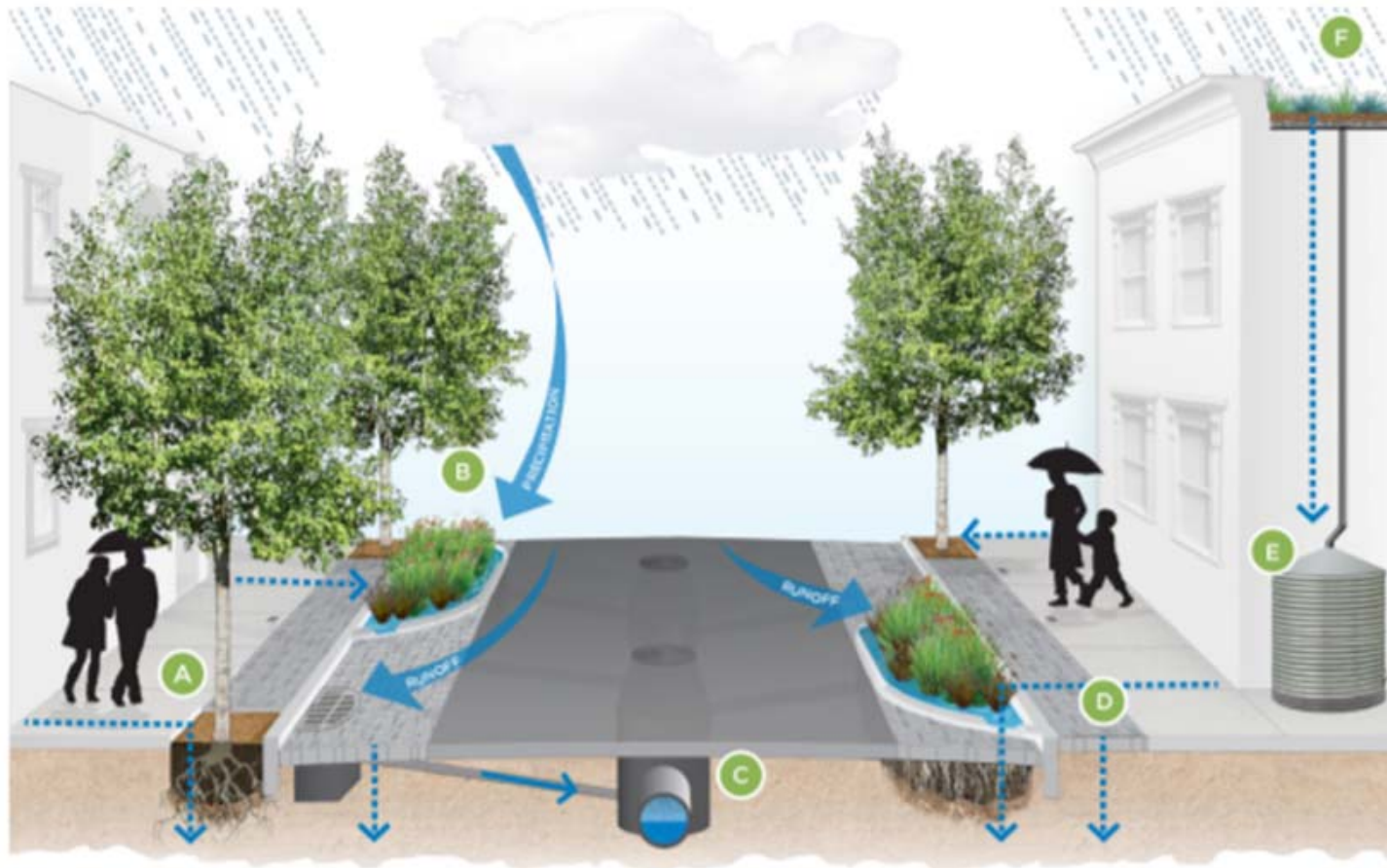

GREEN INFRASTRUCTURE PLAN FRAMEWORK

CITY COUNCIL MEETING – JUNE 20, 2017



WHAT IS GREEN INFRASTRUCTURE?



(A) street trees with flow through planters (B) rain gardens (C) upgraded sewer pipes
(D) permeable pavement (E) cisterns (F) vegetated roofs

SAN FRANCISCO SEWER SYSTEM IMPROVEMENT PROGRAM

Grey.



**SYSTEM AND SEISMIC
RELIABILITY &
REDUNDANCY**

Green.



**INNOVATIVE
STORMWATER
MANAGEMENT SOLUTIONS**

Clean.



**PROTECTING PUBLIC HEALTH
& THE ENVIRONMENT**

Image credit: SFPUC

EXAMPLES OF GREEN INFRASTRUCTURE



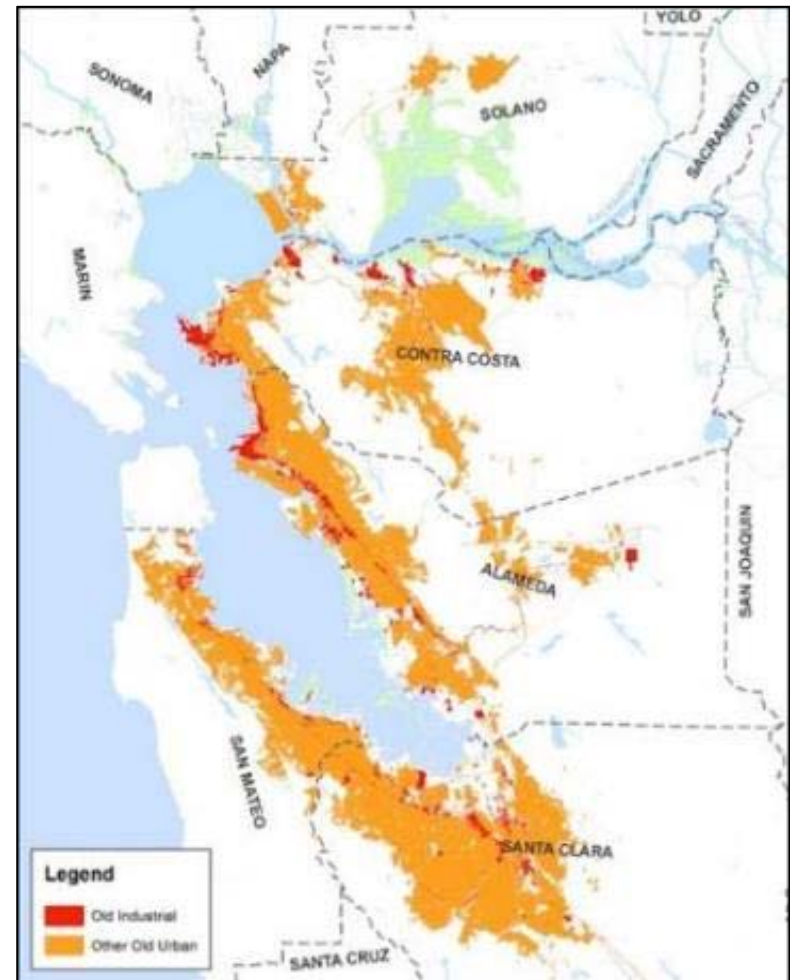
BENEFITS OF GREEN INFRASTRUCTURE

- Reduce flow of stormwater
- Remove pollutants
- Urban greening
- Traffic calming
- Improved bike and pedestrian safety
- Climate benefits
- Increased property values



WATER QUALITY DRIVERS

- SF Bay Impaired by PCBs and Mercury
 - Control PCBs and mercury
 - Quantities of PCBs and mercury discharged to the Bay must be reduced to specified levels by 2040
 - Green Infrastructure can transform cityscape over decades



High PCB Concentrations in Sediments

STORMWATER PERMIT REQUIREMENTS

Multiple Programs to Address PCBs and Mercury

- Identify and refer known sources to regulatory agencies
- PCBs in Caulk and Building Materials
- Green Infrastructure Plan
 - Plan due July 2019
 - Framework approved by June 30, 2017
 - Screen Capital Projects for potential to incorporate Green Infrastructure

SEWER SYSTEM IMPROVEMENT PROGRAM: PHASE I PROJECTS

- Citywide Collection System Projects**
- Advanced Rainfall Prediction
 - Collection System Interceptors and Odor Control
 - Pump Station Upgrades and Force Main Improvements
 - Combined Sewer Discharge Structure (CSD) Improvements



WESTSIDE

- LEGEND**
- Treatment Facilities
 - Major Pump Stations
 - Transport/Storage Structures
 - Tunnels
 - Major Roads
 - Pipeline
 - Watershed Boundaries
 - Deep Water Outfalls
 - Green Infrastructure Projects
- (Map not to scale)

GREEN INFRASTRUCTURE PLAN EXAMPLES



SUSTAINABLE
STREETS
CITY OF SAN MATEO

GREEN INFRASTRUCTURE PLAN FRAMEWORK

- Provides background and context
- Identifies interdepartmental team
- Describes purpose, goals, and major tasks
- Presents Two-Year Schedule



SCHEDULE OF MAJOR TASKS

Task	Responsibility	2017		2018				2019	
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Research and Review Regional Resources and Tools	ESD, DPW, CDD								
Review of City Plans for updates to facilitate GI	ESD, DPW, CDD								
GI Project Identification	ESD, DPW								
Review and Update of City Standards	ESD, DPW, Consultants								
Financing Strategy	ESD, Fin, DPW, CAO, OCM								
Review and Update Legal Authority (Muni Code, City policies, etc)	ESD, CAO, OCM								
Draft and Finalize GI Plan	ESD, DPW, CDD								

REVIEW SCHEDULE

Task	Timing
Green Infrastructure Plan Development	2017 through 2018
Administrative Draft	Fall 2018
Draft Released for Public Comment	Spring 2019
Sustainability Commission Review	April 2019
City Council Study Session	April 2019
City Council Adoption	May 2019

RECOMMENDATION



- Approval of the Green Infrastructure Plan Framework as presented by staff