



## ► Sustainable Transportation & Land Use Integration Study

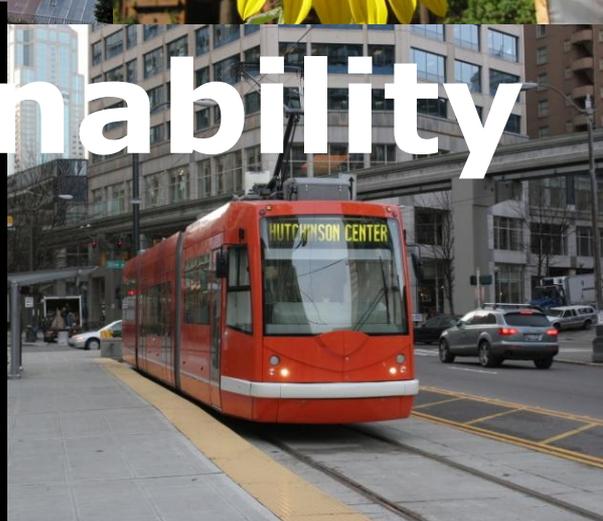
MAG Population Technical Advisory Committee

January 25, 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)

**Newsweek**

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

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

**THE ARIZONA REPUBLIC**

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

**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°



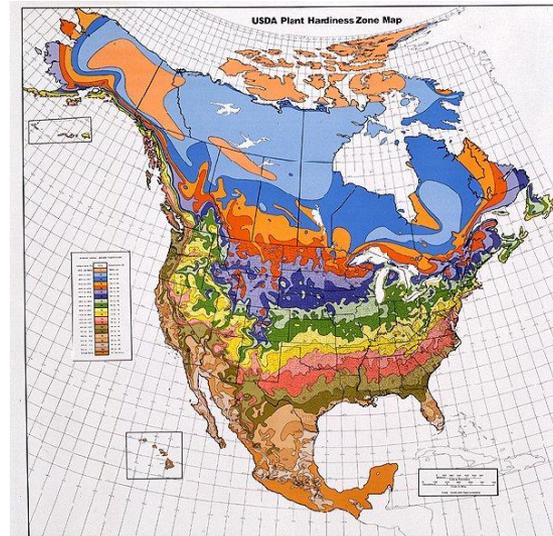
Partly  
Cloudy

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



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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-PLACE<sup>3</sup>S (New)

MAIN MENU | CHANGE PASSWORD | LOGOUT

### PLACE<sup>3</sup>S

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**

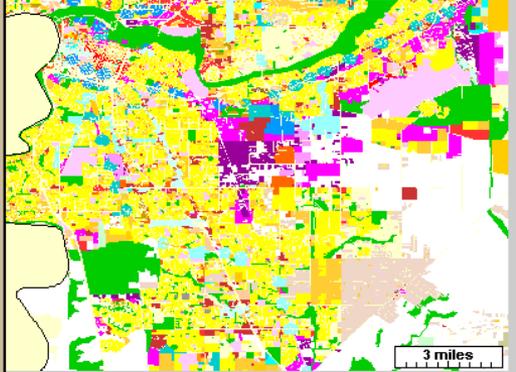
- 160-ACRE GRIDS
- LRT\_STATIONS

**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](#)

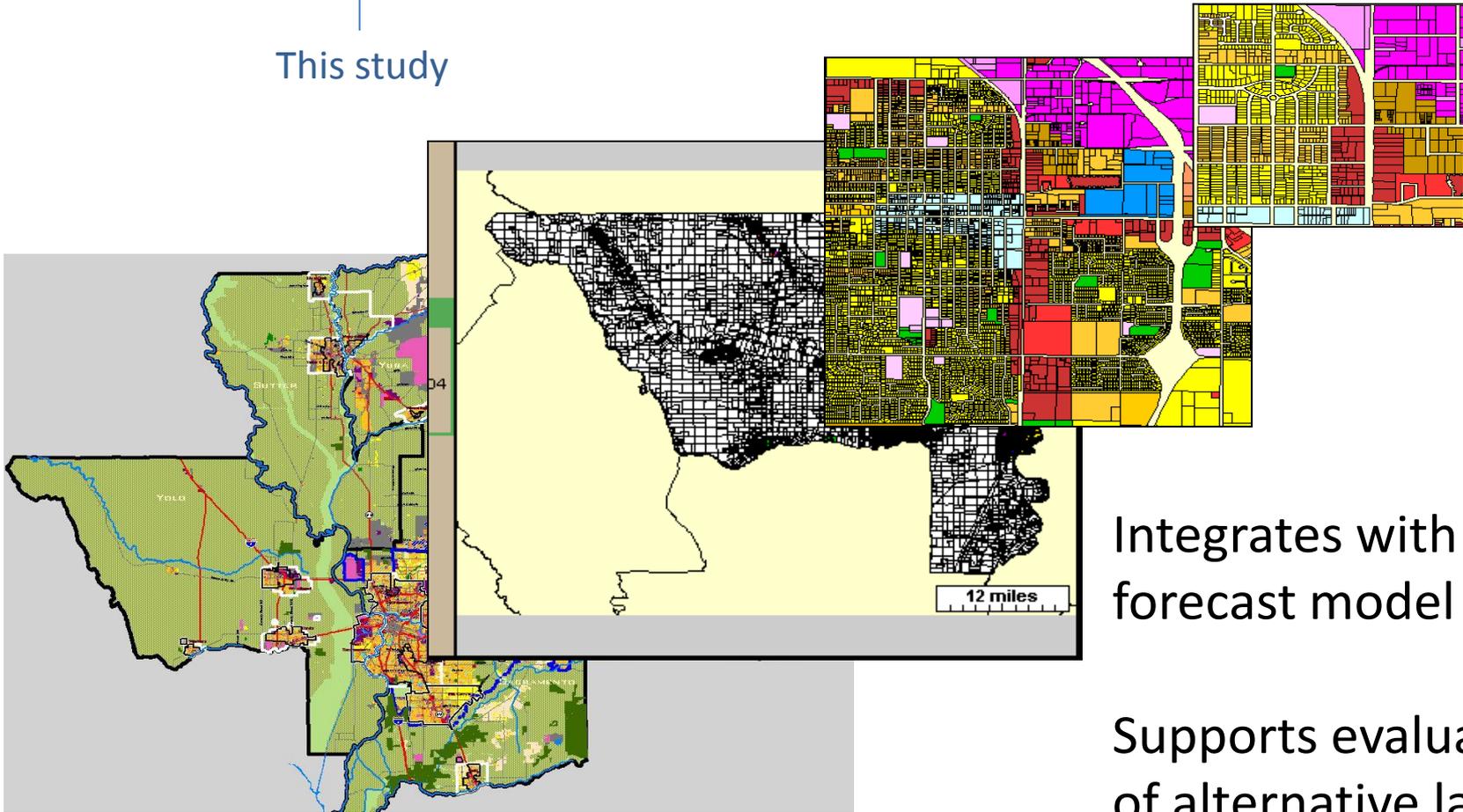
2.422 s [QUICK INDICATORS](#) | [VIEW / SAVE THIS MAP IMAGE](#)



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# I-PLACE<sup>3</sup>S



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-slacs or grid pattern, w/cul-de-sac, 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)						
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)						
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)						
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)						
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)						

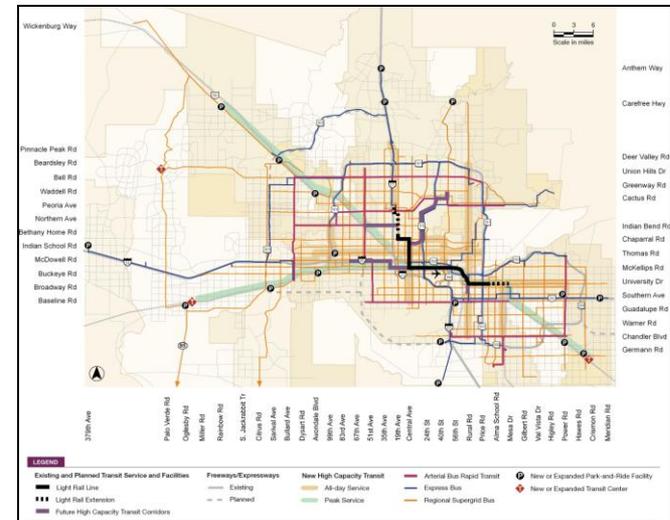


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# ► Study Recommendations

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



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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 10<sup>th</sup> at 2:00 pm
- First of two forums on sustainable transportation issues in May



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