2 weTable Case Studies Using communityviz®

Communities in Motion Regional Scenario Planning &
Boston Redevelopment Designs
COMMUNITIES IN MOTION 2040
Project Overview

- 1 year process
- Guided by public participation
- 3 Brainstorming workshops
- Public feedback through website, open houses, meetings-in-a-bag
- Refined through local realities
- Recommendation of preferred growth scenario
Scenario Planning

- Scenario A
- Trend
- Scenario B
- Workshop
- Scenario 1
- Scenario 2
- Scenario 3
- Scenario 4
- Workshop
- Preferred Scenario
- RTP
Workshops

- 3 days, 3 locations
- Provided 4 starting points:
  - Baseline 581,288
  - Trend 1,022,000
  - Community Choices 1,022,000
  - Transit-oriented Development/ Increased Transit and Trails 1,022,000
Scenarios

- Housing

Total 2040 Housing Density

Low  | High
<table>
<thead>
<tr>
<th>Scenario Indicator</th>
<th>Trend</th>
<th>Community Choices</th>
<th>Transit, Trails, and TODs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jobs housing balance</td>
<td>⬜</td>
<td>⬜</td>
<td>⬜</td>
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<tr>
<td>New multifamily housing</td>
<td>⬜</td>
<td>⬜</td>
<td>⬜</td>
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<tr>
<td>Average use mix</td>
<td>⬜</td>
<td>⬜</td>
<td>⬜</td>
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<tr>
<td>Low road maintenance costs</td>
<td>⬜</td>
<td>⬜</td>
<td>⬜</td>
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<tr>
<td>Population near major destinations</td>
<td>⬜</td>
<td>⬜</td>
<td>⬜</td>
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<tr>
<td>Minimize houses in environmentally sensitive areas</td>
<td>⬜</td>
<td>⬜</td>
<td>⬜</td>
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<tr>
<td>Preserve agricultural land</td>
<td>⬜</td>
<td>⬜</td>
<td>⬜</td>
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<tr>
<td>Low water/sewer infrastructure costs</td>
<td>⬜</td>
<td>⬜</td>
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</tbody>
</table>

- Minimal
- Somewhat
- Promoted
Workshop Exercises

- Growth Scenarios
- Choices and Impacts
- Priorities
Distribute Growth to Map Areas
Distribute Growth to Map Areas
Placetypes

- Designed for large areas
- No restrictions on locations
- Only limited by land constraints pre-calculated
- Some can be applied as redevelopment
What do the paints know?

- Homes: multifamily and single family
- Jobs: retail, office and other
- Persons per household
- Needed new road miles
- New car travel trips
- Water use rates
- Wastewater generation rates
- Solid waste generation rates
What do map areas know?
Transportation Choices

![Transportation Chart and Map]

- **Transportation Chart**
  - 2040 Road Costs
  - Mileage Costs
    - Existing Maintenance
    - Minor Capital Improvements
    - New Maintenance
    - CIP 2035 Funded Projects
    - Major Project

- **Map**
  - Transportation routes
  - Urban areas
  - Rural areas

- **Assumptions**
  - Scenario: Active (Base Scenario)
  - Major Road Choice:
    - Both Major Road Projects
    - Southern Anacostia Roadway
    - Highway 16 Road Extension
    - None

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*Presentation slide showing transportation choices and related data.*
Priorities: Topics

14.) What 2 topics are most important to you? (Vote twice, in priority order)
Takeaways: Workshop Attendance

• Success in recruiting over 170 knowledgeable participants with a range of interests and perspectives
• Canyon County (especially rural areas) was somewhat underrepresented, so we paid extra attention to their input
• Venues were a good proxy for local perspective
• These were professionals: we asked the general public for input next
  – Extra effort to involve Canyon County residents
  – Extra effort to involve young newcomers
Evaluations

Were the interactive mapping exercises useful?

Was there enough time?
Transportation Projects

- Boise and Meridian preferences were explicitly captured
- Nampa preferences captured on flip charts if at all
- State Highway 16 was strongly preferred over the Southern Arterial
- Transit project preferences were about equally distributed

<table>
<thead>
<tr>
<th>Road Projects</th>
<th>Nampa Workshop</th>
<th>Boise Workshop</th>
<th>Meridian Workshop</th>
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<tr>
<td>Southern Arterial Route</td>
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<td>State Highway 16 (SH 16)</td>
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<td>State Street/Highway 44 High Capacity Transit</td>
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<tr>
<td>Valley Connect Transit Plan</td>
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<tr>
<td>High Capacity Transit (EW Route)</td>
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</table>
Where to Change: Summary

Count of Tables with No Change Suggested

Green: “Leave as is”

Red: “Develop or redevelop”
Where to Change: Combined

Count of Tables with No Change Suggested

Green: “Leave as is”

Red: “Develop or redevelop”

54 features were recommended for change by all 27 tables
Lessons Learned

- Technology learning curve is very fast
- Preparation is key
- Local volunteers were critical to process
- Keep exercises simple
- Have a back-up plan
- Capture feedback and information in a variety of formats
- People always want more time
BOSTON SITE REDEVELOPMENT
Boston Site Redevelopment

- NSF Educational Grant – Boston College
- STEM curriculum
- Using local redevelopment projects to engage at-risk high school students
communityviz®

Park

Pedestrian Mall

Residential
Sketch Ready Analysis
Goals and Indicators

- Building Square Feet
- Number Residential Units
- Available Parking Area
- Impervious Surface
- Trip Generation
- Emissions
- Energy Use
- Water Consumption
- Population
- Employees
- Taxes
- Jobs to Housing Ratio
3D Visualization
Hypothesis:

weTable would be ideal interface for site planning in a charrette environment.

Test Case:

*Workshop at the 2013 Geodesign Summit in Redlands, CA.*
weTable Exercises: 3 Stages

1. Site exploration
2. Conceptual Sketching
3. Design and Analysis
Site Exploration

- Open Space
- Services & Amenities
- Transportation
- Businesses
- Existing Land Use
- Social Vulnerability
- Demographics
- Neighborhood

Open Space

- 2.12 miles of converted rail to bike/walk trails in neighborhood
- 811.81 Acres of Park Space in Neighborhood
- 29.7 Acres of Park per 1,000 people

811.81 Acres of Park Space in Neighborhood
Project Site

- Open Space
- Services & Amenities
- Demographics
- Businesses
- Neighborhood
- Transportation
- Social Vulnerability
- Existing Land Use
2.12 miles of converted rail to bike/walk trails in neighborhood

811.81 Acres of Park Space in Neighborhood

29.7 Acres of Park per 1,000 people
Conceptual Sketching
Design and Analysis
Visualization
Lessons Learned

• Much more time is needed
• Real charrette – build design choices (sketch styles) as part of process
• Be flexible and responsive to different pacing for different people
• 2 facilitators per table
• Plenty of pens
QUESTIONS