

What are Opportunities for Green Infrastructure?

SCVURPPP

Green Infrastructure Workshop

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Presentation Overview

- Common Types of GI Opportunities
- Missed Opportunities in Redevelopment
- Summary

Common Types of GI Opportunities

Types of Retrofit Projects

1. Road Diet
2. Bike/Ped Facilities & Safe Routes to School (SRTS)
3. Pavement Reconstruction
4. Street Beautification
5. Tree Planting
6. Park/Landscaping Retrofit
7. Drainage Reconstruction
8. Parking Lots
9. Buildings

1.a Road Diet - Colma: Before



Two travel lanes in each direction, sidewalk only one side, no on-street parking and no cross-walks.

1.b Road Diet – Colma: After



New bike & parking lanes, sidewalks on both sides, mid-block crossing with RRFB & green bulb-outs.

2.a SRTS – San Mateo: Before



No cross-walk and long crossing distance.

2.b SRTS – San Mateo: After



Cross-walk w/ shorter crossing, protection & green bulb-out

3.a Reconstruction - Campbell: Before



Excess roadway width and poor pavement condition.

3.b Reconstruction - Campbell: After



Bioretention areas, new trees and more soil volume.

3.c Reconstruction - Berkeley: Before



Poor pavement quality and new water line needed.

3.d Reconstruction - Berkeley: After



New water line & permeable interlocking concrete pavers.

4.a Beautification - Burlingame: Before



Poor pavement, landscaping and sidewalk quality & aesthetics.

4.b Beautification - Burlingame: After



New crosswalks, lights, curb extensions, pavement & trees.

5.a Tree Planting – El Cerrito: Before



Surplus pavement with no trees.

5.b Tree Planting – El Cerrito: After



New trees with biotreatment.

6.a Parks - Berkeley: Before



City park – aesthetic landscaping with high maintenance

6.b Parks - Berkeley: After



New bioretention area for roadway run-off and low maint.

6.c Landscaping – Berkeley: Before



Traffic circle with mounded planting – aesthetics only

6.d Landscaping – Berkeley: After



Lowered planting provides biotreatment and reduced maint.

7.a Drainage - San Jose: Before



Poor pavement condition and drainage issues.

7.b Drainage - San Jose: After



New pavement with pervious pavers over infiltration trench.

8.a Building – Palo Alto: Before



High maintenance aesthetics-only landscaping

8.b Building – Palo Alto: After



New building with green roof, bioretention, pervious pavers

9.a Parking Lot - Cupertino: Before



Poor pavement condition and aesthetics.

9.b Parking Lot - Cupertino: After



New pavement with pervious grid cells and trees.

Missed Opportunities in Redevelopment Projects

Tree Planting – El Cerrito



Bulb out with no biotreatment and low soil volume.

Tree Planting – Redwood City



New trees in bulb-outs w/ no biotreatment & low soil volume.

Striped red zone – Redwood City



Possible location for a stormwater curb extension?

Various Opportunities



Possible locations for stormwater curb extensions?

Summary

- Street and sidewalk projects often contain opportunities for GI implementation especially where there is excess roadway area or sidewalk area, significant adjacent landscaping or where the curb is being extended into the roadway.
- Retrofits of parks, parking lots and buildings can offer significant opportunities.
- Tree planting can be redesigned to provide GI.
- Redevelopment projects can be leveraged to make GI improvements.

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