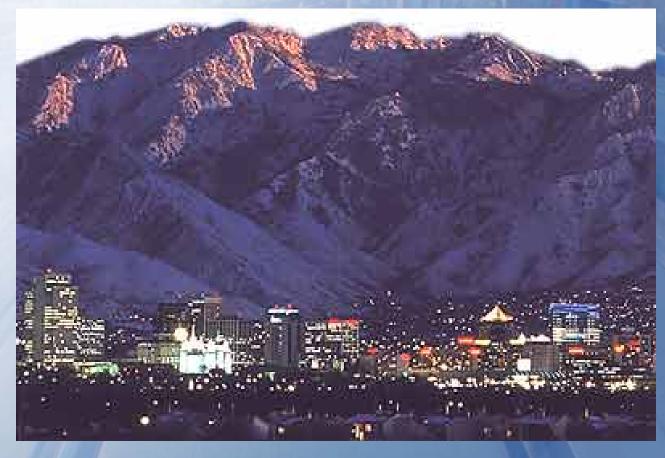
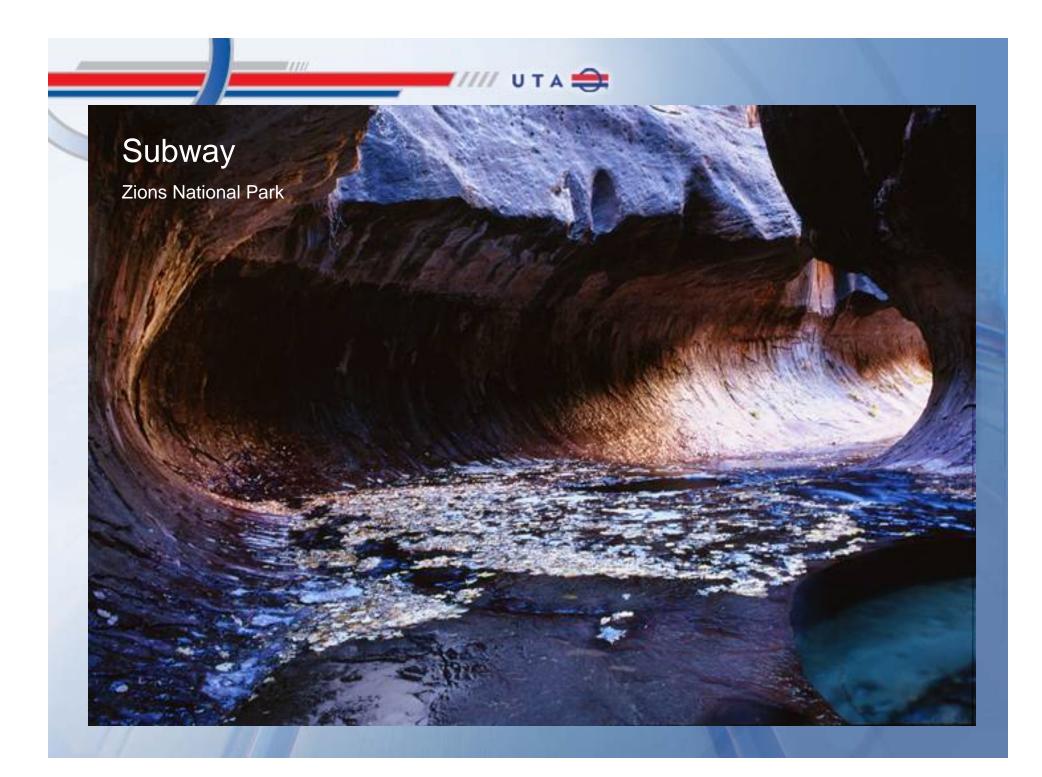


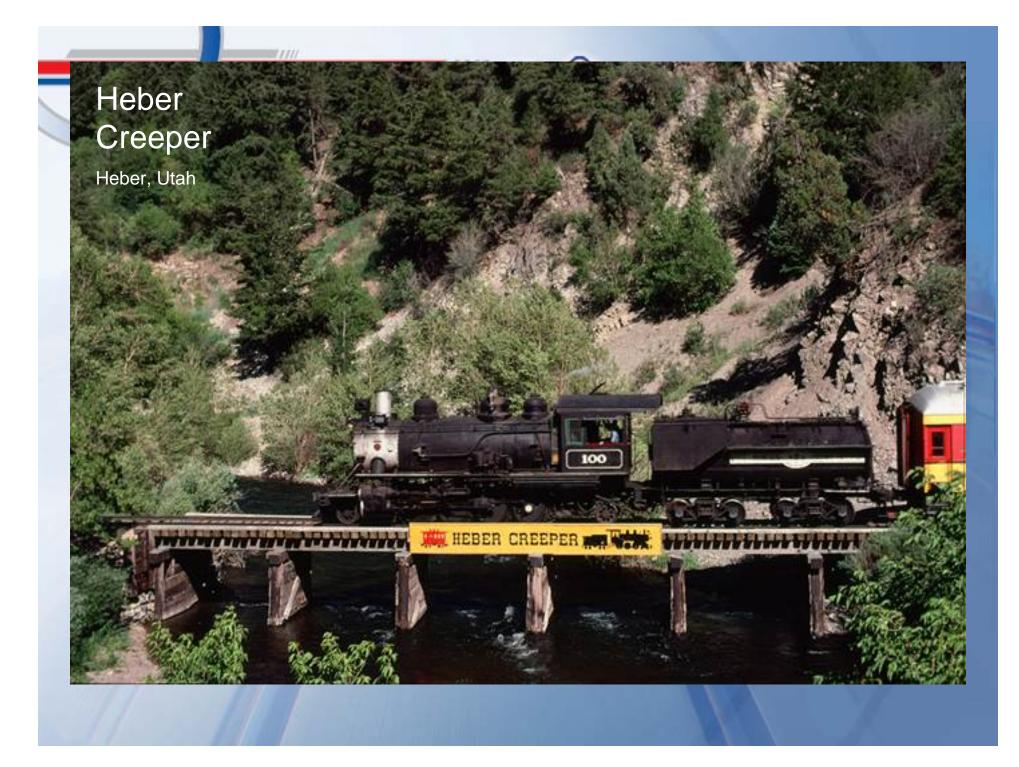
Utah Transit Authority's Role in Building Sustainable Communities













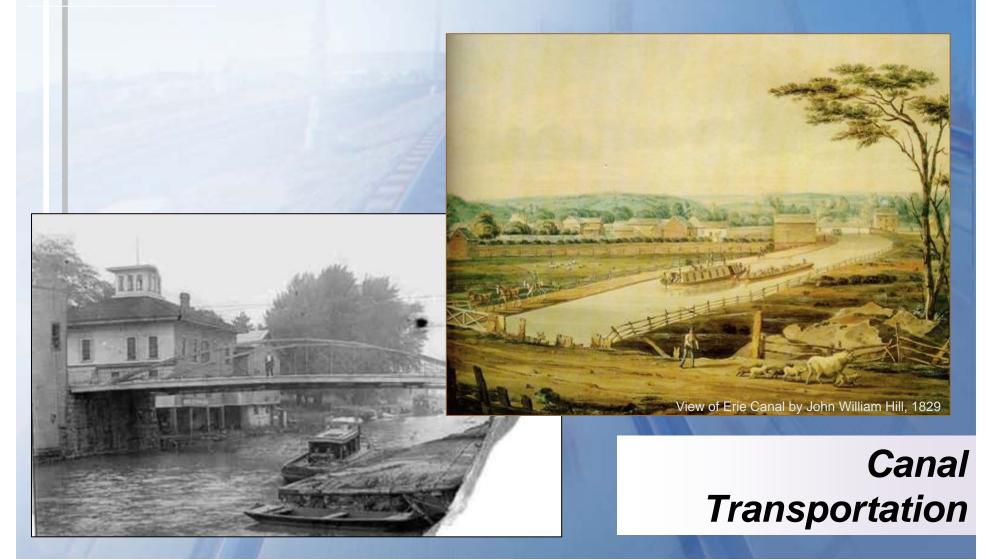
It was the age of the horse--ever marking the ability to pull as "horsepower".

Pre 1800s For thousands of years humans traveled using horses, or other livestock for mobility of goods, services and other people.





Horse–powered Transportation The first 93 miles of the Erie Canal opened in 1819, revolutionizing inland movement of goods.



Pre 1800s

1800 - 1850

The next mover of goods and people came with the first common railroad in the United States on the Baltimore and Ohio Line in 1830.

Starting in 1850, the United States government began making grants to assist the spreading of railroads further westward and southward.

📕 //// UTA 🚔



Pre 1800s

1800 - 1850

1850 - 1900



Locomotive Transportation Roadbuilding came next with motorized equipment allowing easier and cheaper construction. By the early 1920s, improved motor vehicles and an expanding road network brought the end to railway dominance.

//// UTA 🌐

1900 - 1950

Pre 1800s

1800 - 1850

1850 - 1900

The first United States automobile highway system originated in the 1910s with a series of named highways, the major routes being named for American presidents.





Old Plank Road, California, US 80, 1915

Automobile Transportation

The age of "superhighways" had arrived with the Dwight D. Eisenhower System of Interstate and National Defense Highways. Construction began in 1956 and was paid for primarily through the gas tax.

Although construction on the Interstate Highway system is ongoing, it was regarded as complete in 1990.

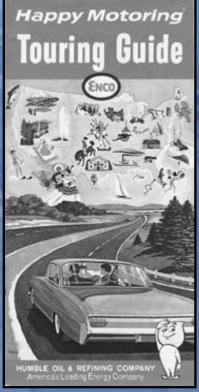


Pre 1800s

1800 - 1850

1850 - 1900

1900 - 1950



Modern Transportation



The Future

////

UTA 🌐

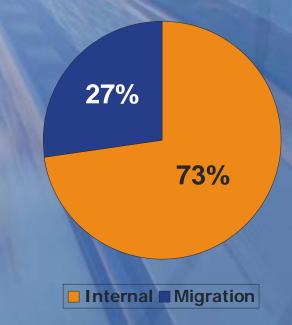
- Renaissance
- We're finally at the big table!
- Need to reinvent transit
- Retirement's starting to look pretty good......

<u>Utah's Need For</u> Sustainable Communities

//// UTA 🌐

Growth in Population

- Another one million people along the Wasatch Front by 2030
 - 88,000 new residents in 2005, a 4% growth rate
- One of the fastest-growing states in the nation
 - U.S: 13.2% - Utah: 29.6% (1990 - 2000)
- Most of our growth is coming from within

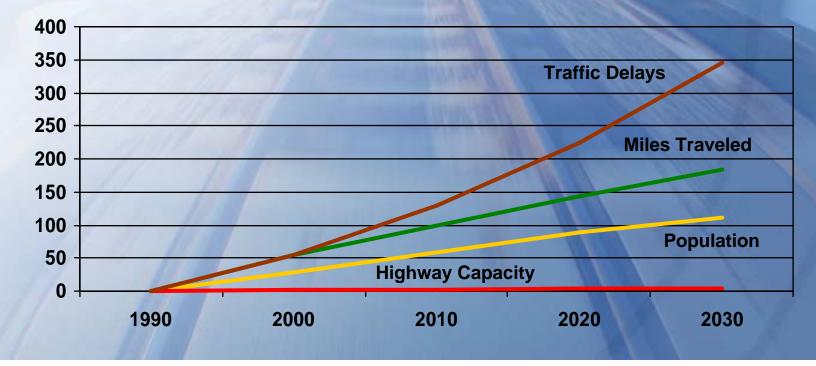


Utah's Need For Sustainable Communities

//// UTA \$\$

Growth in Travel & Congestion

- Vehicle miles traveled is increasing at twice the rate of population. Growth in highway capacity is far behind
- Under current funding, the average time we spend delayed in traffic will <u>triple</u> by 2030



Utah's Need For Sustainable Communities " gets a little help.

//// UTA 😂

Economic Vitality

- Transportation is the backbone of our economy
- Movement of goods in Utah is a \$100 billion a year industry
- Congestion impacts our economic growth:
 - Increases cost of business
 - Reduces business productivity
 - Makes us a less desirable place for business to locate
 - Makes us less competitive with other regions



Greater Wasatch Area

//// UTA 😂

Over 500 City Council Members

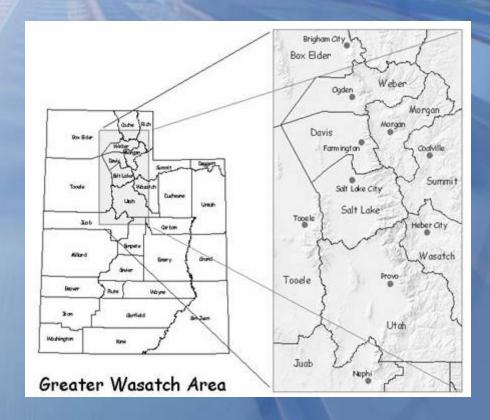
Over 500 Planning Commissioners

30 County Commissioners

90 Mayors

100's of developers, realtors and other key stakeholders

- 10 Counties
- 90 Cities and Towns
- 157 Special Service Districts





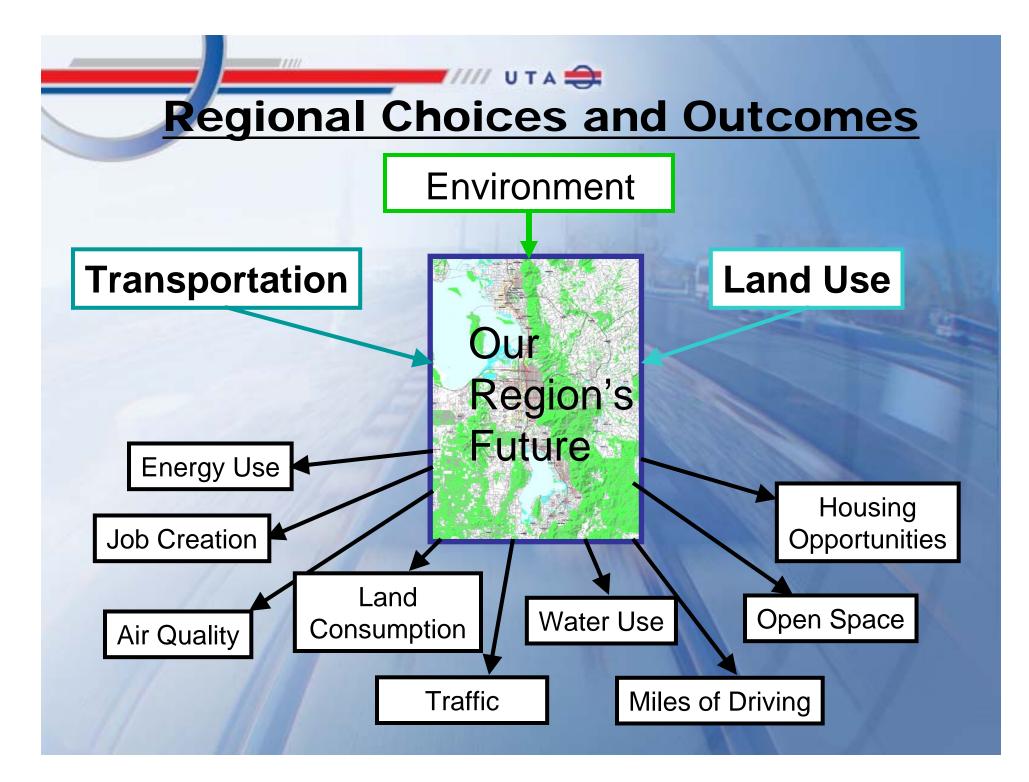
Scenario Approach:

Contrasts today's choices by showing long-term consequences









Sacramento

A

Urban Footprint — 2050

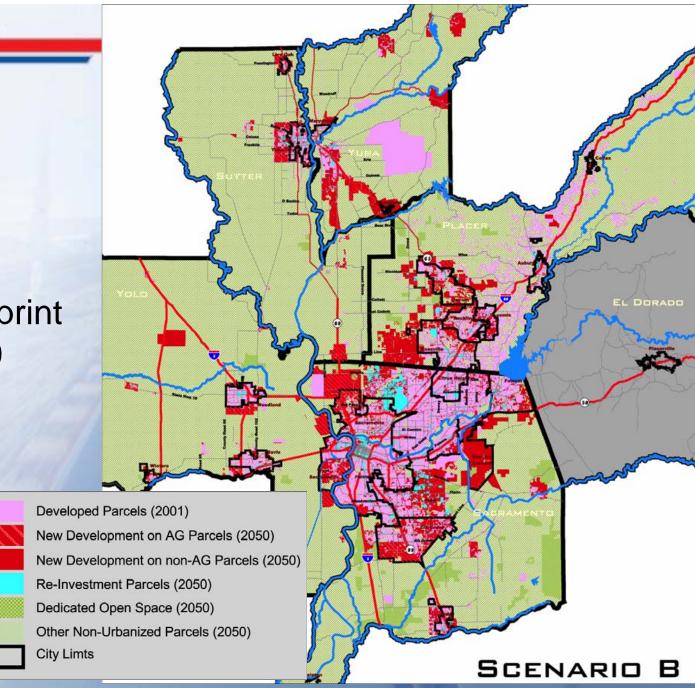
Developed Parcels (2001)
New Development on AG Parcels (2050)
New Development on non-AG Parcels (2050)
Re-Investment Parcels (2050)
Dedicated Open Space (2050)
Other Non-Urbanized Parcels (2050)
City Limts

SCENARIO A

Urban Footprint - 2050

B





Urban Footprint - 2050

С



Developed Parcels (2001) New Development on AG Parcels (2050) New Development on non-AG Parcels (2050) Re-Investment Parcels (2050) Dedicated Open Space (2050) Other Non-Urbanized Parcels (2050) **City Limts**

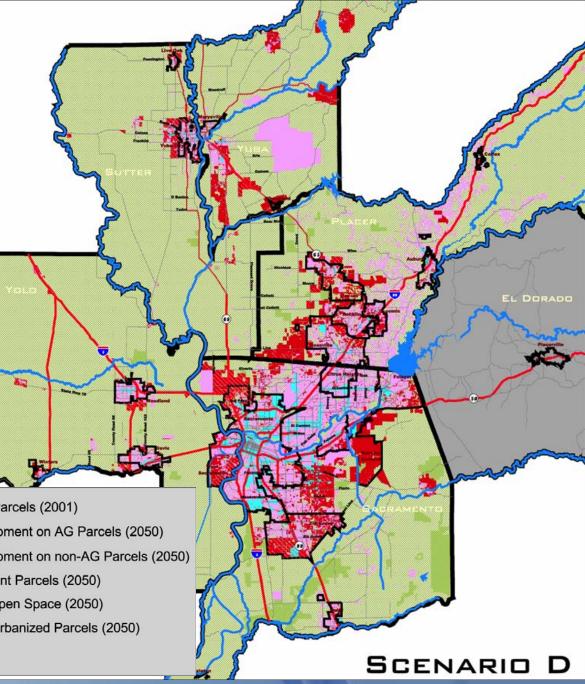
SCENARIO C

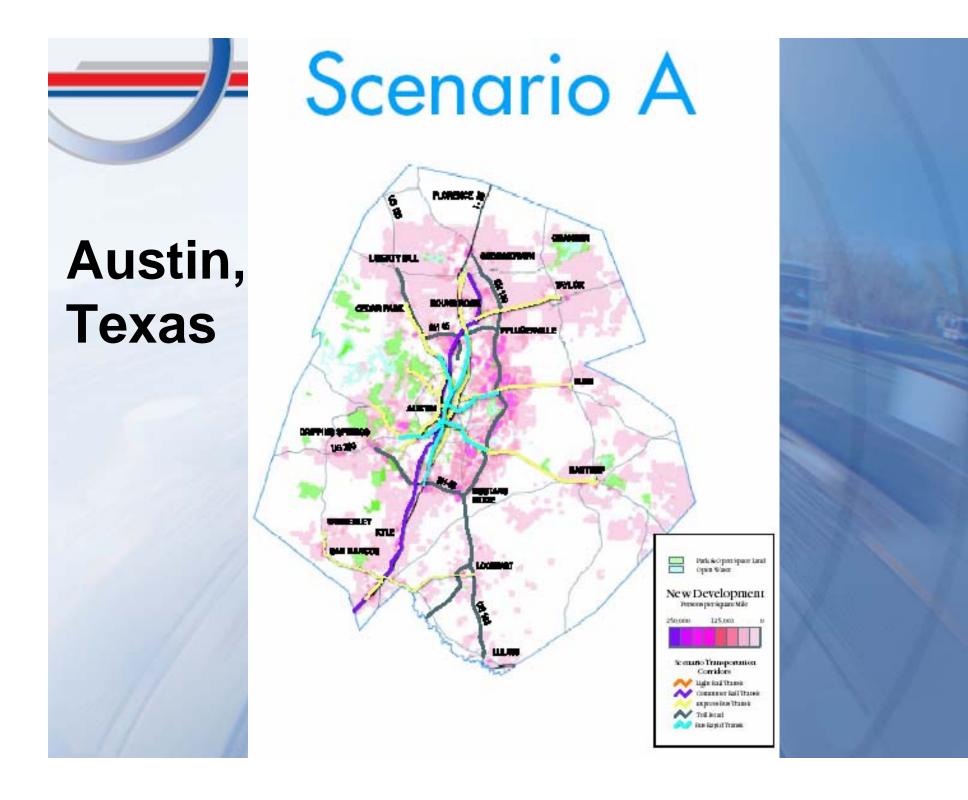
Urban Footprint - 2050

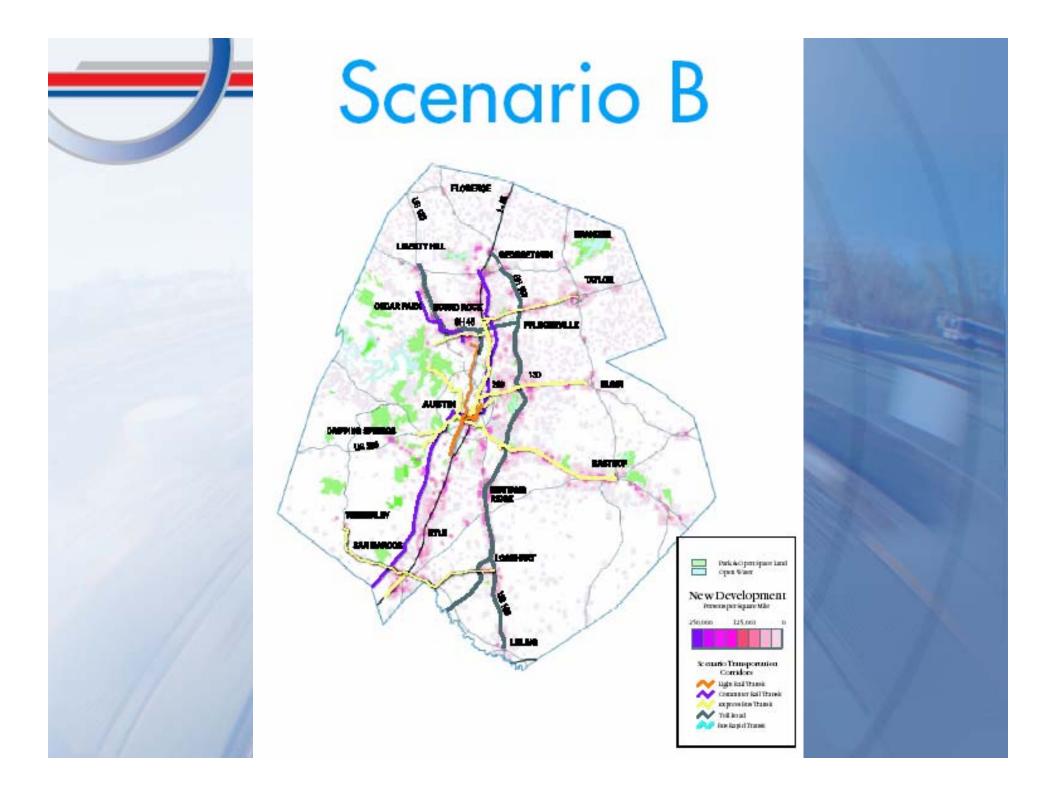
800

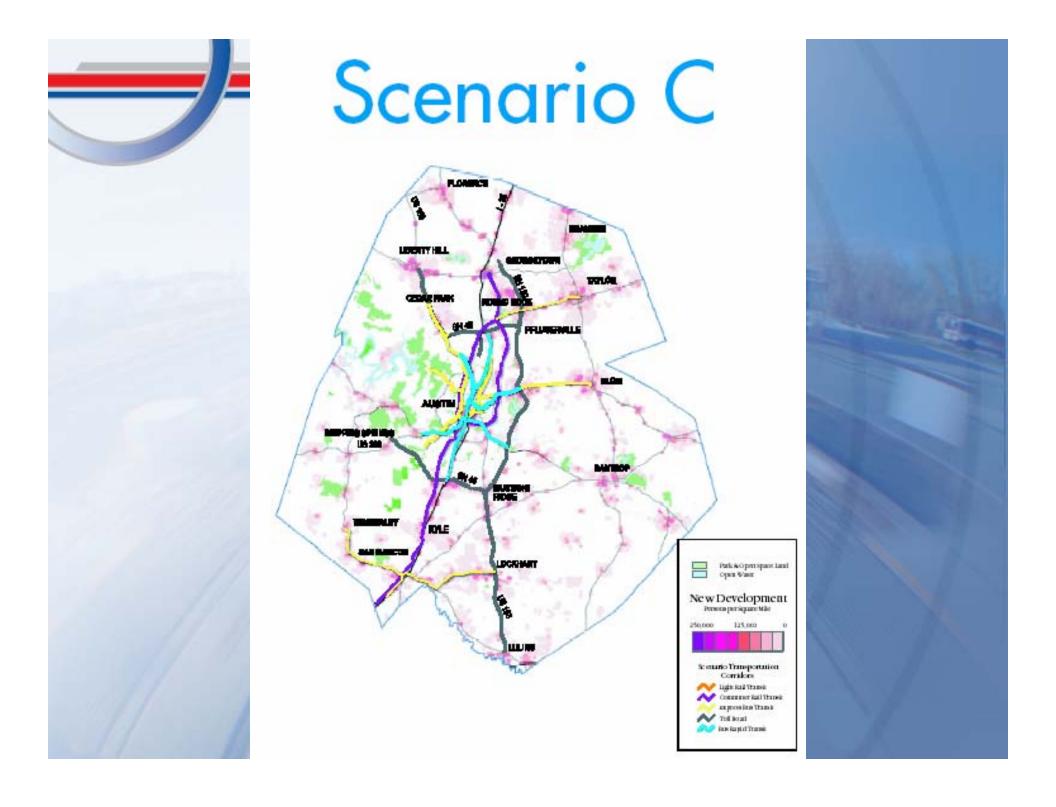


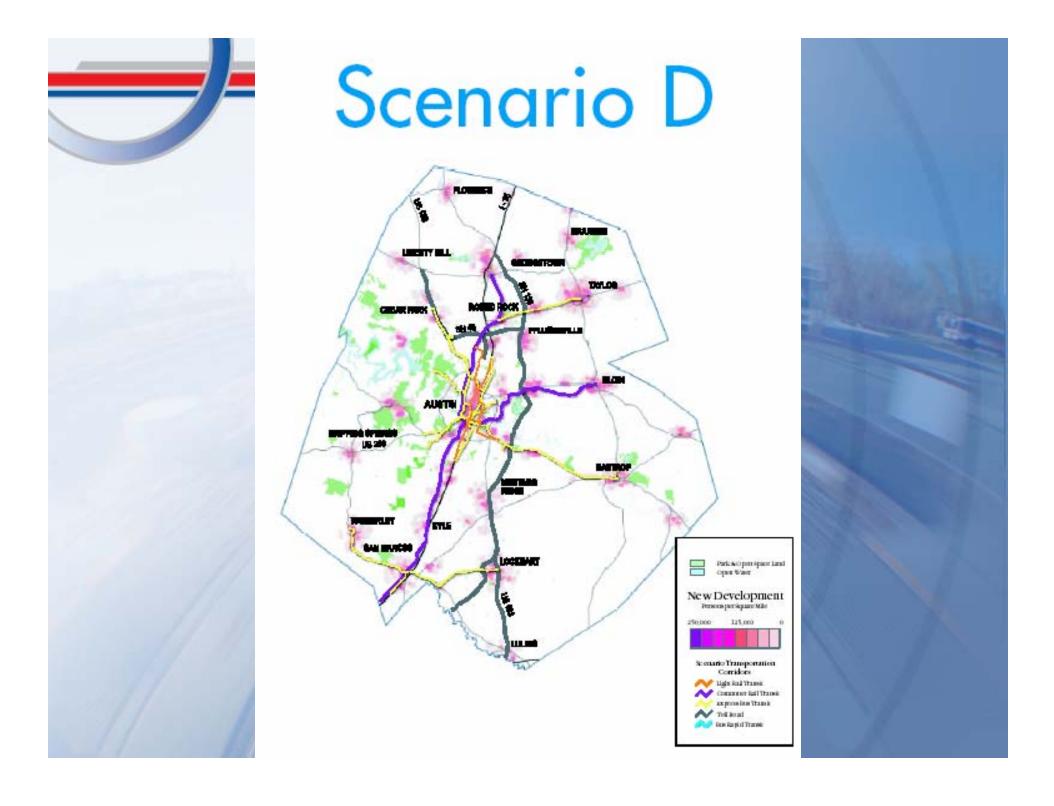
Developed Parcels (2001) New Development on AG Parcels (2050) New Development on non-AG Parcels (2050) Re-Investment Parcels (2050) Dedicated Open Space (2050) Other Non-Urbanized Parcels (2050) **City Limts**







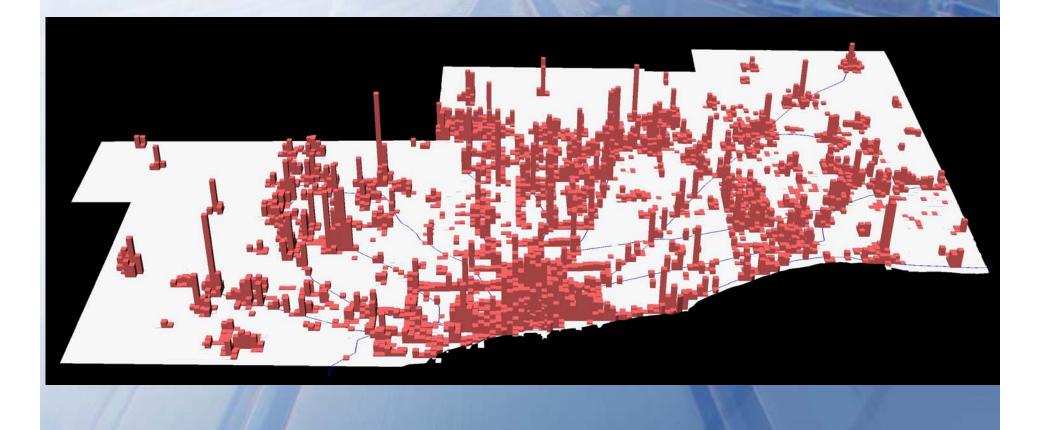




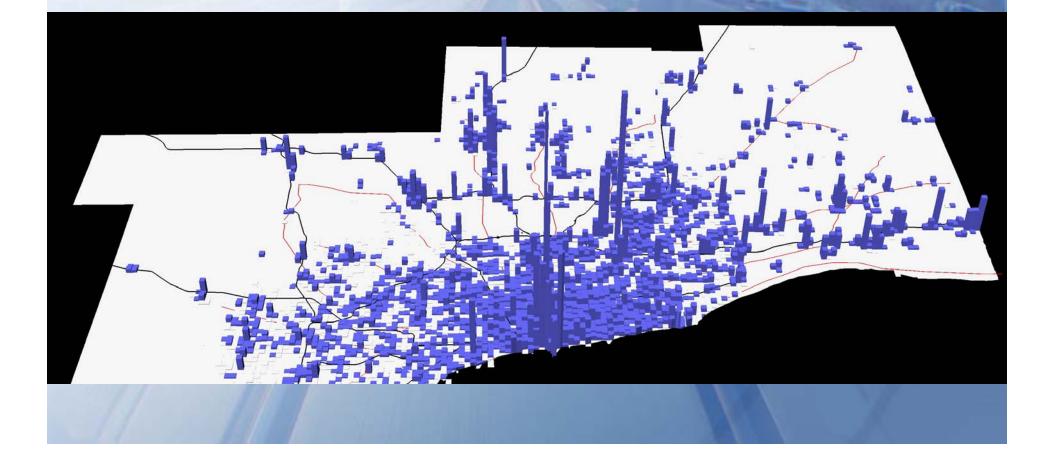




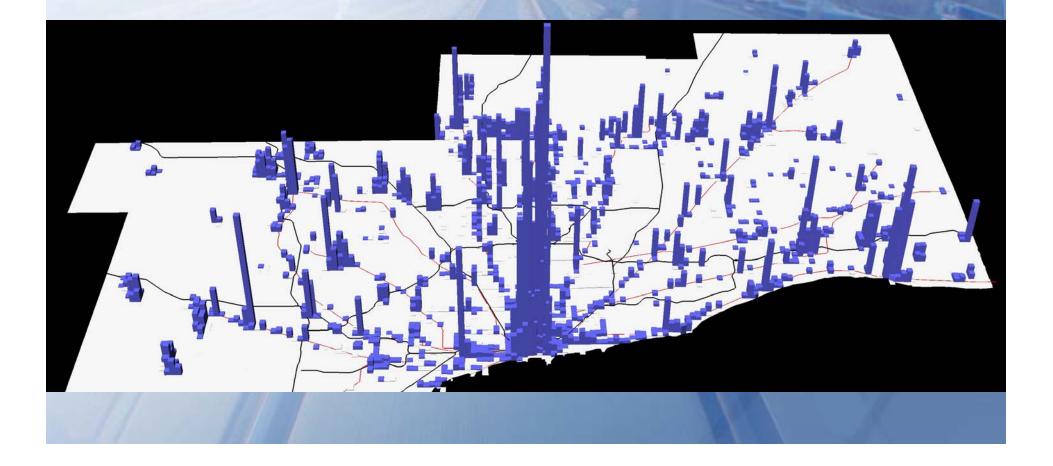


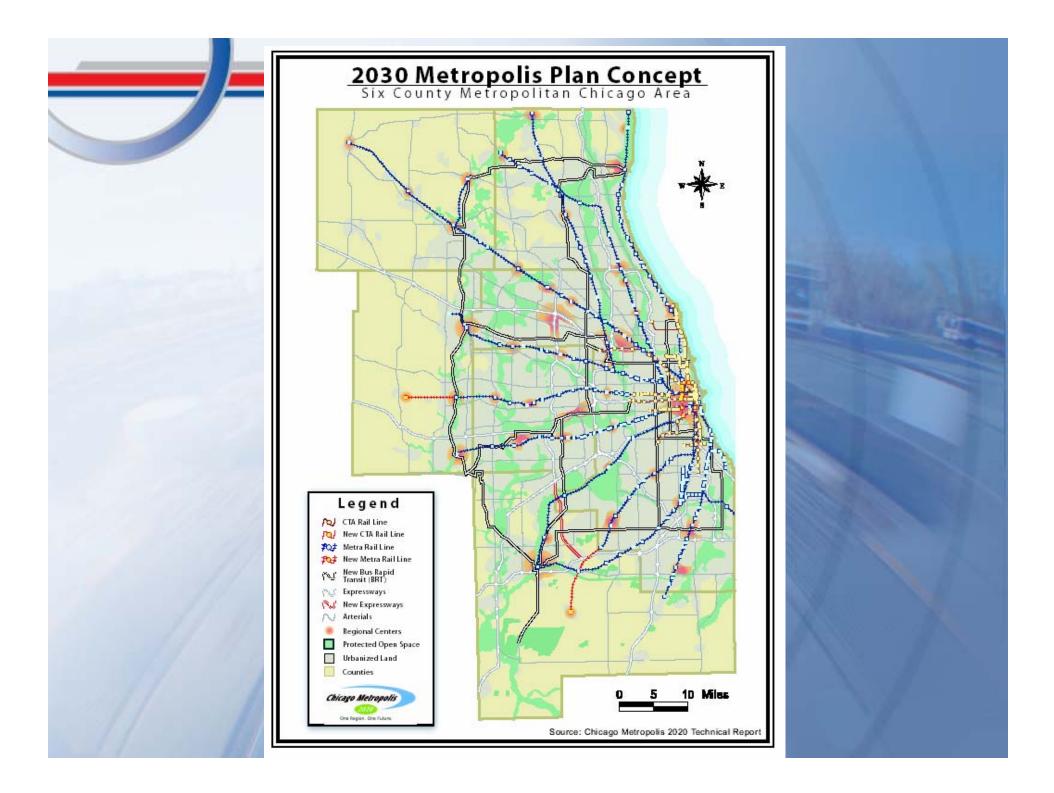


Employment Distribution Business as Usual

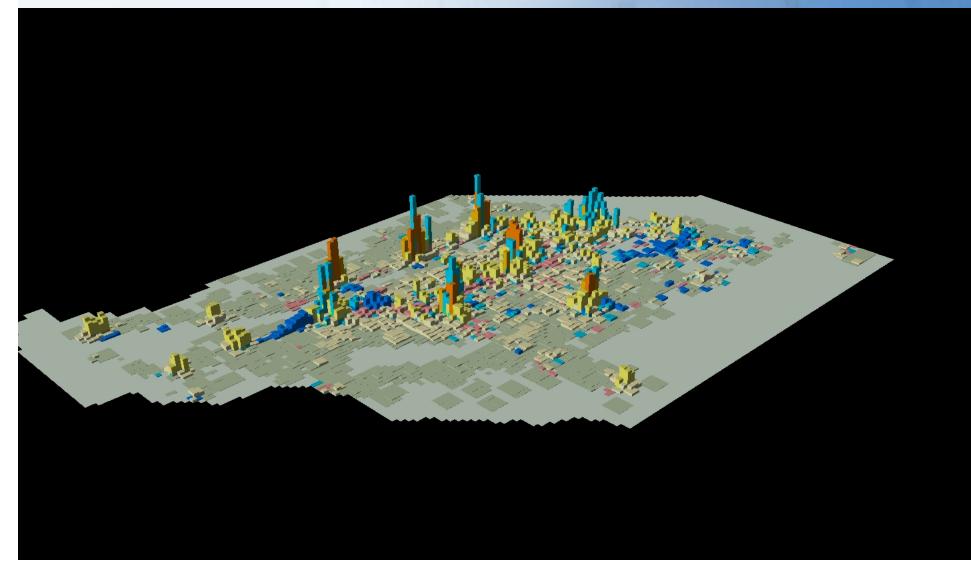


Employment Distribution Metropolis Alternative

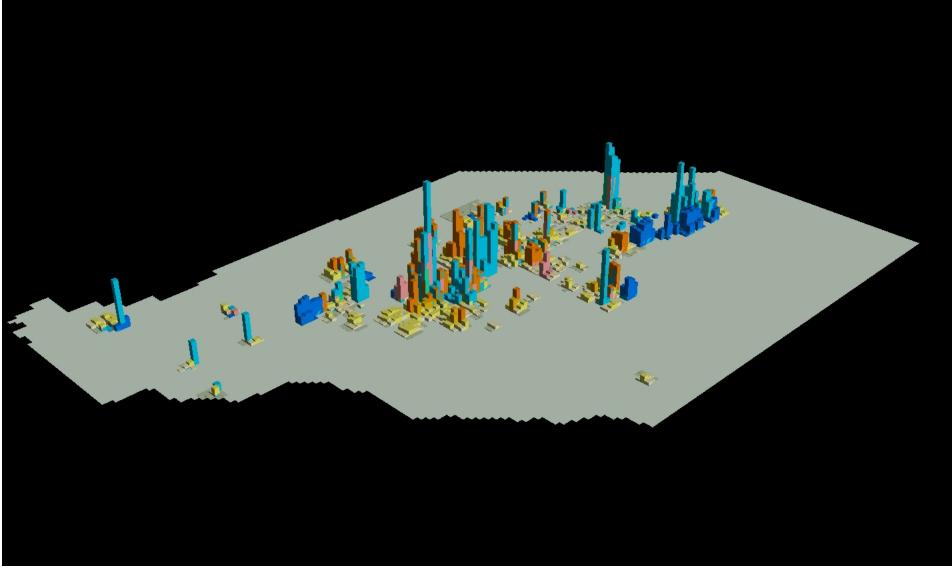




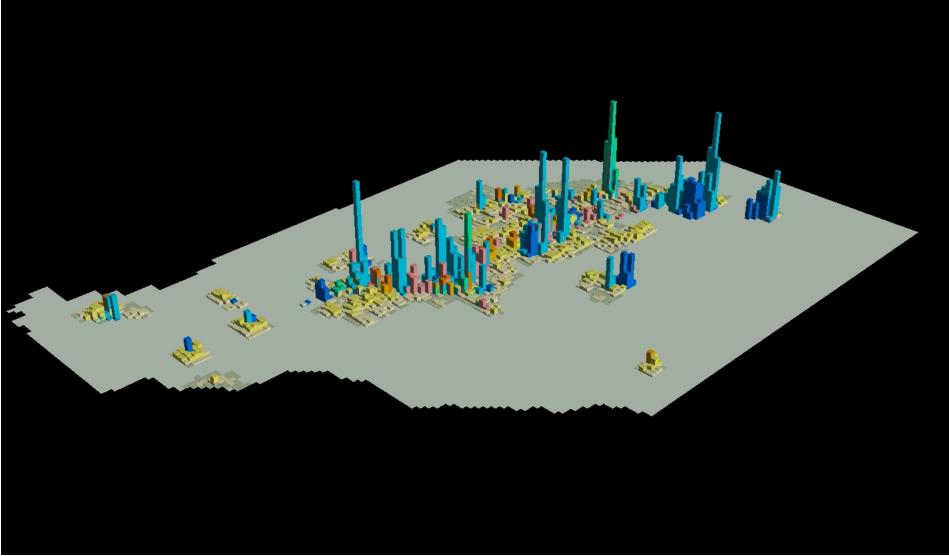
Boise, Idaho Workshop Average





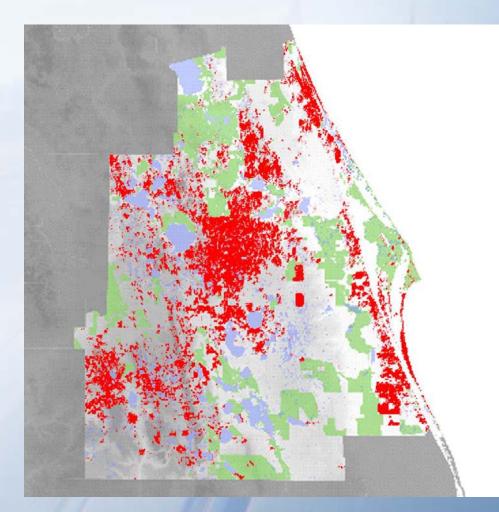






Orlando, Florida Developed Land

2000



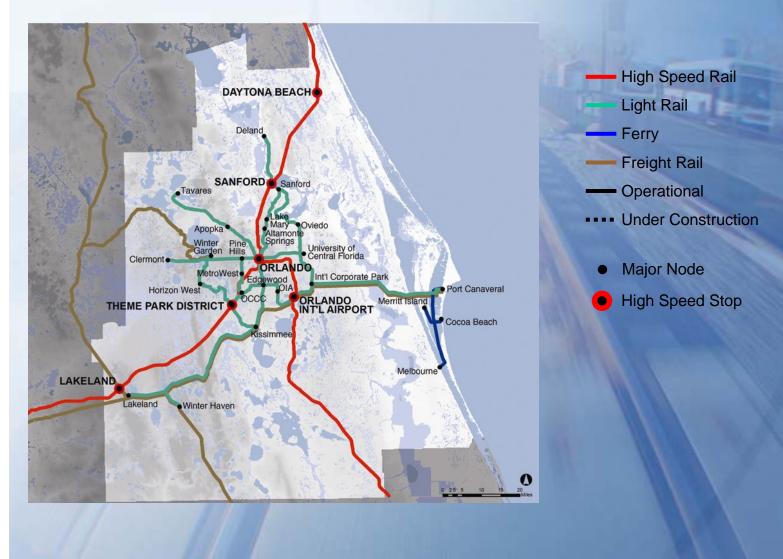
protected lands 2000 developed areas 2000 water bodies

Total acres: 5,312,627 16% Developed Land 19% Preserved Land 10% Water 55% Undeveloped Land

Regional Mass Transit

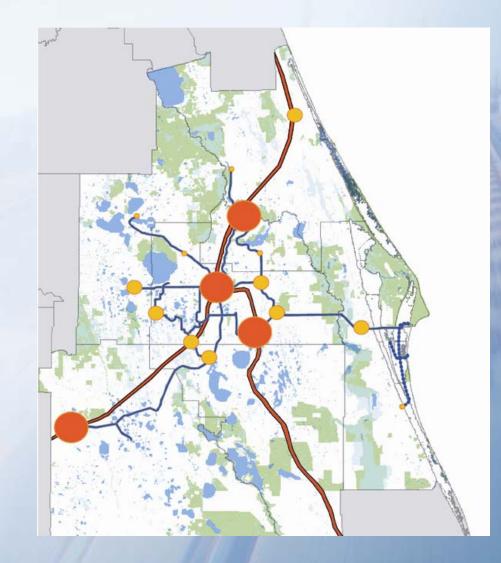
//// UTA 😂

2050

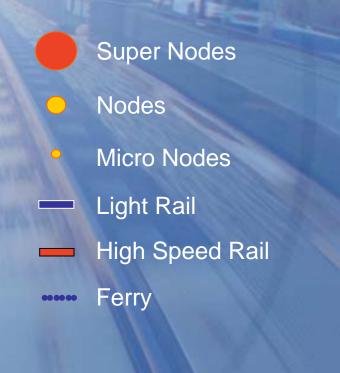


Identify Areas for Increased Densities

//// UTA 😂



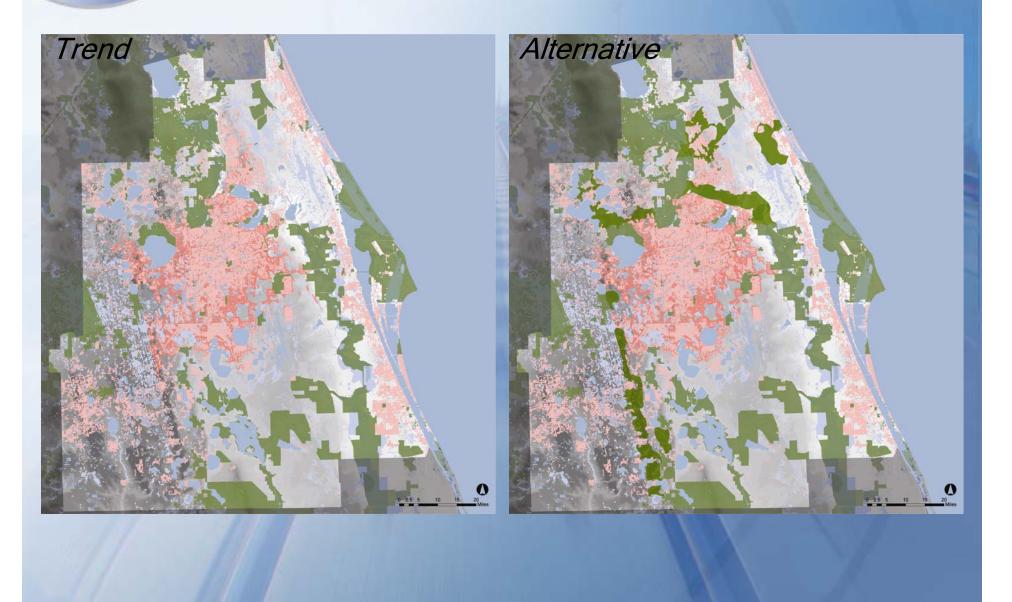
Create higher density zones in selected areas



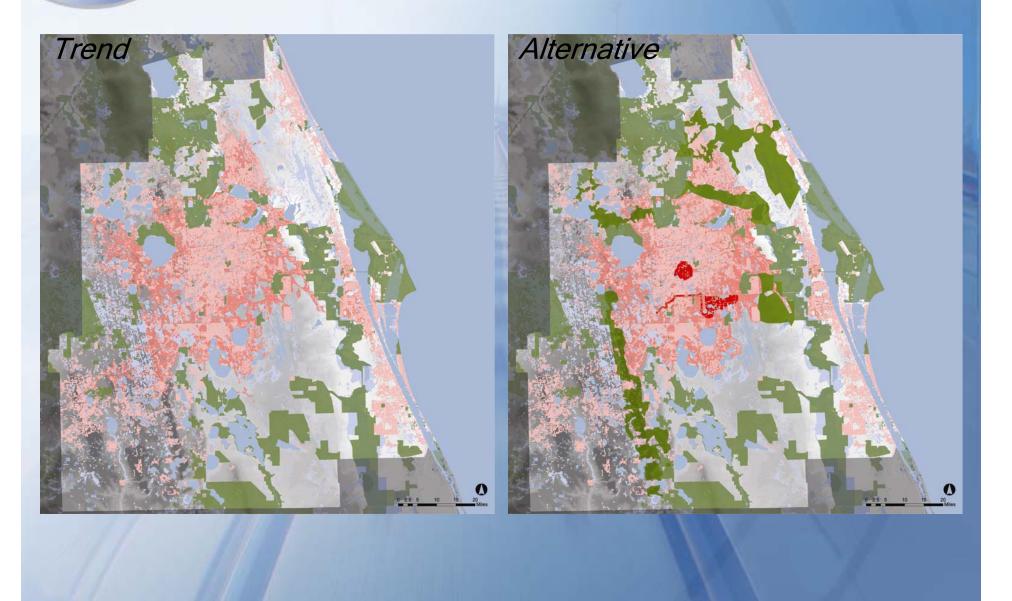
Phase I: 2000



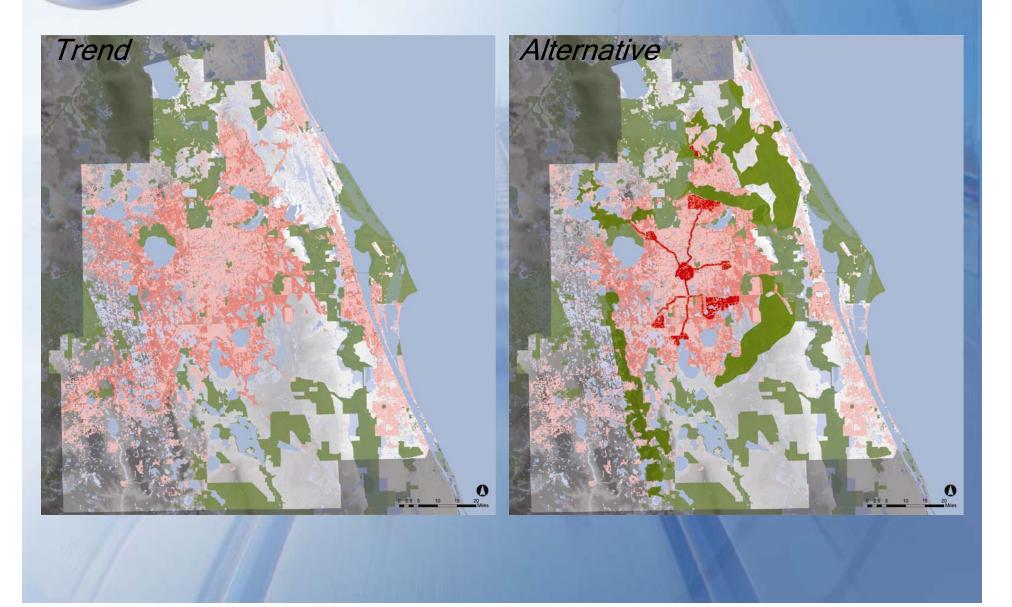




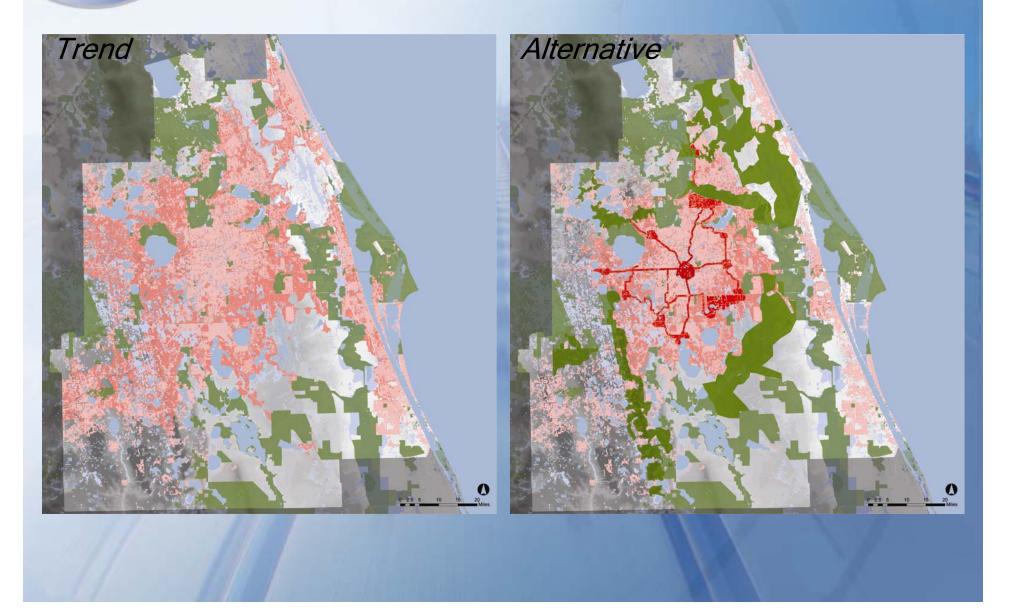




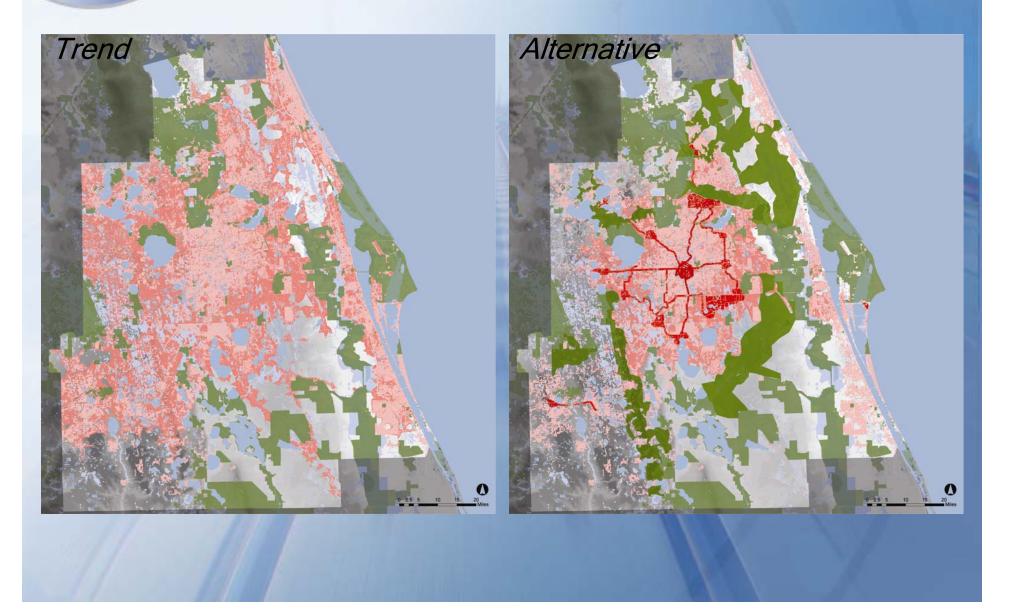




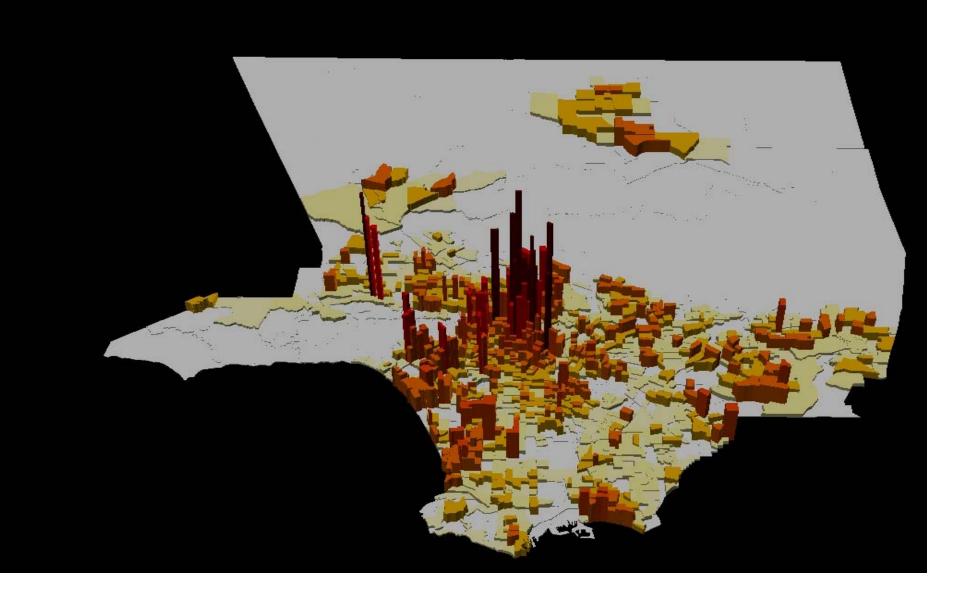




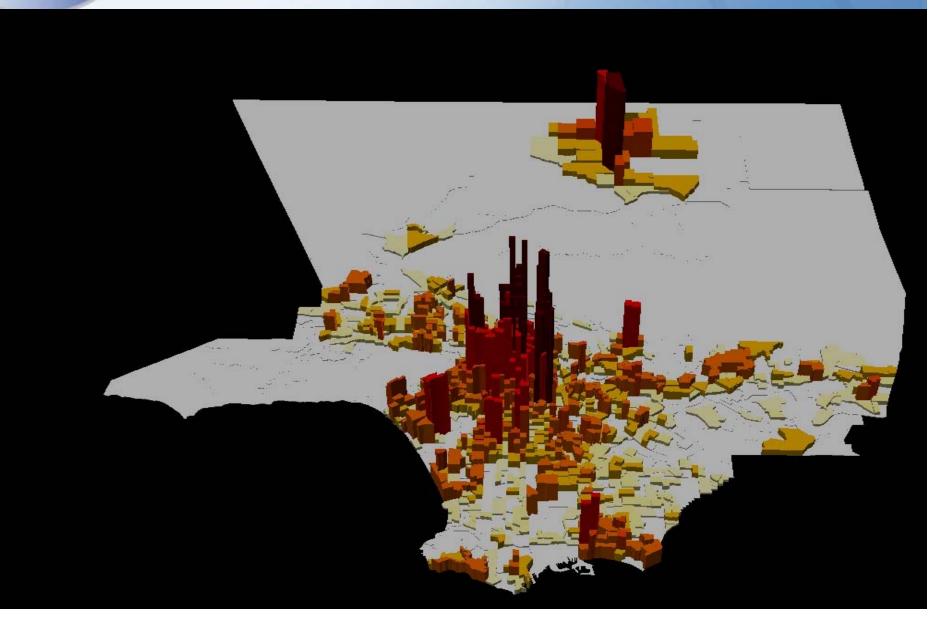




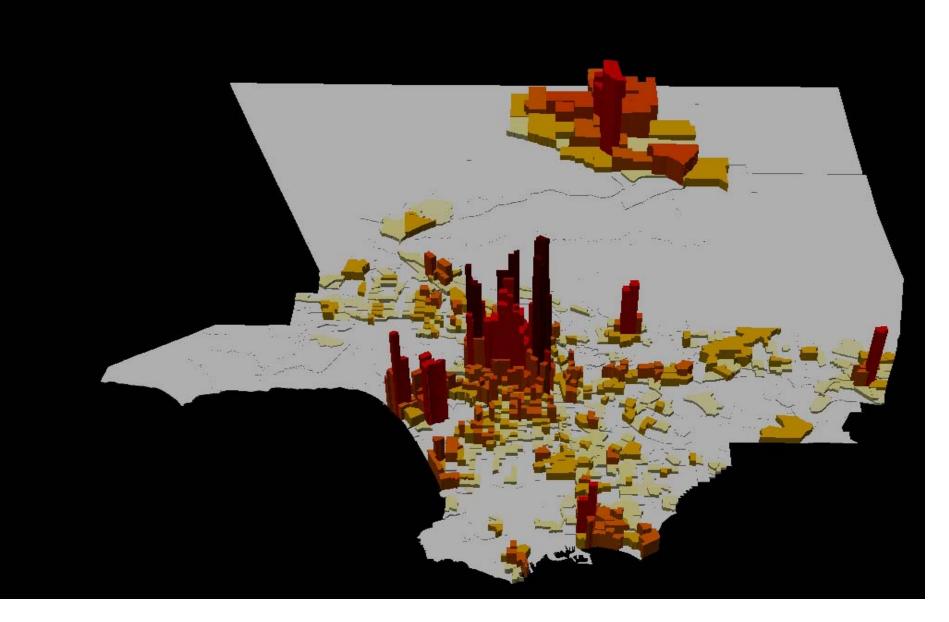
Los Angeles -- Trend Scenario



Infill Scenario



5th Ring Scenario



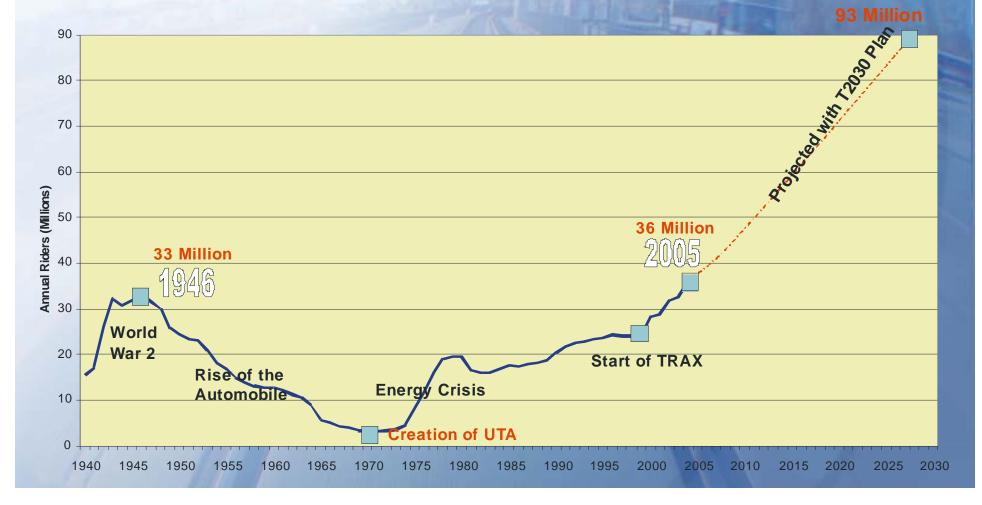
Our Challenges

UTA 🚔

- Adding a million residents by 2030
- Urbanizing 87% more land by 2020
- Needing new water sources by 2010
- Risking increases in air pollution
- Worsening crowding and congestion
- Increasing costs for businesses and families
- Rising infrastructure needs

Transit Success

UTA ridership at record levels and growing



Transit Success

//// UTA 🌐

TRAX is a great success

- Three lines built in five years
- Completed ahead of schedule, under budget
- Ridership is more than double projections
 - Projected ridership of 21,000 trips a day
 - Carried more than 58,300 trips a day in March 2006



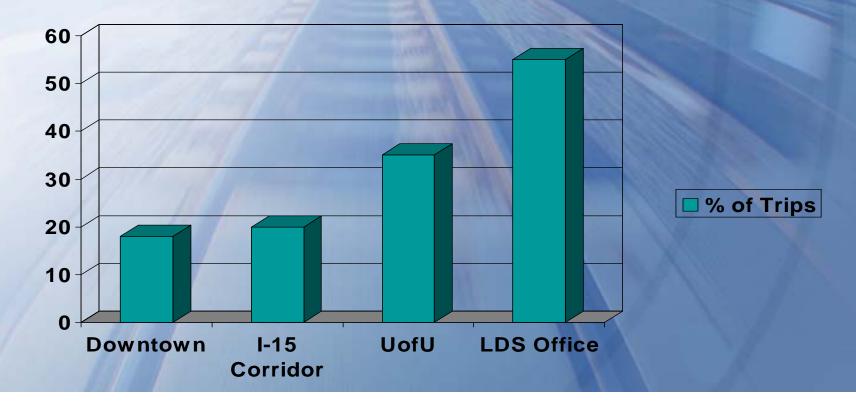


Transit Success

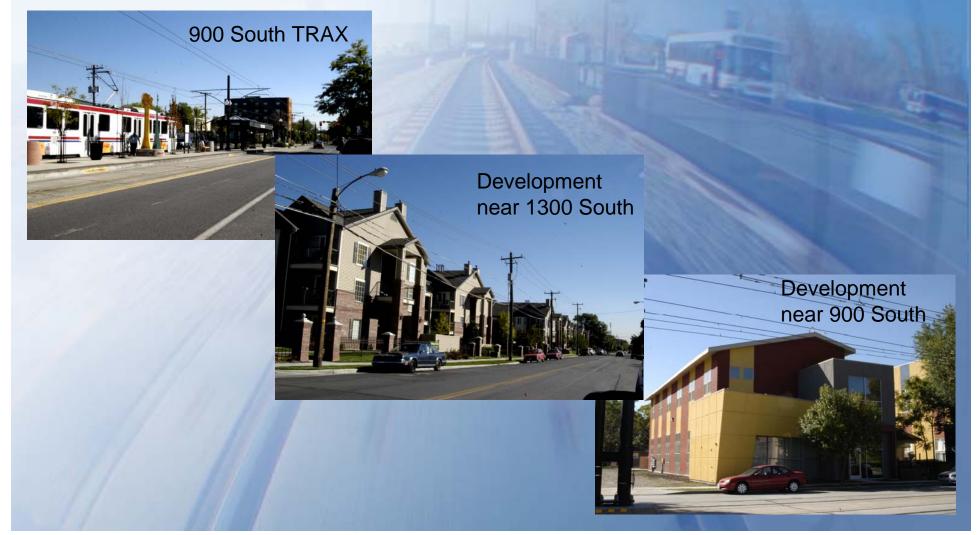
//// UTA 🌐

• Transit is making a difference

- The equivalent of one lane on I-15 during peak hours
- 35% of students going to the University of Utah
- 50% of employees at the LDS Church Office Building







What UTA Has Accomplished

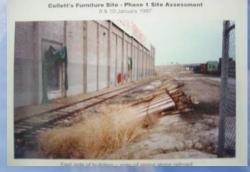
Brownfield Site Clean-Up



After



Ballpark Station



Rail Services Center



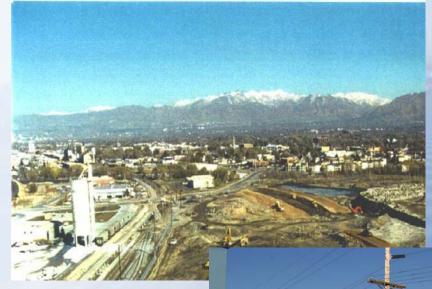
Pallas Yard





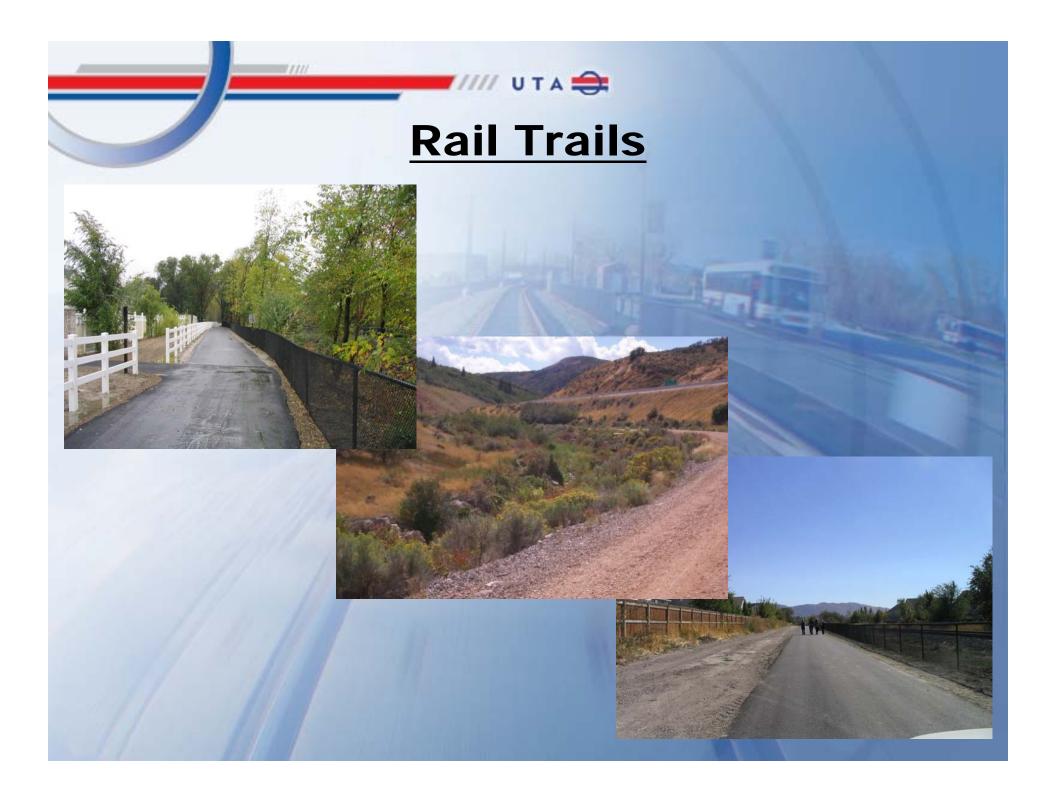


Superfund Site Land Use



5300 South TRAX Station and future hospital site





ISO Certification

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 Only transit authority in the United States with both ISO 9001 certification for quality management and ISO 14001 certification for environmental management



Regional Visioning Starts with Regional Values

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- Values are stable and enduring; life's "tides" as opposed to the "waves."
- Values are widely shared and create consensus among diverse groups.
- Satisfying ones' values is the foundation of personal decision making.

Public Workshops

Hundreds of meetings with thousands of participants



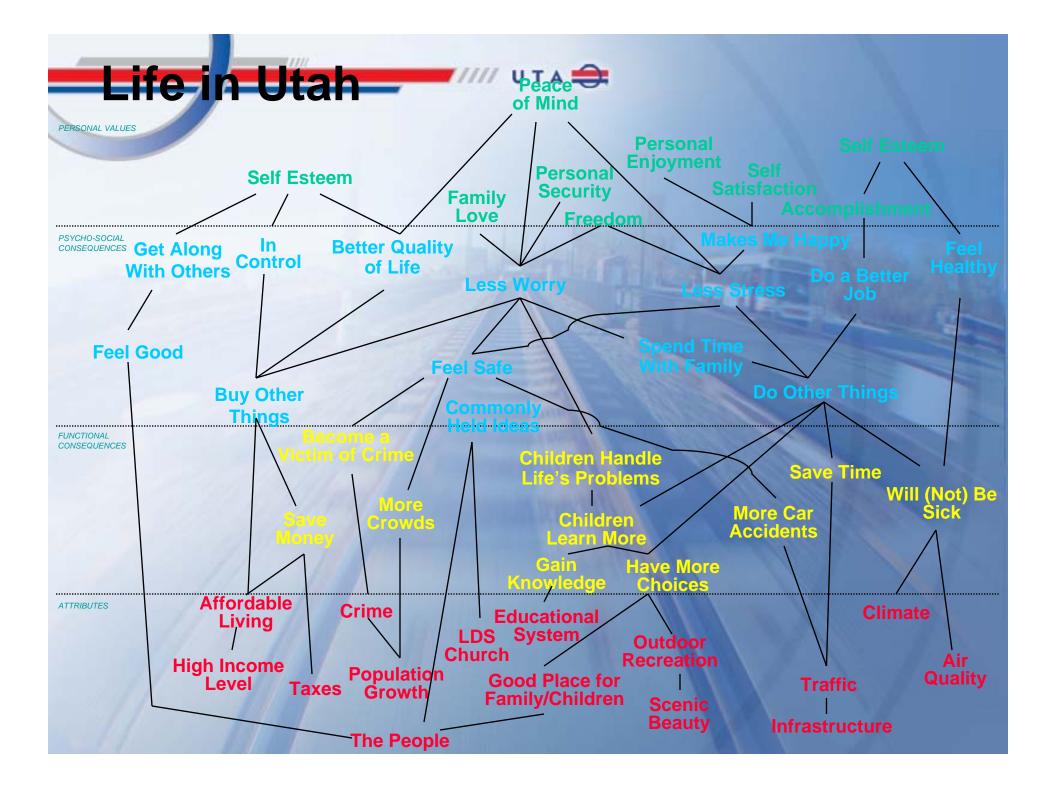
//// UTA 😂

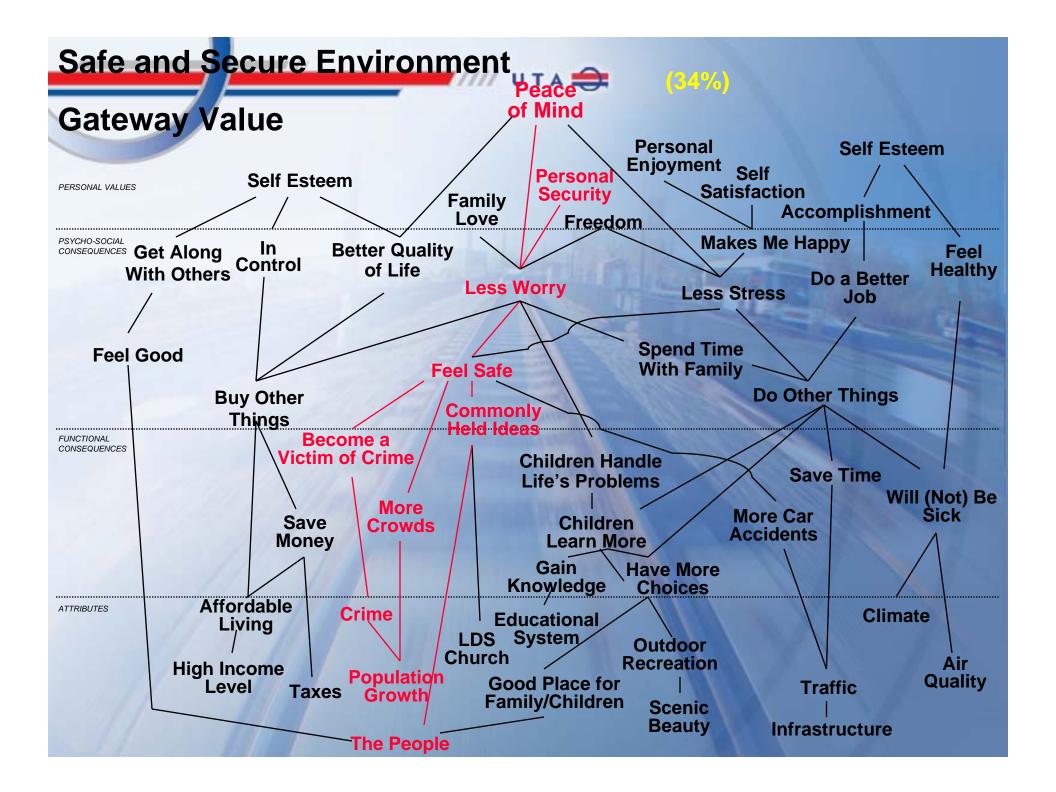


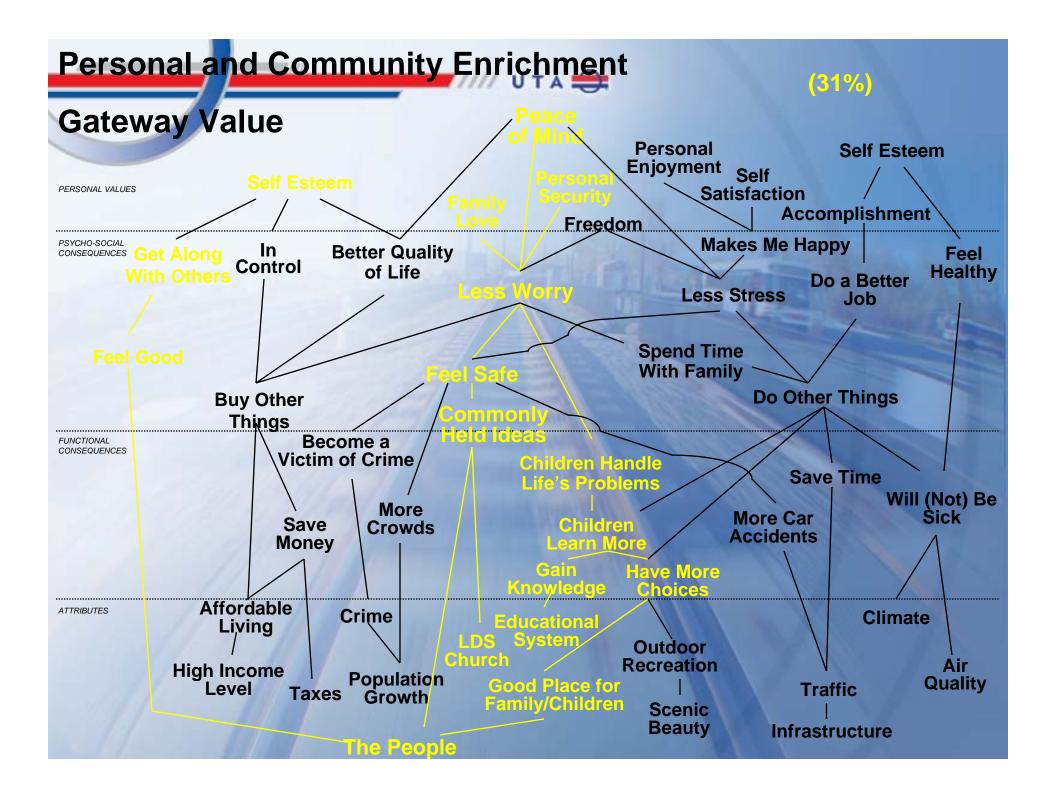
Major Public Workshop Findings

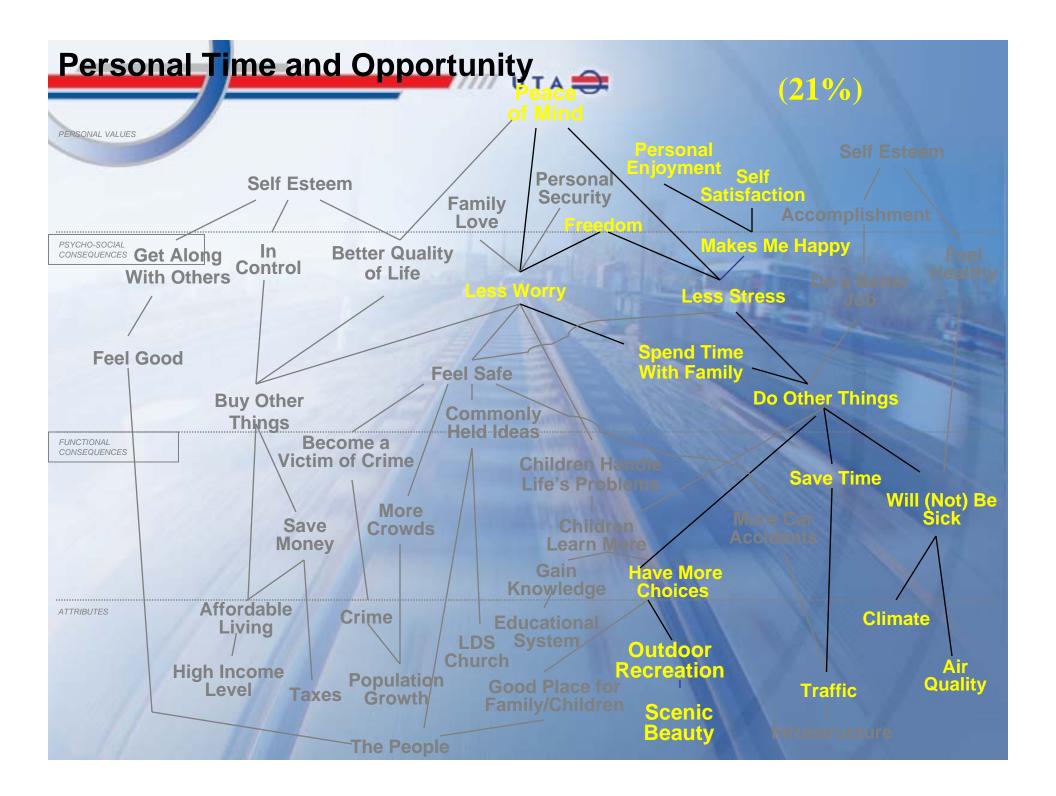
📕 //// UTA 😂

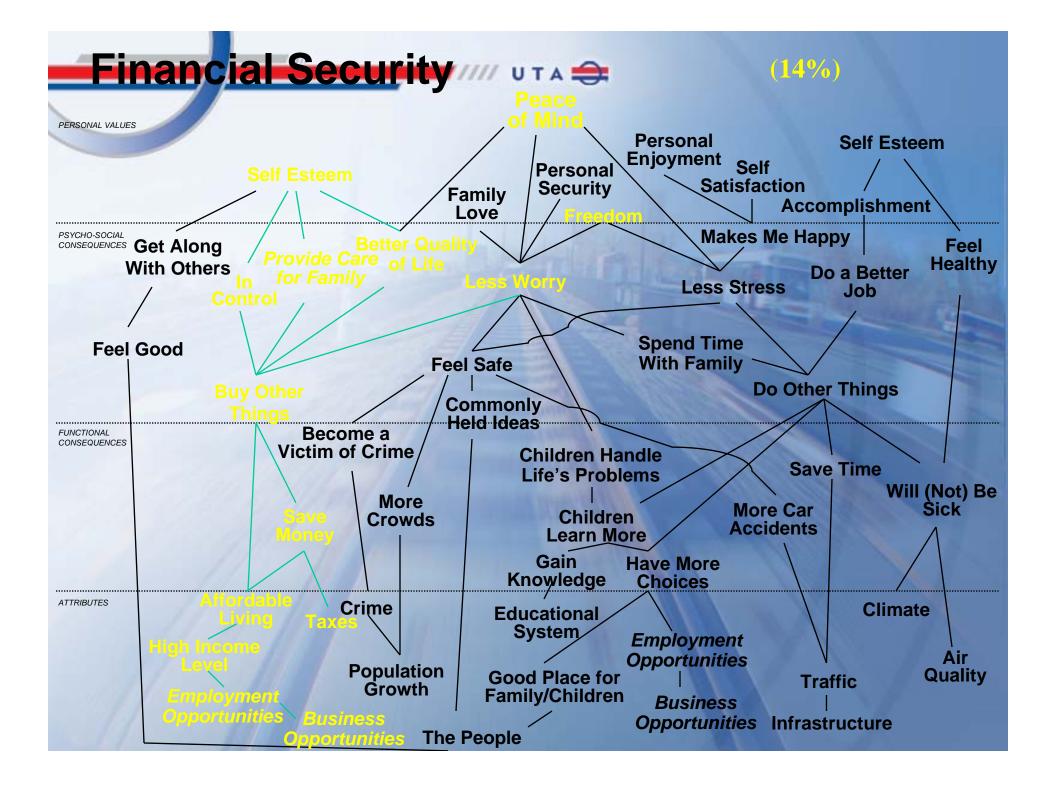
- Infill -- Participants preferred greater population numbers in infill areas than new expansion
- Wasatch Back -- Nearly all participants indicated that only minimal development should occur in the Wasatch Back
- Rail Transit -- Rail was seen as an essential component of the region's growth
- Walkable -- Participants expressed a general preference for walkable development
- Critical Lands -- Near general consensus that critical lands should be conserved

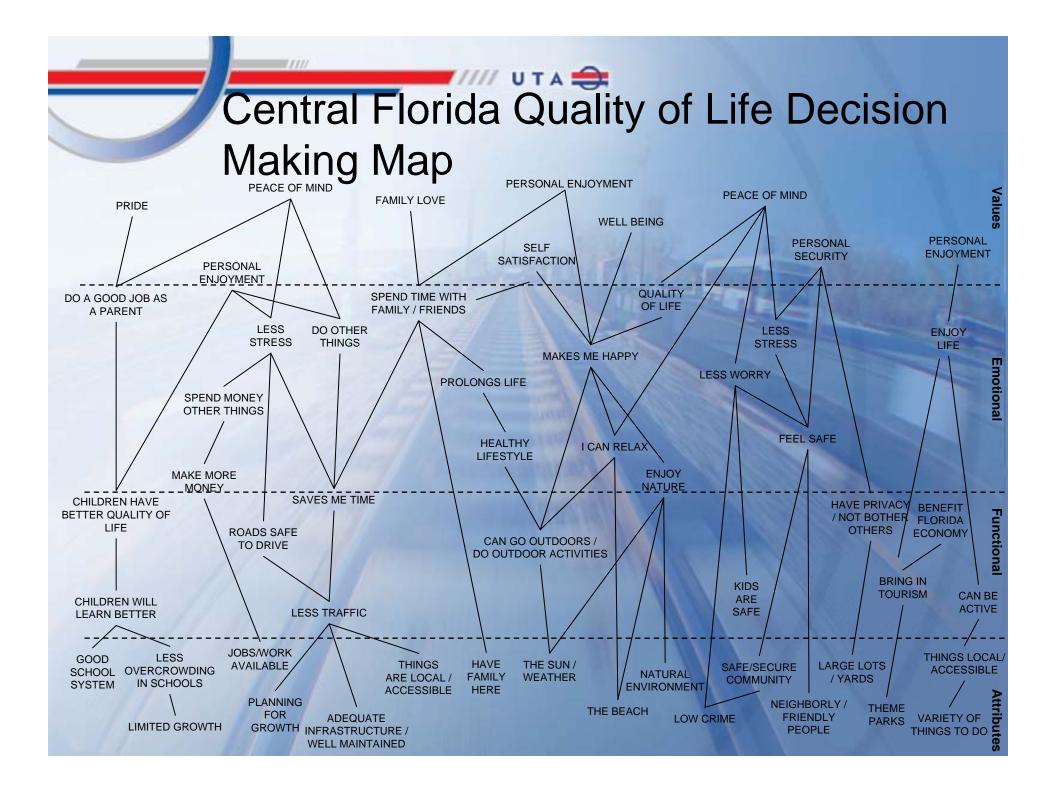


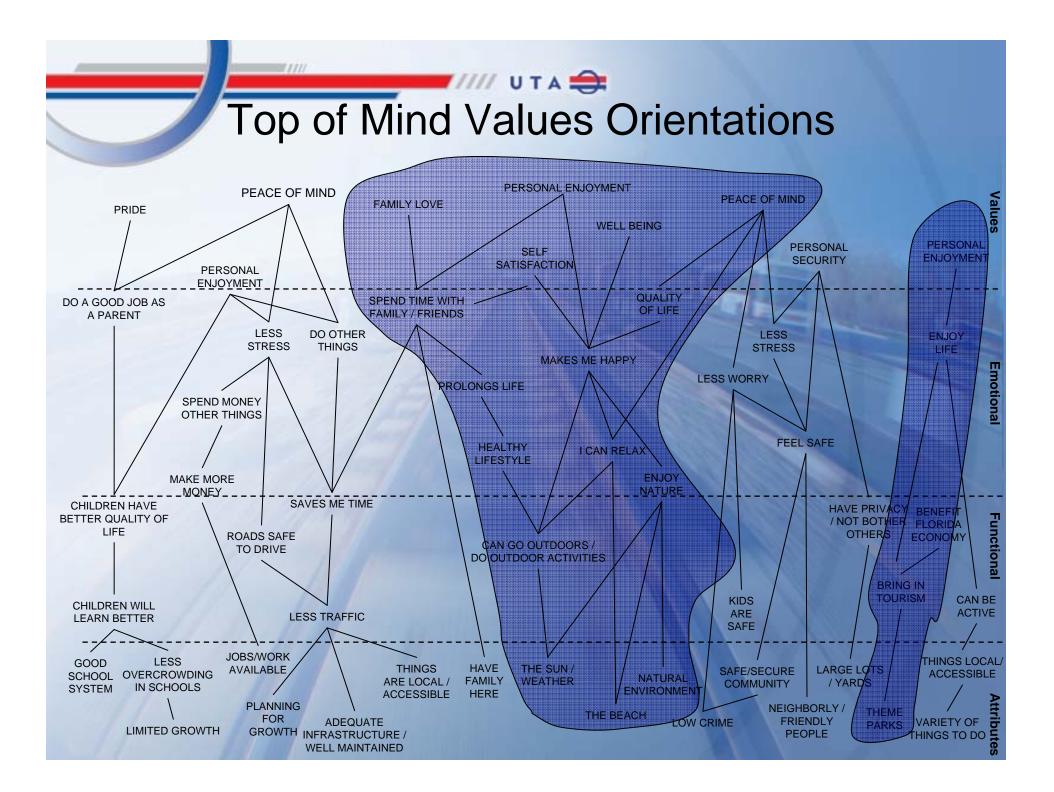


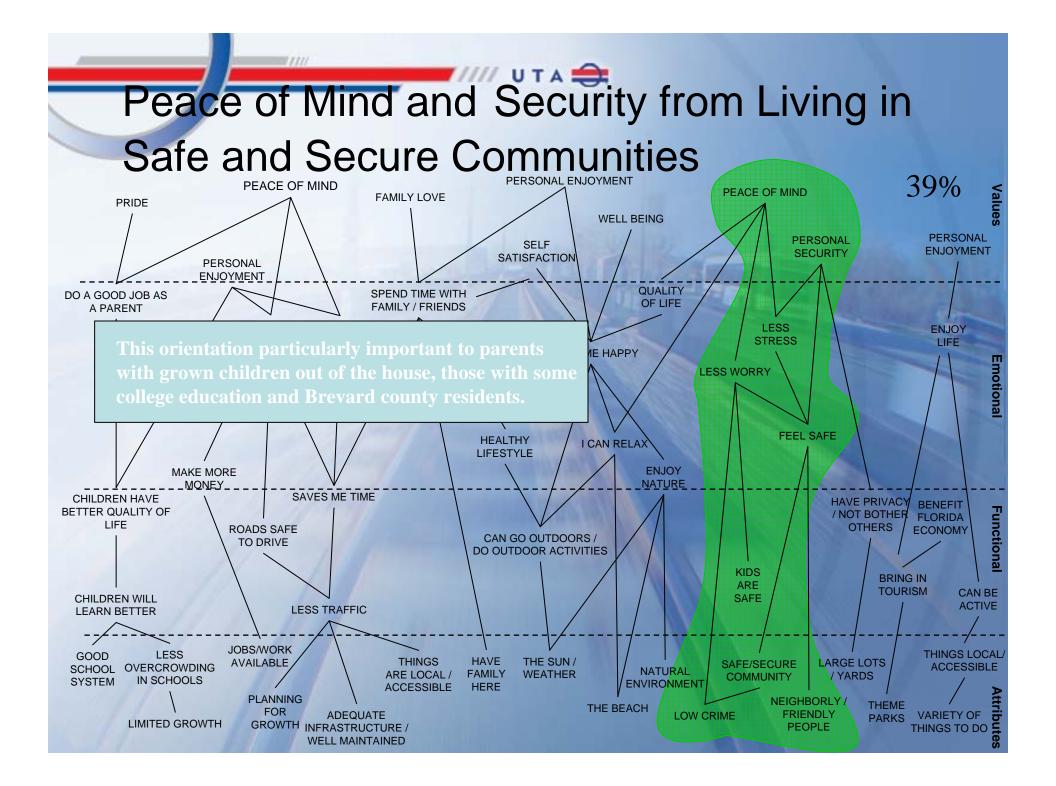






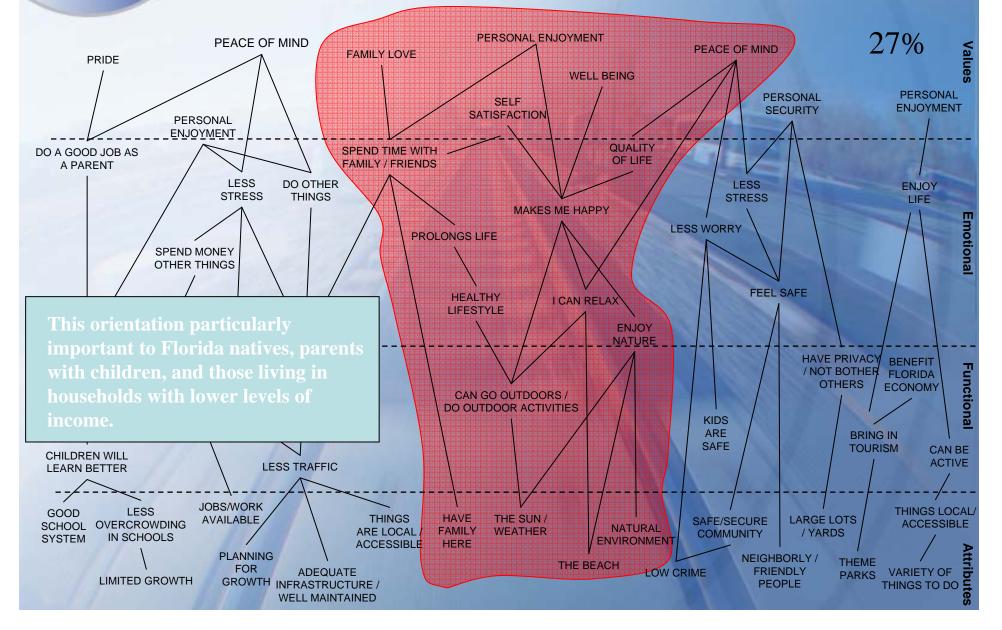


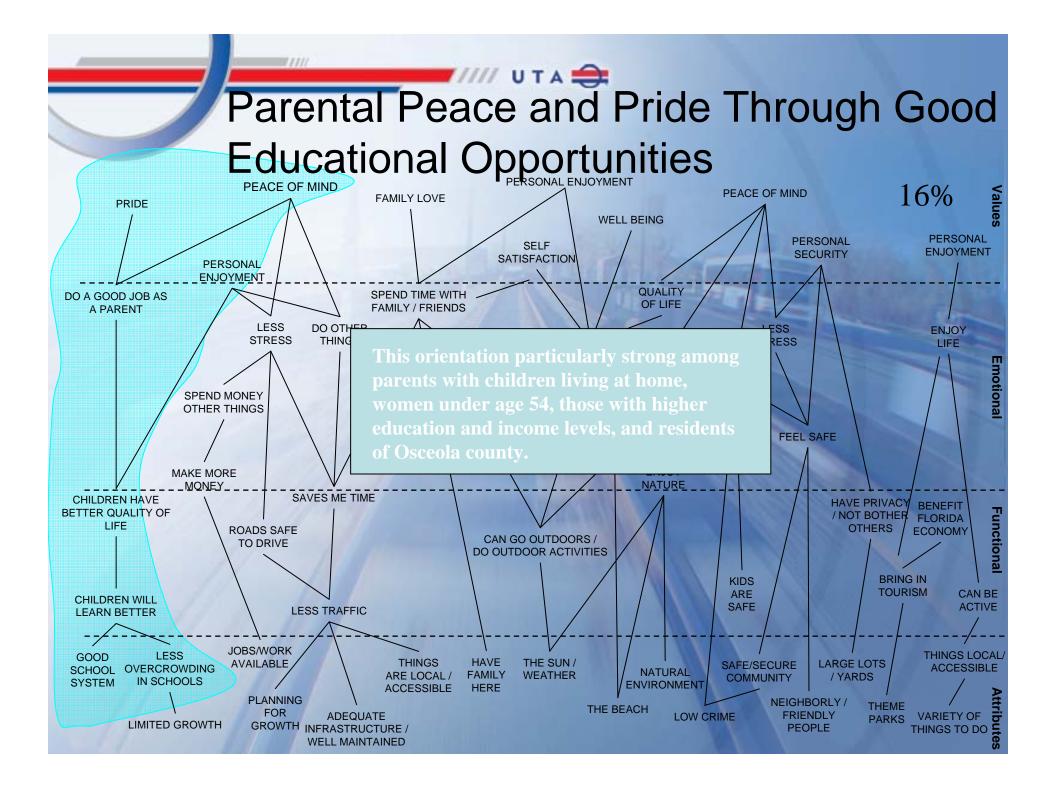




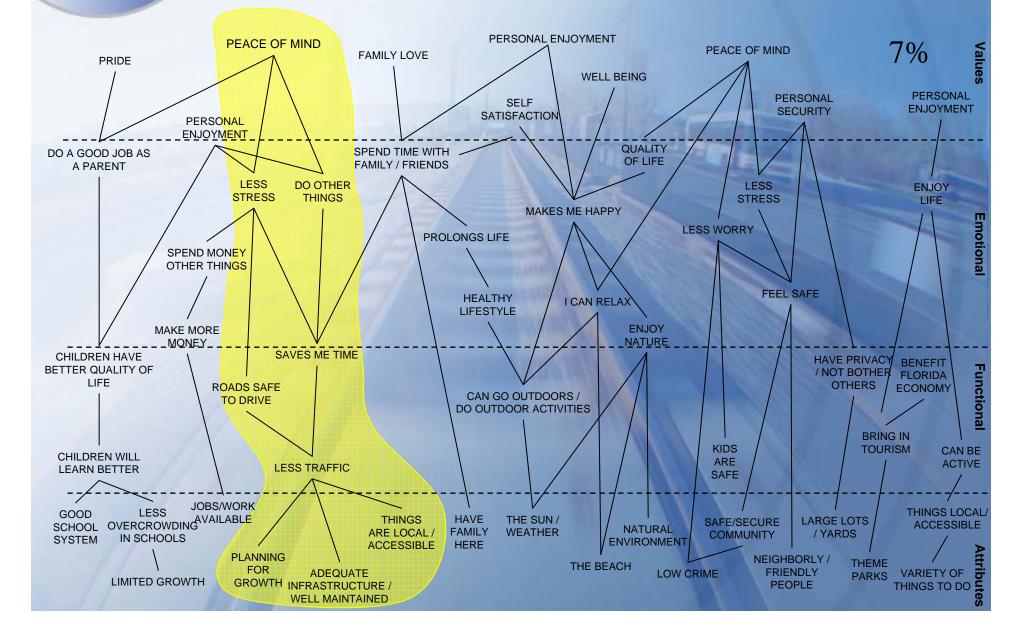
Enjoyment in Family Friendly Activity

//// UTA 😂





Aggravation From Traffic and Infrastructure



Three Foundational Values Pillars

//// UTA 😂

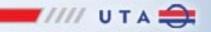


High Quality of Life from Enjoyment in Family Friendly Activity Nature Allows Safe and Secure Communities

> Peace of Mind and Security from Living in Safe and Secure Communities

Education

Community and Parental Peace and Pride Through Good Educational Opportunities



Scenario Approach:

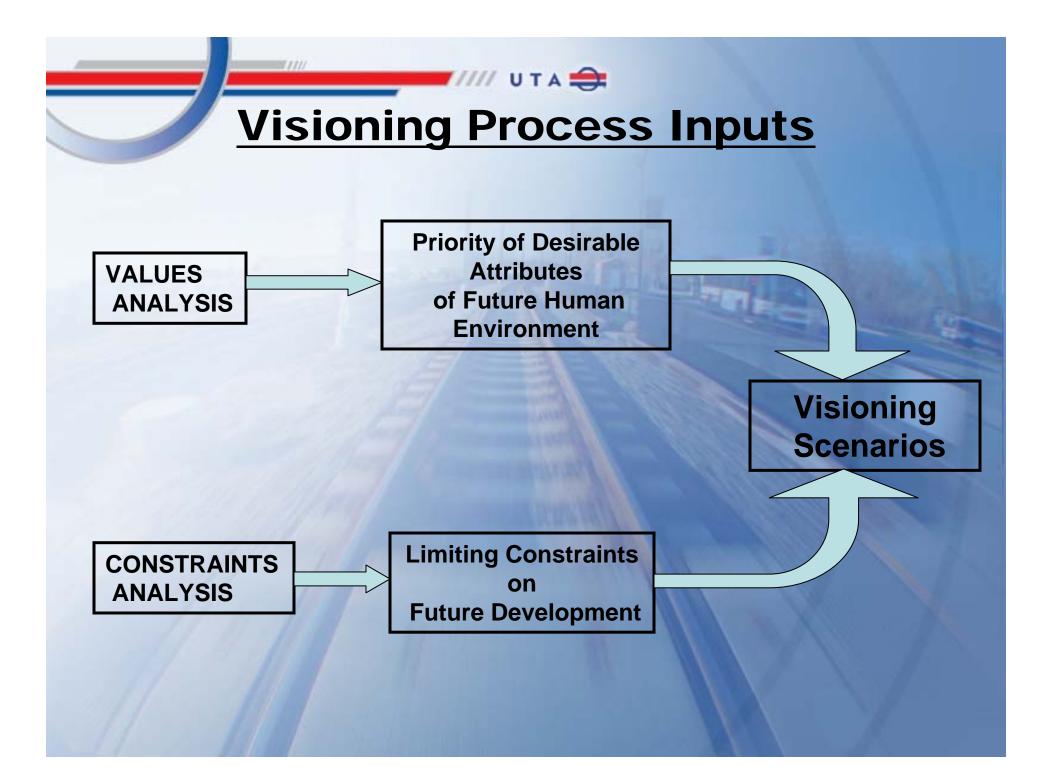
Contrasts today's choices by showing long-term consequences





Shopping Center Rail Transit Apartments Town Homes Single Family H







"Give me a lever long enough . . . and I shall move the world."

(Archimedes)

The Transportation System is the "Longest Lever" that creates a Region's future urban form



Use Scenarios to Ask

//// U T A 😂

Important Questions

Trend Impact? If the housing price/income gap continues to increase, which will we need more of?



or



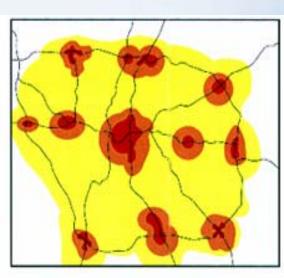
Trend Impact? If energy prices rise rapidly, which will we need more of?



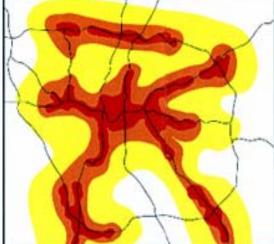
Scenarios Also Start with Regional Constraints And Opportunities

- Physical Constraints
- Legal Constraints
- Market Constraints
- Fiscal Constraints

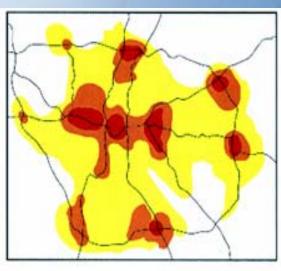
//// UTA 😂 **Develop a Range of Choices**



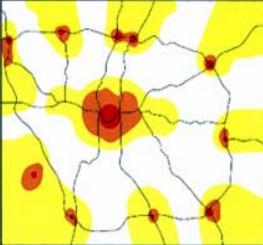
Dispersed Pattern



Corridor Pattern

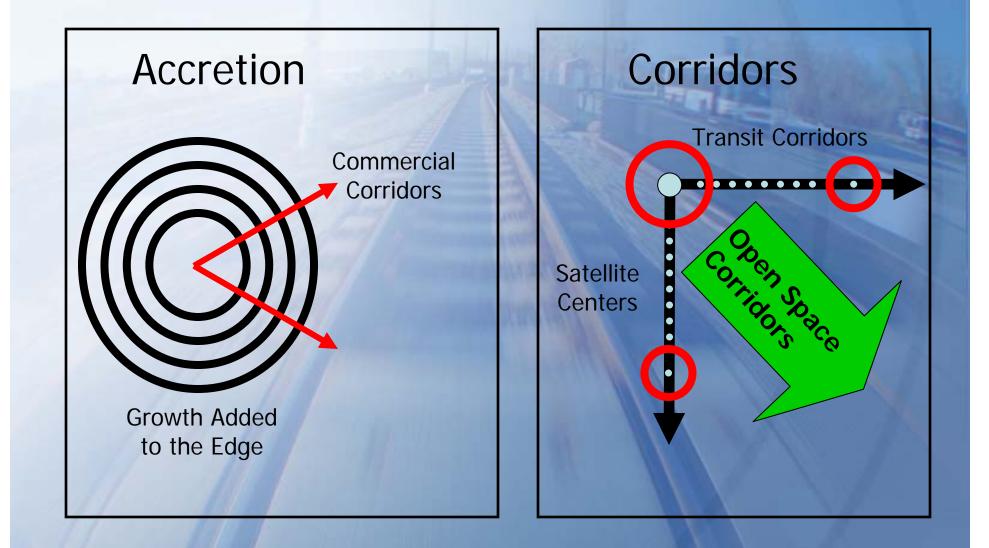


Compact Pattern



Satellite Pattern

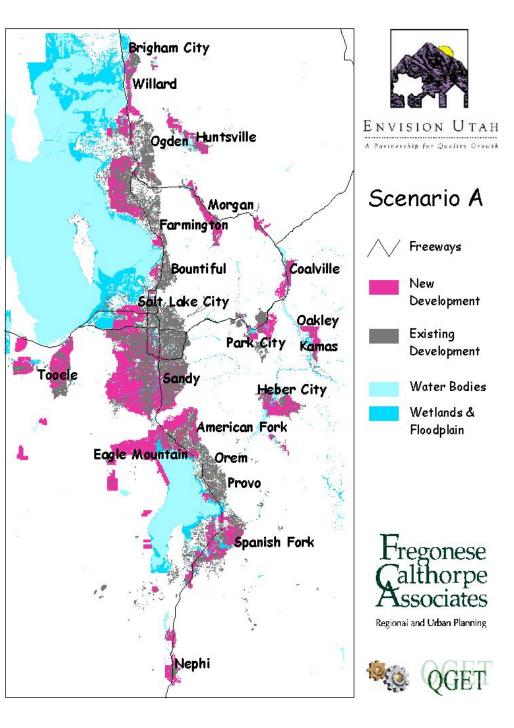
Growth Models



Scenario A New and Existing Development

- Continuation of Recent Trends
- Larger lot sizes
- More auto-oriented development will occur.

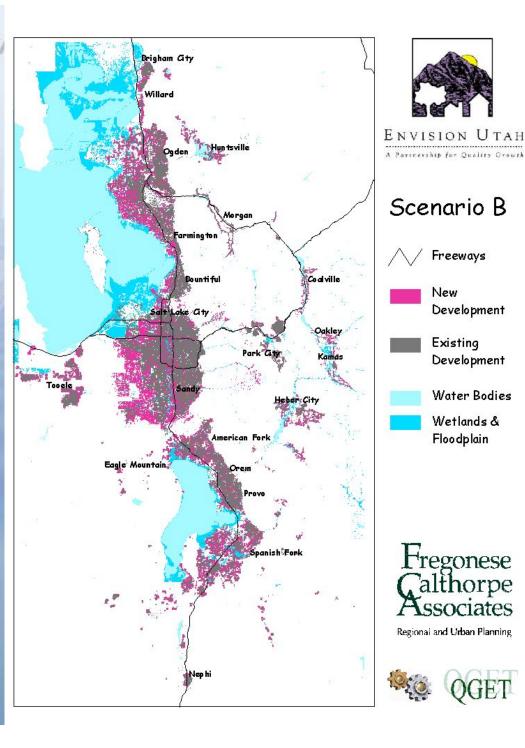




Scenario B New and Existing Development

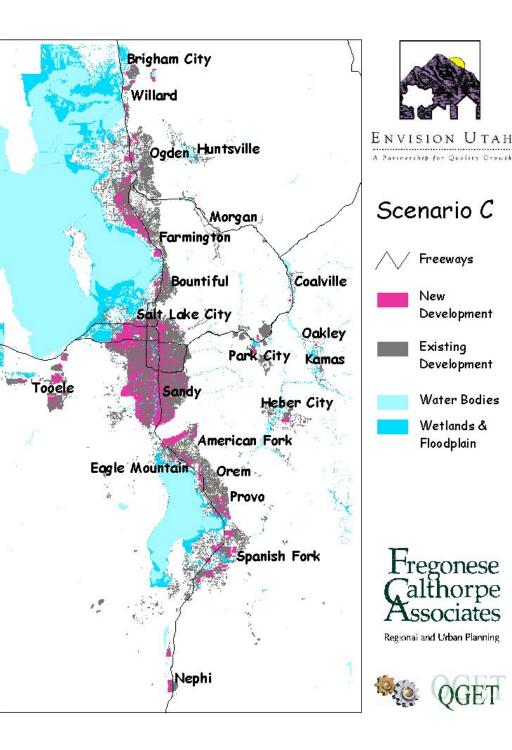
Baseline - implement adopted plans
Dispersed development pattern common in last 20-30 years





Scenario C New and Existing Development

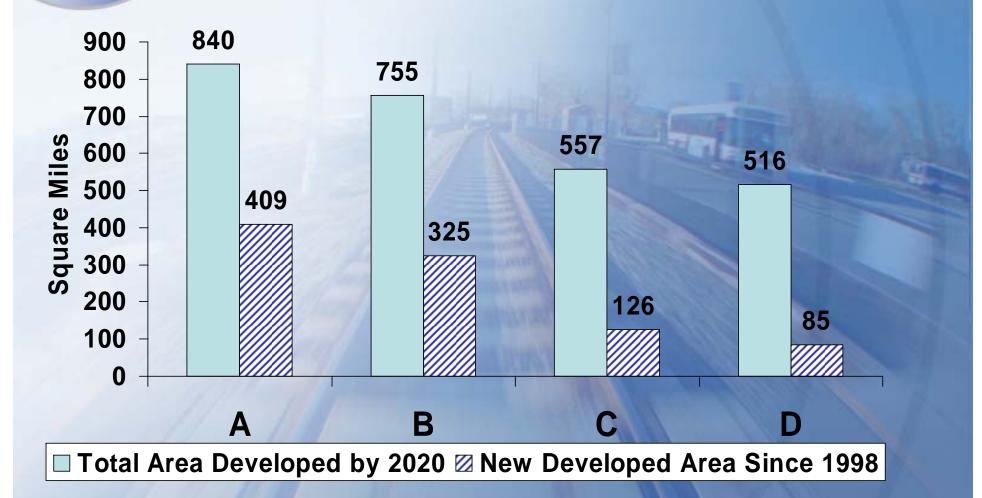
- More infill and redevelopment
 Growth on new land focused into walkable, transit-oriented communities



Brigham City Willard Scenario D ENVISION UTAH Ogden Huntsville A Parinership for Quality Growth New and Existing Development Scenario D Morgan Significant increase in densities Farmington • Extensive infill and redevelopment Freeways Extensive transit system **Bountiful** Coalville New Salt Lake City Development Oakley Existing Park City Kamas Development Tooele Sandy Water Bodies Heber City Wetlands & American Fork Floodplain Eggle Mountain Orem Provo Spanish Fork Fregonese althorpe Associates Small Business Shopping Center Rail Transit Apartments Town Homes Single Family Hon Regional and Urban Planning Nephi

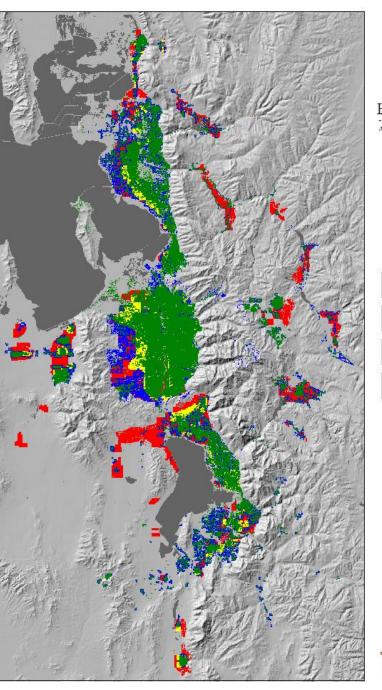
Land Consumption

//// UTA 😂



Analysis





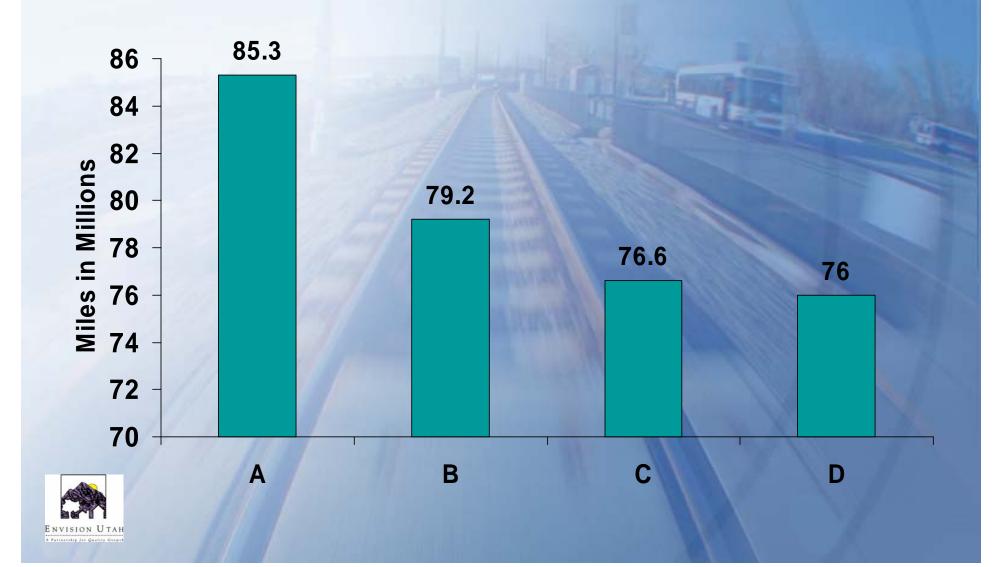




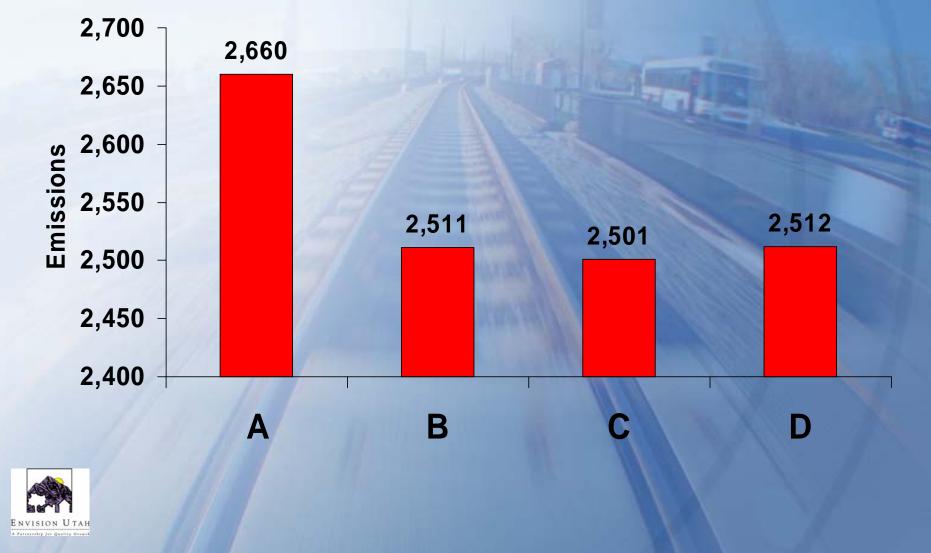
Regional and Urban Planning



Vehicle Miles of Travel Per Day



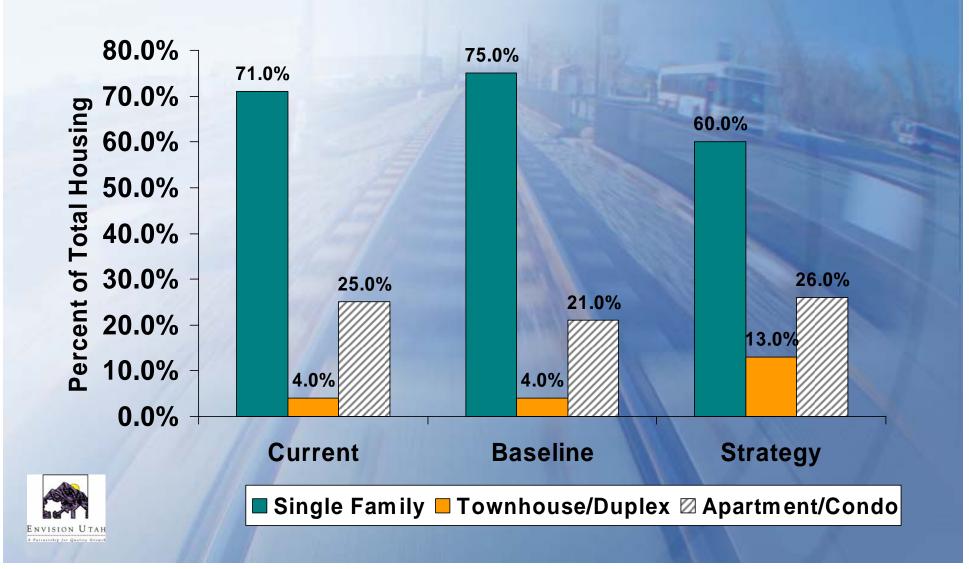




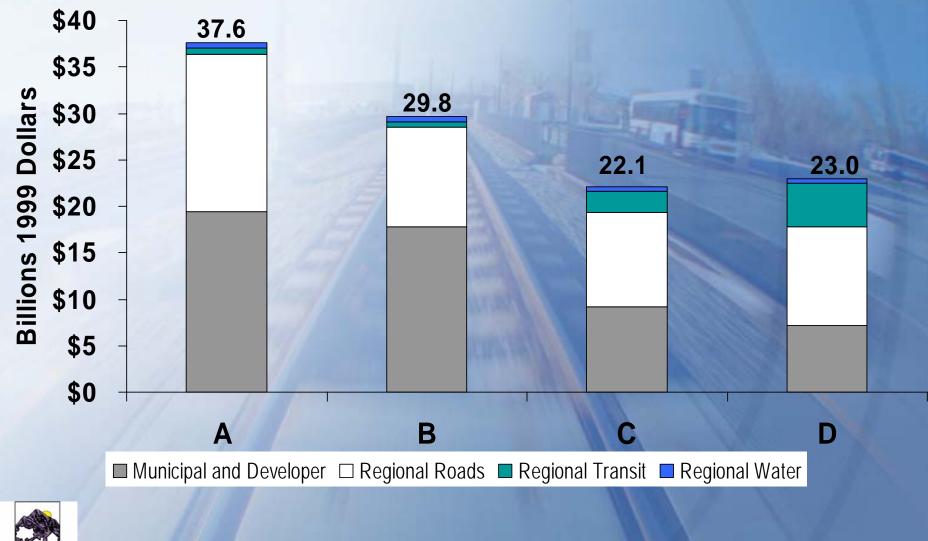
Housing Mix: Current and 2020

UTA 🌐

1////



Total Infrastructure Costs



ENVISION UTAH

PUBLIC **AWARENESS EFFORTS**

Television, Radio and Newspaper



Let's start today creating more regional public transportation choices

that will help maintain quality of life for us, our children and grandchildren

More Choices for people from every walk of life

hile most of us will continue to drive automobiles, the region will benefit from a more convenient and reliable public transportation tem that will give us all more choices and options, more freedom and mobility, and provide more opportunities for people from every walk of life to get to and from work, shopping and recreation. A system can include comsuter rail, light rail, lower cost self-powered rail, private vans and buses, and more bus routes with more frequent service. Your locally elected officials have developed a long-term region-wide plan to create a balanced public transportation system that will accommodate residents throughout the Greater tch Area, but additional funds and citizen involvement will be nee

Opportunities will be lost Investing Inday and expenses will go up if we fail to move forward saves money A region-wide public tri A region-wide public trans-portation system is a key Envisio Utah strategy, which as part of a package of strategies, can help preserve our quality of life and can save the region 4-(5 billion dollars over the next to years, as now

Envision Utah's Quality Growth

With the addition of another mil lion people by 2020, land will become more scarce and places to build new more searce and pakes to build in roads or rights of way for public transportation will become more expensive and difficult to find. ing the capacity of rail transit is more cust effective and uses

less land than adding addition al lanes to our roads and high-

soortation se em can help take the ore itical lands we may

ways. Developing a region

wide public tra



ity of life

The benefits go beyond trans-portation choices. Developments for housing, shopping, work, recreation and cultural amenities can economically and aesthetical-ly enhance key sites adjacent to public transportation routes. Communities that provide con-vectors and reliable public transportation exhibit a vitality that gives them a competitive edge in capturing economic development and in attracting and retaining businesses and workers. businesses and workers. A region-wile public trans-portation system also benefits non-riders by reducing the increase of congestion and time spent in traffic, resulting in mon-time to spend with family and friends. In addition, it helps reduce mobile emissions release reduce mobile emissions released, which will help keep Utah's air It's up to you



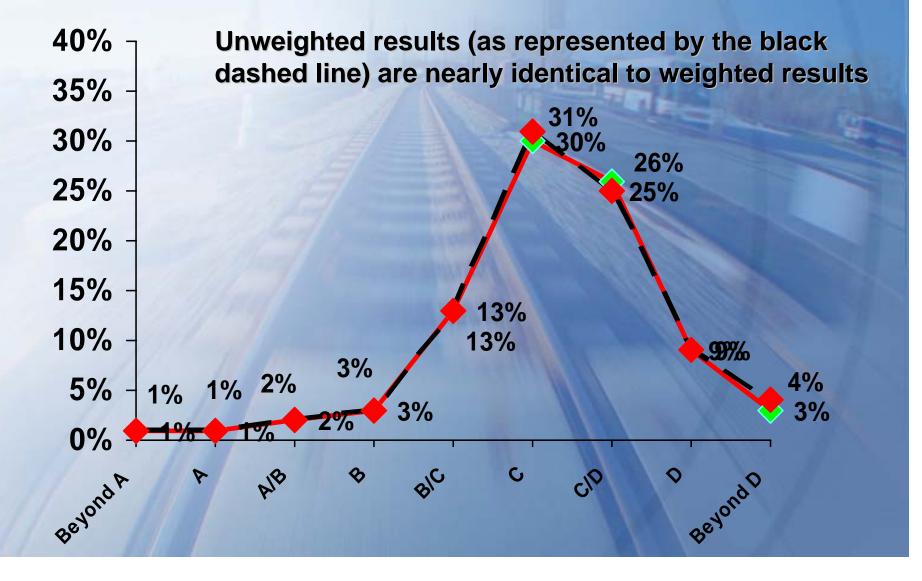


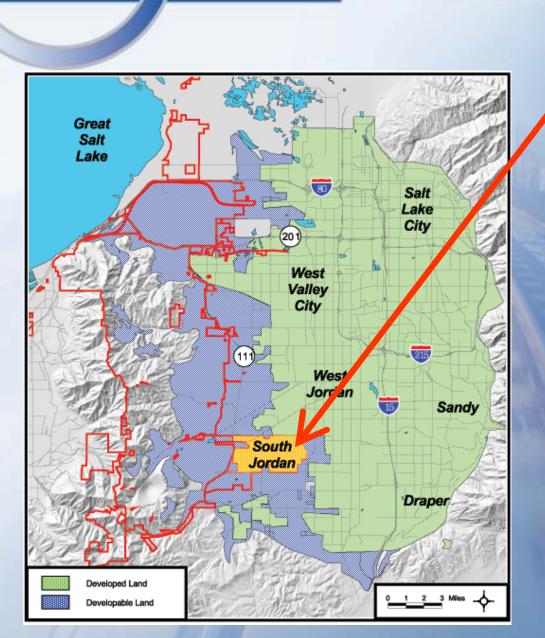


Envision Utah Keeping Utah beautiful, prosperous and neighborly for future generations

Choosing a Scenario (Weighted vs. Unweighted Results)

//// UTA 😂





11111

Daybreak

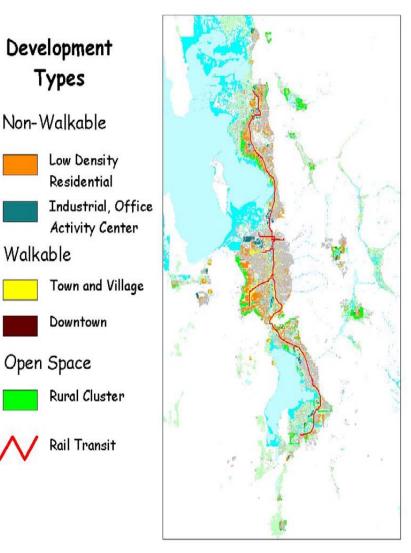




Quality Growth Strategy Six Goals, 42 Strategies

//// UTA \$\$

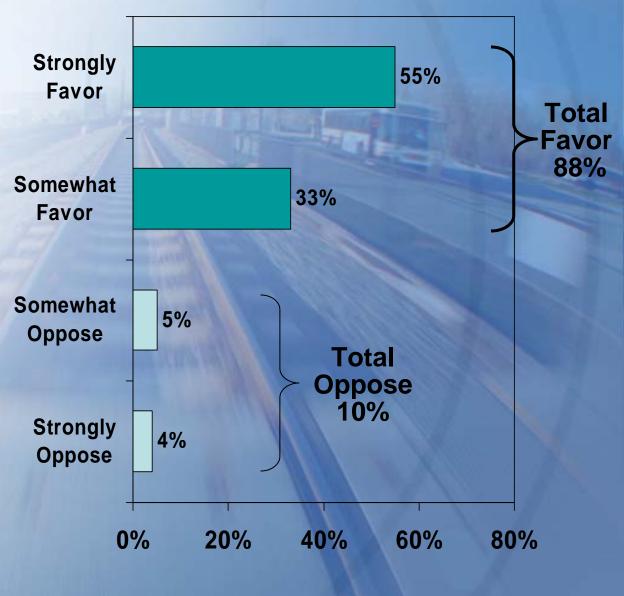
- Enhance Air Quality
- Increase Transportation Choices
- Preserve Critical Lands
- Conserve Water Resources
- Provide Housing Opportunities
- Maximize Efficiency in Public Investments



Utah's Public Transportation

//// UTA 😂

Do you favor or oppose the EXPANSION of light rail, often referred to as TRAX, and other public transportation systems?



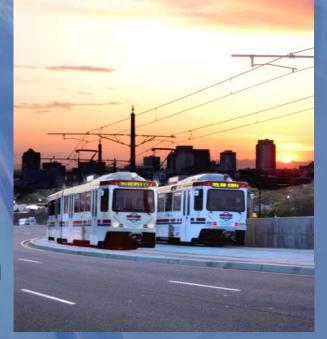
The Long Range Plan is an Integrated Road and Transit Plan

A Complete Mobility System



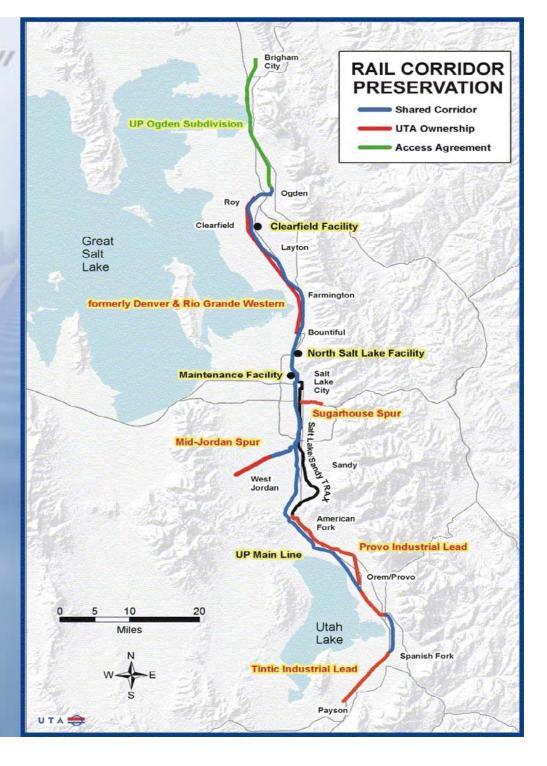
Need Both

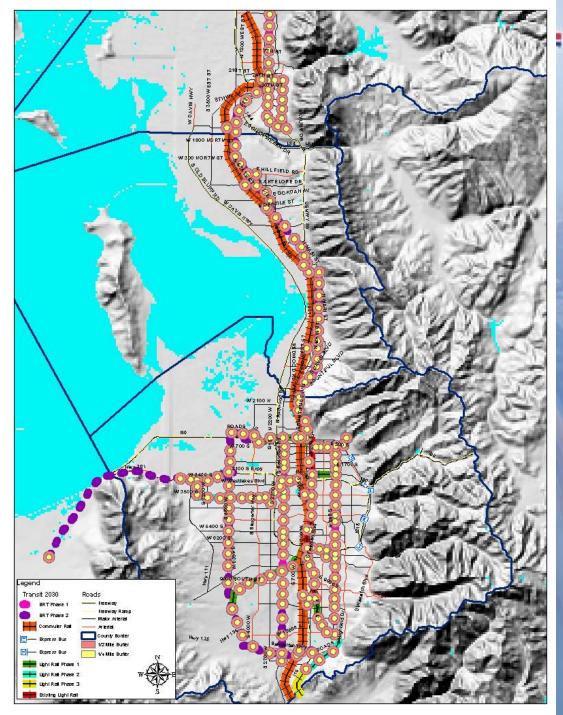
We



Future Transit

- \$185 million acquisition
- Purchased <u>175</u> <u>miles</u> of rail right-of-way
- Created nine future transit corridors





Estimated Statistics between Salt Lake, Davis and Weber Counties:

Acres within ¹/₂ mile of transit nodes:

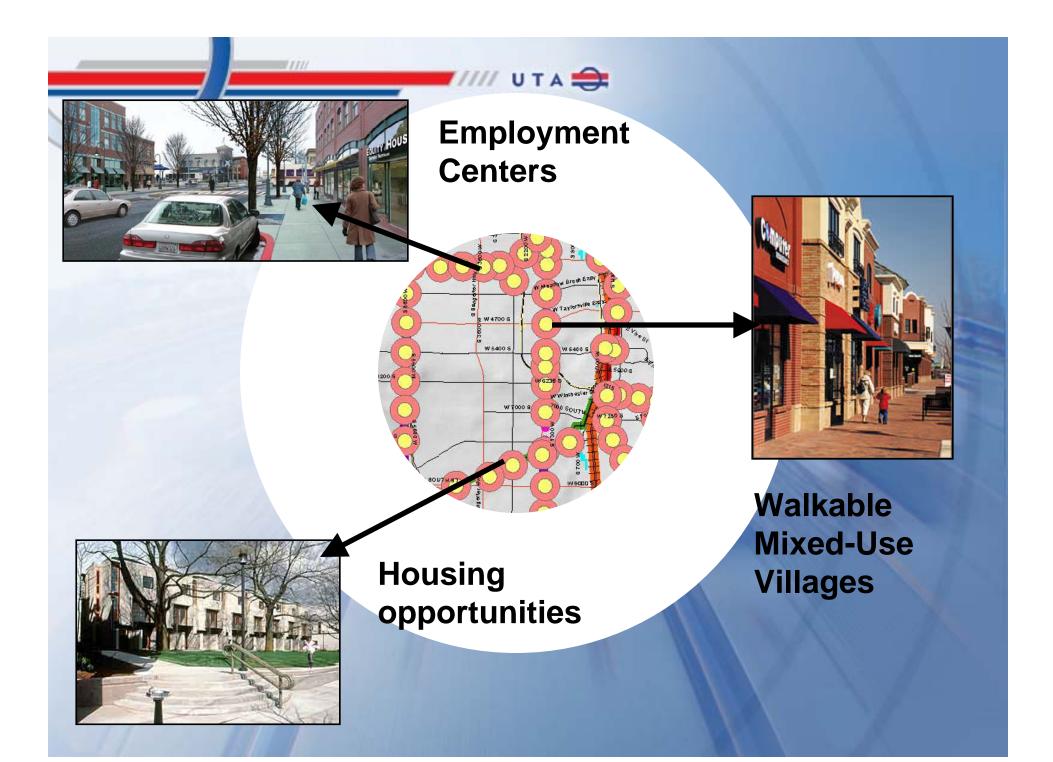
80,000

Housing units within ½ mile transit nodes @ 8 DU/acre on half of the acres:

320,000 units

Population estimate @ 3 persons per household: 960,000

80,000 Acres = 125 Square Miles



1111

Communicating a Vision to the Public

//// U T A 😂

Public Transportation Maintains Affordability

Convenient transit

Lower transportation costs

Less need to "drive until you qualify"



City Growth on New Land

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11 square miles of development per year



The earlier we build the public transportation system, the greater the benefits on the future quality of our lives.

📕 //// UTA 🚔

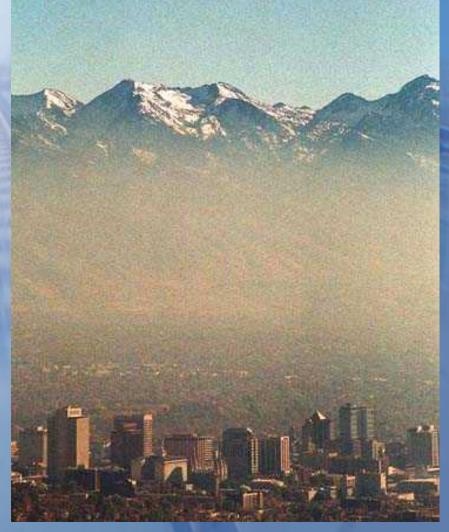
Transit Moves the Most People When Roads Need the Most Relief

Light Rail in rush hour currently carries equivalent of one interstate lane of traffic



Air Pollution

- Air quality affects our health
- Stricter air quality standards could cut off federal road funds
- Violations could limit growth of existing and new businesses



Transit and Economic Growth

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77 percent of new economy companies rated access to mass transit as an extremely important factor in selecting corporate locations (Jones Lang Lasalle).

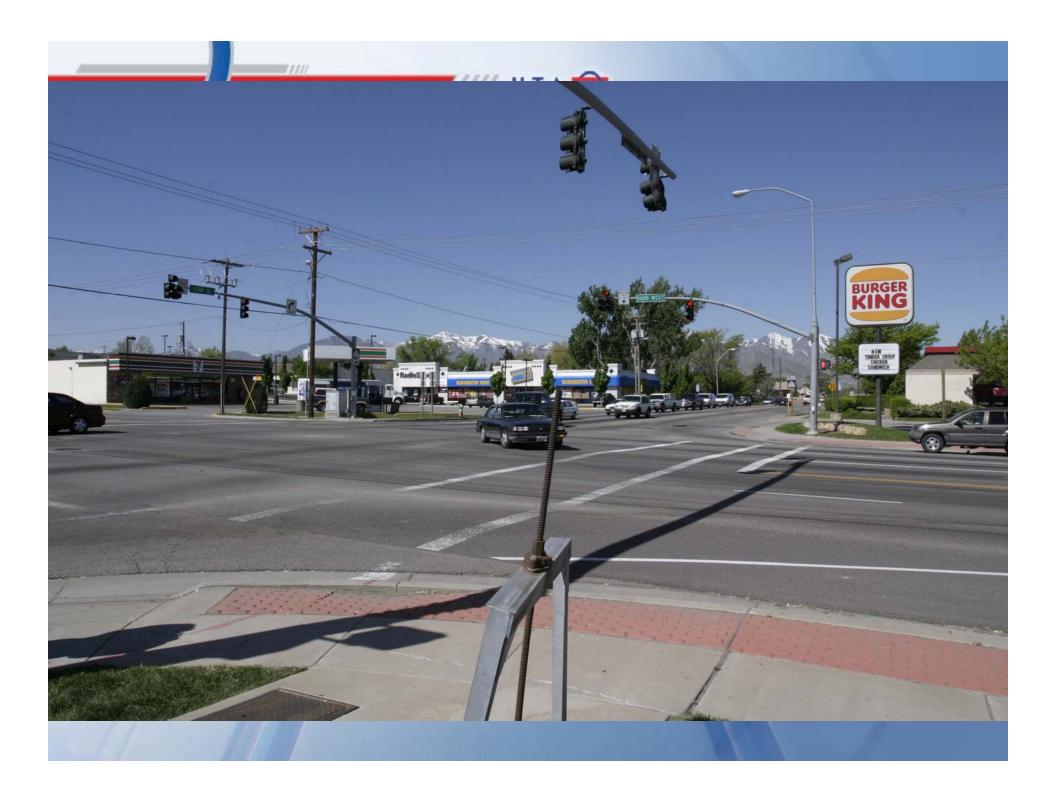
What Kind of Community Do We Want To Be?

//// UTA 🌐

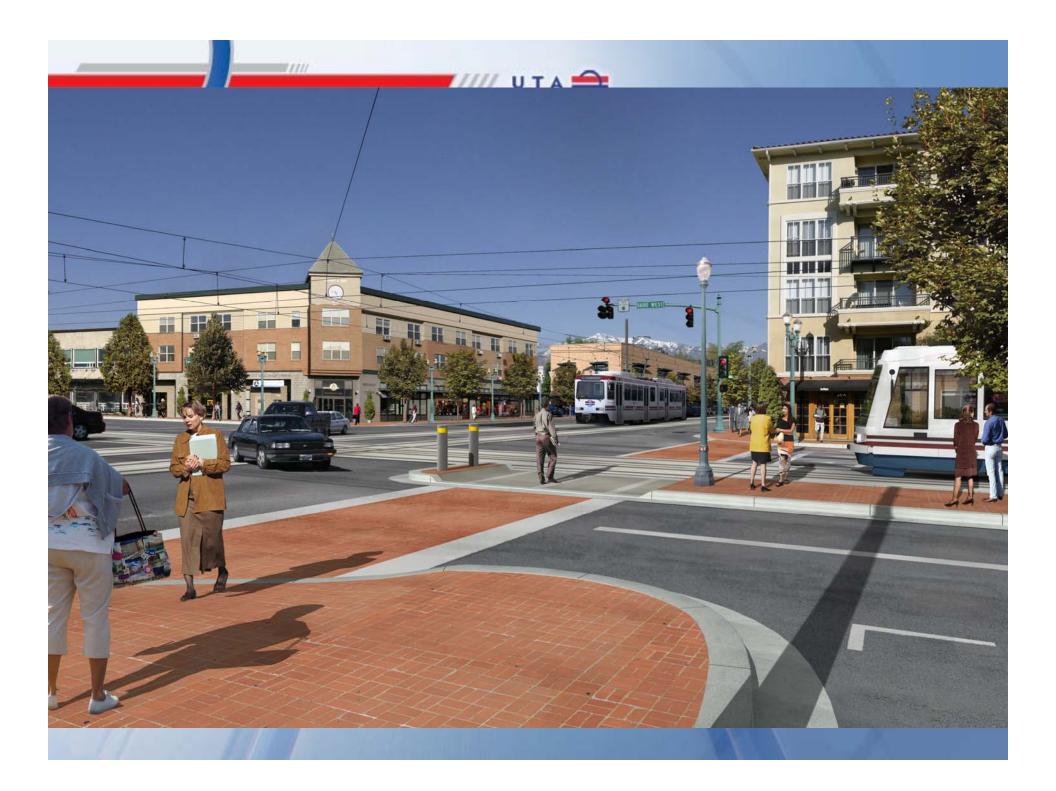
"The true character of a community is best reflected in how they treat the new, the poor, and the disadvantaged among them."

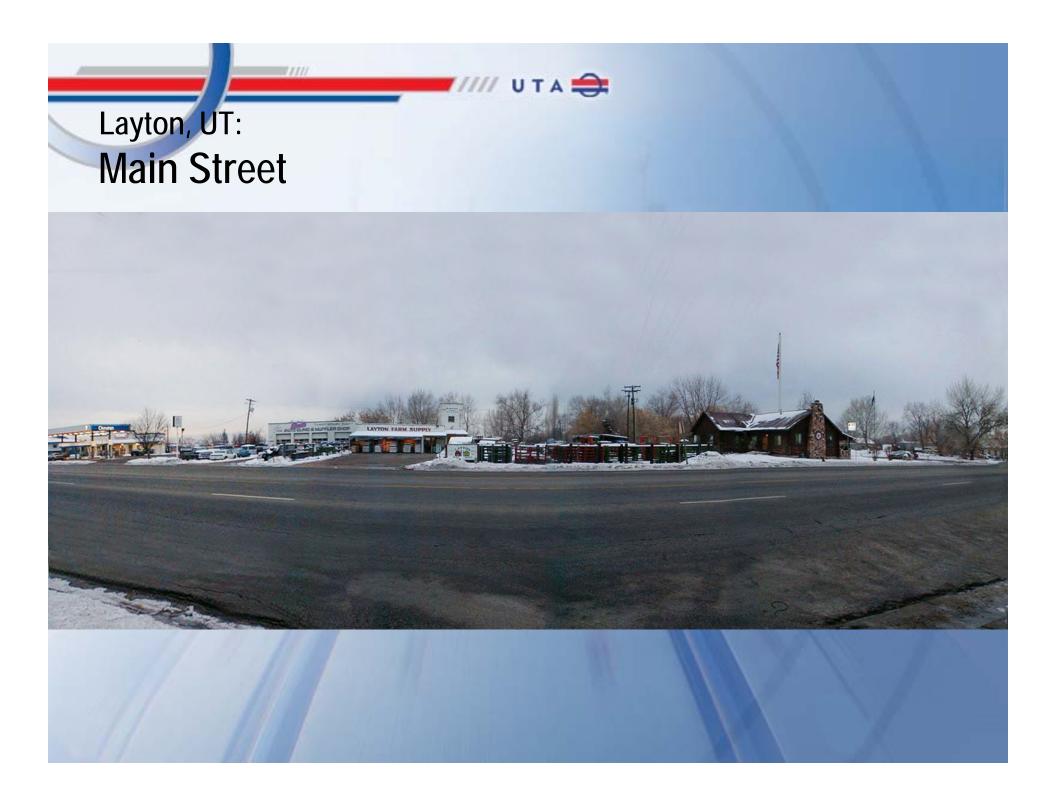
Public Transportation is Vital to Elderly, Disabled, and Poor

- By 2030, 500,000 Utahns will be seniors- many will be unable to drive
- Currently, 175,000 adult Utahns have disabilities -35% unemployed - due in part to lack of public transportation
- 94% of welfare recipients nationally do not own cars





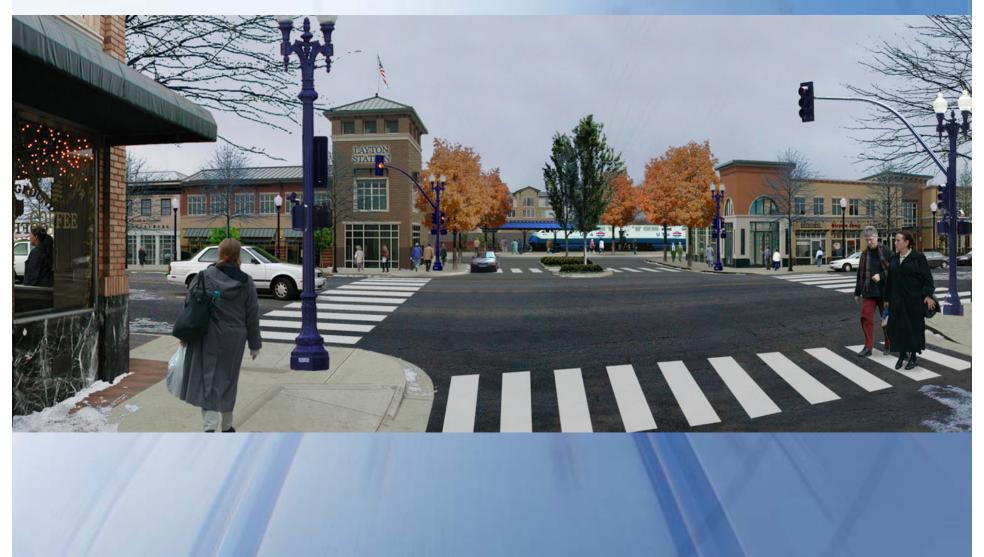


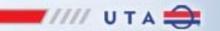












Transit Increases Capacity in Corridors



Plans For The Future

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- Bus Improvements
- Bus Rapid Transit (BRT)
 - 3500 South
 - 1300 East
 - Redwood Rd.
 - Tooele
 - South Davis
 - Washington Blvd.
 - Ogden/Layton
 - Ogden/WSU
 - Utah County
- Commuter Rail South

- Light Rail Extensions
 - Airport
 - Draper
 - Mid-Jordan
 - Sugarhouse
 - Daybreak
 - West Valley
- Transit Ways
 - East Bench
 - Mountain View Corridor
 - Ogden
 - South Davis
 - Sugarhouse

Current Projects

Commuter Rail: FrontRunner

- First phase: Weber County to Salt Lake City
- 44-miles
- Eight stations
- Construction now 40% complete
- Open for service in 2008



FrontRunner Farmington Station



Future Success

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UTA

Partnerships

UTA needs community help in planning for the future and creating tomorrow's transportation legacy

- New business model
- Integration of bus and rail

• Transit Friendly Land Use

Local government's land use is critical to creating a successful transit system

Pedestrian Friendly Environments

The Benefits Of Transit

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Infrastructure Savings

- Transit invites re-use of buildings and land
- Decreases the need for new infrastructure
- Brings housing closer to jobs
- Keeps employment centers near neighborhoods

Other Community Benefits

- Improved mobility for everyone, including seniors, people with disabilities, etc.
- Health and air quality benefits

