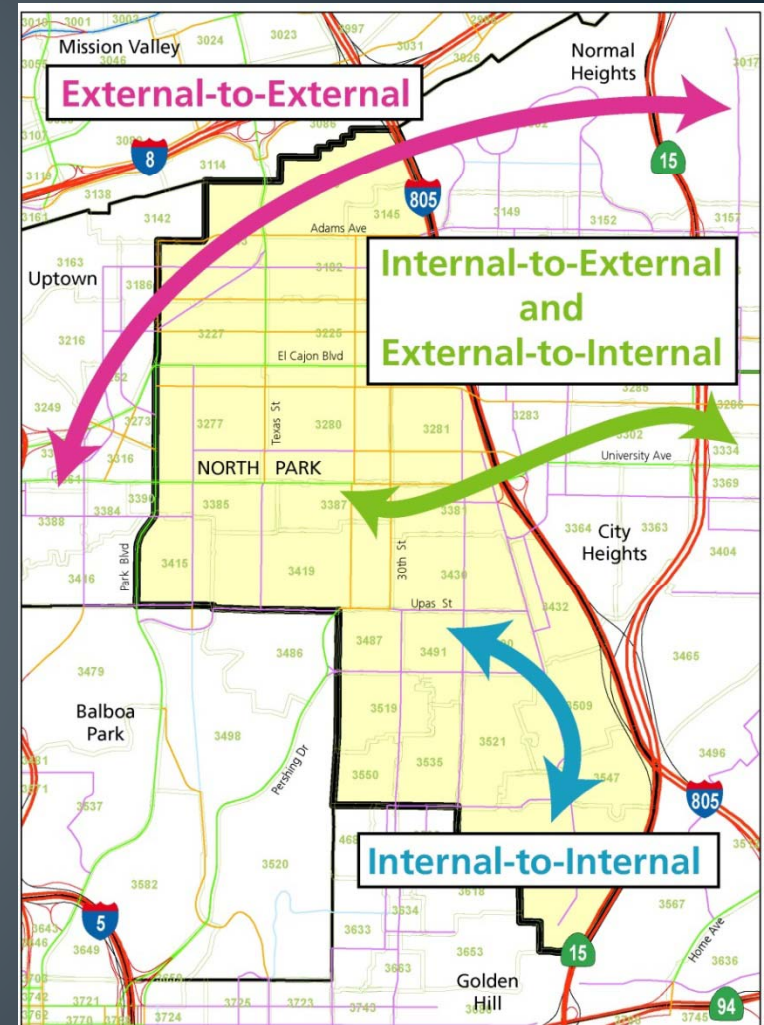


Introduction

- Key Legislation
 - AB 32 Statewide GHG reduction targets
 - SB 375 CARB established reductions
- Catalyst
 - Fehr and Peers White Paper
 - ICLEI Guidelines
 - ITE San Diego Task Force
- Objective
 - Develop a regionally accepted methodology for disaggregated Vehicle Miles Traveled (VMT)

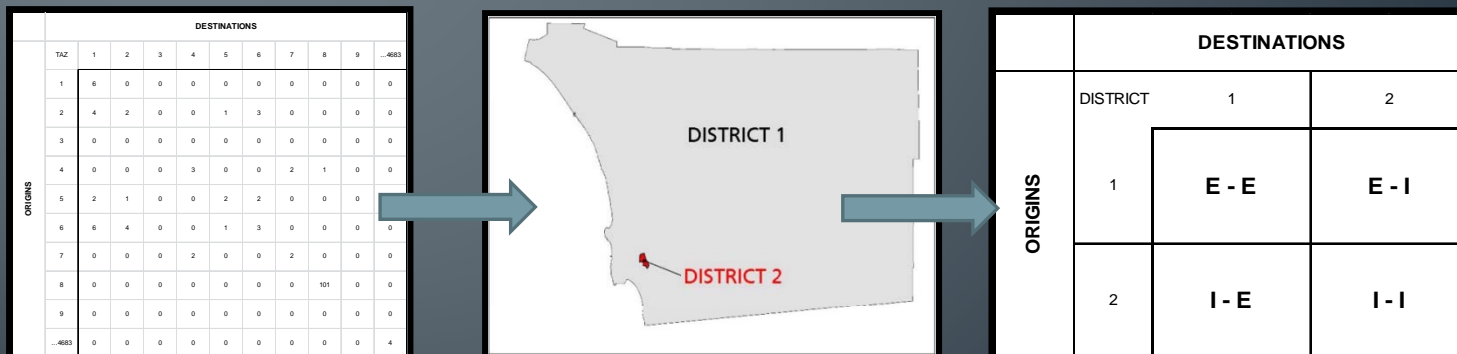


Methodology – VMT Categories & Trip Table Compression

- Categories for Use in GHG Software Analyses

INTERNAL-TO-INTERNAL	INTERNAL-TO-EXTERNAL/ EXTERNAL-TO-INTERNAL	EXTERNAL-TO-EXTERNAL
I-I	I-E, E-I	E-E
TWO TRIP-ENDS VMT	ONE TRIP-END VMT	ZERO TRIP-ENDS VMT

- District 1 - All TAZs outside the study area (external)
- District 2 - All TAZs inside the study area (internal)



Methodology – Trip Table Compression

- Use the compressed trip table to calculate Internal Capture Rate (ICR) for each scenario:

$$25,319 \div 207,443 = 12.21\%$$

E-E (Zero Trip Ends)
I-E and E-I (One Trip End)
I-I (Two Trip Ends)
Calculated Internal Capture Rate
District 1 = everything but NORTH PARK
District 2 = NORTH PARK

BASE YEAR 2008				
ORIGINS	DESTINATIONS			SUM
	DISTRICT	1	2	
	1	0	92,970	92,970
2	89,154	25,319	114,473	
SUM	89,154	118,289	207,443	
INTERNAL CAPTURE RATE			12.21%	
2050 A				
ORIGINS	DESTINATIONS			SUM
	DISTRICT	1	2	
	1	0	127,947	127,947
2	121,689	30,051	151,740	
SUM	121,689	157,998	279,687	
INTERNAL CAPTURE RATE			10.74%	

Methodology – Example Spread Sheet

- Calculate Two Trip End VMT (I-I)
 - Community-Wide Select Zone VMT * Calculated ICR:
212,850 * 12.21% = 25,979
- Calculate Zero Trip End VMT (E-E)
 - Daily VMT - Community-Wide Select Zone VMT:
573,563 - 212,850 = 360,713

BASE YEAR 2008							
JURISDICTION	CLASSIFICATION	TOTAL VMT	TOTAL NORTH PARK VMT (I-I, I-E, E-I, & E-E)	TWO TRIP-ENDS NORTH PARK VMT (I-I)	ONE TRIP-END NORTH PARK VMT (I-E and E-I)	NON-NORTH PARK VMT (E-E)	NORTH PARK INTRA-ZONAL VMT (INTRA)
GNC	1 Freeway	327,268	36,989	4,515	32,474	290,279	
GNC	3 Major	67,085	49,701	6,066	43,635	17,384	
GNC	4 Collector	44,221	35,296	4,308	30,988	8,925	
GNC	5 Local Collector	52,603	42,254	5,157	37,097	10,349	
GNC	8 Freeway Ramp	35,242	4,325	528	3,797	30,917	
GNC	9 Local Ramp	8,697	5,837	712	5,125	2,860	
GNC	10 Zone Connector	38,447	38,448	4,693	33,755	(1)	
GNC	11 Intra-Zonal						1,392
GNC	Total	573,563	212,850	25,979	186,871	360,713	1,392

*GNC = Greater North Park

Validation & Application

- Margin of Error
 - Results of the analysis are cross-checked with the daily assignment and the post-forecast report.
 - Observed Margin of Error < 0.1%
- Application
 - General Plan updates
 - Community plan updates
 - Large-scale developments
 - EIR / CEQA
 - Climate Action Plans
 - URBEMIS