

GreenPlan San Mateo Meeting Minutes

8-12-14, 9:30 to 11:30 am

San Mateo Conference Room C

Attendees: Dan Cloak (DCE), Lester McKee & Pete Kauhanen (SFEI), Josh Bradt & Jennifer Krebs (SFEP), Ken Chin, Sarah Scheidt, Jocelyn Walker, Gary Heap (San Mateo), Matt Fabry (C/CAG)

Pete K of SFEI presented information on GreenPlan-IT (powerpoint attached)

Q & A -

Sarah - want to overlay PCB and trash areas to assure that the areas identified meet MRP compliance.

Ken – the improvements in GreenPlan-IT are great! It is cool, useful, and usable. I should have invited more folks to attend the meeting. It will help the city move from “pin the tail on the donkey” to a better approach. 2 areas to be included (maybe) are Bay Meadows and Humboldt offramp.

Gary – what is relevant about the Humboldt corridor - bids for work are coming back high – We can nix areas in non-high-priority areas.

Matt - how to incorporate this info in Sustainable Streets Plan?

Ken – The outputs should be in plan - maps etc. City will approve the plan in Feb/Mar. CEQA will take place in June/July. Then the Planning Dept will update City General Plan.

Next Steps:

- SFEI will schedule a follow up conference call to determine how to prioritize data layers, weighting issues, etc.
- This Group (expanded) will meet again in mid/late sept. to review the updated data outputs
- Site verification/site design. Dan Cloak will check out San Mateo drive and grant Ave. He will work on drawings to for the sustainable streets plan, or appendix, or
- Josh Bradt is working on alternative compliance methodologies. He presented an outline of thoughts to date and got feedback (outline attached). This will also be expanded by the next meeting.

Extra notes for Josh

Dan to date some developers have taken street run off or other uphill site. REstrictions will probably go away next MRP. Not too many projects will need offsite; so they might not really push public infrastructure. But might help city allow the development to happen. Josh - add swales to city parking lot.

Impact fees. Matt - in Portland they charge vehicle fees, Ken - San Mateo wants to add traffic fee, might be sustainable streets fee. Burlingame has SW fee.

Matt will try to make progress on regional level, but need help on local funding.

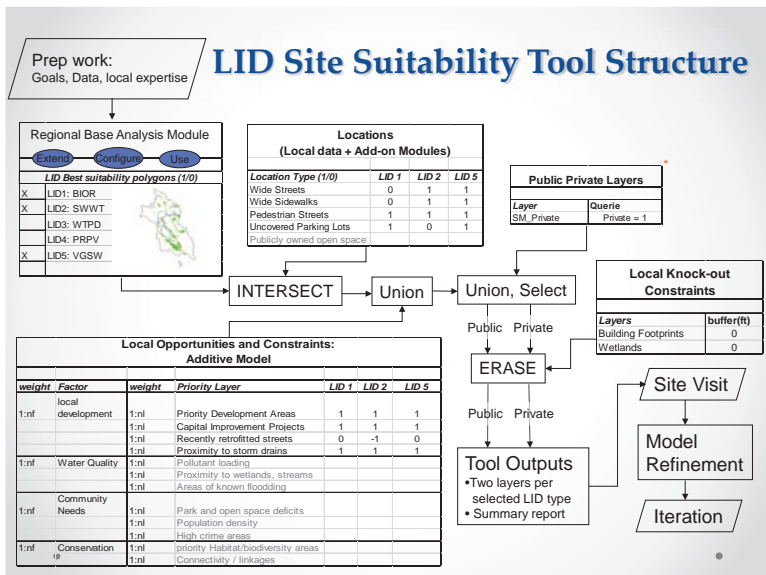
GreenPlanIT LID Site Suitability Tool San Mateo Draft Output

Pete Kauhanen, petek@sfei.org

San Mateo GreenPlanIT Meeting, 06/17/2014

Presentation Outline

- Tool Structure
- User Input Tables
- San Mateo Draft Process
 - Maps
 - Tables
- San Mateo Draft Output



User Input

- Check which LID types to run
 - Infiltration Trench*
 - Bioretention
 - Permeable Pavement
 - Vegetated Swale
 - Storm Water Wetlands
 - Wet Pond
- Configuration Data Tables
 - The scale/accuracy of input data determines the scale/accuracy of the final outputs
 - Location Layer Table
 - Opportunities and Constraints Weighted Addition Table
 - Rank layer factors to match funding opportunities and local importance
 - Public Private Layer table
 - Knock-Out Constraint Table

Base analysis table (check)

LID Selection	include	Location Analysis	Opportunities and Constraints	Ownership	Knockouts
LID1 (bior)	1	1	1	1	1
LID2	0	1	1	1	1
LID3	0	1	1	1	1
LID4	0	1	1	1	1
LID5	0	1	1	1	1
LID6	0	1	1	1	1



Location table

Full File Name	layer alias	LID 1	LID 2	LID 3	LID 4	LID 5	LID 6	Assume Public
C:\1_CleanWater\Geospatial\GIS\StringToolAnalysis\GIS\FindAnalysis.gdb\SM_Street_SidePar_101.mxd	1InStreet_SideParking	1	1/0	1/0	1/0	1/0	1/0	1
C:\1_CleanWater\Geospatial\GIS\StringToolAnalysis\GIS\FindAnalysis.gdb\SM_Street_SidePar_102.mxd	2InStreet_SideParking	1	1/0	1/0	1/0	1/0	1/0	1
C:\1_CleanWater\Geospatial\GIS\StringToolAnalysis\GIS\FindAnalysis.gdb\SM_Street_SidePar_103.mxd	4ft+_Sidewalk_Plant_Widht	1	1/0	1/0	1/0	1/0	1/0	1
C:\1_CleanWater\Geospatial\GIS\StringToolAnalysis\GIS\FindAnalysis.gdb\SM_Street_SidePar_104.mxd	8ft+_Sidewalk_Widht	1	1/0	1/0	1/0	1/0	1/0	1
C:\1_CleanWater\Geospatial\GIS\StringToolAnalysis\GIS\FindAnalysis.gdb\SM_Street_SidePar_105.mxd	Pedestrian Trails	1	1/0	1/0	1/0	1/0	1/0	0
C:\1_CleanWater\Geospatial\GIS\StringToolAnalysis\GIS\FindAnalysis.gdb\SM_Street_SidePar_106.mxd	Potential Pedestrian Trails	1	1/0	1/0	1/0	1/0	1/0	0
C:\1_CleanWater\Geospatial\GIS\StringToolAnalysis\GIS\FindAnalysis.gdb\SM_Street_SidePar_107.mxd	Parking_OSM	1	1/0	1/0	1/0	1/0	1/0	0
C:\1_CleanWater\Geospatial\GIS\StringToolAnalysis\GIS\FindAnalysis.gdb\SM_Street_SidePar_108.mxd	Parks_OSM	1	1/0	1/0	1/0	1/0	1/0	0

Location Details



- **Street-side parking**
 - 2 Lane
 - Width of street – (Width of street – 8ft on both sides)
 - Where there are at least 20ft of lane space left
 - 1 Lane
 - Width of street – (Width of street -8ft on one side)
 - Where there is at least 10ft of lane space left
- **Wide Sidewalk**
 - Sidewalk width \geq 8ft
- **Wide Sidewalk Planter**
 - Planter width \geq 4ft

Location Details



- **OSM Parks**
 - Open Street Maps
 - Free, Bay Wide
 - Not exhaustive
- **Pedestrian Trails**
 - Trail line buffered 4 ft (Bior width?)

Location Details



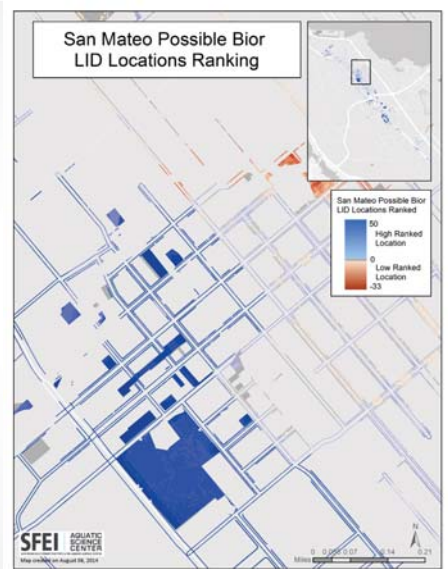
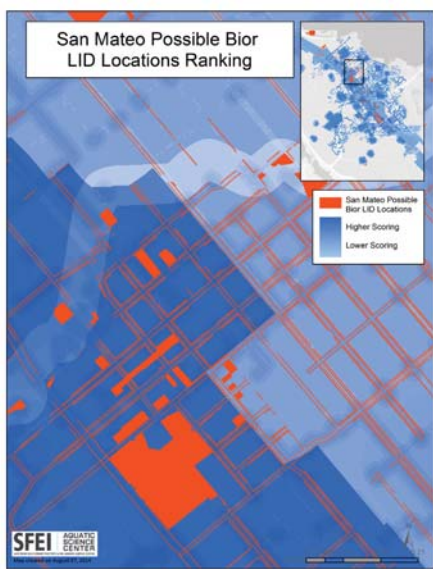
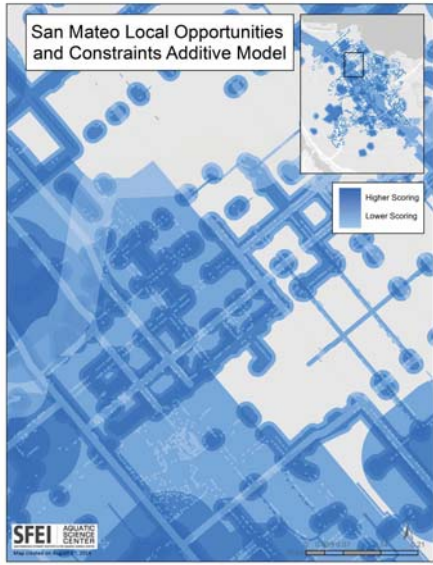
- **OSM Parking**
 - Open Street Maps
 - Free, Bay Wide
 - Not exhaustive
 - Not high quality everywhere
 - Includes parking structures
 - Building foot prints?





Opportunities and Constraints Table

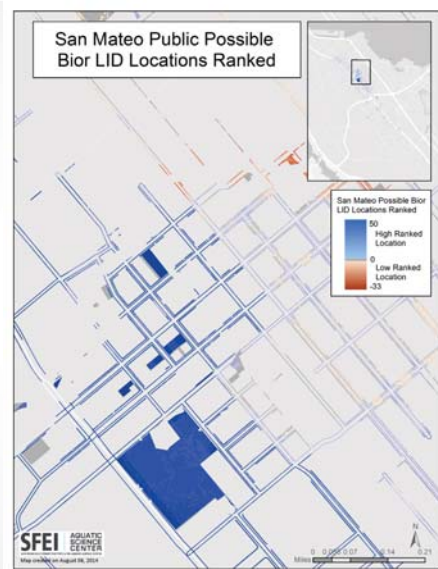
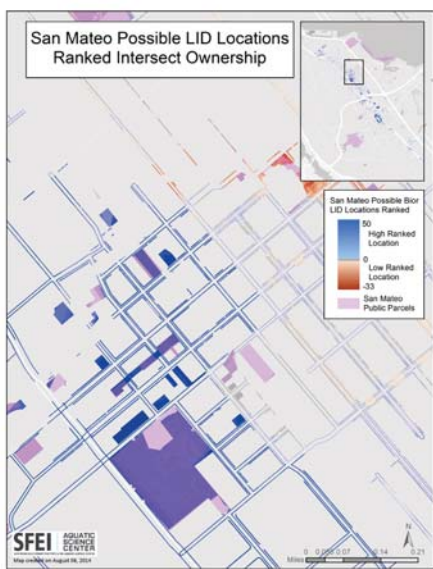
factor_weight	factor_name_alias (10 char)	factor	layer_weight	layer_name_alias (10 char)	layer_name	layer_filename	layername_identifier	layer_query	buffer_type	lid_rank	lid_buffer_ft
1/3	LocDev	local development	1	BayPDA	priority development areas	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\BayPDA_Priority_Development_Areas.shp	Priority_Development_Areas_current.shp		Full	1	0
1/6	IntllFeas	Install Feasibility	0.25	StrmLn60	Storm Line 60ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\StormLine\StrmLn60.shp	SD_STORMLINES.shp		Full	1	60(ft)
				StrmLn100	Storm Line 100ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\StormLine\StrmLn100.shp	SD_STORMLINES.shp		Full	1	100(ft)
				StTree12	Street Trees 12ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\StreetTrees\StTree12.shp	PARKS_STREET_TREES.shp		Full	-1	12(ft)
				StLi5	Street Lights 5ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\StreetLights\StLi5.shp	STREETLIGHTS.shp		Full	-1	5(ft)
1/6	wtrQual	water quality	1	Strm200	Streams 200ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\Streams\Strm200.shp	STREAMS.shp		Full	-1	200(ft)
1/6	ComNds	community needs	0.25	Bike15	Regional Bike Facilities	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\BikeFacilities\Bike15.shp	Regional_Bike_Facilities_Bike15.shp		Full	1	15(ft)
				DmgSt	Damaged Streets	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\DamagedStreets\DmgSt.shp	SM_StreetIntersectWithTable.shp		Full	1	halfWIDT 1 H
				DmgSdwlk	Damaged Sidewalk	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\DamagedSidewalk\DmgSdwlk.shp	SIDEWALKS.shp		n/a	1	0
				Firelns36	Fire Running Lanes 36ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\FireRunningLanes\Firelns36.shp	FD_FIRE_RUNNING_LANES.shp		Full	-1	36(ft)
				Lks300	Lakes 300ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\Lakes\Lks300.shp	LAKES.shp		Full	-1	300ft(ft)
1/12	ComVis	conservation community visibility	0.25	School200	Schools 200ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\Schools\School200.shp	DOT_SCHOOLS.shp		Full	1	200(ft)
				School500	Schools 500ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\Schools\School500.shp	DOT_SCHOOLS.shp		Full	1	500(ft)
				Lib200	Libraries 200ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\Libraries\Lib200.shp	DOT_LIBRARIES.shp		Full	1	200(ft)
				Lib500	Libraries 500ft	G:\1_CleanWater_GrowthPlan_ID\GIS\GIS\Libraries\Lib500.shp	DOT_LIBRARIES.shp		Full	1	500(ft)

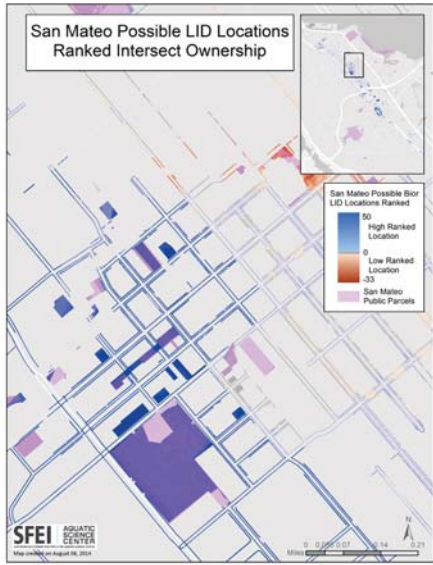


Public Table

Layer Location	Layer Name	Ownership field	public value	Public queried
C:\L_ChesterWater\Geoserver\1_Data\SunMateo\arcgis\arcgis\2014\08\21\SM_PublicParcels\CSML_PUBLIC\City_parcel_public.mxd	City_parcel_public	public	1	

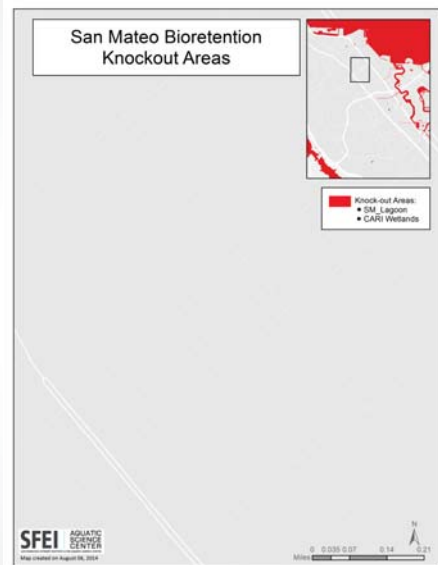
If Public query is false – then use ownership field and public value

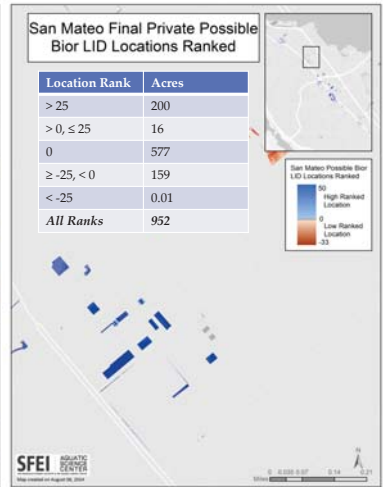
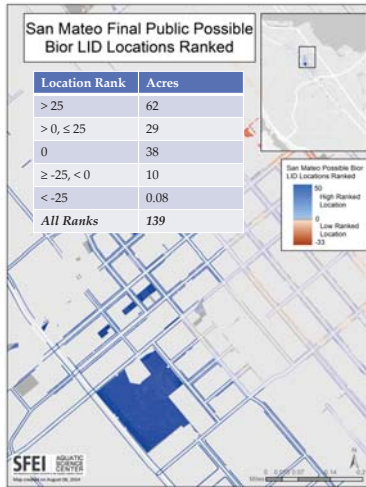
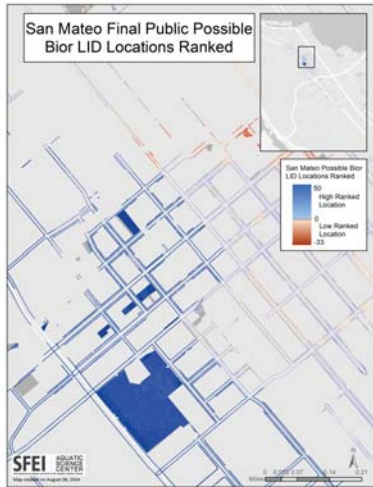




Knockout Table

Full_File Name	layer alias	LID 1	LID 2	LID 3	LID 4	LID 5	LID 6
C:\L_ChamWater\Genesys\p\1_Data\SM_Coastal.aprx FILE_CARI_PublicVeg.aprx	CARI Wetlands	1	1/0	1/0	1/0	1/0	1/0
C:\L_ChamWater\Genesys\p\1_Data\SanMateoData2018\0125_San_Mateo\A_CGI.aprx\BAY_LAGOON.apr	SM_Lagoon	1	1/0	1/0	1/0	1/0	1/0
Path	Building Footprints	0	1/0	1/0	1/0	1/0	1/0





Discussion

- Group to fill out Opportunities and Constraints Table for San Mateo
 - In person or web-ex
 - Possibly a few hours to complete
- Sustainable Streets Plan
- Layers that rank differently in different areas or for different attributes
 - Ex: Different buffers for different diameters of storm drain pipe?

Thank You!

- Please email or call with additional feedback

Stormwater Management Alternative Compliance Framework

- Project Deliverables:**
- 1) Alternative Compliance Framework
 - 2) Memorandum describing program
 - 3) Case study/progress of program development (Final Report)

Alternative Compliance (aka "Off-site Mitigation") = provision offered by municipality allowing developers to meet new & redevelopment sw mgmnt requirements off-site of a project. This option provides flexibility to developer (where on-site sw controls are infeasible or limited), and potentially leads to net environmental benefits above those achievable on-site.

MRP parameters for AC programs:

Provision C.3.e.: Permittees may allow a Regulated Project to provide **alternative compliance** with Provision C.3.c , where LID treatment of Stormwater runoff not treated on site may be provided at either:

Option 1: An Offsite Location

Treat the remaining portion of the Provision C.3.d runoff with LID treatment measures at an offsite project **in the same watershed**. The offsite LID treatment measures must provide hydraulically-sized treatment (in accordance with Provision C.3.d) of an equivalent **quantity** of **both stormwater runoff and pollutant loading** and achieve a **net environmental benefit**.

Offsite Projects:

- Must be constructed by the end of construction of the Regulated Project.
- Or for each additional year, up to three years, after the construction of the Regulated Project, the offsite project must provide an additional 10% of the calculated equivalent quantity of both stormwater runoff and pollutant loading.

Option 2: A Regional Project¹ with an in-lieu fee² contribution

Pay equivalent in-lieu fees to treat the remaining portion of the Provision C.3.d runoff with LID treatment measures at a Regional Project. The Regional Project must discharge into the **same watershed** as the Regulated Project and must achieve a **net environmental benefit**.

Regional Projects:

- Must be completed within three years after the end of construction of the Regulated Project
- Or up to five years with Executive Officer approval.

¹ **Regional Project:** A regional or municipal stormwater treatment facility that discharges into the same watershed as the Regulated project does

² **In-lieu Fee:** "Monetary amount necessary to provide both hydraulically-sized treatment (in accordance with Provision C.3.d) with **LID treatment** measures of an equivalent **quantity** of stormwater runoff and **pollutant loading**, and a proportional share of the **operation and maintenance** costs of the Regional Project."

Regulated Project Compliance Hierarchy/Options (taken from West Virginia program)

- 1) On-site Compliance – Developer designs & installs required sw controls on-site.

Muni Role	Developer Role
<ul style="list-style-type: none"> • reviews and approves developer compliance • conduct tracking and reporting 	<ul style="list-style-type: none"> • demonstrate full compliance on-site

- 2) Developer-driven Off-site Mitigation (private/private) – use off-site project to fulfill entire runoff/pollutant reduction volume or remaining volume after partial on-site management.

Muni Role	Developer Role
<ul style="list-style-type: none"> • verify on-site infeasibility • review on-site & off-site plans • inspect installation • verify on/off-site LT maintenance practices • conduct tracking and reporting 	<ul style="list-style-type: none"> • must document infeasibility • ID locations for off-site • prepare plans, • secure property rights • construction • maintenance

- 3) Muni-facilitated (Regional) Off-Site Mitigation (private/public) – developer builds off-site project on public land (right of way or environmentally sensitive area) at site(s) suggested/determined by muni.

Muni Role	Developer Role
<ul style="list-style-type: none"> • verify on-site infeasibility • IDs priority areas & potential projects • works with developer to select site (meeting community-watershed goals) • review on-site & off-site plans • may assist with securing property rights, approvals, permits • inspect installation • verify on/off-site LT maintenance practices • conduct tracking and reporting 	<ul style="list-style-type: none"> • must document infeasibility • ID locations for off-site • prepare plans • secure property rights • construction • maintenance

- 4) Payment In-Lieu (private/public) – developer pays fee to cover cost of muni implementing project off-site in the public right-of-way or on municipal property.

Muni Role	Developer Role
<ul style="list-style-type: none"> • IDs priority areas and potential projects, • sets payment in lieu rate • assess and collect fee from developer • plan off-site project • construct off-site project • maintain off-site project • administer In-Lieu program • conduct tracking and reporting 	<ul style="list-style-type: none"> • documents on-site infeasibility • pays in-lieu fee

Alternative Compliance Program Establishment Needs

- ID Municipal preference (or hierarchy) for AC program options (off-site, regional, in lieu)
- List of Opportunity sites (Green Plan-IT, watershed plans, CIP plans, or other structure to define implementation objectives of program)
- ID internal administrative costs to muni
 - Permits
 - Design review
 - Inspections
 - Reporting
- Modify existing SW Ordinance to codify/authorize program
- Develop rates for In Lieu program
 - Internal/administrative costs
 - Site selection/planning cost
 - Design, engineering cost
 - Operations & Maintenance

San Mateo GreenPlan Meeting

A G E N D A

8-12-14

9:30 am

**San Mateo City
Hall**

- Welcomes and Introductions
- SFEI presentation of San Mateo GreenPlan-IT “outputs”
- Questions/methodology discussion/comments on the outputs & GreenPlan-IT based upon the outputs
- Next steps
 - Getting outputs in Sustainable Streets Plan
 - Site verification
 - Conceptual design of sites
- Adjourn