

Welcomes

Introductions



Meeting Overview

- Planning Efforts in San Mateo and San Jose
- Discussion on Lessons Learned from San Mateo and San Jose
- Alternative Compliance Discussion
- GreenPlan-IT Overview & Who Should Come to Webinar



Grant Deliverables



- Develop GreenPlan-IT (prior TAC meetings on its development)
- Watershed Scale LID identification in City Planning Efforts in 3 watersheds
- Alternative Compliance next steps for Bay Area
- Outreach on GreenPlan-IT (Webinar) and Conferences (State of the Estuary)

San Jose Pilot Study

- Urban Villages
- Storm Sewer Master Plan
- MRP 2.0 & San Jose



Who's involved?

San Jose:

- Jared Hart
- Bryan Apple
- Napp Fukuda
- Sharon Newton
- James Stettler
- Casey Hirosaki
- Suzanne Thomas

GreenPlan Team:

- Jing Wu
- Pete Kauhanen
- Jen Hunt
- Lester McKee
- Josh Bradt
- Jennifer Krebs
- Consultants



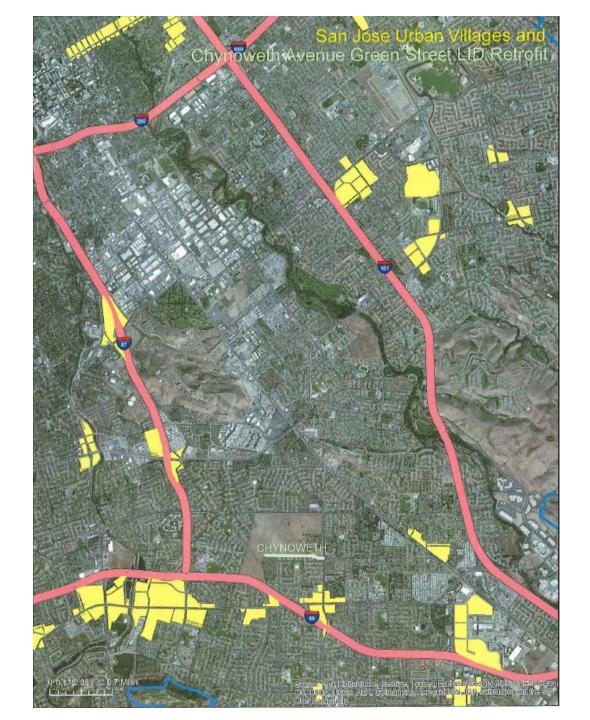
Urban Villages

- Close to transit or in PDAs
- New sustainably focused areas
- Pedestrian friendly
- Well suited for GI implementation



Urban Villages



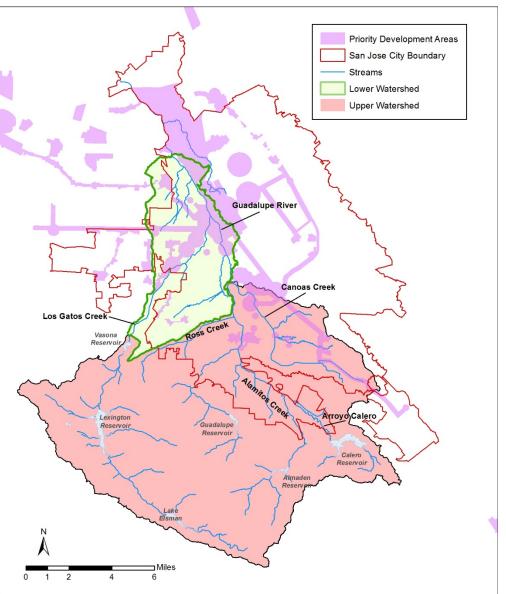


Storm Sewer Master Plan

- Objectives of the Plan
- Constructing LID facilities to meet capacity goals
- Using Green Plan-IT tool to identify potential CIP locations
- Incorporating Green Plan-IT outputs into future planning efforts

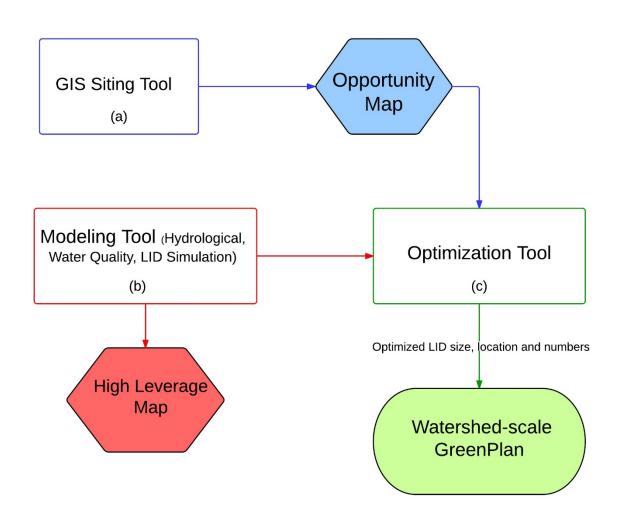


GreenPlan-IT in San Jose



- Objective identify feasible and cost-effective GI locations in the lower Guadalupe River watershed
- Full Toolkit applied
 - Site Locator Tool
 - Hydrologic Model
 - Optimization Tool

GreenPlan-IT Overview



Site Locator Tool Application

An iterative process – run the tool, review outputs, refine with new data/ranking

First Run

- No ranking
- Decided how to utilize different layers
 - Ranking vs Knockout
- Rough location layers
 - Wide sidewalks
 - On street parking
 - Public parcels etc.
- Development of the Site Locator Tool

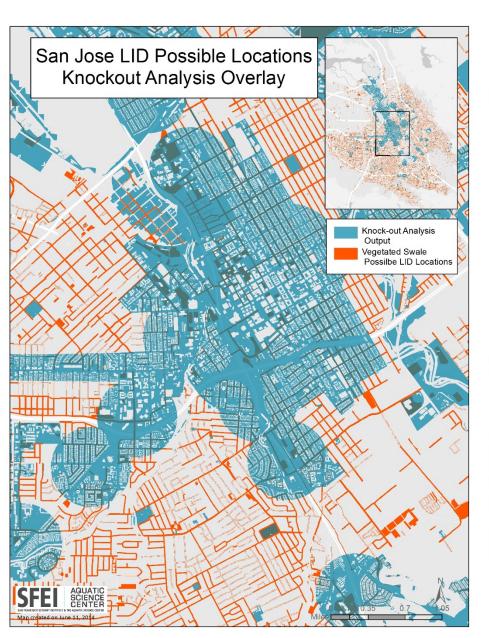
Second Run

- The Site Locator Tool process was streamlined
- Included ranking module
- Worked with the city to determine how to utilize local layers
 - WebEx meetings

Final Run

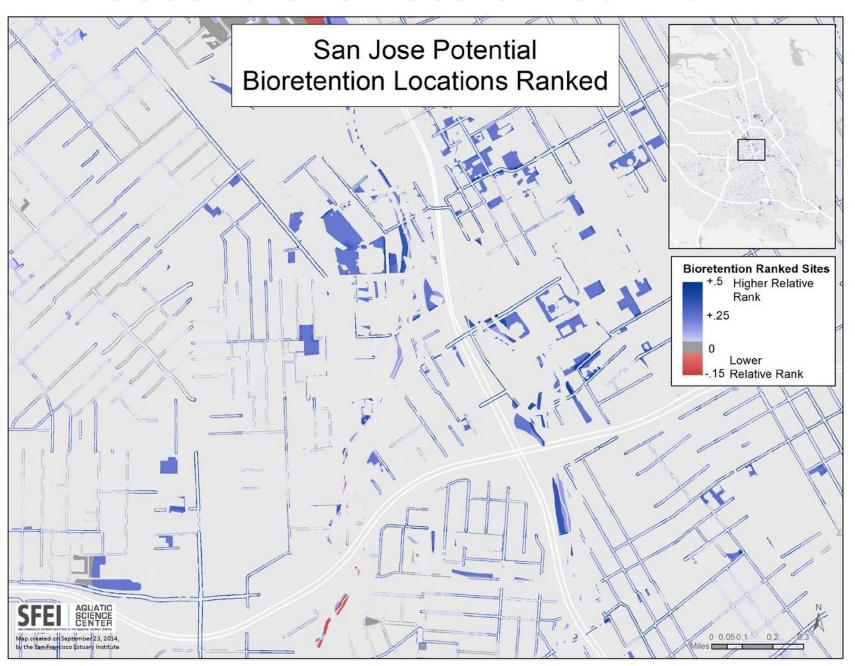
- Adjusted Ranking table
 - Removed some layers
 - Added Urban Villages as an opportunity
- Base Analysis as an opportunity
- Better GI locations
 - Side Walk Planters
- Differentiate between unranked and neutral rank
- Added in additional knockouts (Salt Ponds, infrastructure)

First Site Locator Tool Run

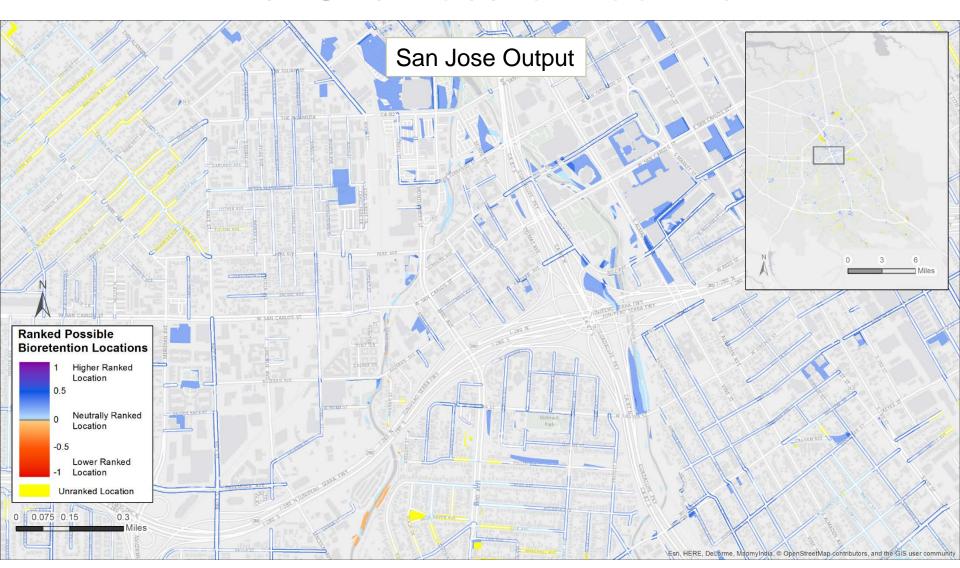


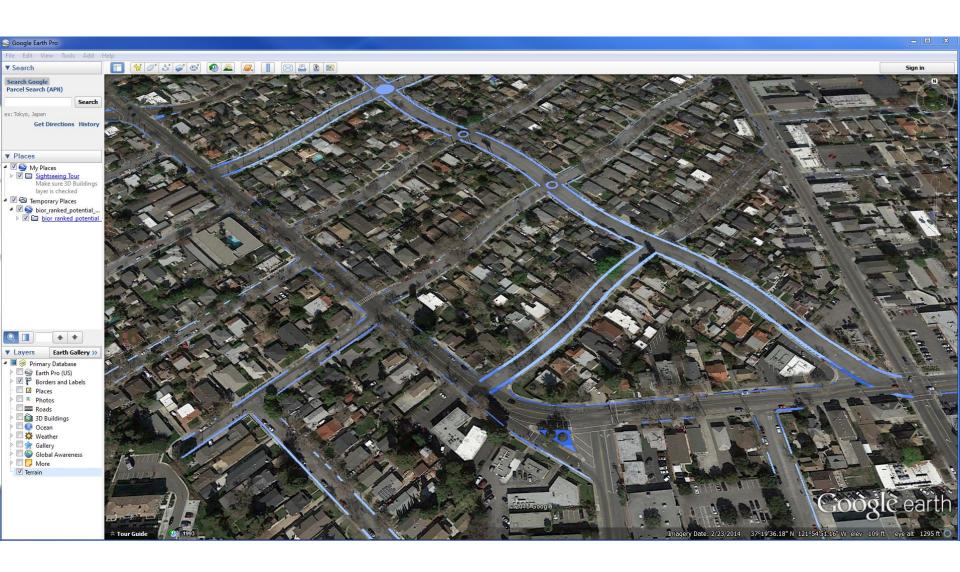


Second Site Locator Tool Run

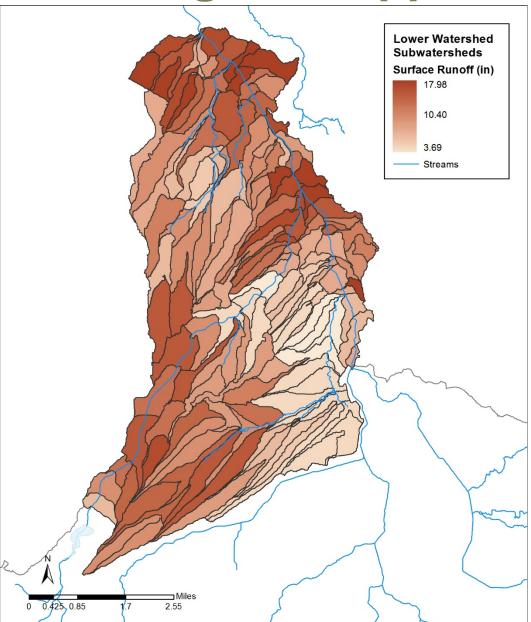


Final Site Locator Tool Run





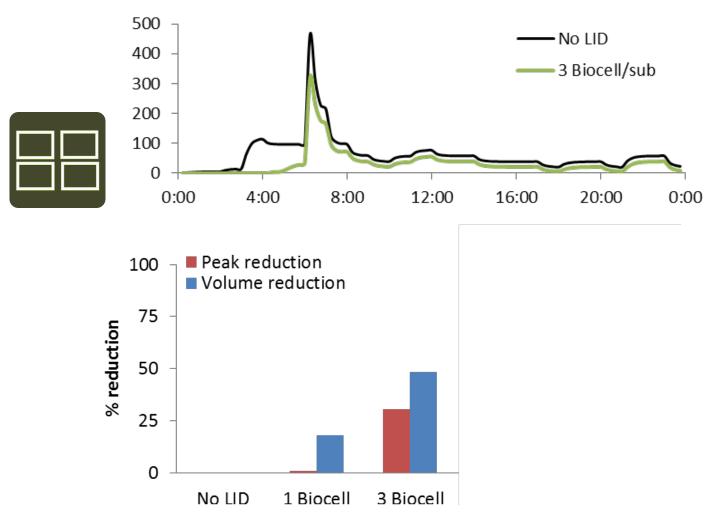
Modeling Tool Application



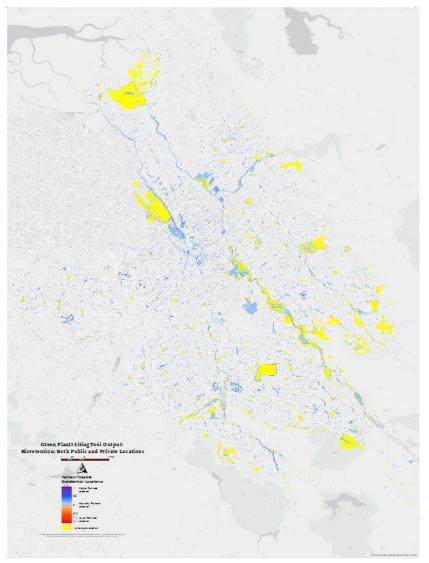
- Identify effective locations for GI implementation that could have the greatest potential leverage for reducing runoff volume
- Establish baseline condition

Modeling Tool Application

 Quantify flow and water quality reduction from various GI scenarios from 150 sub-basins

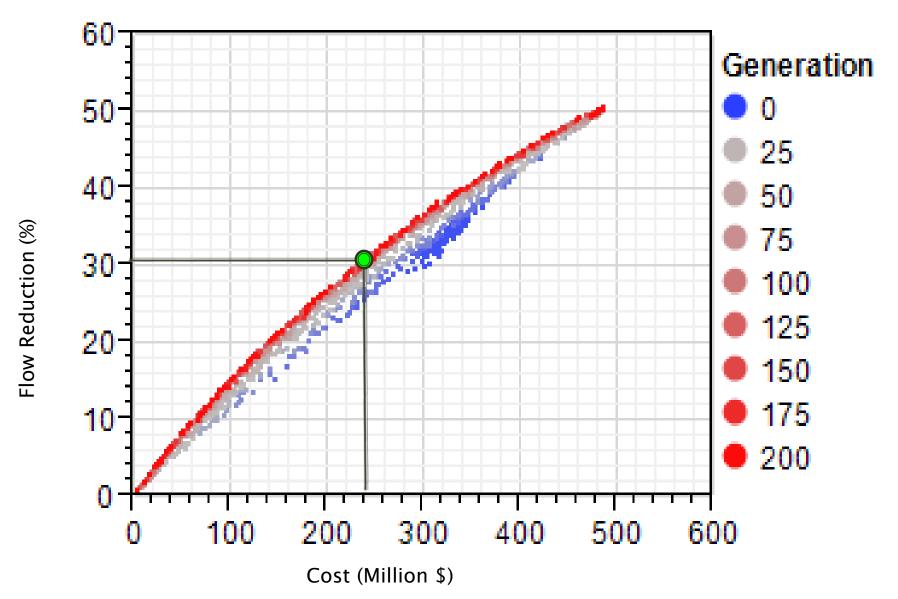


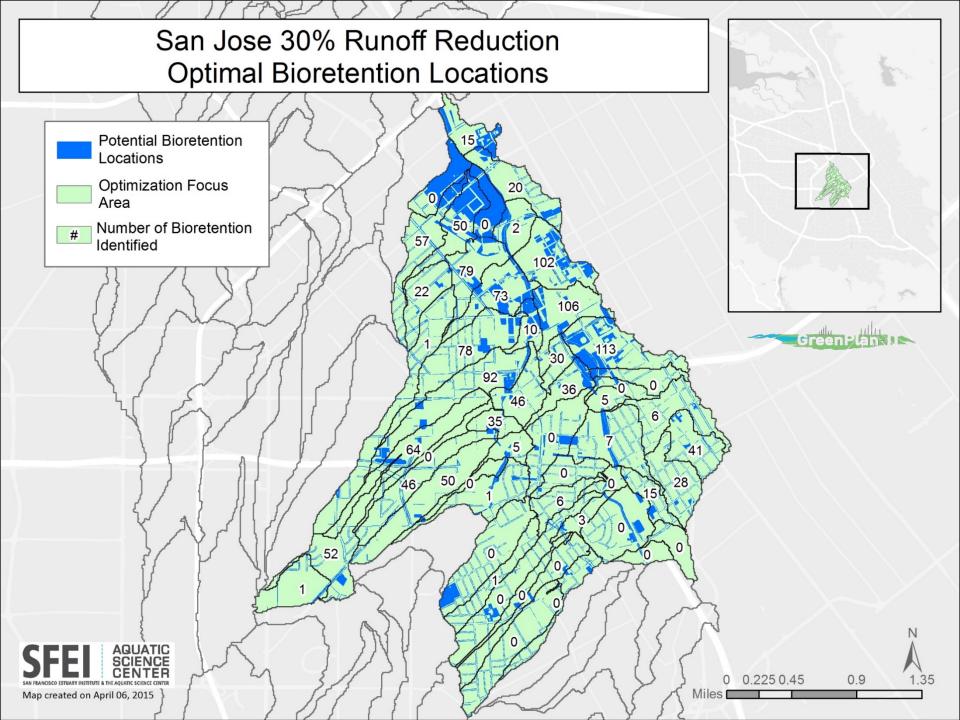
Optimization Tool Application

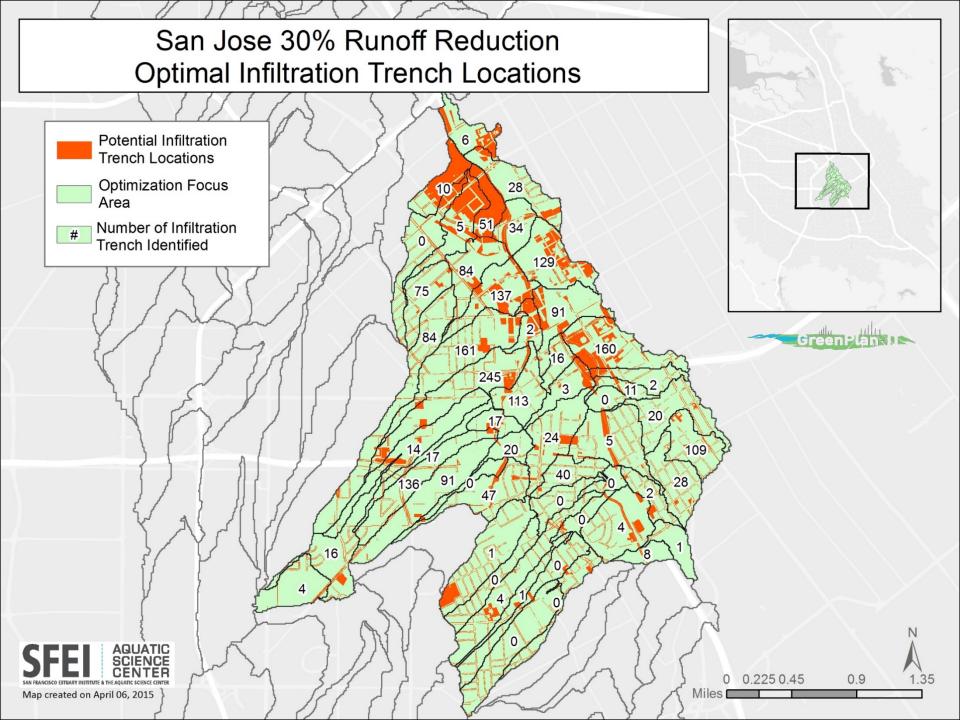


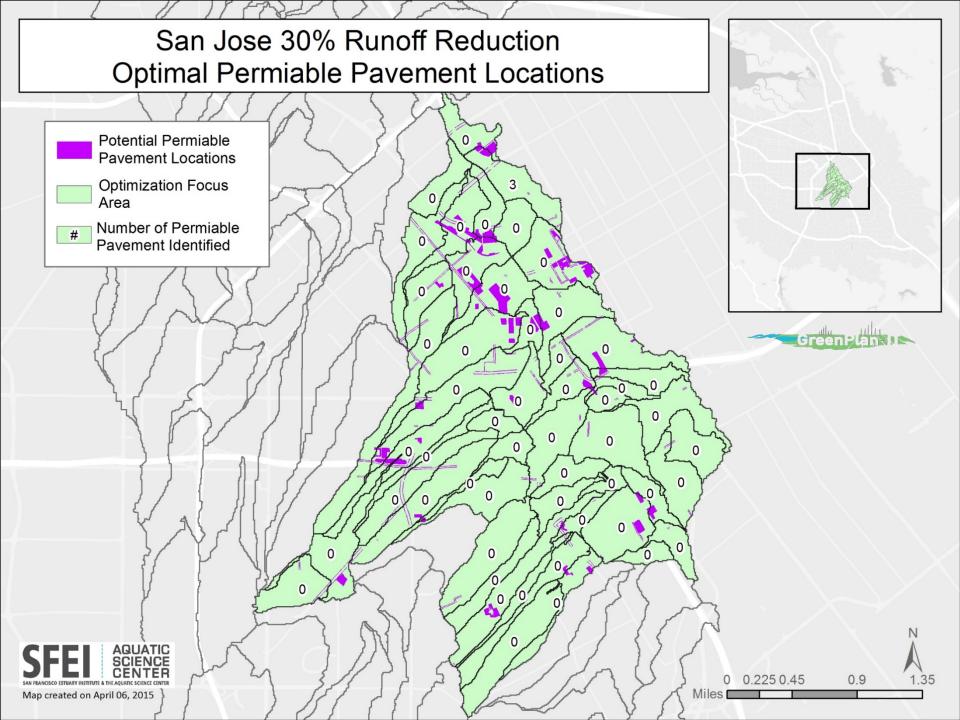
- 10s of thousands of possible sites identified by Site Locator Tool
- Imagine if a City had to find these without an automated process!
- but what are the most cost-effective GI combinations among them for achieving certain reduction goal?
- ..and at what price?

Cost-effectiveness Curve









SCVURPPP & San Jose – Lessons Learned



- By San Jose stepping up as a pilot partner they are now well positioned for developing the GI watershed master plan per the next MRP
 - Iterative interactive development
 - Best to apply all the tool kit not just locator tool
 - Stormdrain master plan blueprint for the urban village

MRP 2.0 Requirements

- Prepare a Green Infrastructure Plan, including:
 - Mechanism to prioritize and map areas for potential projects over various timeframes (e.g., GreenPlanIT tool)
 - Outputs: prioritization criteria, maps, lists of projects
 - Projections for amount of impervious surface to be retrofitted over 5, 10, 25, and 50-yr horizons
 - Process for tracking and mapping completed projects
 - Guidelines, design details, and standard specs
 - Planning documents linked to GI Plan
 - Work plan to complete prioritized projects
 - Evaluation of prioritized project funding mechanisms



MRP 2.0 & San Jose

- GreenPlan Bay Area products:
 - GreenPlanIT tool to prioritize and map areas
 - Outputs: prioritization criteria, maps, lists of projects
- Guidelines, design details, specs
 - Design/construction drawings for current grantfunded green street projects
 - Regional products
- Planning documents linked to GI Plan:
 - Storm Drain Master Plan
 - Urban Village Plans?
 - Urban Forestry Plan?
 - Complete Streets Plan?



San Jose Q & A



City of San Mateo



28





Final Plan

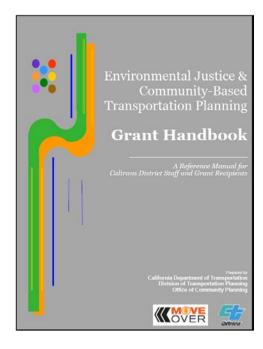
February 2015

Who's involved

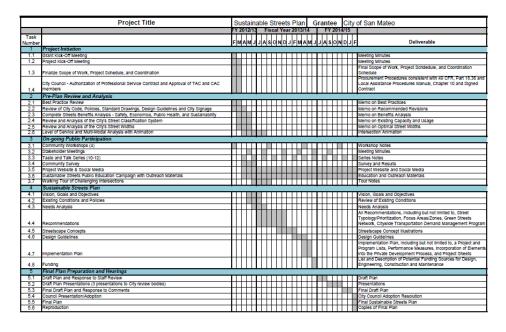


- Ken Chin, San Mateo Public Works Project Manager
- Jocelyn Walker, San Mateo Public Works Assistant Engineer
- Matt Fabry, resident and C/CAG
- Jessica Alba, Nelson\Nygaard
- Pete Kauhanen, SFEI GreenPlan-IT Developer
- Jen Hunt, SFEI Project Manager
- Lester McKee, SFEI Project Lead
- Josh Bradt, SFEP Environmental Planner
- Jennifer Krebs, SFEP Project Manager

Sustainable Streets Plan



- Caltrans Community Based
 Transportation Planning Grant
- February 2013 February 2015





Sustainable Streets Plan

■ Policy 3.D.1 – Manage stormwater runoff using green infrastructure from 10% of roadway segments citywide and from 20% of roadway segments within the Downtown and PDAs within the City by the year 2050.







GreenPlan-IT Site Locator Tool in San Mateo



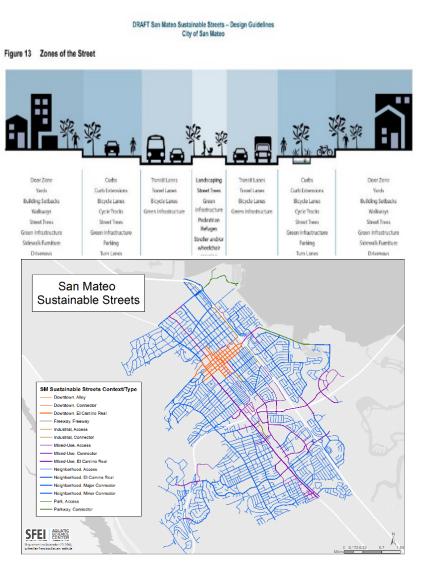
- San Mateo: initial partner
- Iterative process to improve both Tool and City outputs
- Worked with city staff and the TAC (municipalities and BASMAA) to identify planning needs of the site locator tool

First Site Locator Tool Run



- Preliminary ranking
- Preliminary GI location layers
 - Side street parking
 - Wide sidewalks
 - Wide planters
 - Pedestrian trials
 - Parks
 - Parking Lots

Final Site Locator Run

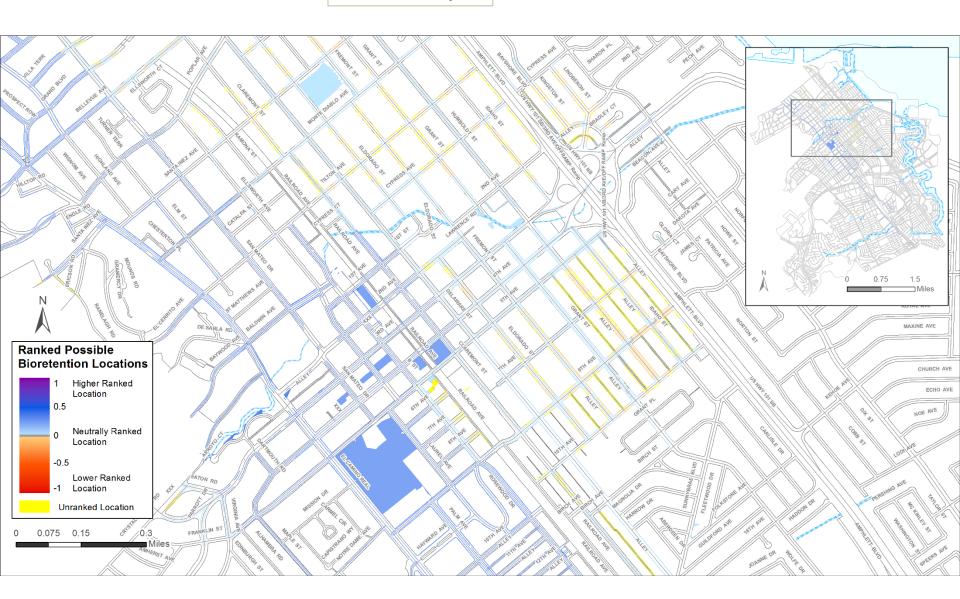


- Better potential GI location layers
 - Incorporated street dimensions from the Sustainable Streets Plan for each street type
- Adjusted Ranking table
 - Buffer distances
 - Weighting

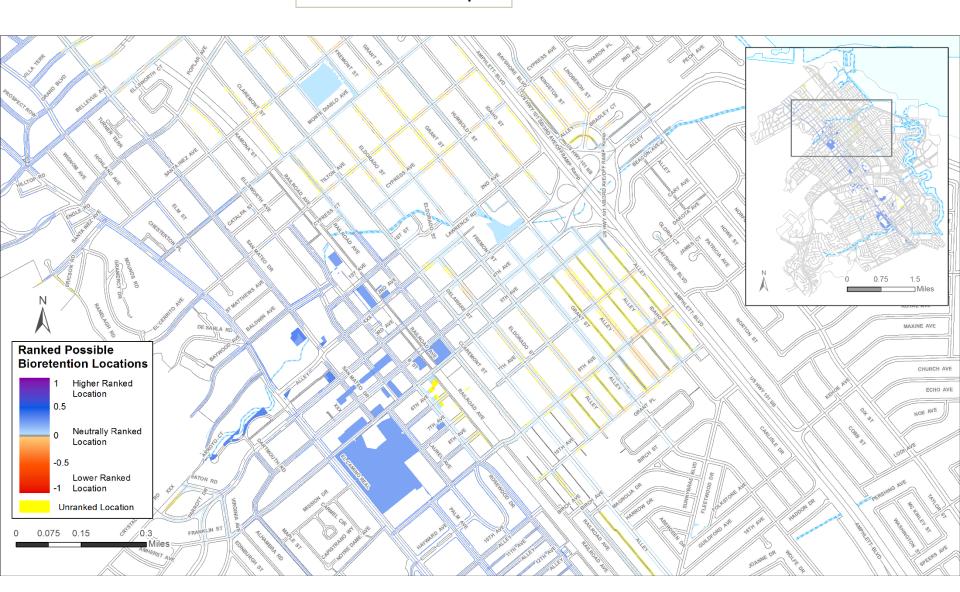
Private Output



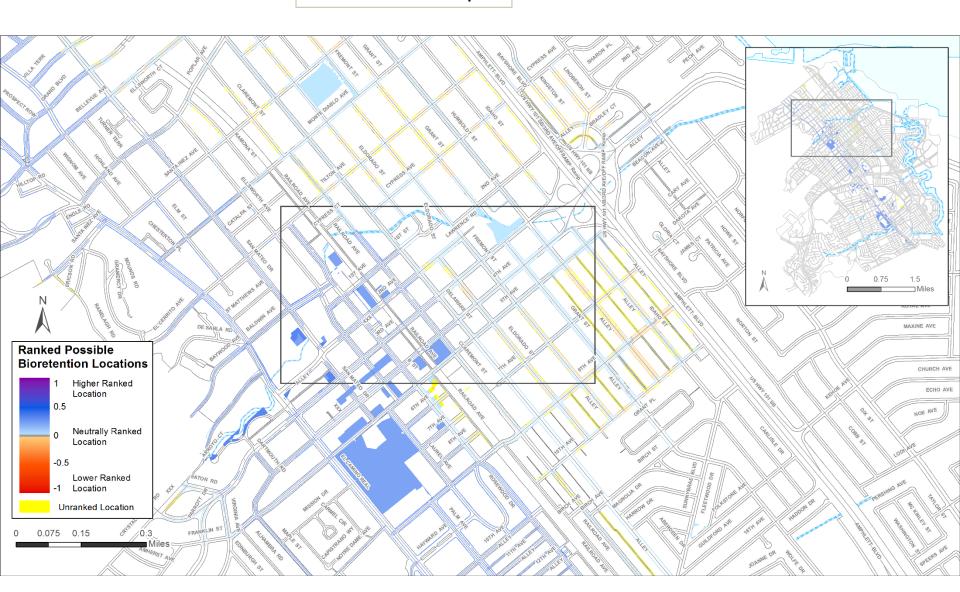
Public Output



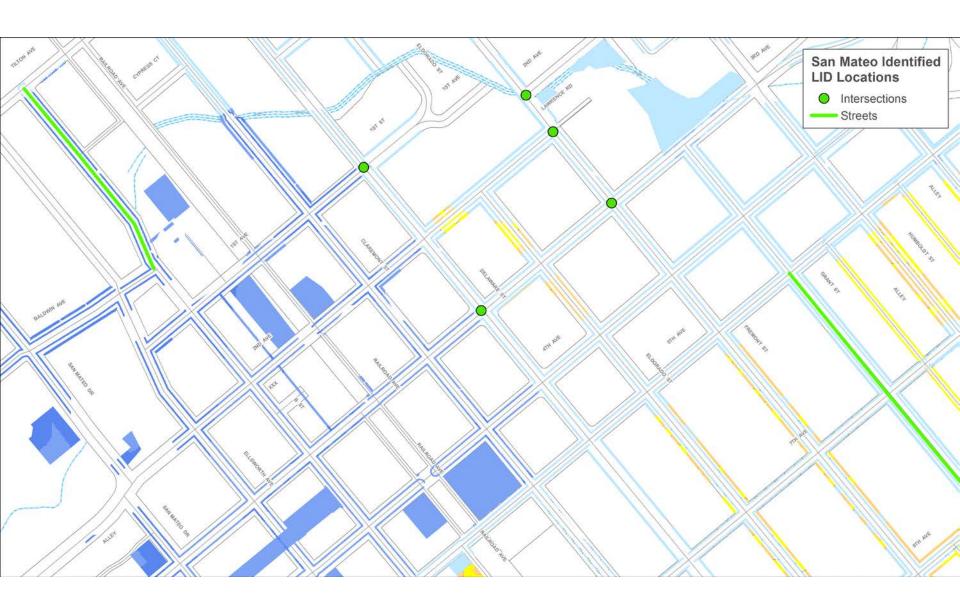
San Mateo Output



San Mateo Output





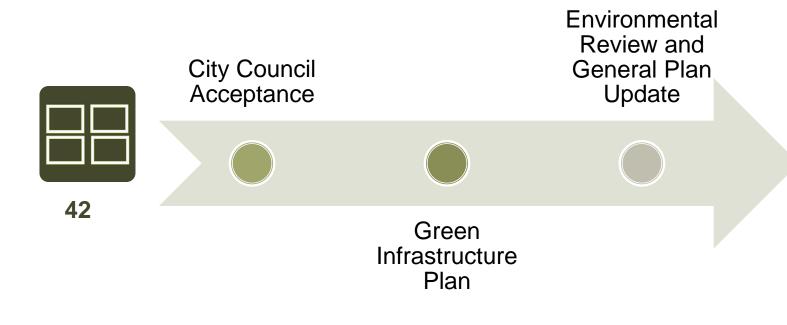


San Mateo Lessons Learned



- First Sustainable Streets plan in Bay Area
- Links Green Streets with Complete Streets
- What can others learn from San Mateo

Sustainable Streets Plan & Additional Next Steps



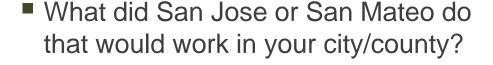
- Impact Fees and funding issues
- Adapting to MRP 2.0

Break



43

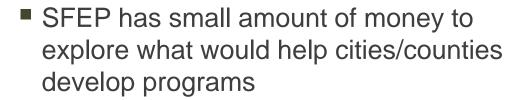
Break Out Discussion



- What aspects of the planning effort wouldn't work in your city/county?
- Given what you know about MRP 2.0, what would you need as outputs from GreenPlan-IT to make it work in your city/county?



Alternative Compliance



- Water Board is more flexible under MRP2.0 than MRP 1
- Question for group: what would help you?



45



Key Issues

- Do GreenPlan Outputs in City Plans qualify as starting points for local programs? (identification of receiving sites)
- Roles for cities, counties, others to get programs off the ground
- Fee Calculation design, construction, maintenance (include all?)
- Reporting
- Other ???

Roles

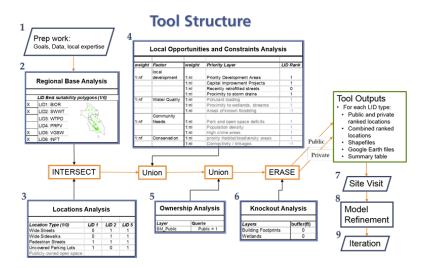


| What | Who? |
|-----------------------|-----------------------|
| GreenPlan | City/County |
| Site Design | City/County/Developer |
| Site Matching | City/County/Developer |
| Project Budget | City/County |
| Maintenance Agreement | Developer |



Webinar

- June 11th Morning at SFEI
- Why attend
- Who should attend





With This Tool We Can Green The Future

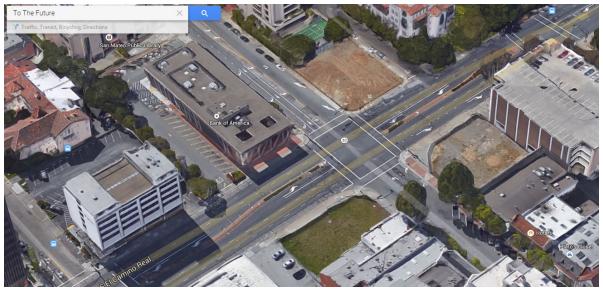
Figure 4-5 View of El Camino Real Looking North Toward 3rd Avenue (Left: Current, Right: Vision)







49



Thanks



Jennifer Krebs 510-622-2315 jkrebs@waterboards.ca.gov

