This presentation premiered at WaterSmart Innovations

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Identifying Water Use Efficiency Opportunities for Large Landscapes with GIS

WaterSmart Innovations Conference October 2-4, 2013 Las Vegas, Nevada



Metropolitan Water District of Southern California

 Regional water wholesaler to 6 counties, 19 million people over 5,200 sq mi

Growth: ~170,000 people/yr

\$1 trillion regional economy

 ~50% of region's retail water supply Metropolitan Water District Service Area LASTERN

UNITED STATES

26 member agencies

Sources of Water for Southern California Sierra Nevada Mtns / Lake Oroville Delta LA Aqueduct (Local) **State Water** Aqueduct **Colorado River** Project Aqueduct Colorado ~30% of supplies Aqueduc 25% of supplies River Aqueduct Local ~45% of supplies

Average Rainfall = 15 inches per year

"20 x 2020" 2009 Water Conservation Act: SBX7 -7

State mandate to reduce urban per capita water use 20% by 2020

Achieve through conservation & recycled water use



Helping Large Landscapes Improve Water Use Efficiency

Landscape surveys
Rebates for irrigation equipment
Water Savings Incentive Program for customized projects
Recycled water hookups



Irrigation Equipment Incentives

"Smart" controllers & central systems High efficiency rotary sprinkler nozzles Large high efficiency nozzles **Sprinkler flow regulators** Soil moisture sensors Turf removal **Active landscape management**



Goals

 Identify and catalog Large Landscape sites
 Overlay Metropolitan's past participation data (sites that have received incentives to retrofit water-conserving landscape equipment)

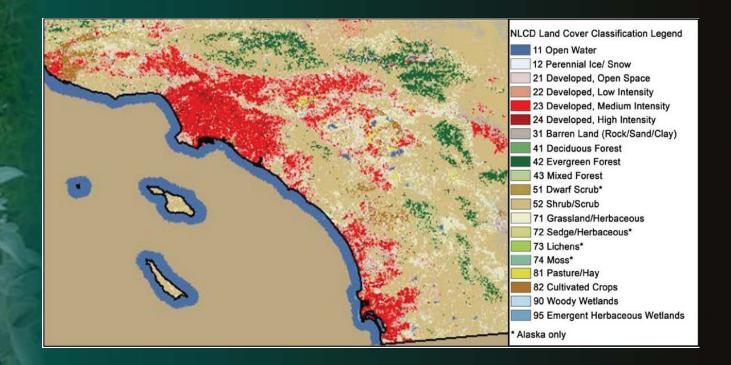
Update Metropolitan's recycled water infrastructure data

Obtain water treatment plant production data

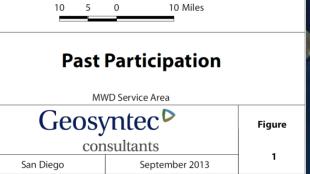


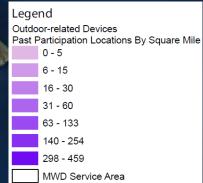
Large Landscapes

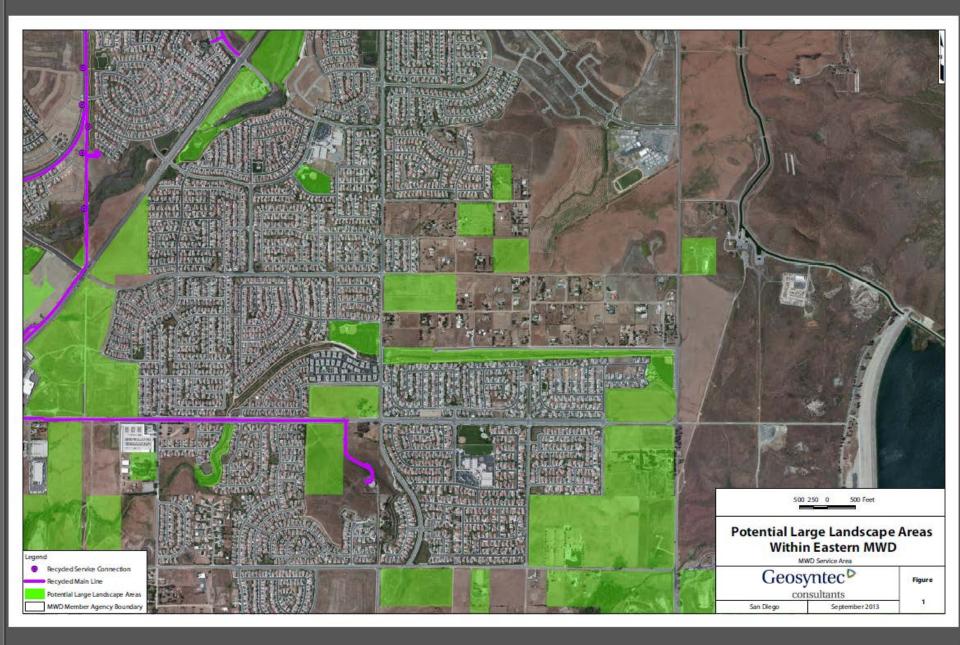
≥ 5 acres
 Actively irrigated
 Public or private
 Within Metropolitan's service area



sing The Results: Conservation Identify saturated areas & potential target areas Modify marketing and outreach strategies Collaborate with retail water purveyors, manufacturers, distributors, and resellers Consider adding / removing device or technology incentives









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