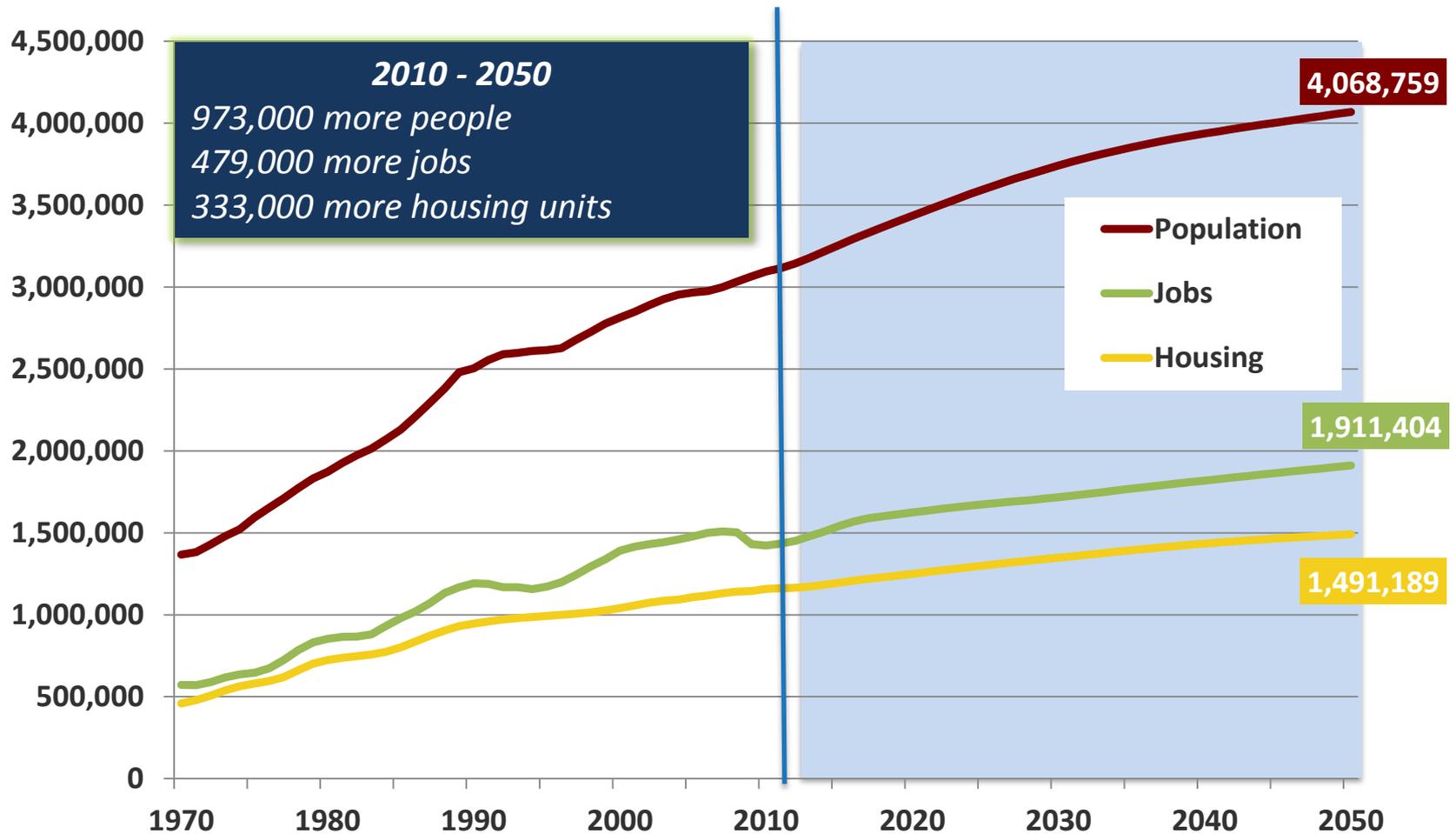




San Diego Forward – Transportation and the Economy

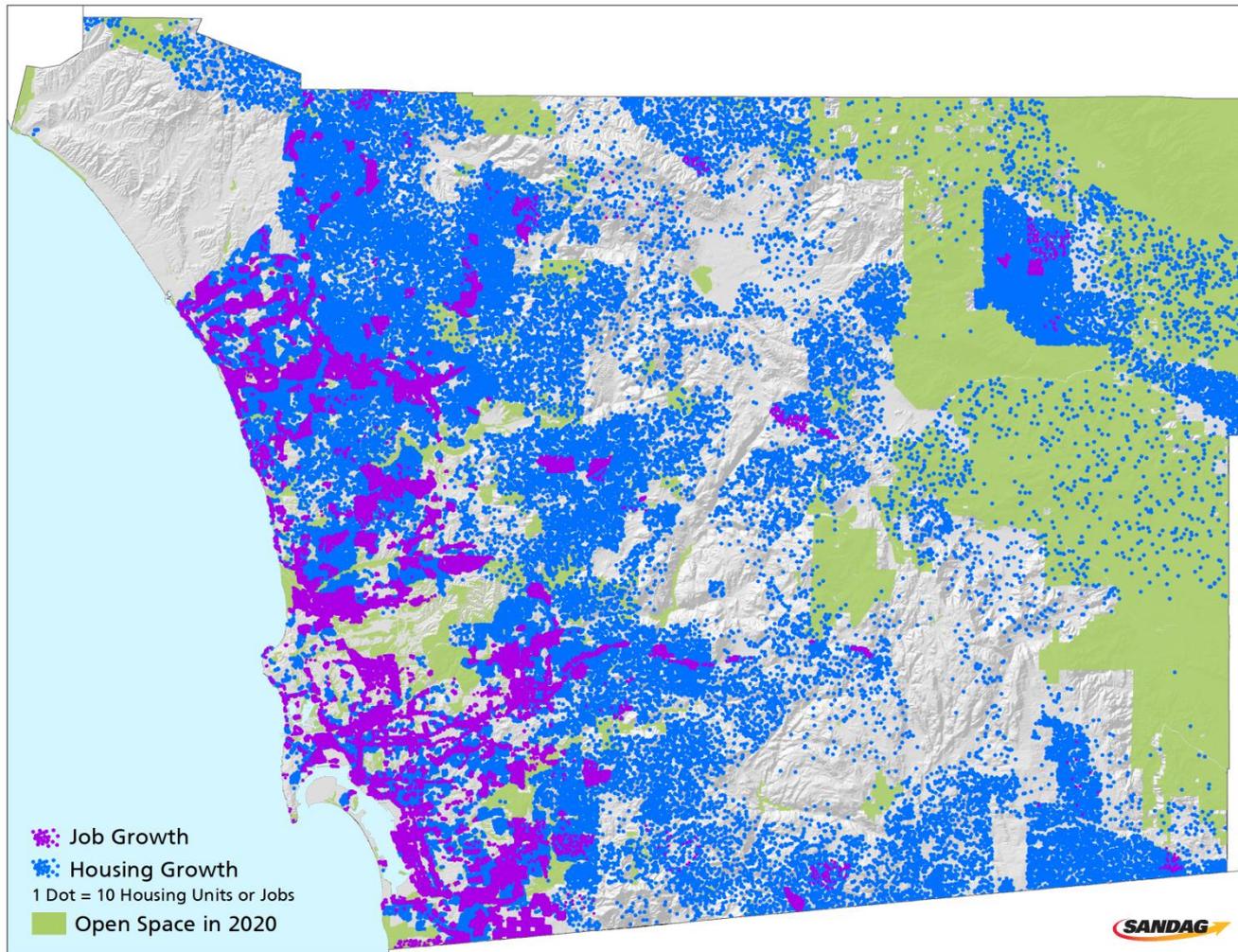
Economic Roundtable, January 16, 2015

2050 Population, Job, and Housing Growth



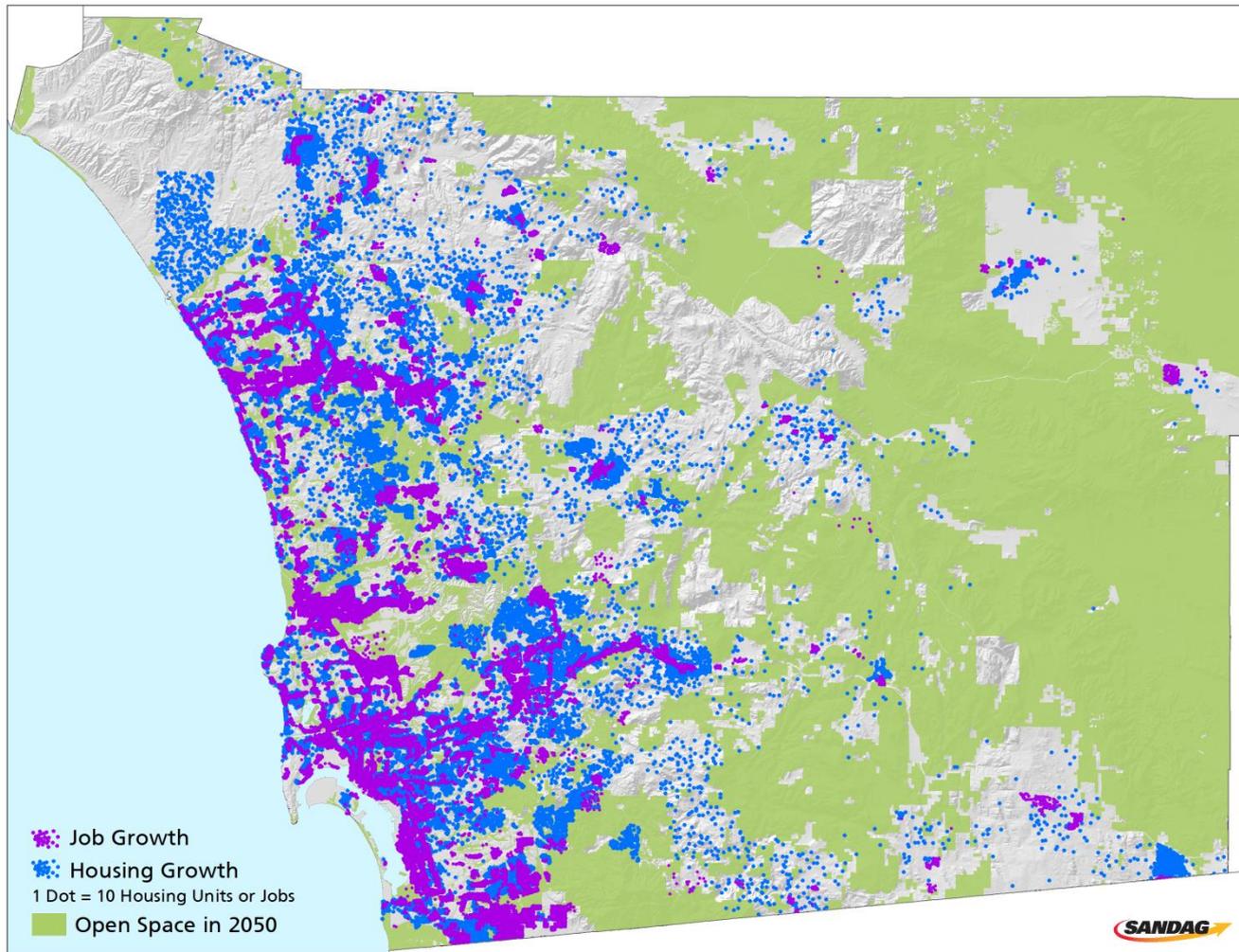
The Region's Evolution

Comparing Growth Projected in 1999 and 2013

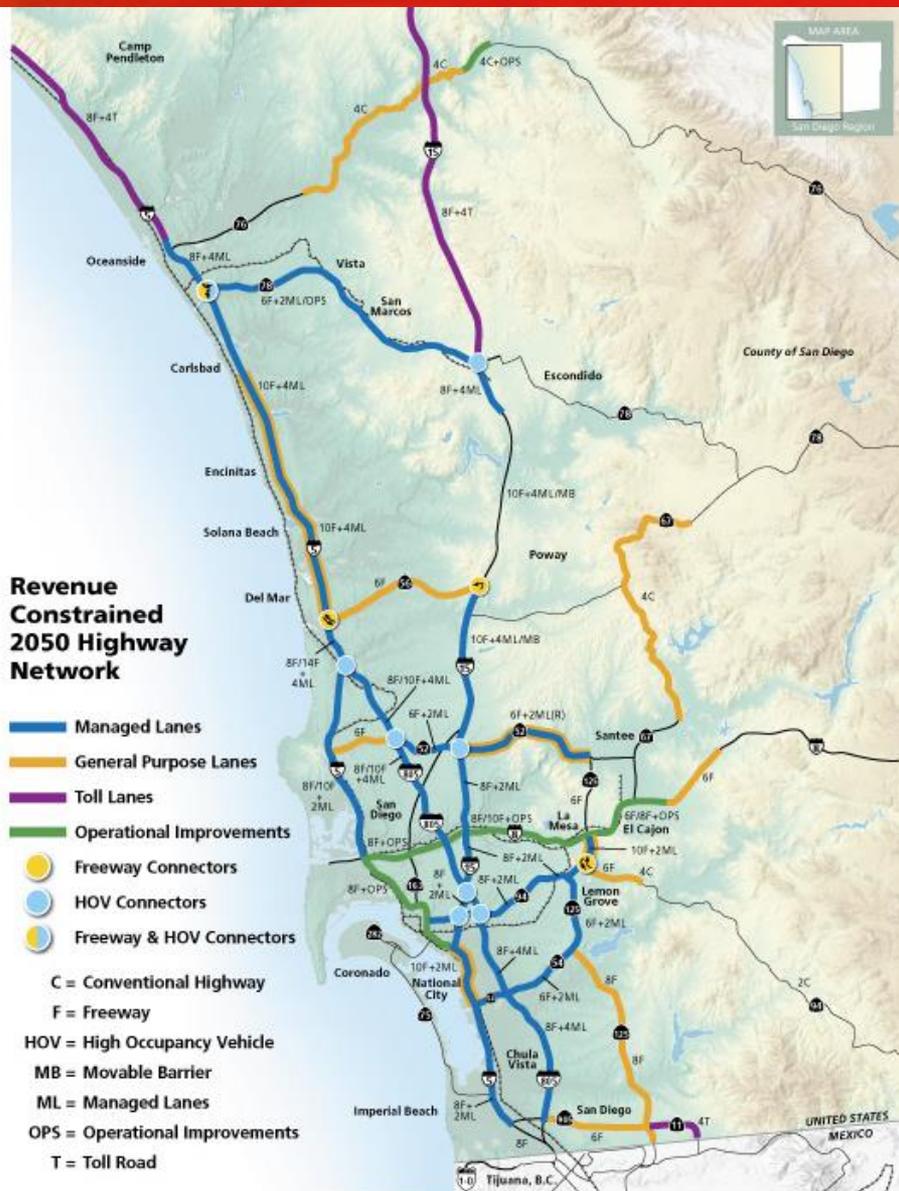


The Region's Evolution

Comparing Growth Projected in 1999 and 2013



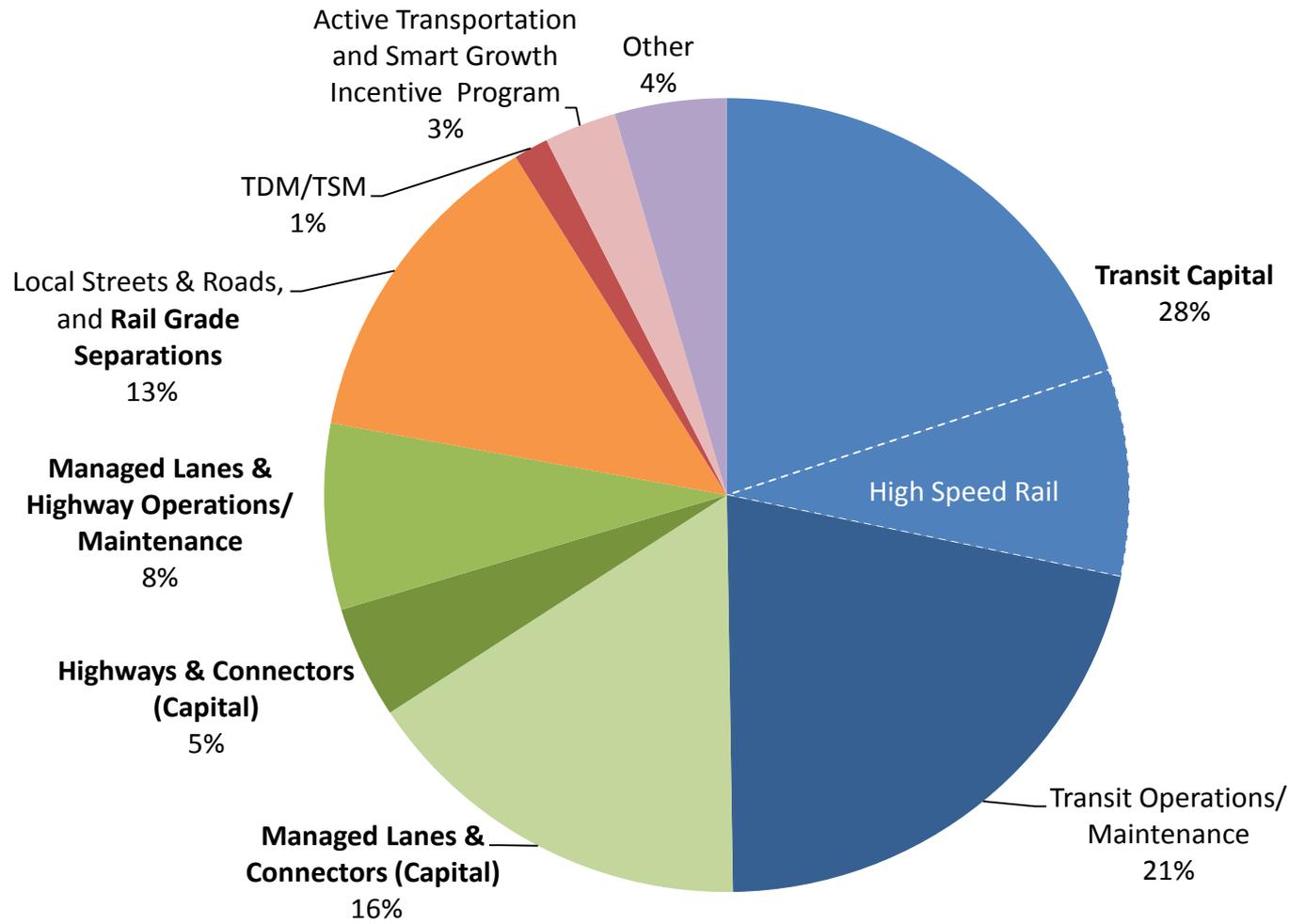
2050 Highway and Transit Network



Making the most of our system



Preferred Scenario: Proposed Level of Investments



\$105 billion in 2014 dollars

Economic Analysis

- **Benefit-Cost Analysis**
Are the benefits greater than the costs?
- **Economic Impact Analysis**
How will the plan investments, and the more-efficient system, impact the economy?
- **Economic Competitiveness Analysis**
How will transportation investment spur development of the regional economy?

Benefit-Cost Analysis

- BCA Tool developed by and for SANDAG
- Fully integrated with Activity-Based Travel Model (ABM)
- Monetizes time savings and other benefits generated by ABM
- Compare Stream of Benefits vs. Costs over time
- Allows for detailed analysis (e.g., Equity Analysis)

Preliminary BCA Results

Total Costs: \$29.15 Billion

Benefits -

Time Savings:	\$34.28 Billion
Emissions:	\$0.44 Billion
Safety:	\$1.52 Billion
Reliability:	\$1.08 Billion
Operation Cost Savings:	\$15.99 Billion
Ownership Savings:	\$2.28 Billion
Physical Activity:	-\$0.04 Billion

TOTAL BENEFITS \$55.55 Billion

Ratio: 1.91

Internal Rate of Return: 10.0%

Economic Impact Analysis

- Analyze effects of Construction/Operations
 - Use Input/Output model to estimate how expenditures move through the economy
 - Direct, Indirect, and Induced effects
 - Effects by sector
 - Preliminary Results: average of ~18,200 jobs and \$2.4B in GDP annually thru 2050
 - Jobs: 11,000 Direct, 2,700 Indirect, 4,500 Induced

Economic Impact Analysis

- Analyze Impact of a More Efficient Transportation System
 - REMI TranSight uses benefits from the BCA to model changes in Commodity Access, Labor Access, and Production Costs
 - Preliminary results: ~20,000 jobs, \$5B in GDP annually by 2050

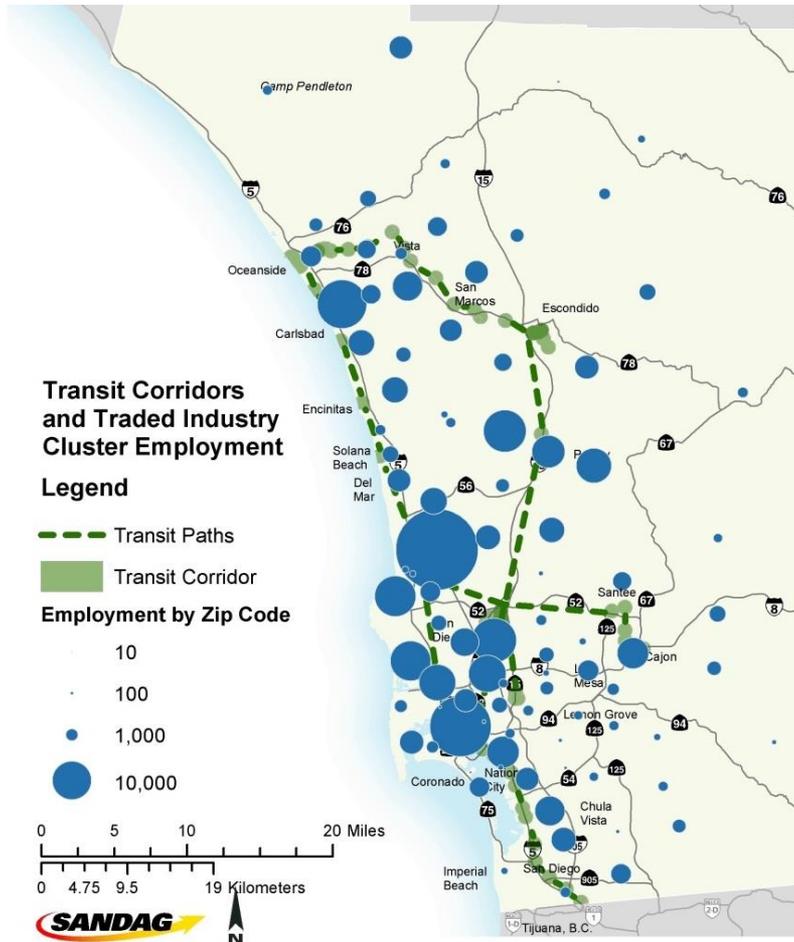
Economic Competitiveness Analysis

Two-part analysis:

- Analyze travel patterns for industry clusters
 - Mapping using GIS with current and forecast demographic/economic data to explore effects on key traded industries
- Qualitative Discussion based on Focus Groups
 - General support for balanced approach
 - Recognize benefits of denser development, and transit
 - Certain sectors had specific needs/concerns

Economic Competitiveness Analysis

- Jobs close to transit up from 43% to 71%. Improved access for key traded sectors such as:
- Information and Communication Tech.
 - Tourism
 - Biotech
 - Cleantech
 - Maritime



Economic Analysis

Economic Value of San Diego Forward: The Regional Plan

Benefits

- Time Savings
- Cost Savings
- Improved Safety
- Reduced Emissions

Outweigh Costs by **2 to 1**
Over Life of Plan

Supports Key Sectors

- Construction
- Tourism
- High Tech
- Goods Movement

By 2050

- 40,000 New Jobs Annually
- \$8 Billion in Increased Output
- \$4 Billion in Increased Income

Economic Effects of More Efficient Transportation System

Help Businesses Connect With:

- Workers
- Suppliers
- Customers
- Partners

Economic Impact of Construction

- Jobs in Construction/
Operations
- Indirect Impacts



sandag.org/SanDiegoForward