

2016 SCAG RTP



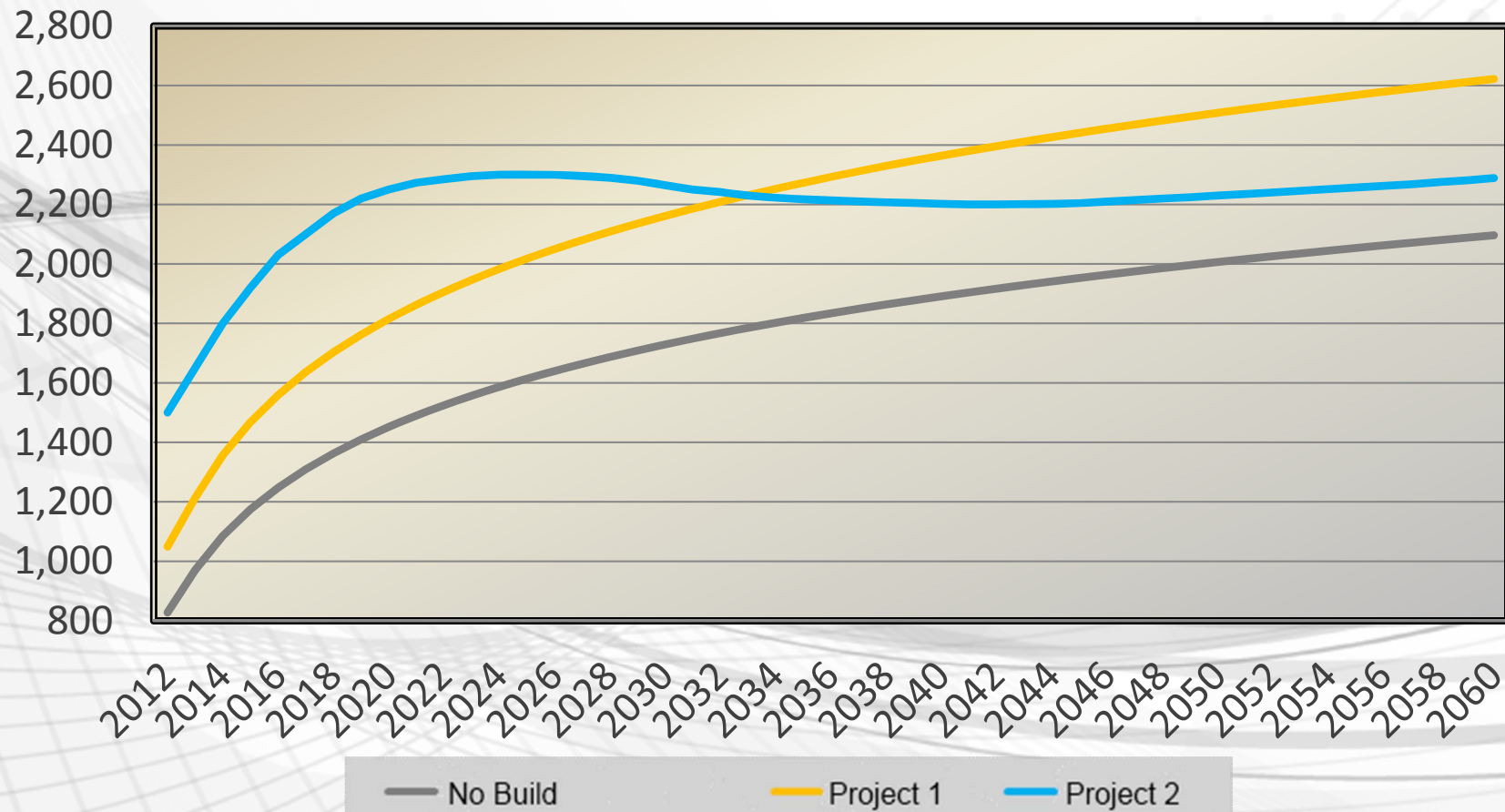
What is the Economic Impact of SCAG RTP?

■ Implementation of TranSight

- Developed and Licensed by REMI
- Used in Coordination with SCAG Staff and Wallace Walrod
- Forecasting and Simulation Economic/Demographic model
- Custom Built for 6 SCAG counties, rest of CA and rest of US
- Integrates with transportation specific concepts in order to quantify regional impact of transportation network changes
 - Uses outputs from Travel Demand Model or Benefit Cost Tool

http://scagrtpscs.net/Documents/2016/draft/d2016RTPSCS_EconomicJobCreationAnalysis.pdf

Dynamic Framework



TranSight Results



Economic Results

Employment, Personal Income, Output and Demand,
GDP, Consumption, Relative Costs, Compensation,
Occupation, and others

Demographic Results

Population (Age, Race, and Sex)
Components (Births, Deaths, Migrants)

Transportation Results

Benefit Cost Analysis

Customizable Benefit/Cost ratio

Transportation Summary

Labor and Commodity Access

Production Cost and Delivered Price Impacts

Domestic Trade Flows

*Evaluate impact of transportation efficiency on
the community and economy*

Integrated Model



Integrated

Four Distinct Quantitative Methods

Dynamic

Impacts Measured Over Time

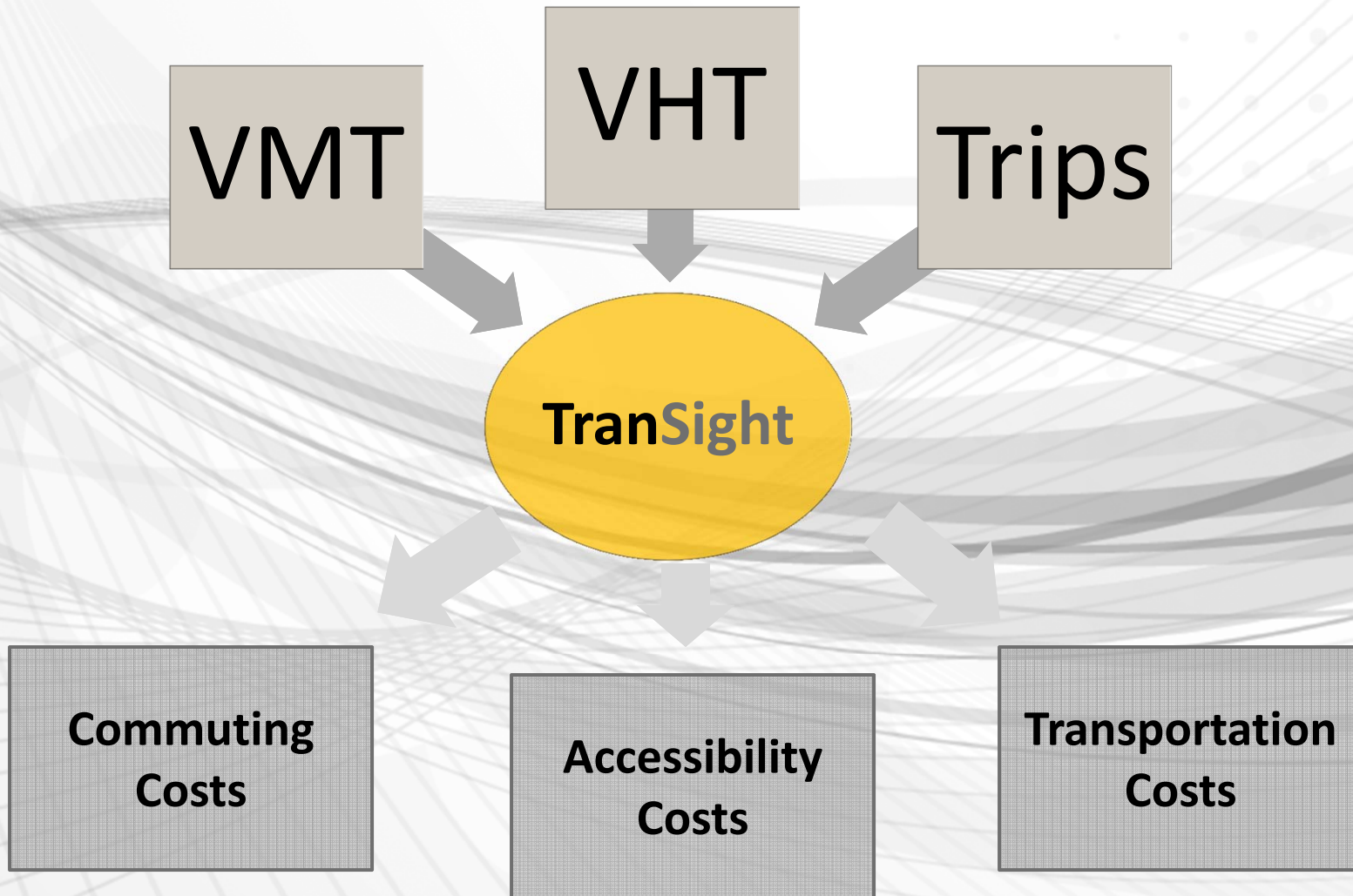
Customized

Specifically Built for User Needs

Structured

Transparent Methodologies and
Linkages

Integration with TranSight



TDM Integration With TranSight



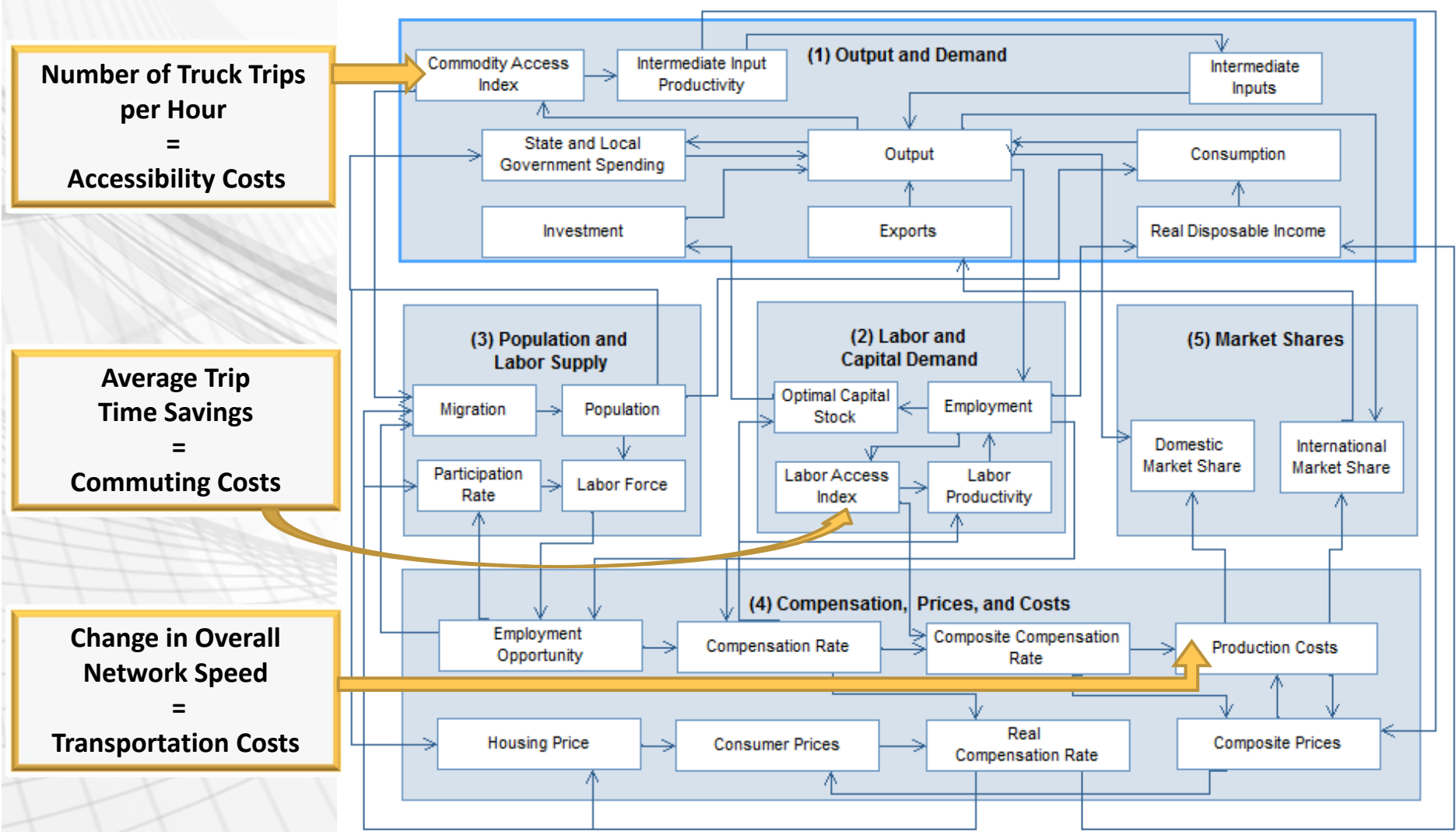
- TDM Outputs needed as Inputs to TranSight
 - Region to Region Annual Totals
 - VMT
 - VHT
 - Trips
- Using TDM outputs TranSight Calculates
 - Number of Trips per Hour(Highway truck, transit, other highway modes)
 - Accessibility
 - Average Trip Time (auto, some transit modes)
 - Commuting Costs
 - Overall Network Speeds (highway truck)
 - Transportation Costs

TDM Integration With TranSight



- In the absence of TDM data, you can modify these indexes directly
 - Accessibility
 - ▣ Commodity Access Index
 - Commuting Costs
 - ▣ Labor Access Index
 - Transportation Costs
 - ▣ Delivered Price within market shares

Inputs to Model Structure



Results



- ❑ Construction
- ❑ Operations
- ❑ Competitiveness
- ❑ Quality of Life

TABLE 5 Total Jobs, all sources, construction, operations and maintenance, network benefits, from 2016 RTP/SCS, with 2012 shown for comparison, annual average jobs (relative to baseline), thousands

FY	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	AVERAGE PER YEAR
Imperial	17	25	53	58	63	43
Los Angeles	148.7	248.4	334.3	395.3	430.5	311.4
Orange	64.8	57.5	70.0	93.7	126.9	82.6
Riverside	42.2	53.4	76.7	99.5	116.6	77.7
San Bernardino	39.6	54.0	76.9	97.6	114.3	76.5
Ventura	7.6	8.7	12.7	13.2	13.9	11.2
SCAG Region	304.5	424.5	575.8	705.0	808.5	563.7
	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	
2012 RTP/SCS SCAG Region	215	236	437	729	1,006	528.5

Source: SCAG calculations

Contact



Chris Brown

Managing Economic Associate

REMI

Chris@remi.com

(202)412-2481