dr.)
- Level of improvements required to off airport roads (for non-airport traffic)
- Level of impacts to off-airport traffic flows
- Level of impacts to off-airport facilities
- Level of impacts to airport facilities
- Cost implications
- LOS results


## B



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## Planning Considerations - Protect Runway Operations



## Planning Considerations - North Side



- North Side Improvements
- Marine Corps Recruit Depot (MCRD)
- Intermodal Transit Center (ITC)

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## Planning Considerations - Regional Transportation



- Limitations of existing I-5 exit ramps
- Railroad crossings along the I-5 /Pacific Highway corridor

- Waterfront redevelopment
- Southbound redirect of Harbor Drive


## Planning Considerations - Traffic Volumes

- Refinements were made to the SANDAG traffic model to align model assumptions with airport plans
- Baseline (2014) and forecast (2035) volumes are being used to model alternatives


## C



## Terminal Core - Terminal Layout (Alternative \#4)



## Harbor Drive Bypass Roadway



# On-Airport Bypass Road Alternatives 



## Alternative 1.1: One Way Streets

> Hawthorn Street Removed Between Pacific Highway \& Harbor Drive
Hawthon street DISMISSED
(Complexity \& Pac. Hwy/Laurel Intersection Problems

## - Changes local traffic patterns

- Eliminates four signalized intersections


## Alternative 1.2: Terminal Core Flyover

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## Alternative 1.3: Laurel Street Flyover



## Alternative 1.3a: Laurel Street


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## Alternative 1.4: Single Roundabout



## Alternative 1.5: Harbor Drive Flyover



## Alternative 1.6: Stacked Roadway



## Alternative 1.7: Elongated Roundabout



## Alternative 1.8: Laurel becomes Airport-only



## Airport Access Road/Off-Airport Road Connection

Selected Alternatives


## E

## Next Steps



## 4

## Next Steps

- Continuing partnership with SANDAG to complete the traffic model runs for each alternative
- Perform LOS (level of service) analysis on alternatives to:
- Validate number of lanes required
- Validate roadway geometry
- Compare LOS of existing conditions, future w/out changes and future w/alternative
- Identify ROM costs
- Refine alternatives and prepare final comparative analysis
- Coordinate with Stakeholders and recommend preferred alternative(s)


## Comparative Analysis/Evaluation Matrix

## - Evaluation Matrix

- Rankings (where quantifiable) are from 1 to 5 where 1 is the best
- Lowest total ranking will be presented as the preferred alternative


## - Criteria

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- Level of impacts to airport facilities
- Cost implications
- LOS results


## Evaluation Matrix

Consultant Work Product for Discussion Purposes Only
Preliminary Alternatives Evaluation


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## QUESTIONS?

