



2016  
2040 RTPSCS

AVIATION GROUND ACCESS UPDATE

# Aviation Technical Advisory Committee

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# Ground Access Analysis

Task is to create model trip tables for incorporation into the RTP/SCS model that reflect ground trips from the region to each airport.

- Development of trip tables requires several steps
  - Trip Generation
  - Trip Distribution
  - Mode of Arrival

# Ground Access Analysis

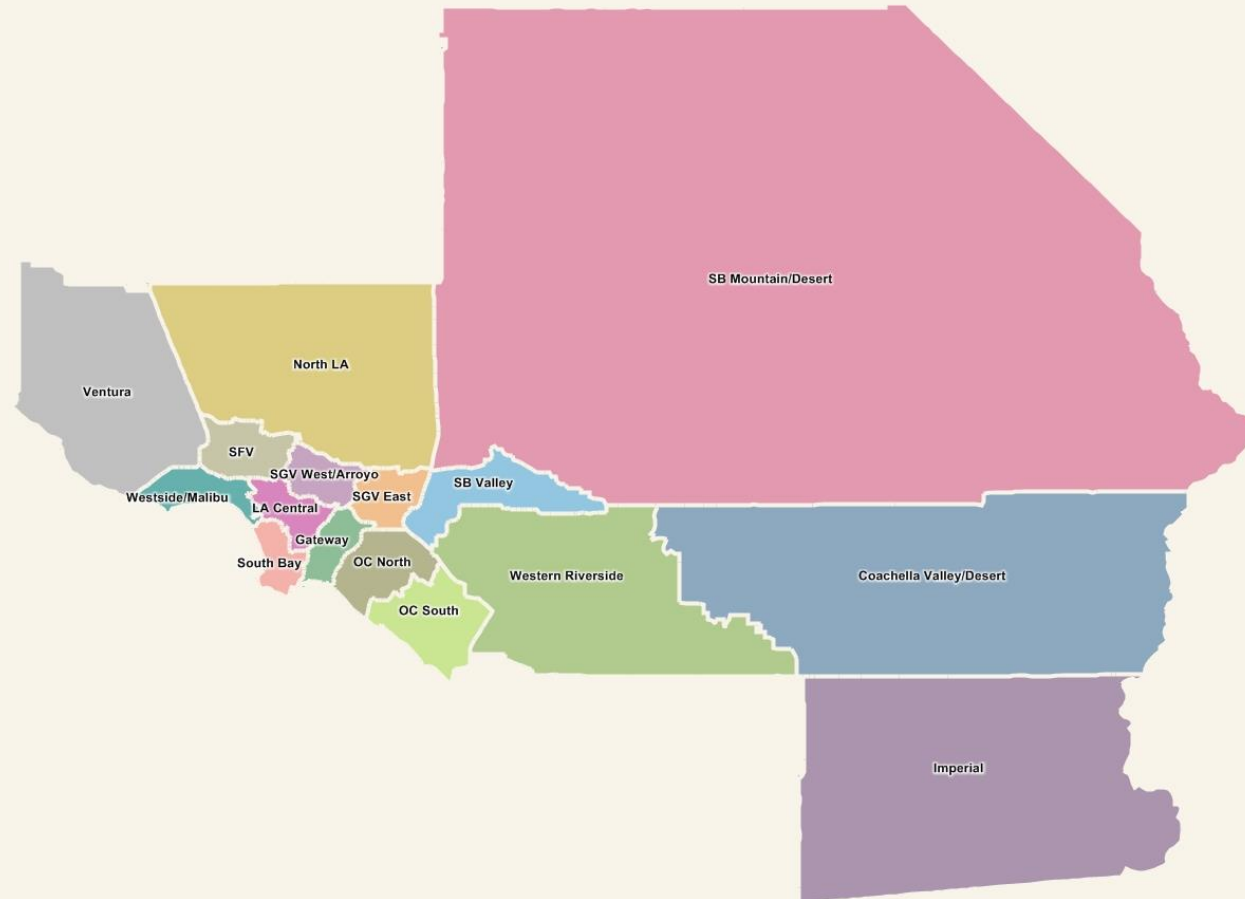
## Trip Generation

- How many airport trips does each part of the region generate?
  - Draw on passenger surveys conducted by airports that ask about trip origins
  - Identify socio-economic data that SCAG already has that correlate with the number of airport trips from each subregion
  - Apply correlations to each model zone (~4000)

# Ground Access Analysis

How many airport trips does each part of the region generate?

- Because of small sample size in passenger surveys, data were aggregated into subregions that would have similar relationships with each airport



# Ground Access Analysis

## Trip Generation

- How many airport trips does each part of the region generate?
  - Identify socio-economic data that SCAG already has (for 2012 base year) that correlate with the number of airport trips from each subregion
  - Apply correlations to each model zone (~4000)

	Resident	Visitor
Business	??	??
Non Business	??	??

# Ground Access Analysis

## Trip Generation

- How many airport trips does each part of the region generate?
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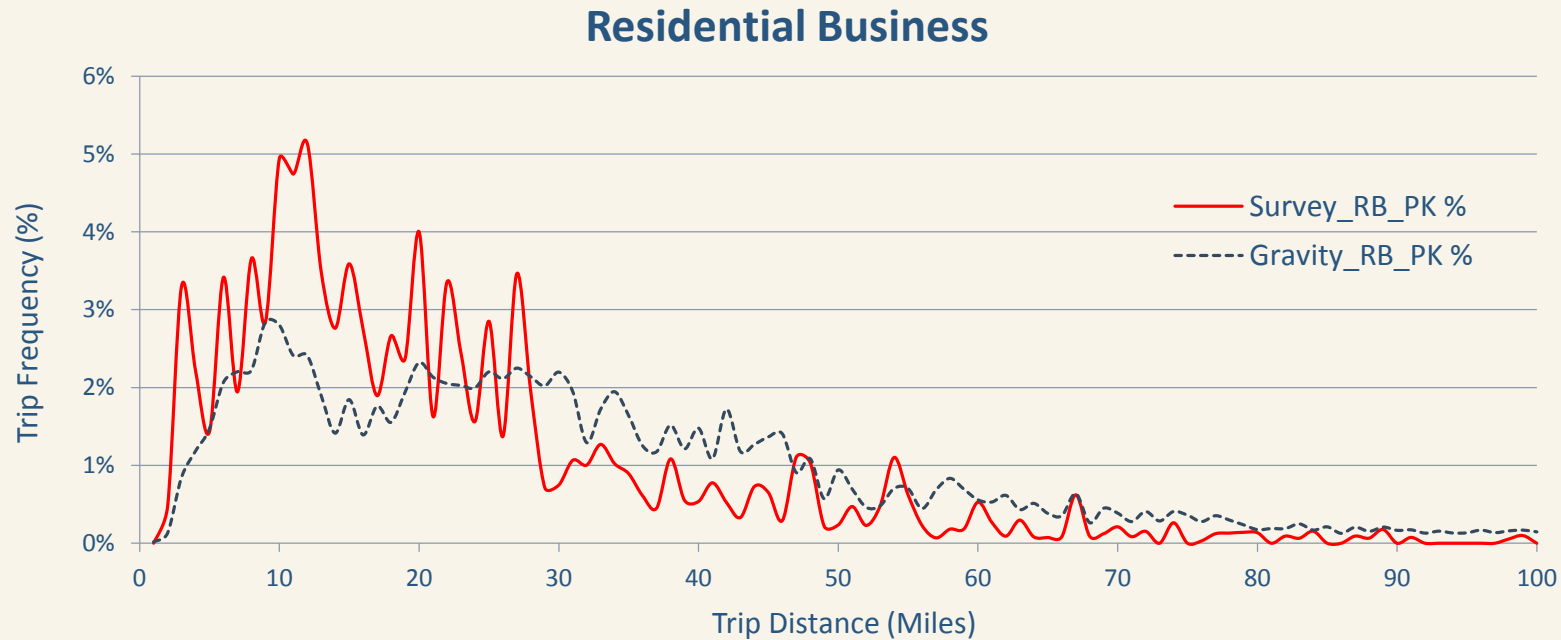
	<b>Resident</b>	<b>Visitor</b>
<b>Business</b>	High Income Workers	Professional Employment
<b>Non Business</b>	Income Weighted Population	Hospitality Employment

- Adjustments for county, weekend destinations, and central business districts

# Ground Access Analysis

## Trip Distribution

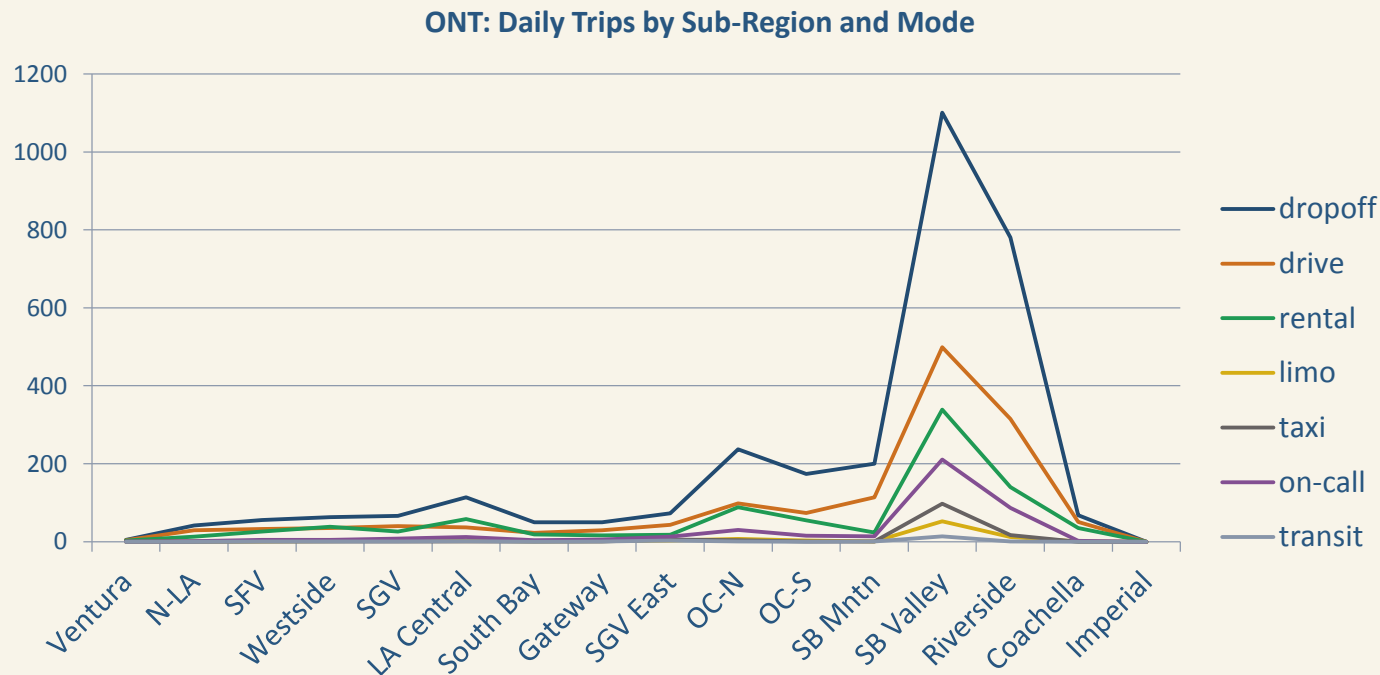
- Which trips go to which airport?
  - Match distribution of trip lengths from passenger surveys



# Ground Access Analysis

## Mode of Arrival

- What mode of transportation do passengers use to get to the airport?
  - Based on distribution of modes from passenger surveys and available modes at each airport





# Ground Access Analysis

## Next Steps

- Convert Production-Attraction **person** trips tables to Origin-Destination **vehicle** trip tables
  - Difference between drop-off (1 air passenger trip = 2 round trip vehicle trips) and drive alone (1 air passenger trip = 1 round trip vehicle trip)
- Apply methodology to 2040 scenario, as directed by Transportation Committee



Thank you!

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