

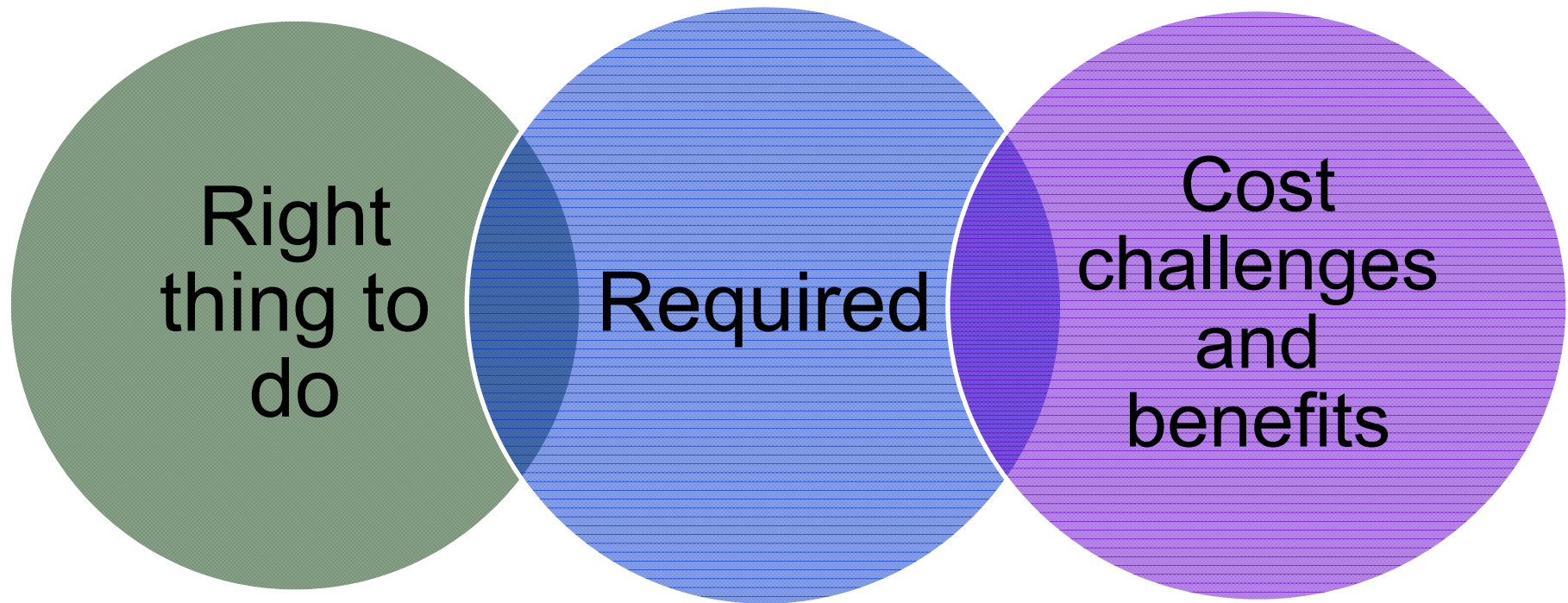
Green Infrastructure Planning in Bay Area Cities

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March 28, 2017



Widespread Green Infrastructure and Sustainable Streets Needed



MRP Requirements for Green Infrastructure

- 💧 Green Infrastructure Planning and Implementation (C.3.j)
- 💧 Mercury Controls (C.11)
- 💧 PCBs Controls (C.12)



GI Planning and Implementation

Framework or workplan for Plan

- “Decision maker(s)” approval - June 2017

Green Infrastructure Plan

- Submit w/ Sep 2019 Annual Report

Can serve as Storm Water Resources Plan required for grant funding

Mercury Control

82 kg/yr
regionwide
wasteload
allocation

- 2003 load estimate
≈160 kg/yr
- 2015 load estimate
≈115 kg/yr

≈ 25 percent load reduction

Mercury Control by 2020 via Green Infrastructure

- 💧 48 g/yr load reduction
- 💧 Plan for load reductions with estimates for 2030 and 2040
 - 🐟 At least 10 kg/yr by 2040



PCBs Control

2 kg/yr
regionwide
wasteload
allocation

- 2003 load estimate
≈ 20 kg/yr

≈ 90 percent load reduction

PCBs Control by 2020 via Green Infrastructure

- 💧 120 g/yr load reduction
- 💧 Plan for load reductions with estimates for 2030 and 2040
 - 🐟 At least 3 kg/yr by 2040

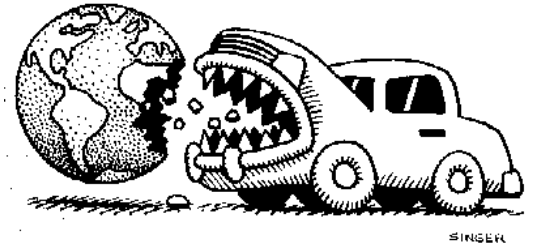


Other Green Infrastructure and Sustainable Streets Drivers

Reduce pollutant load due to directly connected impervious surfaces

💧 Transportation vehicle pollutants

- Copper, PAHs, zinc



💧 Other atmospheric deposition pollutants

💧 Pesticides

💧 Other contaminants of emerging concern

💧 Trash

Other Green Infrastructure and Sustainable Streets Drivers

- 💧 Hydromodification management
- 💧 Aging infrastructure
- 💧 Climate change and sea level rise adaptation and resiliency



Green Infrastructure \Leftrightarrow Design and Operation of Roadways

- 💧 Streets and roads are part of storm drain system
- 💧 Integrate **vs competing** capital improvement needs and costs
- 💧 Integrate **vs competing** O&M needs and costs



Bay Area \$\$\$\$

Assessed property value \approx \$1.5 trillion

Bay Area GDP \approx \$500 billion/yr

Wastewater management \approx \$1 billion/yr

Urban runoff management $<$ \$100 million/yr

Transportation Improvement Program \approx \$7 billion/4yr

GI \Leftrightarrow Roadway Funding

Communicate up via “decision maker(s)” approval of GI framework

- Get them to engage MTC

Account for integration in all funding initiatives

- Local, regional, and statewide ballot measures