



► Sustainable Transportation & Land Use Integration Study

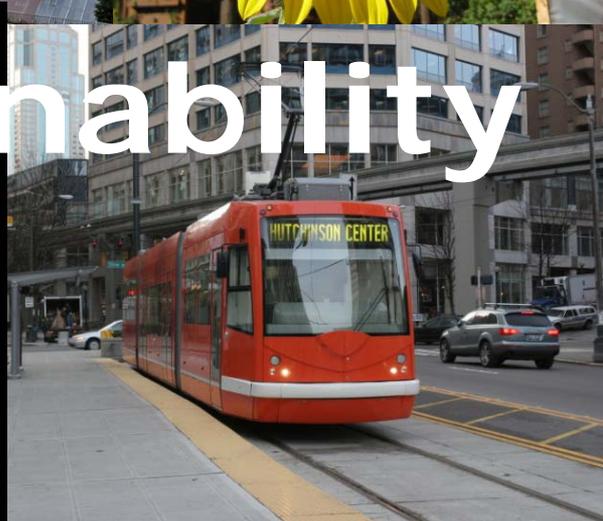
MAG Transit Committee

January 13, 2011



SUSTAINABLE TRANSPORTATION
& LAND USE INTEGRATION STUDY





What does sustainability mean to you?



Forbes.com

Ranking The World's Most Sustainable Companies (1/27/10)

The New York Times

An Urban Farming Pioneer Sows His Own Legacy (5/19/10)

TIME

Why New York City Is Greener Than Vermont (9/24/09)

Green.autoblog.com

Which cities love hybrids the most? The 210 greenest in the U.S., of course (4/26/10)

SCIENTIFIC AMERICAN

Scientists Decide on Top 5 Issues for Sustainability (11/14/10)

THE ARIZONA REPUBLIC

School of Sustainability is host for intelligent-water-use forum (8/15/08)

Newsweek

The Economy: Can Sustainability Survive the Recession? (6/22/10)

Opportunity Green Business Conference Sept. 21-23, 2011 at Los Angeles Center Studios

GreenBiz.com

Conquering the Green Team Plateau for Sustainability Leadership (11/24/10)

The Washington Post

Best Way To Make Positive Change On Sustainability: Ask (12/3/10)

Walmart

- To be supplied 100 percent by renewable energy;
- To create zero waste;
- To sell products that sustain people and the environment.

Livability, Sustainability, Smart Growth, Green, TOD, etc., etc.



Livability and Sustainability are often used interchangeably, but they're not the same...

Livability



Here and Now



Showers

58°F



Mostly Cloudy

66°



Cloudy

72°



Sunny

76°



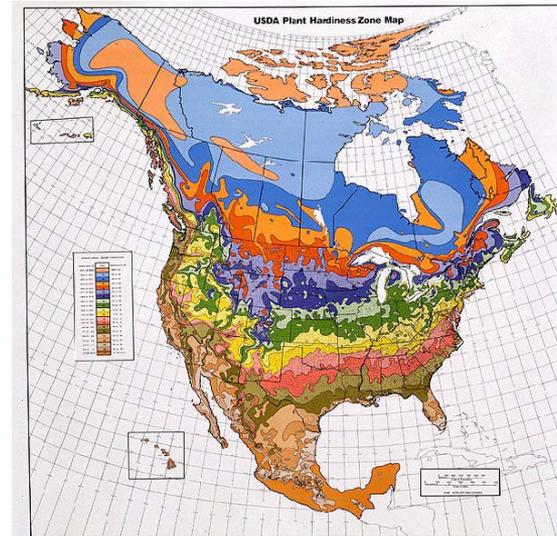
Partly Cloudy

79°

Sustainability



Years and Decades



► Study Overview

- Define “Sustainable Transportation” for the MAG Region
- Define transit’s role in providing a sustainable transportation system
- Best practice recommendations:
 - ❖ Strategies to enhance the land use/transportation connection
 - ❖ Development patterns and densities necessary to support the various forms of high capacity transit
 - ❖ Economic viability of alternative land use scenarios



SUSTAINABLE TRANSPORTATION
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► Key Elements

- Stakeholders Group
- Expert Review Panel
- Best practices research
- Regional spatial & economic analysis
- Sustainable transportation issues and strategies menu
- **Scenario modeling**



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MARICOPA ASSOCIATION
of GOVERNMENTS

► Scenario Modeling a.k.a. What if?

Process

- Base case and three alternative development scenarios
- Financial feasibility
- Policies, programs & development patterns

Tools

- MAG socioeconomic and travel forecasting models
- I-PLACE³S (New)

[MAIN MENU](#) | [CHANGE PASSWORD](#) | [LOGOUT](#)

PLACE³S

ZOOMIN 2X ZOOMOUT 2X PAN IDENTIFY
Parcel

50% REDEVELOPMENT MODE MARK PLACE TYPE 95%
A. Rural Residential* [PLACE](#)
[TYPE LEGEND](#)

Layers

- Highways
- Major Roads
- Minor Roads
- Parcel Lines

SUB-AREA LAYERS

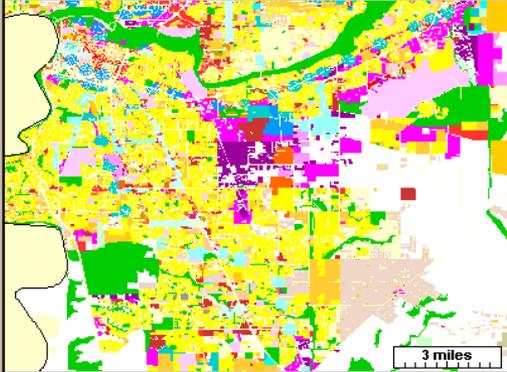
- 160-ACRE GRIDS
- LRT_STATIONS

SUB-AREA QUERIES

- NONE

Map Size: 1X

CLICK ON THE MAP TO PERFORM THE SELECTED ACTION!



SAC SCENARIO D EAST - TABLE 15

[BACK TO SCENARIO DETAIL MENU](#) [ZOOM TO SCENARIO EXTENT](#)

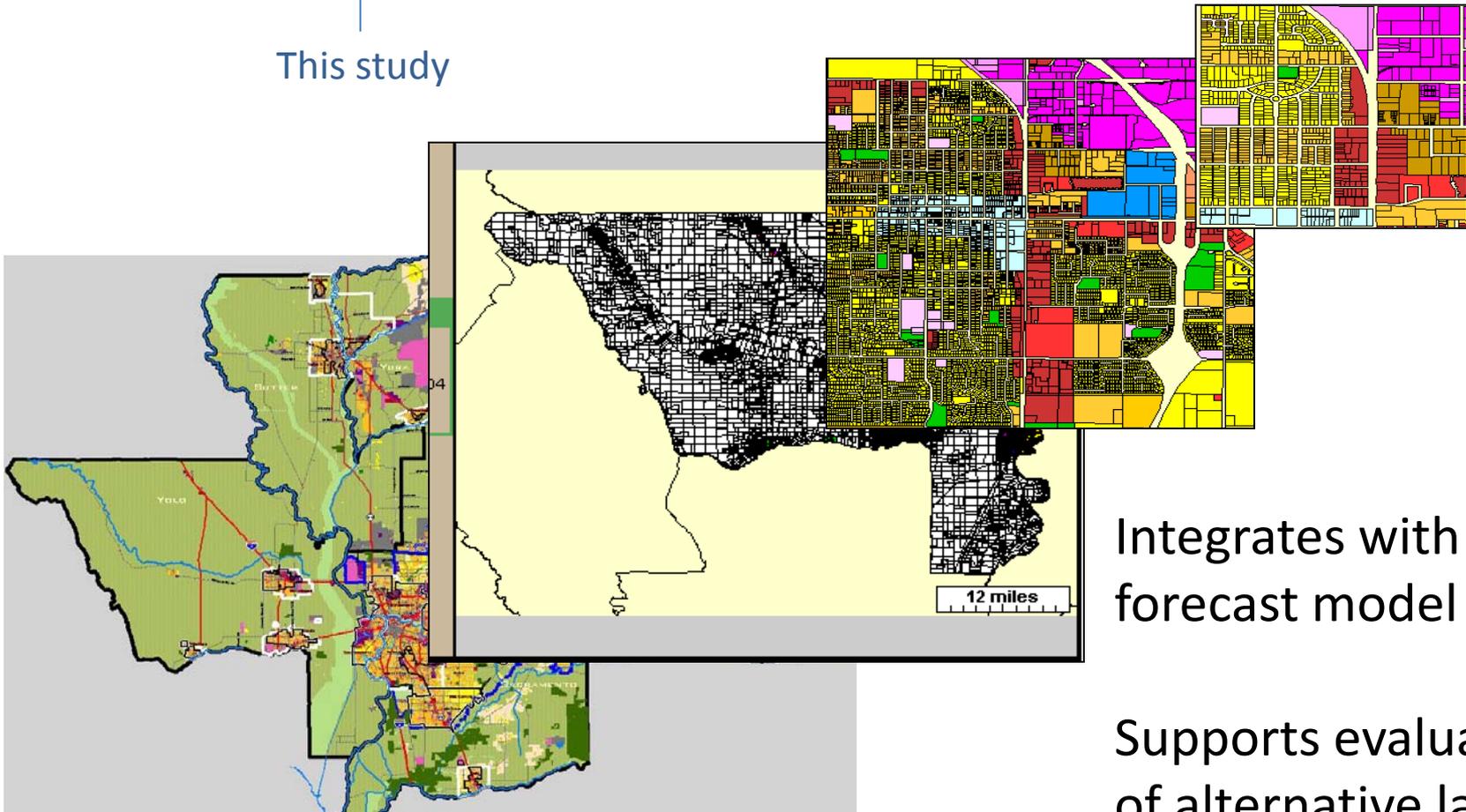
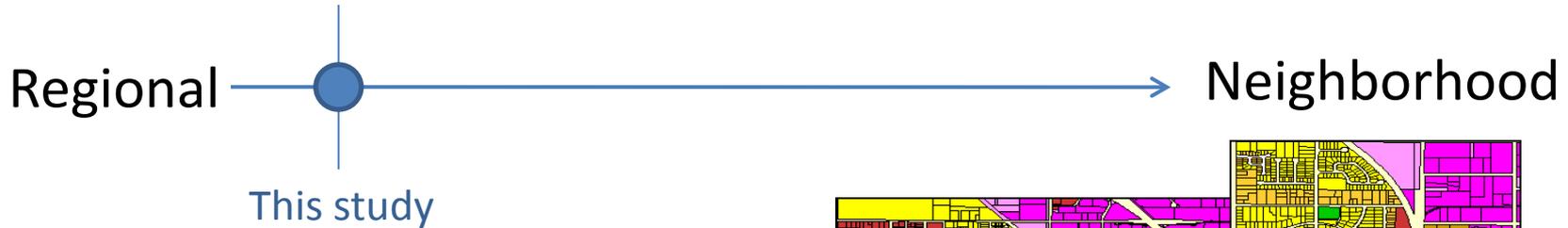
2.422 s [QUICK INDICATORS](#) | [VIEW / SAVE THIS MAP IMAGE](#)



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I-PLACE³S



Integrates with travel
forecast model

Supports evaluation
of alternative land use
scenarios

► Alternative Land Use Scenarios

- What if the region grows from 4 to 8 million people, and 10% of growth occurs in High Capacity Transit corridors?
- What if it's 20%?
 - ❖ Which corridors are most likely to attract Transit Oriented Development?
 - ❖ What are potential "Place Types" in different areas of the region?

RESIDENTIAL BUILDING TYPES							
1	Rural Residential			2	1	–	Rural residential includes very large lot residential (1 acre per lot).
2	Large Lot Single Family Residential			1	4	–	Arden Park has many large lots in the 1/2 to 1/3 acre size. Gardenland (South Natomas) has grid-streets with 1 acre lots and small houses.
3	Medium Lot Single Family Residential			2	6	–	Standard single family lot of 52x100 min. Allows out-de-bacs or grid pattern, w/curb-cut; subdivisions at low end of range. Curtis Park at high end of range.
4	Small Lot Single Family Residential			2	12	–	Small lot subdivisions: Villa Palazzo in Pocket (3,500 sqft lots), standard lots in Laguna West and some low density suburban garden apartments.
5(O)	Townhouse (Owner)			3	15	–	Metro Square in midtown is detached townhouse project at approx. 20 DU/ac. Most standard 2-story apts w/ surface parking are in this range.
5(R)	Townhouse (Rental)			3	15	–	
6(O)	Low-Rise Condos (Owner)			2	24	–	2+ story attached units with structured parking (e.g., back-under).
6(R)	Low-Rise Apartments (Rental)			2	24	–	
7(O)	Mid-Rise Condos (Owner)			3	35	–	3 story mid-level development. Less space dedicated to landscaping; more frontage on street.
7(R)	Mid-Rise Apartments (Rental)			3	35	–	
8(O)	High-Rise Condos (Owner)			6	66	–	6 story development with structured parking. Buildings include elevators, interior courtyards, and hallways.
8(R)	High-Rise Apartments (Rental)			6	66	–	
9(O)	Urban Condos (Owner)			10	105	–	10 story urban development. Buildings may include a health facility, door man, etc.
9(R)	Urban Apartments (Rental)			10	105	–	

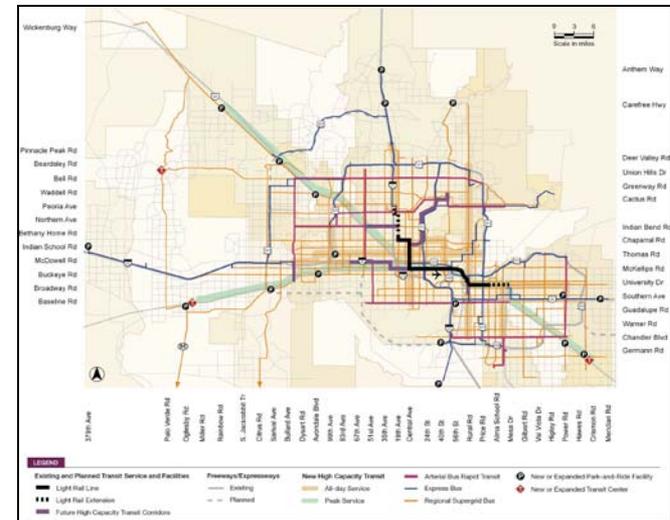


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► Study Recommendations

- Land use and transit integration
- Transit corridor “upgrade” recommendations
- Local planning tools
- Project evaluation tool



SUSTAINABLE TRANSPORTATION
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► Schedule

- Project initiated in November 2010
- 18-month study process
- Extensive data collection underway
- Refined scope of work—completed
- First of five Stakeholders Group meetings on February 10th at 2:00 pm
- First of two forums on sustainable transportation issues in May



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