

The scenario approach

Also called contingency planning

Plausible Future Options

Develop a range of scenarios

Base

A

B

C

Scenarios are Crash Test Dummies

POWERFUL ANALYTICAL TOOLS

Public Domain and Open Source

envision tomorrow™
a suite of urban and regional planning tools

Scenario Building Process

Building Types

Development Types

Scenario Development

Evaluation

1

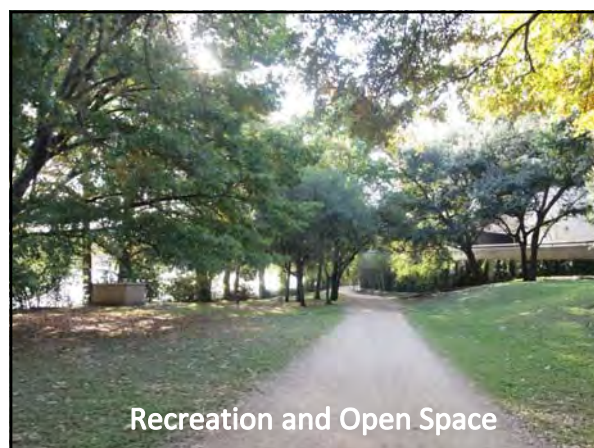
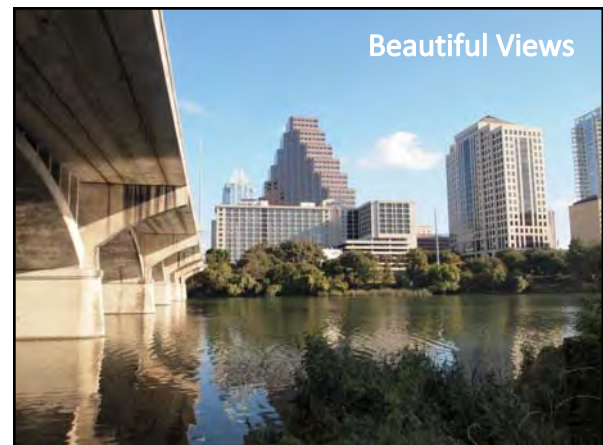
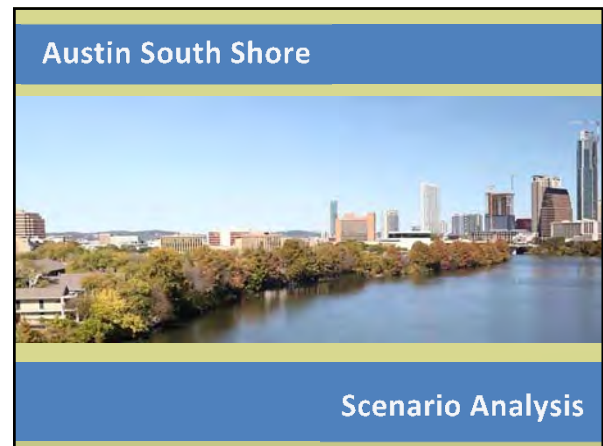
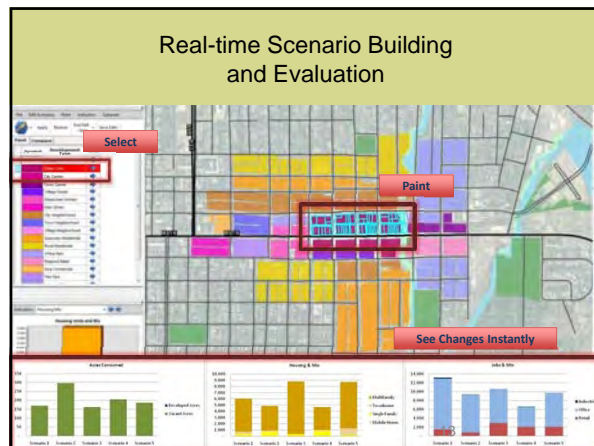
Step 1: Model a library of building types that are financially feasible at the local level.

11

Model Prototypes Using Real Market Research: Allows for "Reality-based Visualizations"

Use Prototypes for Reality-based Visualizations and 3D Modeling

12



Access to Downtown

- 75%+ of the region's employment is within 20 minutes of South Shore
- Employment/Destination Access is most influential variable on VMT
 - 4x as powerful as housing density

Downtown

South Shore

Community Plans and Goals



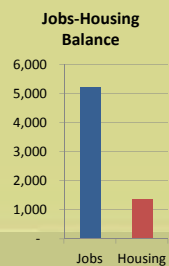
Many Community Goals have no certain implementable plan

- Access to lake and open space
- Affordable housing
- Environmental performance
- Green infrastructure
- Walkability and bikeability
- Fiscal balance



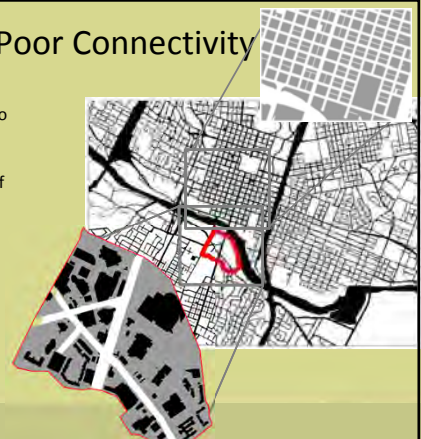
Auto-oriented Jobs Center

- Jobs to Housing Ratio: 3.5

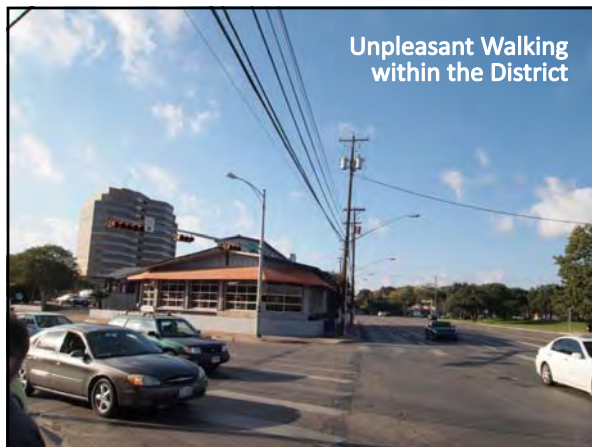


Poor Connectivity

- Close access to downtown
- Intersection of 3 major arterials
- Low street connectivity
- Large block sizes



Unpleasant Walking within the District



Access to Lake is Unclear and Informal



Current Market Research Informed Buildings Used in Modeling

UNIT MIX									
Type	Units	Size	Count	Count	Count	Count	Count	Count	Count
1-B	100	1,000	100	100	100	100	100	100	100
2-B	100	1,000	100	100	100	100	100	100	100
3-B	100	1,000	100	100	100	100	100	100	100
4-B	100	1,000	100	100	100	100	100	100	100
5-B	100	1,000	100	100	100	100	100	100	100
6-B	100	1,000	100	100	100	100	100	100	100
7-B	100	1,000	100	100	100	100	100	100	100
8-B	100	1,000	100	100	100	100	100	100	100
9-B	100	1,000	100	100	100	100	100	100	100
10-B	100	1,000	100	100	100	100	100	100	100
11-B	100	1,000	100	100	100	100	100	100	100
12-B	100	1,000	100	100	100	100	100	100	100
13-B	100	1,000	100	100	100	100	100	100	100
14-B	100	1,000	100	100	100	100	100	100	100
15-B	100	1,000	100	100	100	100	100	100	100
16-B	100	1,000	100	100	100	100	100	100	100
17-B	100	1,000	100	100	100	100	100	100	100
18-B	100	1,000	100	100	100	100	100	100	100
19-B	100	1,000	100	100	100	100	100	100	100
20-B	100	1,000	100	100	100	100	100	100	100
21-B	100	1,000	100	100	100	100	100	100	100
22-B	100	1,000	100	100	100	100	100	100	100
23-B	100	1,000	100	100	100	100	100	100	100
24-B	100	1,000	100	100	100	100	100	100	100
25-B	100	1,000	100	100	100	100	100	100	100
26-B	100	1,000	100	100	100	100	100	100	100
27-B	100	1,000	100	100	100	100	100	100	100
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40-B	100	1,000	100	100	100	100	100	100	100
41-B	100	1,000	100	100	100	100	100	100	100
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69-B	100	1,000	100	100	100	100	100	100	100
70-B	100	1,000	100	100	100	100	100	100	100
71-B	100	1,000	100	100	100	100	100	100	100
72-B	100	1,000	100	100	100	100	100	100	100
73-B	100	1,000	100	100	100	100	100	100	100
74-B	100	1,000	100	100	100	100	100	100	100
75-B	100	1,000	100	100	100	100	100	100	100
76-B	100	1,000	100	100	100	100	100	100	100
77-B	100	1,000	100	100	100	100	100	100	100
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79-B	100	1,000	100	100	100	100	100	100	100
80-B	100	1,000	100	100	100	100	100	100	100
81-B	100	1,000	100	100	100	100	100	100	100
82-B	100	1,000	100	100	100	100	100	100	100
83-B	100	1,000	100	100	100	100	100	100	100
84-B	100	1,000	100	100	100	100	100	100	100
85-B	100	1,000	100	100	100	100	100	100	100
86-B	100	1,000	100	100	100	100	100	100	100
87-B	100	1,000	100	100	100	100	100	100	100
88-B	100	1,000	100	100	100	100	100	100	100
89-B	100	1,000	100	100	100	100	100	100	100
90-B	100	1,000	100	100	100	100	100	100	100
91-B	100	1,000	100	100	100	100	100	100	100
92-B	100	1,000	100	100	100	100	100	100	100
93-B	100	1,000	100	100	100	100	100	100	100
94-B	100	1,000	100	100	100	100	100	100	100
95-B	100	1,000	100	100	100	100	100	100	100
96-B	100	1,000	100	100	100	100	100	100	100
97-B	100	1,000	100	100	100	100	100	100	100
98-B	100	1,000	100	100	100	100	100	100	100
99-B	100	1,000	100	100	100	100	100	100	100
100-B	100	1,000	100	100	100	100	100	100	100



South Shore Potential Rents Make many Development “Pencil”

- Achievable rents among highest in the city
- Comparable to downtown
- Views and proximity to downtown desirable



5-6 story “wrap” - Texas Doughnut A cost effective building type

- Little or no underground parking
- Wrapped housing units around above ground parking structure
- High value density – can afford high land costs
 - \$100 / sq ft



8 story “courtyard” Building mid / high – rise hybrid

- High rise density with lower building costs
 - No need for pressurized stairwells
- \$185 / sq ft in construction costs
- High value density – can afford high land costs
 - \$100 / sq ft



12+ story High Rise

- High rise construction costs requires higher than average rents
- Potentially possible in view areas or on water
- \$250+ / sq ft in construction costs




3 Scenarios Modeled and Tested *Using Envision Tomorrow Plus*

- Scenario 1: Base Zoning Build Out
- Scenario 2: SDAT Build Out
- Scenario 3: UT Studio




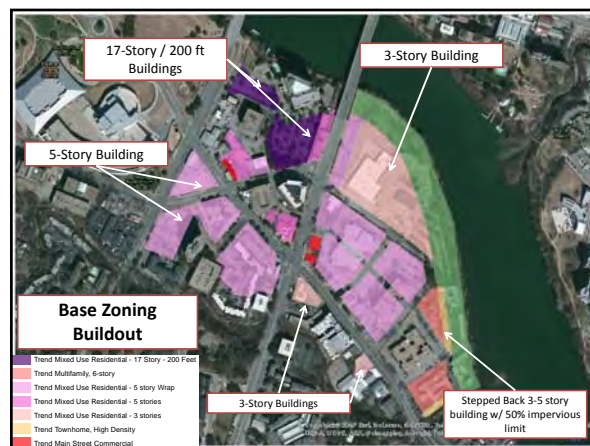
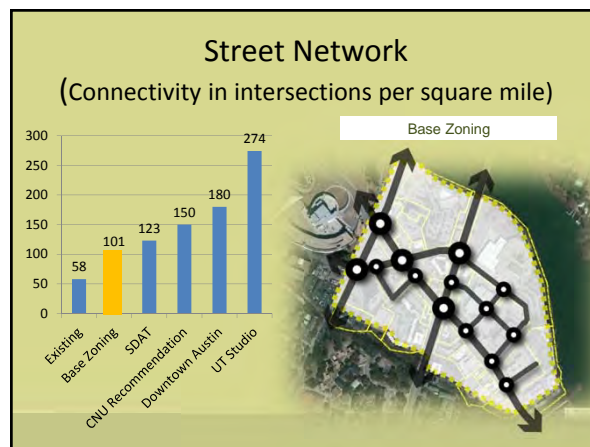
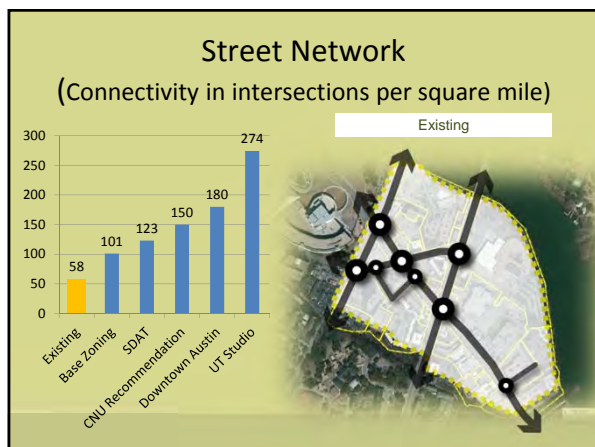
Scenario 1: Base Zoning Residential Build Out

- Most parcels limited to 60 foot height
- Statesman parcel limited by low sq ft allowance



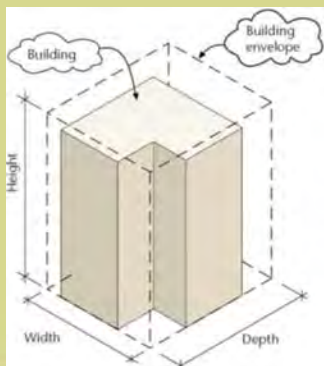
Layers of Complex Regulations

- May not result in the place people want...
- Math rather than Vision**
 - Setbacks
 - FAR
 - Coverage limits
 - Height limits
 - Square footage maximums
- Base Zoning
- Waterfront Overlay
- PUDs (individual parcels)

Building Envelope

- Every lot in Austin has an envelope
- Math and form
- Current zoning does not guarantee quality buildings within the envelope



Base Zoning building envelopes



Base Zoning Buildout

Lake Access is an issue



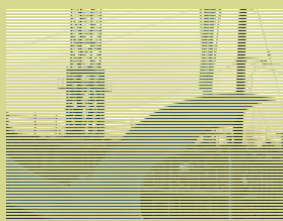
Base Zoning Buildout

Lake Access is Not a Guarantee



New Development is Being Permitted

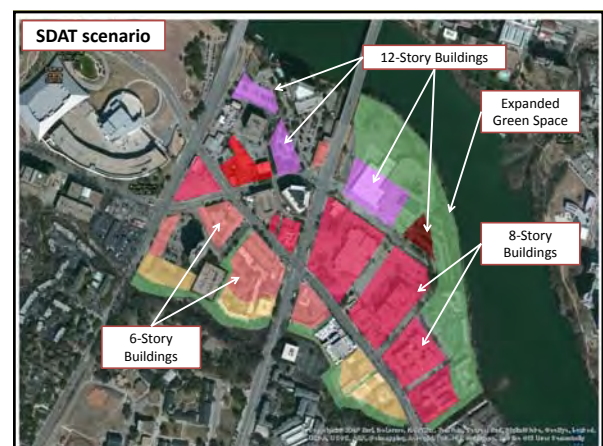
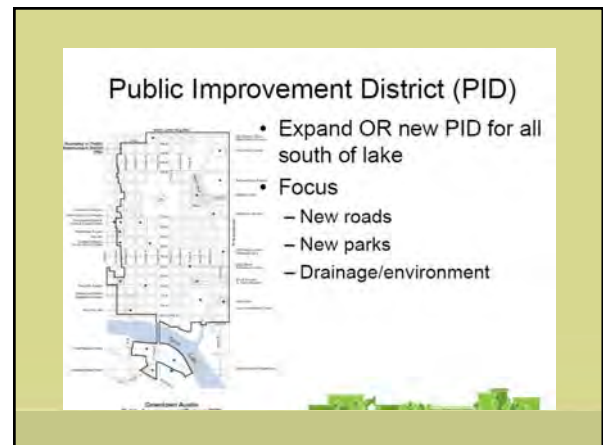
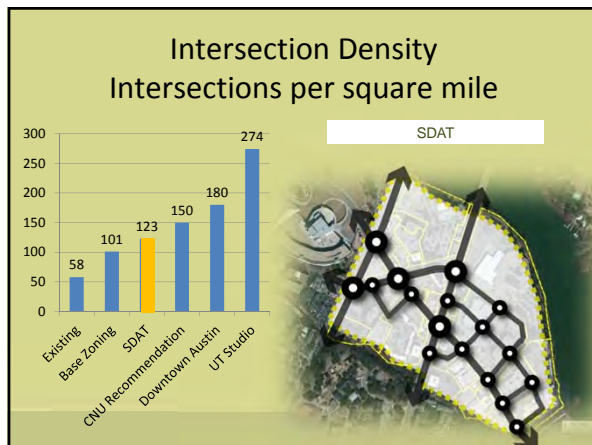
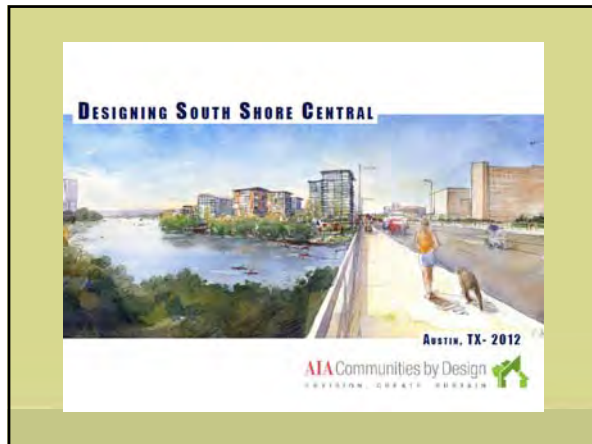
- But *without a cohesive vision*
- The outcomes are uncertain for public and investors



Scenario 2: SDAT Vision

- Unified vision
- Significant open space
- Improved connectivity and linkage to lake





Opportunities Slipping Away

- Recent construction makes untangling the "X" intersection of Barton Spring Road and W Riverside Drive quite difficult.



SDAT building envelopes



SDAT building envelopes



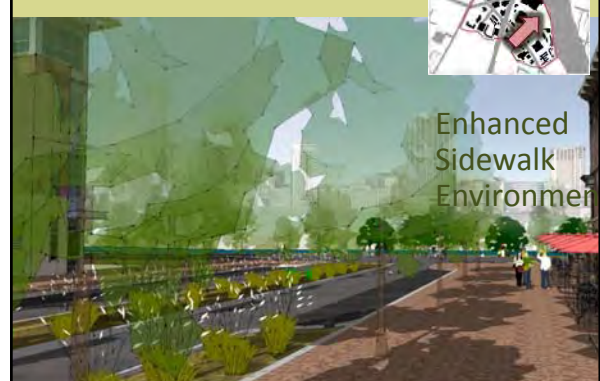
SDAT Vision

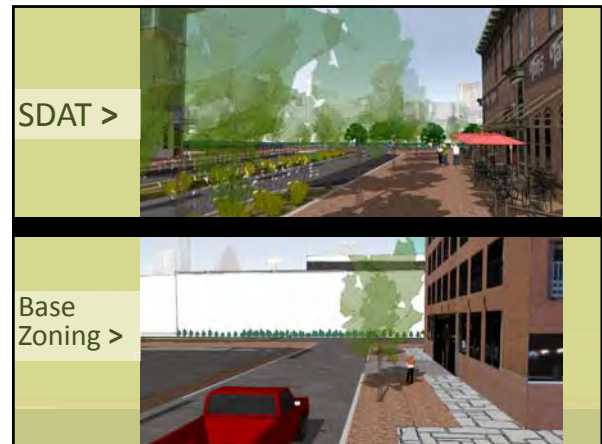
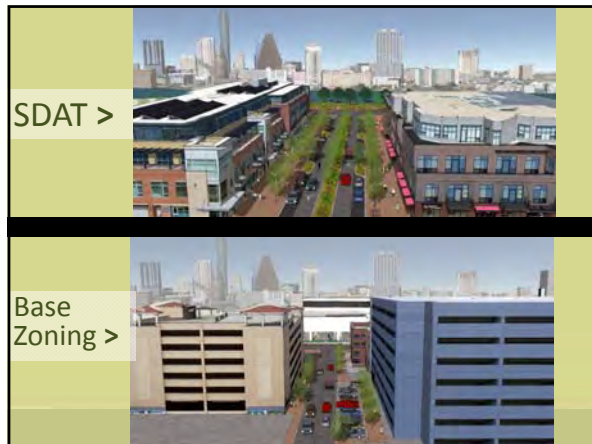


SDAT Vision



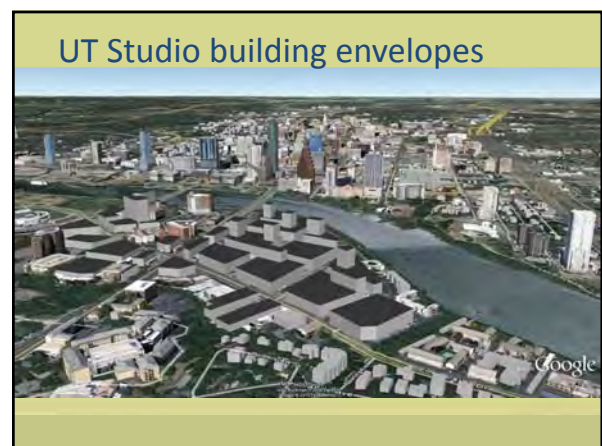
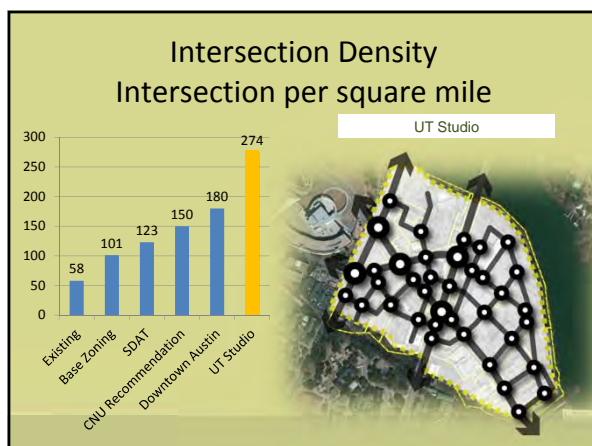
SDAT Vision

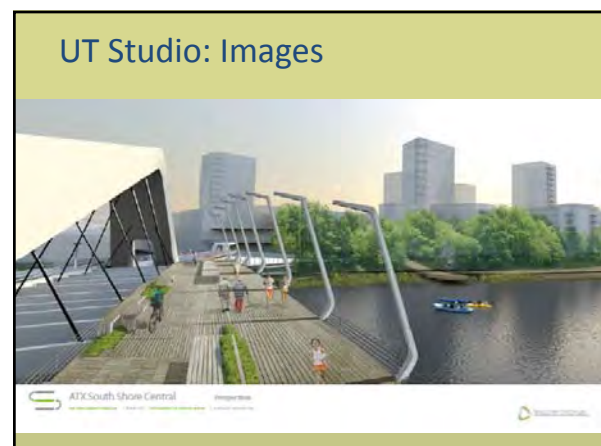
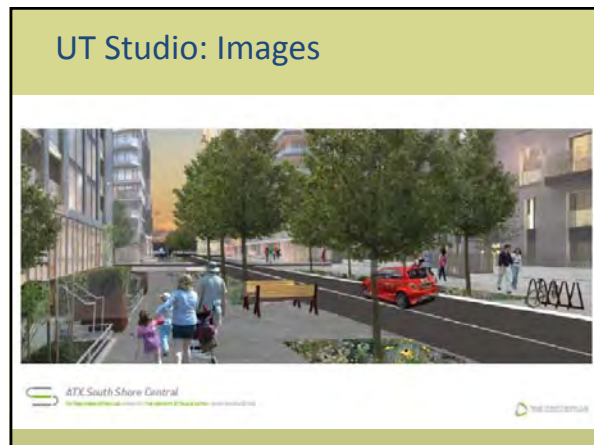
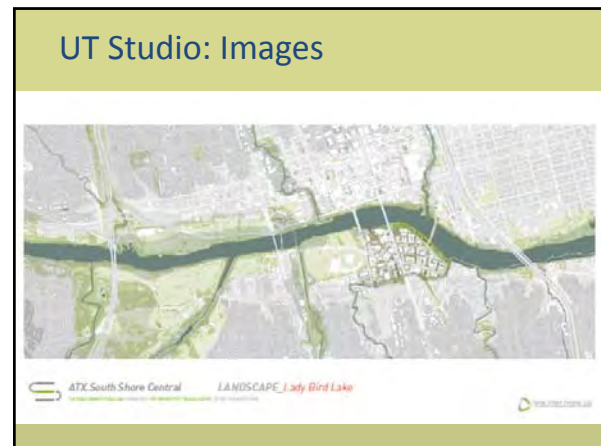




Scenario 3: UT Urban Design Studio

- Broad mix of building types, including point towers
- Larger units, targeted at families
- Same parking standards as SDAT
- Planning for rail
- Affordable units mixed with market rate





UT Studio: Images



UT Studio: Images



Measuring Performance

Envision Tomorrow Scenario
Modeling

Population and Housing

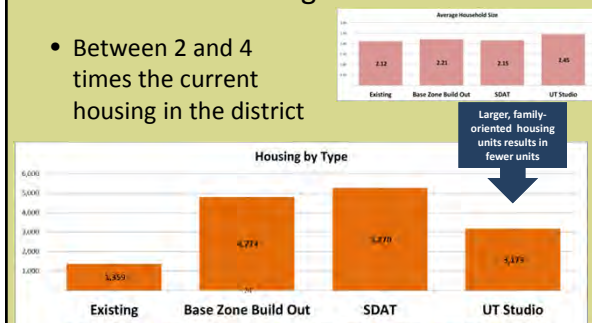
Total Population

- Between 5,000 and 9,000 new residents added to the district



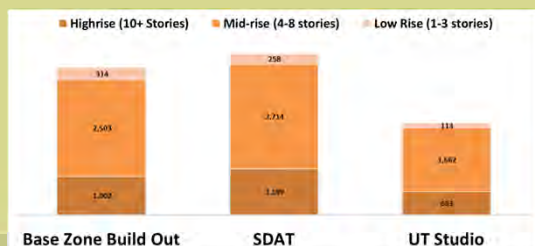
Total Housing Units

- Between 2 and 4 times the current housing in the district



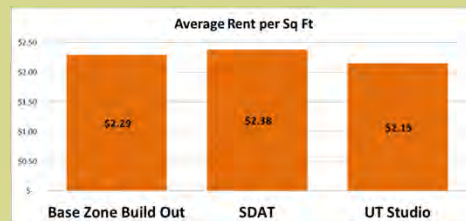
New Housing Units By Type

- Mid-rise is the predominant building type in each scenario



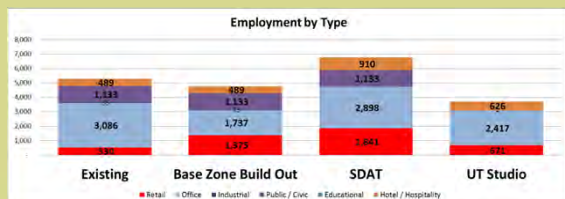
Average Rent for New Units

- All scenarios are within market range for rent
— Range \$2.00-2.35 per sq ft



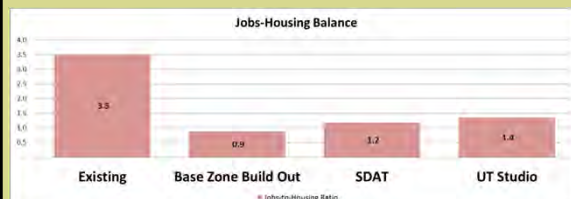
Employment Mix

- SDAT expands employment
- Other scenarios lose employment



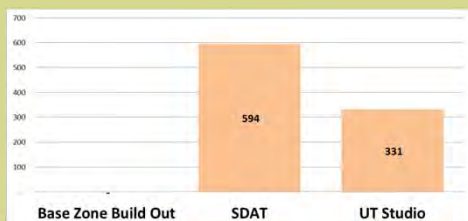
Jobs Housing Balance *Trading Jobs for Housing*

- SDAT and UT Studio achieve balance
- Jobs-Housing balance improves transportation indicators
- Regional J-H Balance: 1.33 jobs per household

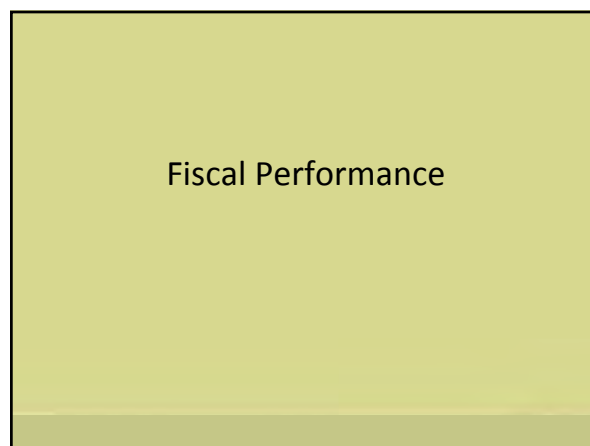
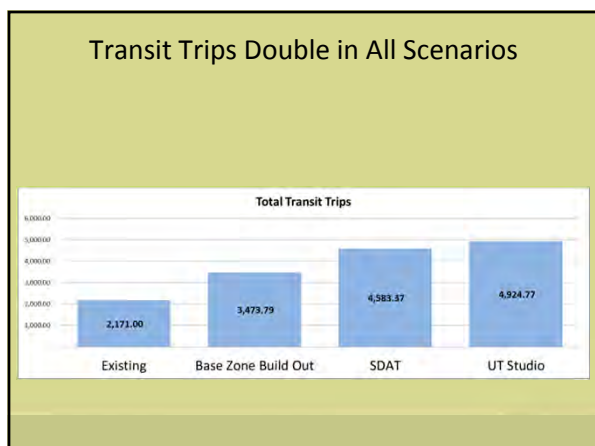
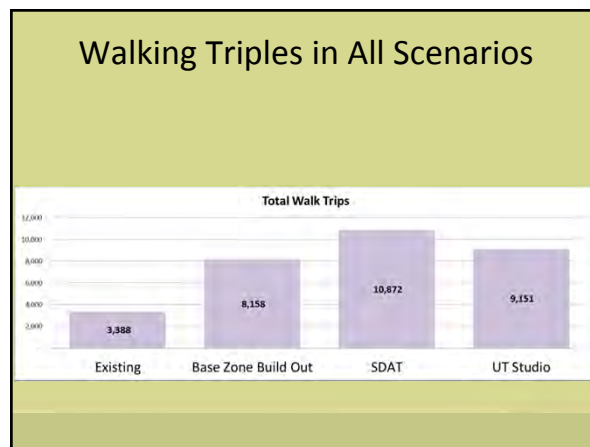
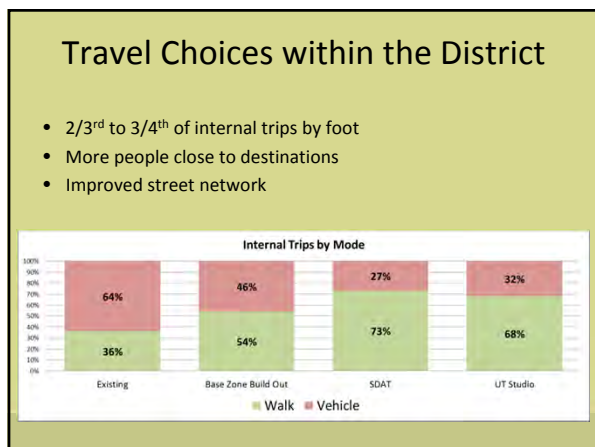
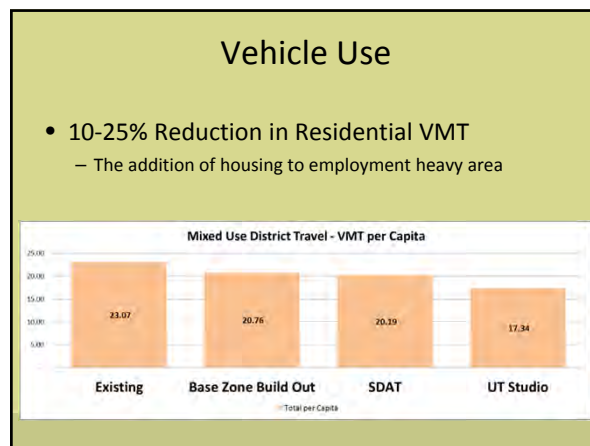
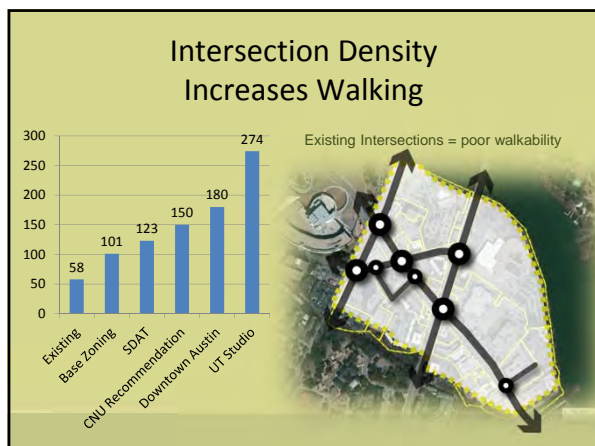


New Affordable Units

- SDAT: 14% of all units
- UT Studio: 15% of all units



Transportation Indicators



New Building Value

- \$1-2 billion in new building value



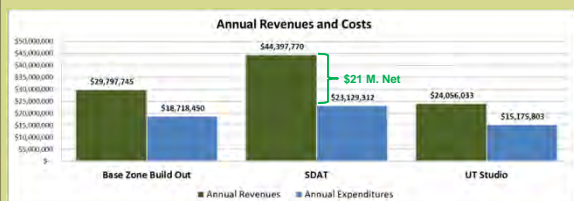
Tax Increment Financing (TIF)

- For critical infrastructure- e.g.:
 - Structured parking
 - Roads
 - Open space
 - Affordable Housing



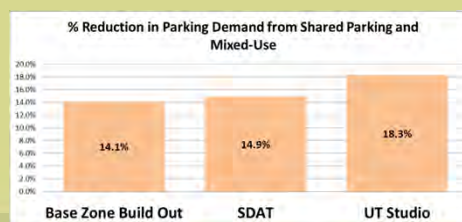
Revenues vs. Expenditures COA and AISD

- SDAT includes significantly more non-residential development which generates revenue at lower costs



Shared Parking Opportunity

- Increases in walking combined with mixing uses presents an opportunity for shared parking

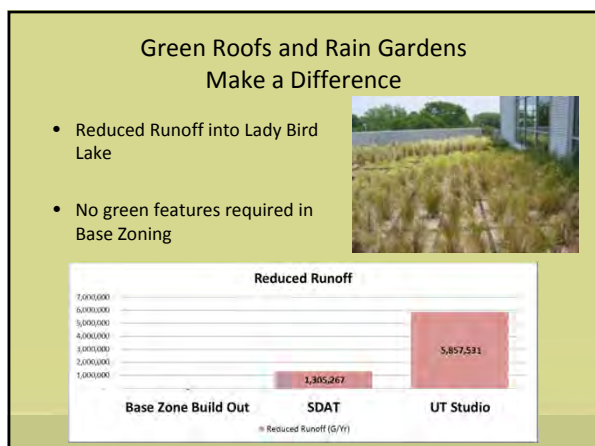
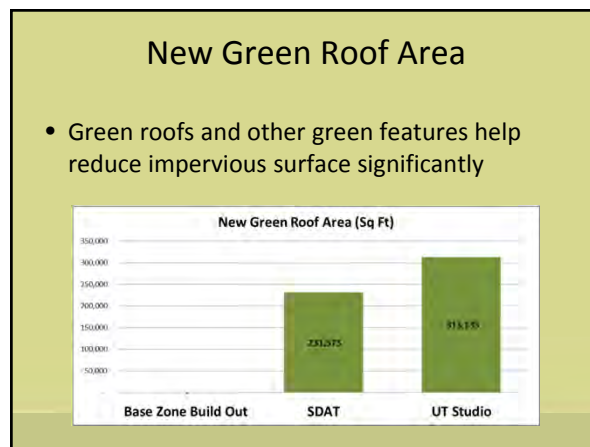
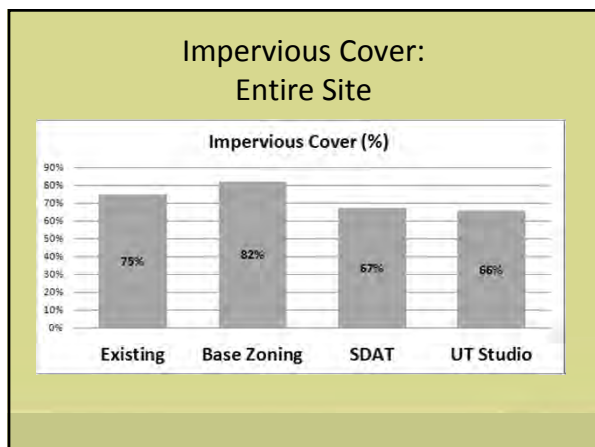
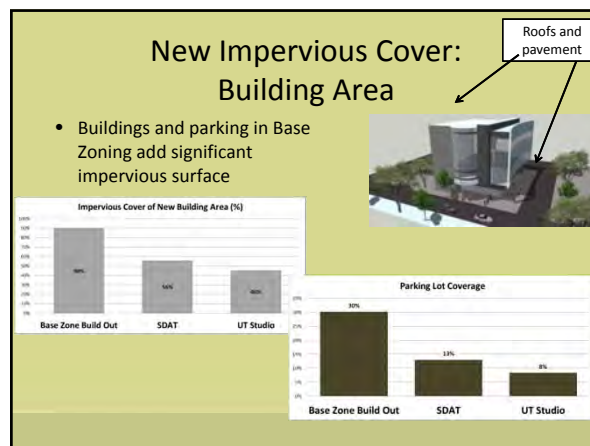
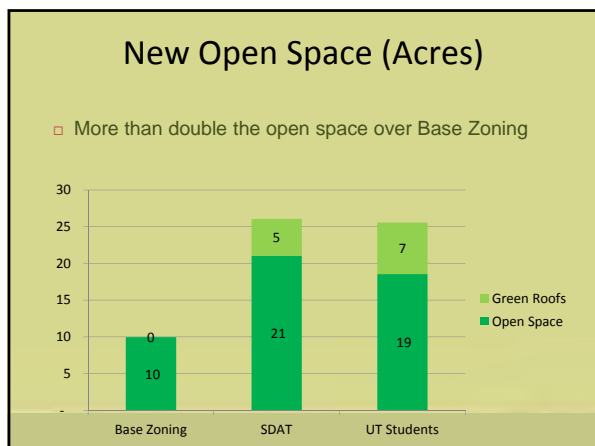


Net Annual Revenue for COA and AISD

- By including a good mix of non-residential (office and retail) in the area, the SDAT scenario achieves higher revenue
- Residential uses have higher service costs compared to non-residential uses



Open Space and Green Infrastructure



What's Next?

The Magic of Waterfronts
Examples from Elsewhere

Portland, Oregon

Industrial waterfront – forty years ago



Portland, Oregon



Then



Now

Portland, Oregon



Portland, Oregon



Before

Williams & Dame Development, Inc.

www.wddcorp.com

Portland State University and Downtown



Innovative Transportation



Build Out



Williams & Dame Development, Inc.

www.wddcorp.com

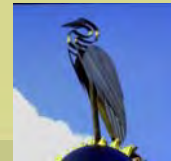
Preserves significant natural areas



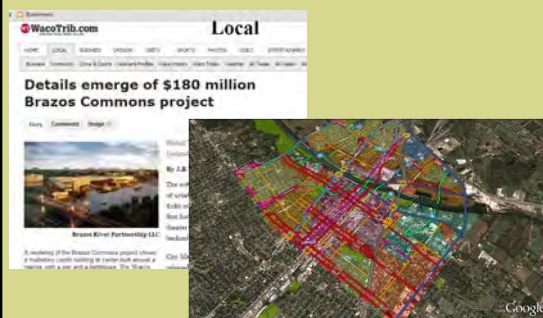
Interaction with nature



Adopt icons as highly visible public benchmarks for measuring the success of protection and restoration efforts.



Waco Moves Ahead



Now, Austin's time to plan for a great waterfront!