

PANEL 5: FORM BASED REGIONAL PLANNING &
COMMUNITY COLLABORATION

Technology for Planning Places

Doug Walker – President, Placeways LLC



California State University
MONTEREY BAY
Extraordinary Opportunity





Making a world of better places

Doug Walker
doug@placeways.com

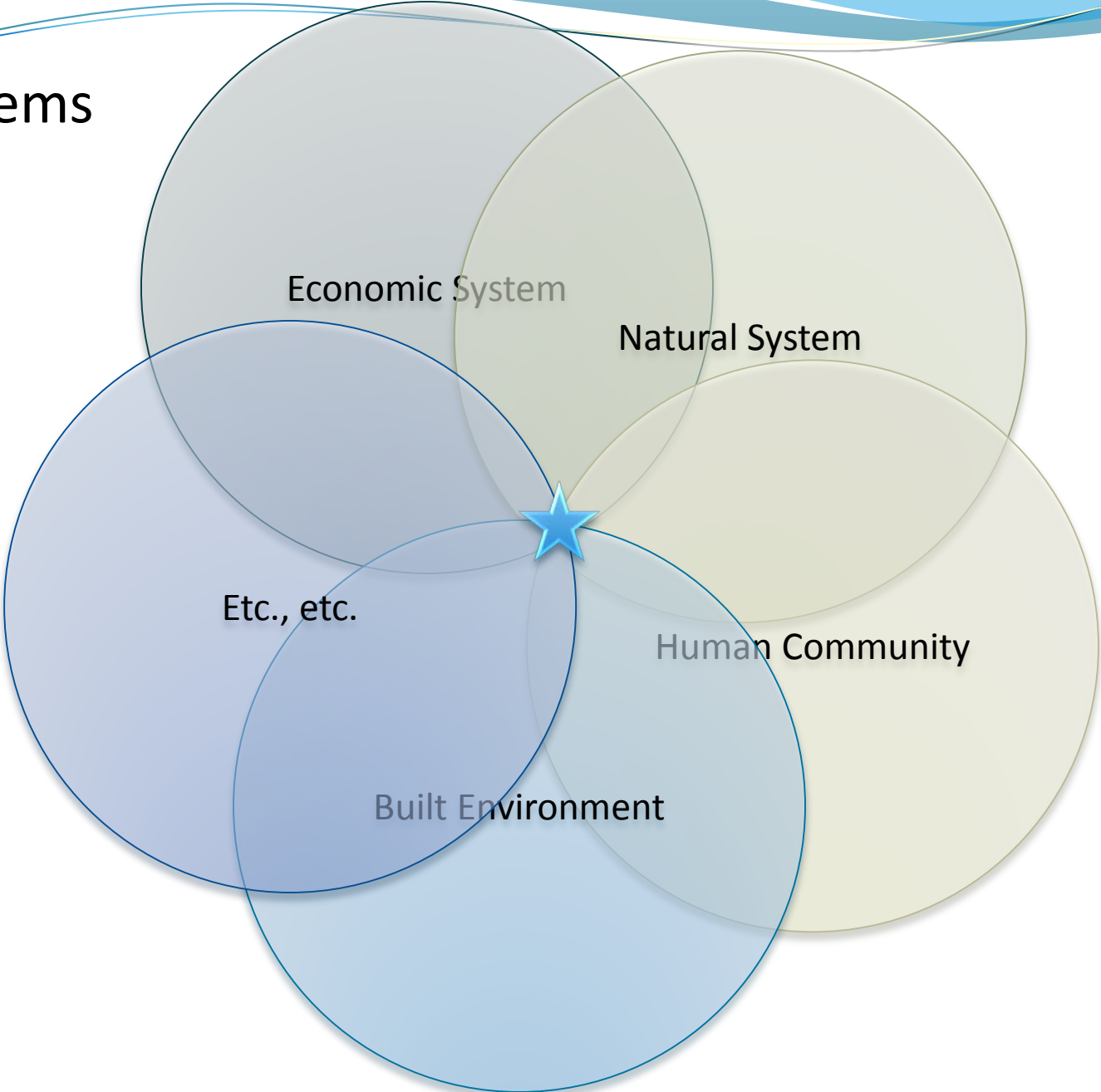


GIS Apps

CommunityViz[®]

Planning Services

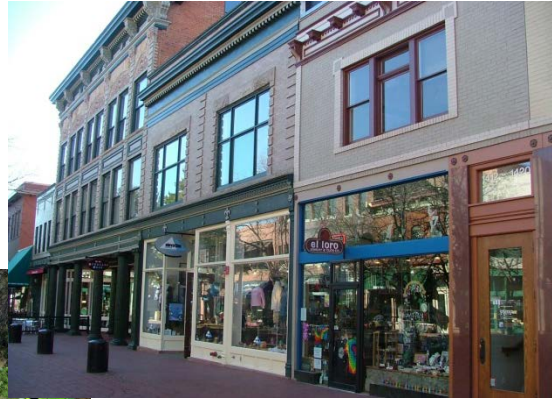
Systems





Expertise

Economic Development



Community Character



Infrastructure



Design



Agriculture



Conservation



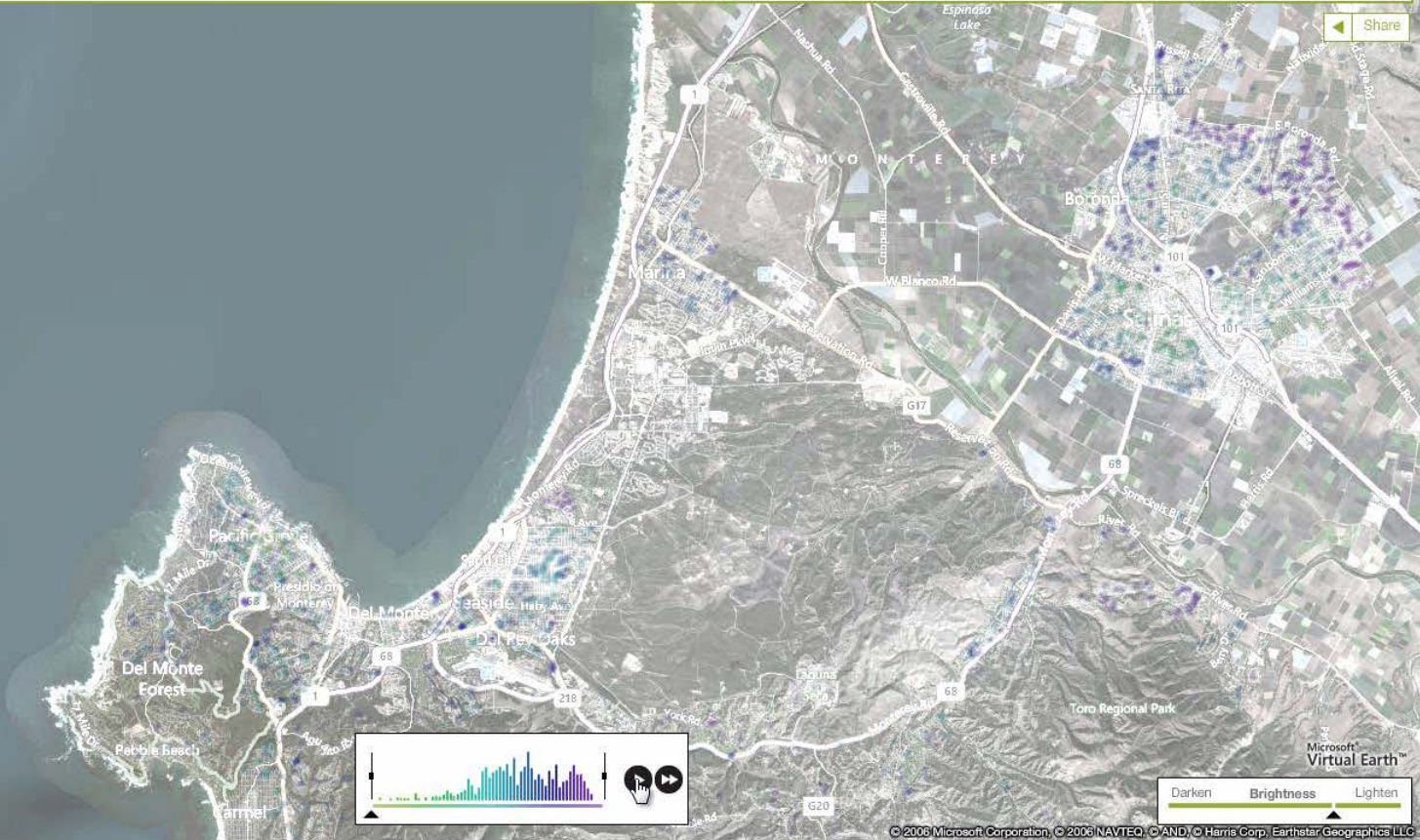
Time and Space

truliaHindsight

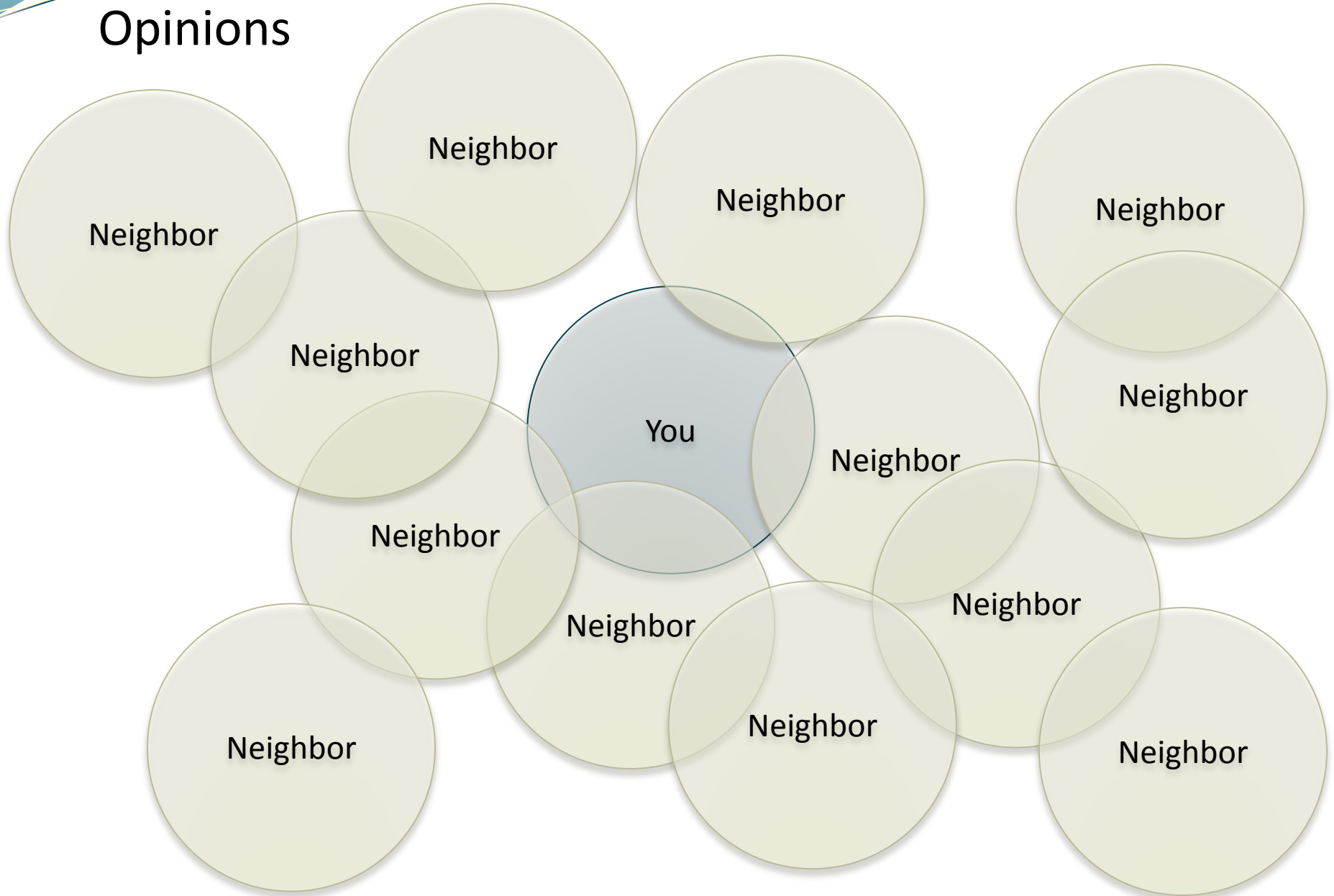
SEARCH

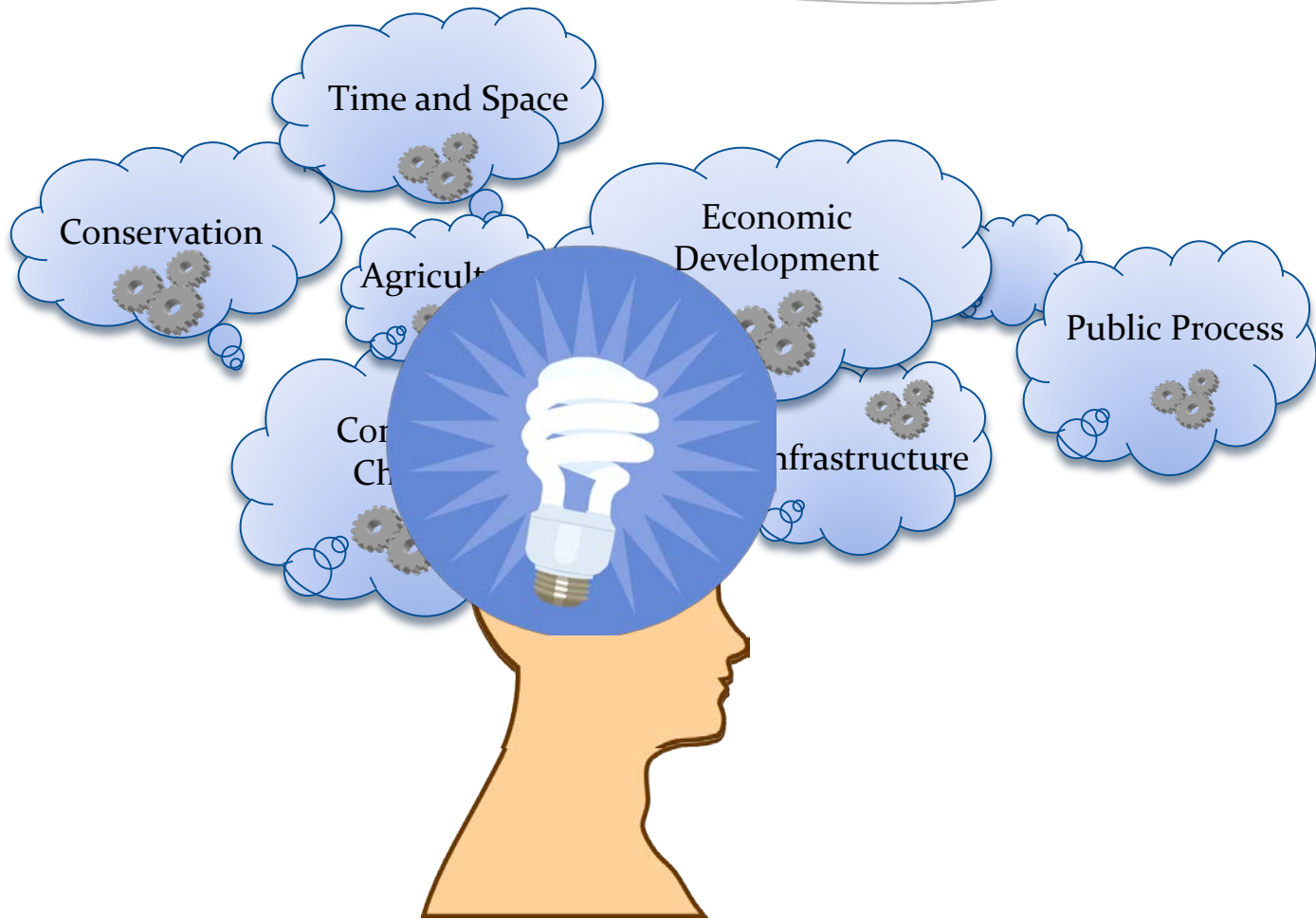
Showing some of the properties. ?

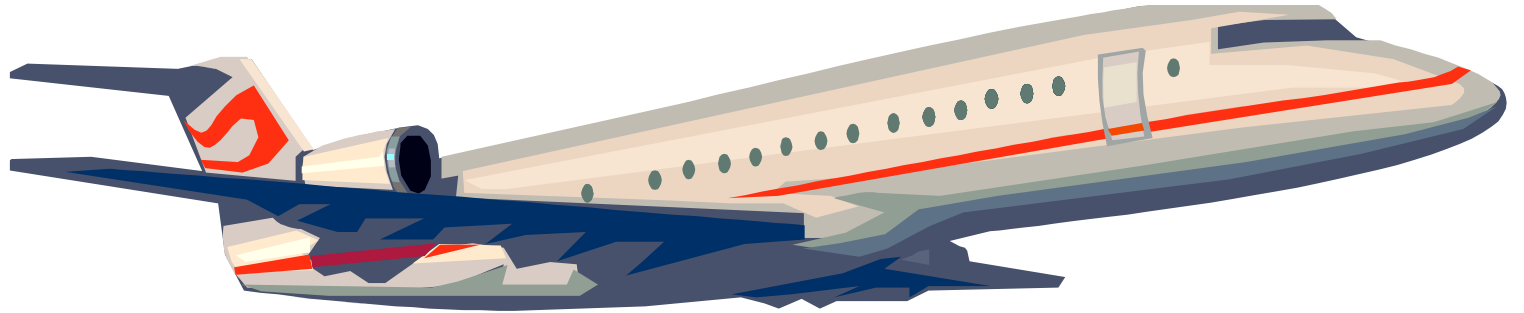
Share



Opinions







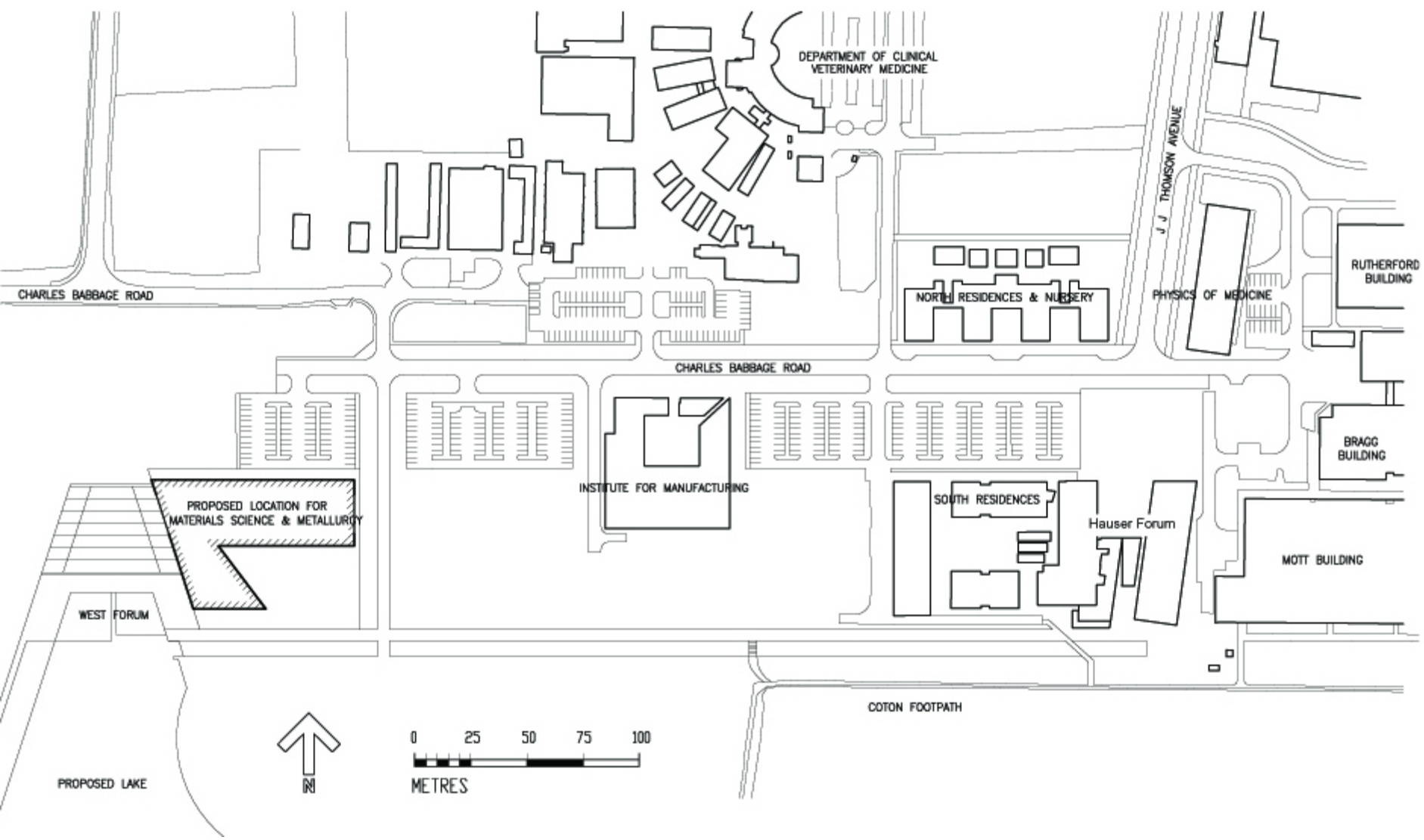
128x







Visual



CHARLES BABBAGE ROAD

DEPARTMENT OF CLINICAL VETERINARY MEDICINE

J. J. THOMSON AVENUE

NORTH RESIDENCES & NURSERY

PHYSICS OF MEDICINE

RUTHERFORD BUILDING

CHARLES BABBAGE ROAD

INSTITUTE FOR MANUFACTURING

BRAGG BUILDING

PROPOSED LOCATION FOR MATERIALS SCIENCE & METALLURGY

SOUTH RESIDENCES

Hauser Forum

MOTT BUILDING

WEST FORUM

COTON FOOTPATH

PROPOSED LAKE



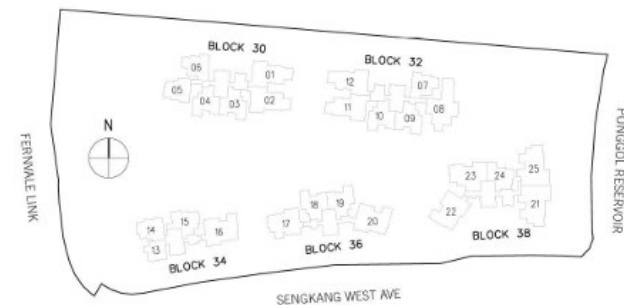
Site Plan



Legend

- | | | | |
|----------------------|-----------------------|--------------------------------|-----------------------|
| 1 Guard House | 6 Meandering Pool | 15 Rain Garden | 20 Whistling Pavilion |
| 2 Arrival Plaza | 7 Jet Pool | 16 Cattail's Trail | 21 BBQ Area |
| 3 Tennis Court | 8 Discovery Pool | 17 Discovery Playground | 22 Nature's Terrace |
| 4 The Executive Club | 9 Serenity Deck | 18 Infinity Lap Pool | 23 Side Gate |
| • The Aquaria | 10 Aqua Gym | 19 The Fitness Club | |
| • Function Room | 11 Sunshine Deck | • Gym | |
| • Shop | 12 The Playscape | • Vantage Point | |
| • Changing Rooms | 13 Fitness Station | • Changing Rooms & Steam Baths | |
| 5 Eco Pond | 14 Discovery Bio-Pond | | |

* These areas are public areas.
Not exclusive for the condominium residents.




CityEngine

CityEngine Web Viewer - 1 x
www.arcgis.com/apps/CEWebViewer/viewer.html?3dWebScene=c451f359c24a4f34bf63c1e5077f1694

Bergmann Associates - Rochester NY Master Plan

Help Sign In ArcGIS Online



Layers

- Master Plan
- Master Plan Buildings
- Proposed Development
- Sub Neighborhoods
- Development Areas
- District Recommendations
- Parcel Data
- Assessed Value
- Value Density Map
- Landmark Buildings
- Buildings
- Trees

Navigation icons: Home, Previous, Next, Full Screen, Refresh, Search, Settings, Share, Help.

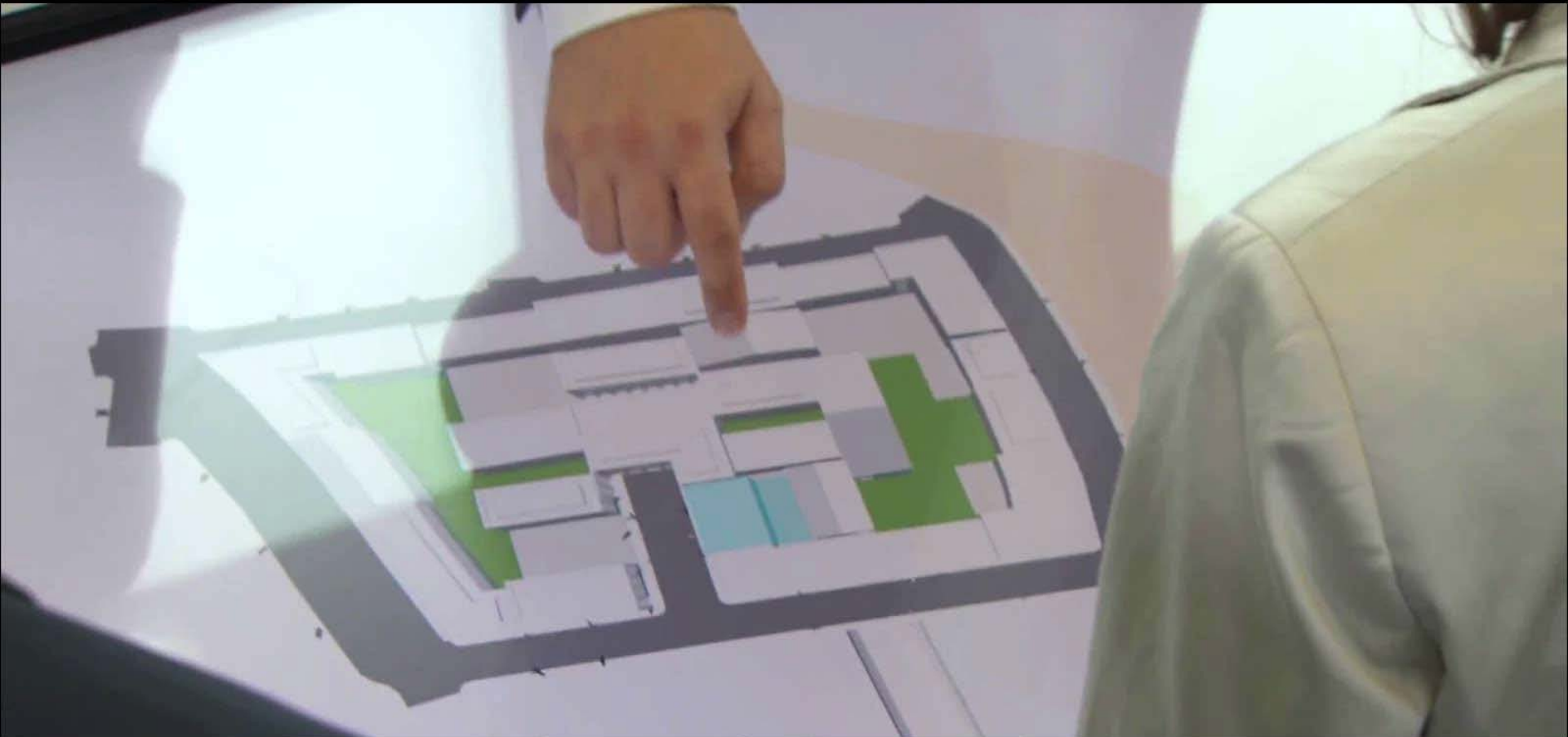


Interactive



CityEngine®

SMARTERBETTERCITIES



Corridor Redevelopment

communityviz[®]

Height: 1029.5 feet
Speed: 47

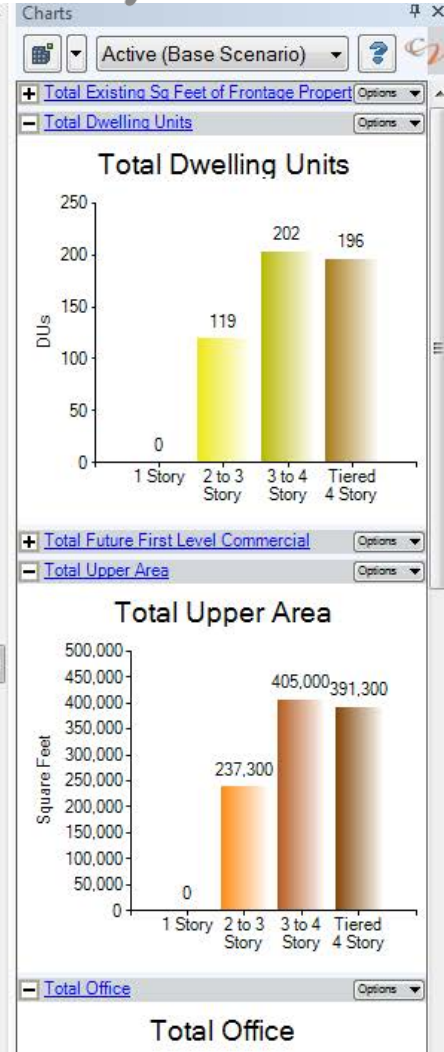




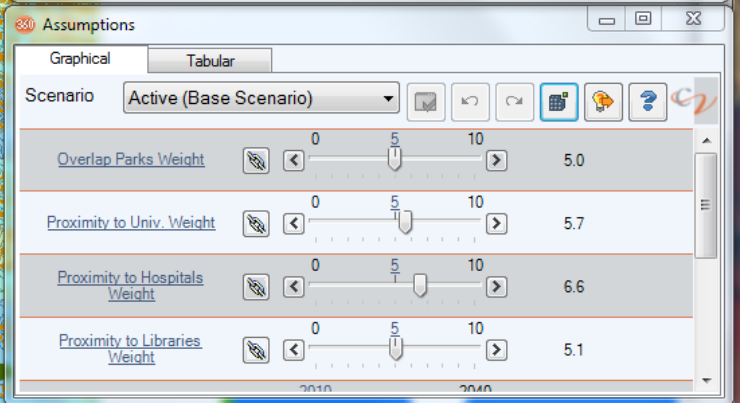
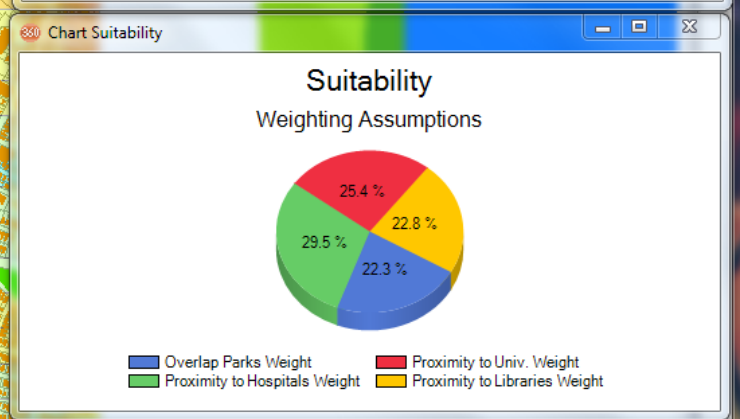
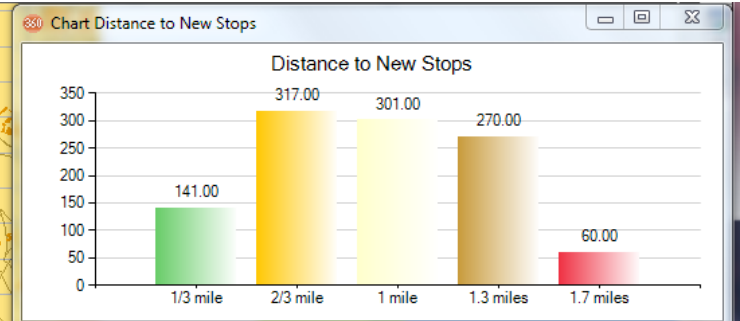
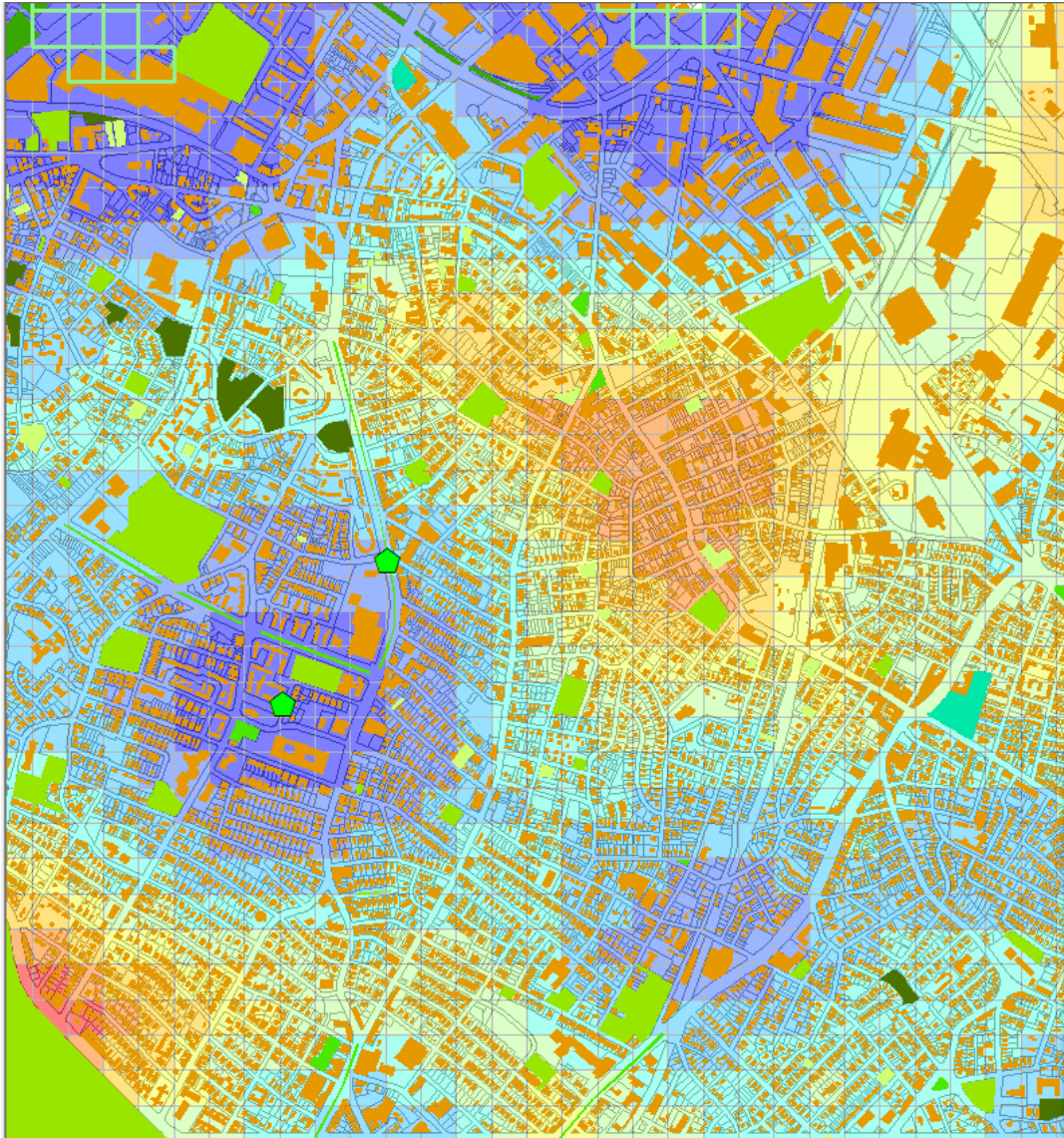
Informative

Corridor Redevelopment

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Site Suitability



Transit Planning

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Transit Routes and Stops
Existing Road Network

Walk Access to Transit Stops

- Existing Stop - 1/4 mile Walkability
- Existing Stop - 1/2 Mile Walkability
- New 2030 Stop - 1/4 Mile Radius
- New 2030 Stop - 1/2 Mile Radius

Geographic Area Centroids
2030 Dwelling Units by Walk Radius to Transit

0 0.25 0.5

- 0 - 25
- 26 - 50
- 51 - 100
- 101 - 200
- 201 - 400
- 401 - 800
- 801 - 1600
- 1601 - 4112

Active Scenario
Base Scenario

Modify
Assumptions Stop Edit Attributes

View
Indicators Charts Alerts

Visualize
Reports Diagram 3D

Present
Compare Scenarios Saved Views

360 Analysis 360 Setup
Display Source Selection

Task: Create New Feature Target: TAPS_30_Walk_Net_Buff

2030 Dwellings Transit Access

Walk Radius	Dwellings Units
< 1/4 Mile	~480,000
< 1/2 Mile	~450,000
> 1/2 Mile	~450,000

2030 Employee Transit Access

Walk Radius	Employees
< 1/4 Mile	~750,000
< 1/2 Mile	~550,000
> 1/2 Mile	~350,000

2030 Population Transit Access

Walk Radius	Population
< 1/4 Mile	~1,400,000
< 1/2 Mile	~1,200,000
> 1/2 Mile	~1,000,000

Assumptions

Scenario: Active (Base Scenario)

Choose Radius or Network/Walk Zones: Network

Clone Radius Efficiency Factor: 60 percent

Style Palette

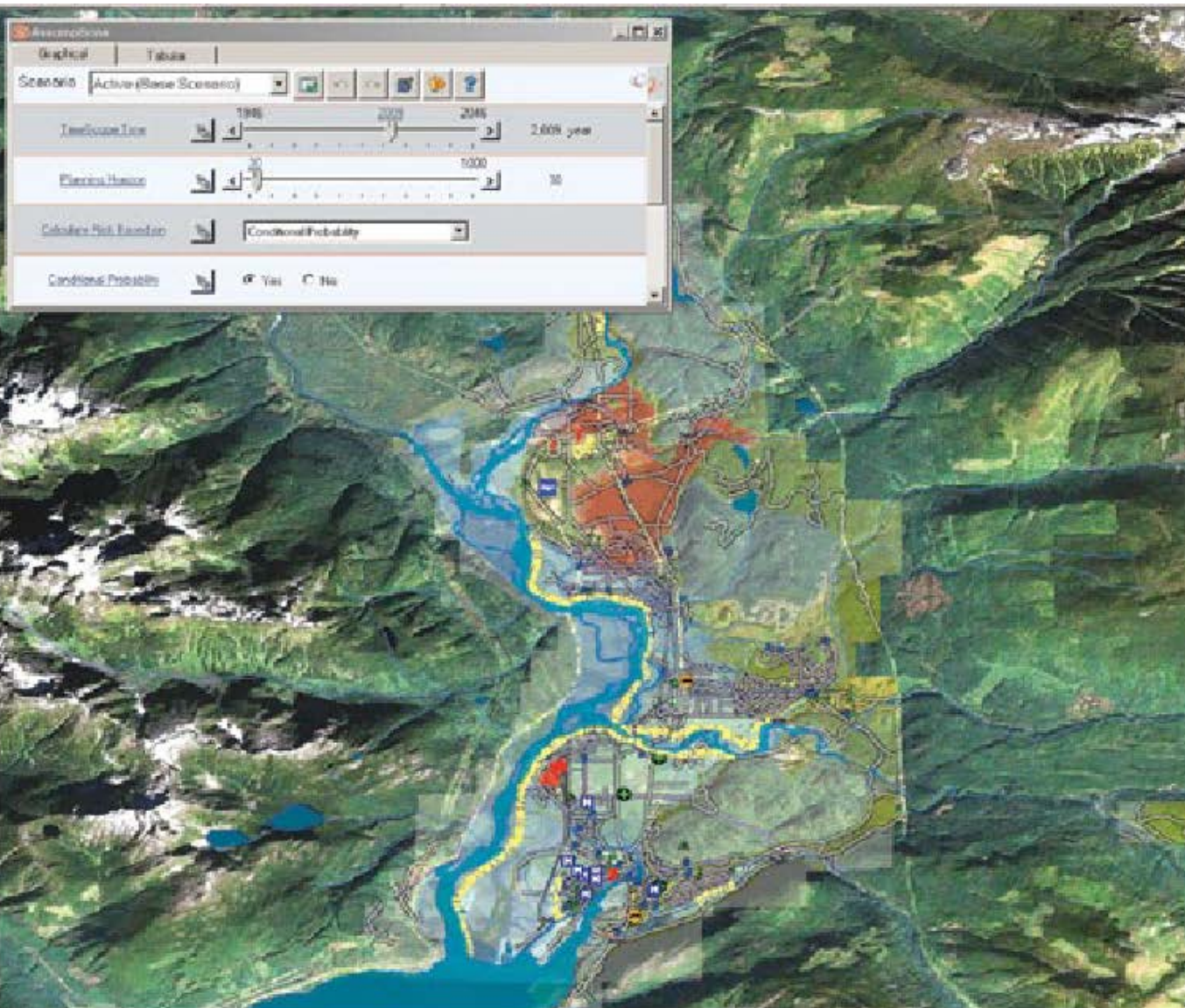
Styles in: TAPS_30_Walk_Net_Buff

- New 2030 Qtr (Orange Circle)
- New 2030 Half (Green Circle)

6281668.797 1922739.166 Feet

Hazard Risk Assessment

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Assessment

Graphical | Tables

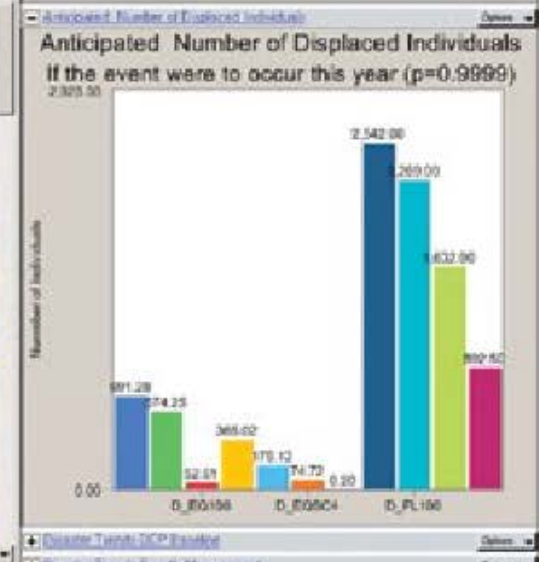
Scenario: Active (Base Scenario)

TimeScale: 1996 | 2020 | 2046 | 2,000 year

Planning Horizon: 1000 | 30

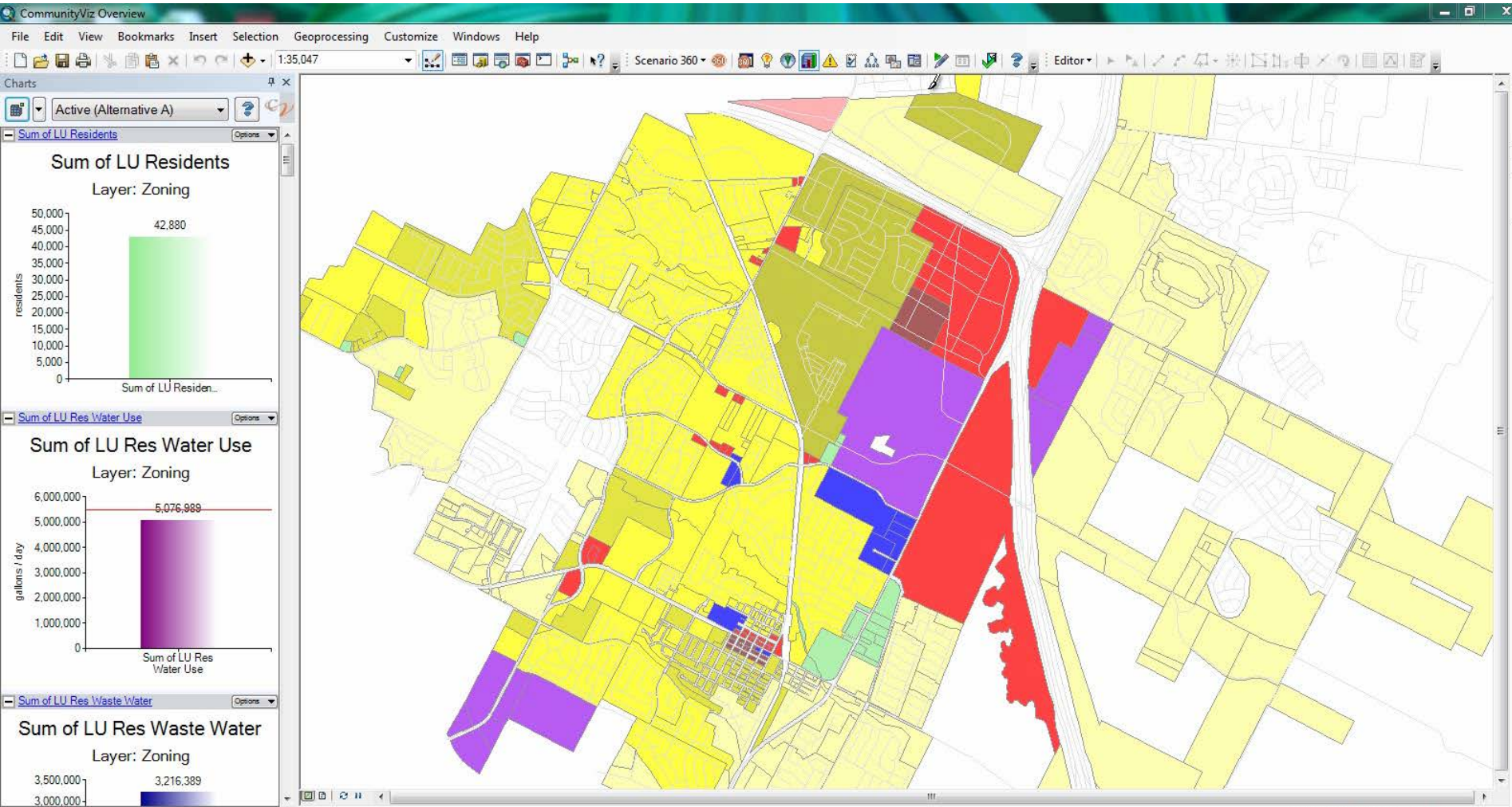
Calculate Risk Based on: Conditional Probability

Conditional Probability: Yes No



Impact Modeling

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3156721.157 10152168.795 Feet



Accessible

Police	Fire Amb	Highways	Sewer Budg	Sewer Ent	Water Budg	Water Ent
8,554,930	6,784,071	3,385,468	-	8,975,746	-	6,678,020
6,178,105	5,097,450	3,545,023	-	1,894,393	-	3,708,614
19,831,116	19,517,717	17,750,182	981,863	17,311,424	-	3,031,812
4,510,067	3,403,836	1,879,480	-	3,258,225	-	2,313,305
2,853,032	3,235,431	2,851,424	126,667	1,718,651	-	2,232,207
2,007,414	986,349	1,268,377	-	2,100,844	-	1,440,882
1,338,926	732,547	2,402,227	-	1,626,213	-	1,332,486
3,584,120	2,891,398	1,268,657	-	1,764,446	119,617	1,322,510
1,969,348	1,829,516	3,207,951	586,617	1,344,219	571,446	1,193,519
2,099,067	1,673,483	1,343,543	-	1,094,737	-	1,189,776
1,174,539	323,556	1,119,263	-	925,955	-	1,005,901
1,654,442	533,438	2,399,187	-	761,998	69,000	620,068
1,167,201	292,497	868,925	-	889,223	-	553,907
623,473	148,058	1,320,878	-	3,743,151	-	518,228
528,417	495,733	768,641	17,733	296,741	-	489,332
1,293,489	598,100	882,952	-	790,303	-	426,871
1,005,177	480,937	905,286	-	447,457	-	376,869
1,063,576	399,745	1,023,538	-	332,445	-	339,846
599,246	214,398	1,082,187	-	320,592	-	335,616
771,767	217,359	1,518,113	48,667	168,439	42,180	293,891
319,561	221,011	356,376	99,313	198,432	142,682	289,489
494,027	189,484	480,200	-	1,351,942	-	243,802
1,249,897	1,212,722	435,751	237,469	215,867	-	229,962
433,492	147,405	687,623	-	1,806,944	-	224,046
383,656	72,709	741,325	1,667	889,503	-	219,154
460,287	142,630	297,211	-	342,650	-	207,951
364,759	113,170	574,617	-	200,919	17,667	184,221
1,176,133	960,291	1,010,929	-	303,594	69,196	173,841



Welcome to the New Hampshire Cost of Sprawl Impact Model. Debate about sprawl development has shifted over the years. What was once just a discussion about sign pollution and traffic congestion has evolved into an examination of environmental sustainability and municipal financial impacts.

Select your municipality:

Acworth



This model has been designed as a decision-support tool for New Hampshire's dedicated local and regional planners, to provide a mechanism to evaluate the financial impact on local governments related to new development. While this model should not take the place of an evaluation of impacts of a proposed development in your community, it does provide an estimate of selected fiscal

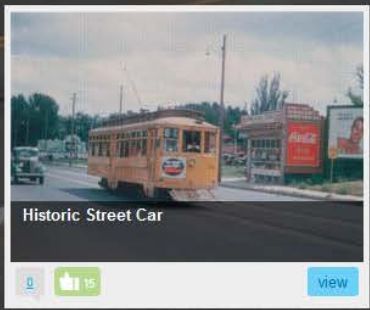
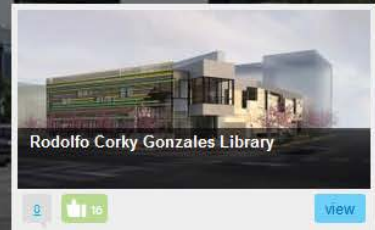


Collaborative



Discover West Colfax! Find nearby shopping and explore our rich cultural and historical artifacts, attractions, open spaces and other community assets. And don't forget to [suggest sights](#) that are currently missing: your participation is highly encouraged!

















Places Nearby All Highest Rated Most Recent




I want to live in a Greater Des Moines where...

NEXT

Show Instructions Again

-  I can walk, bike, or take transit to important destinations
-  There is a park near my house
-  I am safe from flooding
-  I can get out in nature
-  I live in a great school district
-  My taxes are low
-  I can easily stay in my neighborhood after I retire
-  I can buy local food
-  I can live in a diverse community
-  My community is exactly the way it is today
-  Our region is cool
-  I can own an acre of land or more
-  I can always find a parking spot quickly
-  My community has a unique identity
-  I can see a world class performance downtown
-  I can build a house wherever I want



 You have **2** stars left







Sophisticated

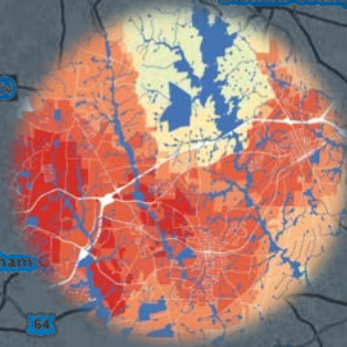
Multi-scale Modeling

Southwest Wake/Northeast Harnett Counties, North Carolina

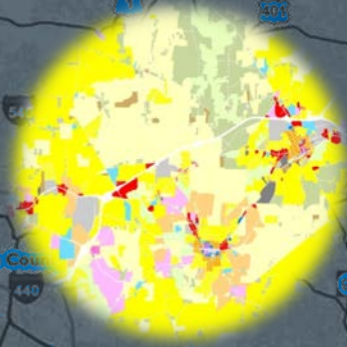
Bottom-Up Approach:



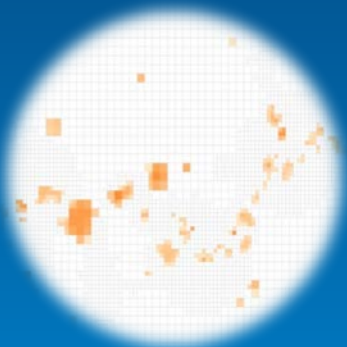
Development Status Assignments



Land Suitability Analysis Calculations



Place Type Assignments & Build-Out Estimates

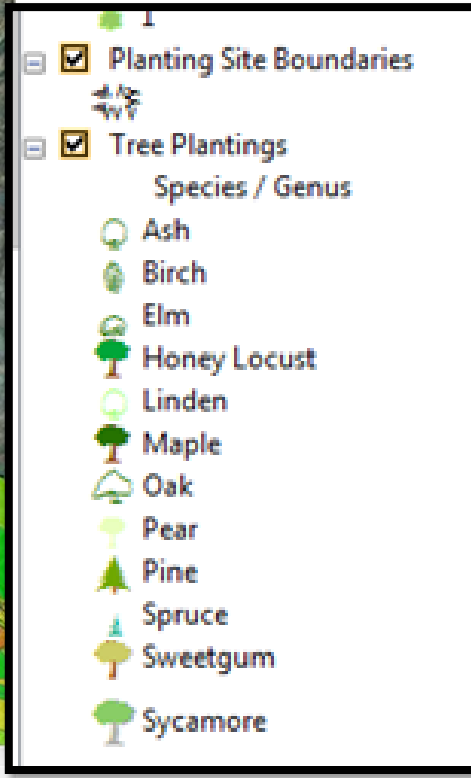
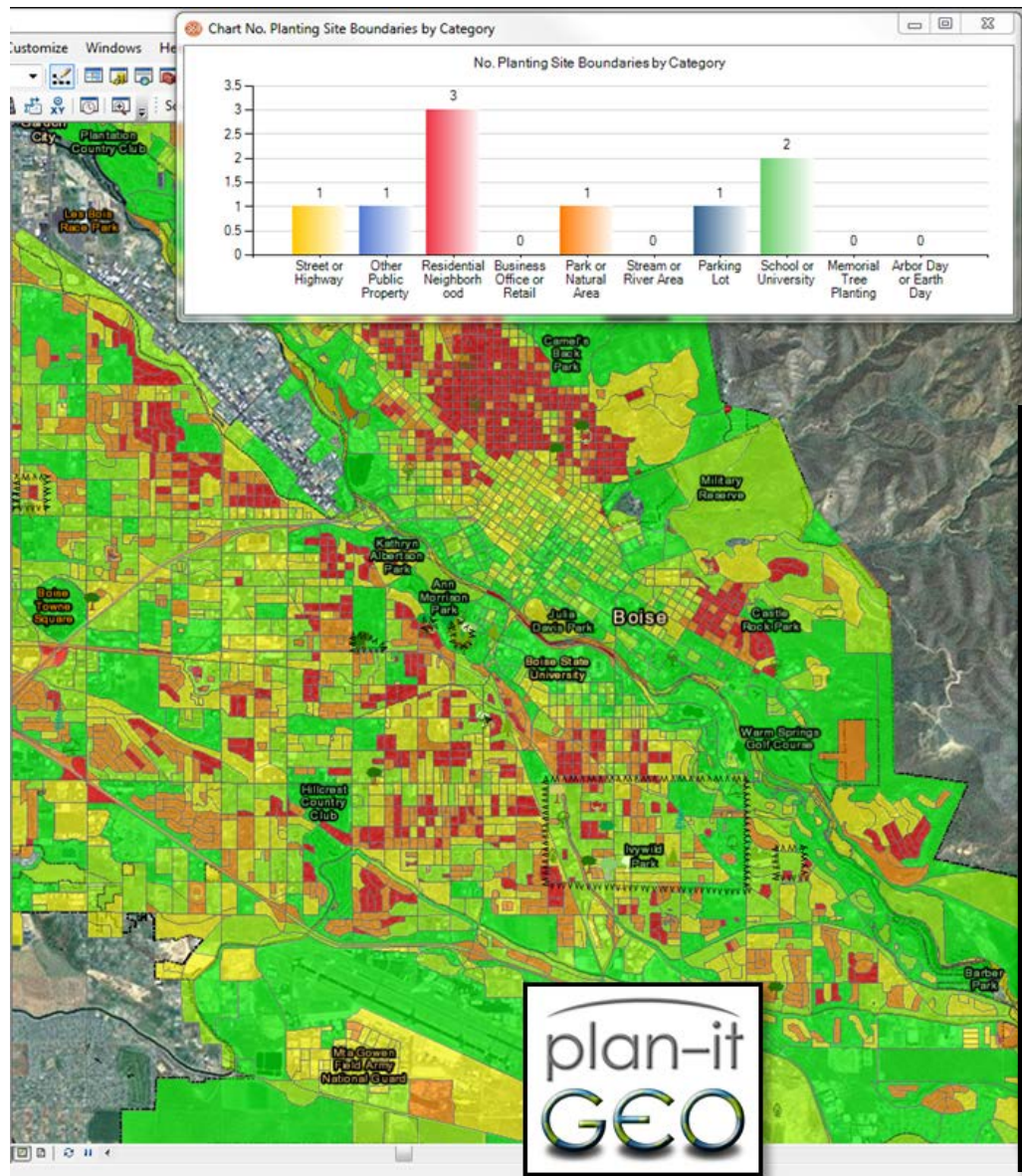
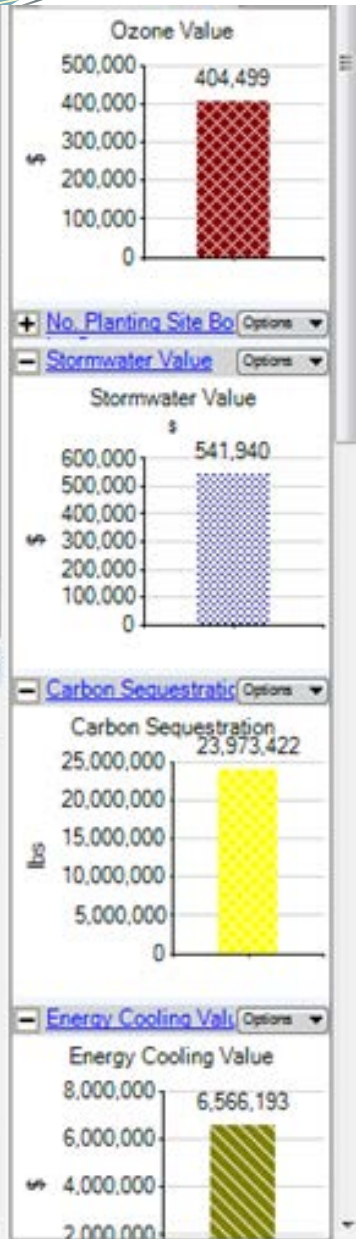


Growth Allocation



Urban Forestry

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Decision-Oriented





California-Based





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