































## Key Features

KTH

- Models Actors Making Discrete Choices:
  - Household Mobility and Location Choice
  - Business Mobility and Location Choice
  - Developer Land Development/ Redevelopment
- Takes Some Things As Given:
  - Governmental Decisions; Population & Jobs
- *Dynamic* In Nature:
  - Runs in one-year time-steps
  - Path-dependent (history matters)
  - Adjustment toward equilibrium in long-run



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# Background

### Salt Lake City

- Capital of State of Utah
- Home of "Mormon" Church
- City: 186,000 pop
- Metro: 1,124,000 pop

• Region: 2,238,000 pop Bounded by Mountains and the Great Salt Lake

### Transportation:

- Motorways, Ring-Road
- 31-km Tram (3 lines)













































# KTH

# **Summary across Scenarios**

Scenario	VMT <sup>a</sup> (000 s)	VHT <sup>b</sup> (000 s)	TCD <sup>c</sup> (000 s)	Transit share
Base (1997)	39,403	1,095	110	2.38%
Adopted 2030 forecast	71,185	2,032	258	4.30%
Scenarios modeled with Urba	nSim			
LRP <sup>e</sup>	75,058	2,143	298	4.26%
No-build	67,307	2,800	1,061	1.92%
Highway	74,500	2,127	291	4.24%
Transit	75,184	2,154	303	4.07%
Parking	74,797	2,132	295	4.44%
UGB	72,580	2,094	289	4.47%
Comparison to adopted 2030	forecast			
UrbanSim LRP	+5.44%	+5.44%	+15.54%	-0.04%
Comparison to UrbanSim LR	P scenario			
No-build	-10.3%	+30.7%	+256.4%	-2.3%
Highway	-0.7%	-0.7%	-2.3%	0.0%
Transit	+0.2%	+0.5%	+1.9%	-0.2%
Parking	-0.3%	-0.5%	-0.9%	+0.2%
UGB	-3.3%	-2.3%	-3.0%	+0.2%

<sup>d</sup> Transit share is the transit mode share for the home-based work trip purpose.
<sup>e</sup> LRP is the WFRC Long Range Plan.
<sup>f</sup> UGB is an urban growth boundary.



















