



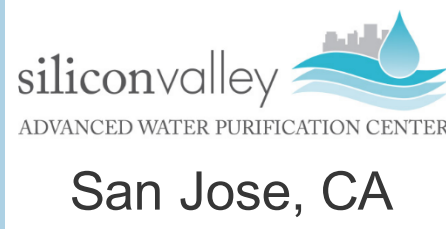
Silicon Valley Advanced Water Purification Center (SVAWPC)

Tour Guide: Paolo Baltar
Tour Coordinator: Marcos Gutierrez

Tuesday, 5 June 2018

Location

San Francisco, CA



Santa Clara Valley
Water District

15 cities

2,000,000 people

4 wastewater treatment plants

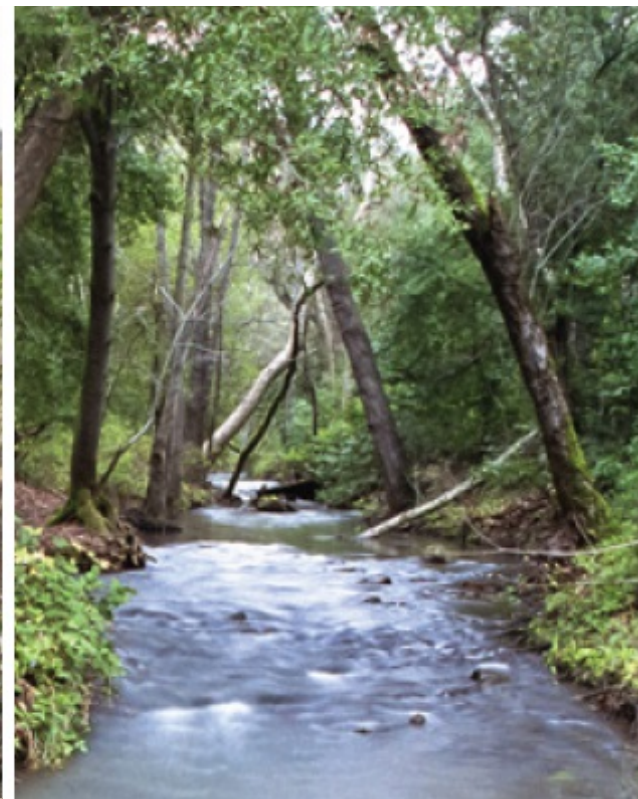
Services



Water Supply



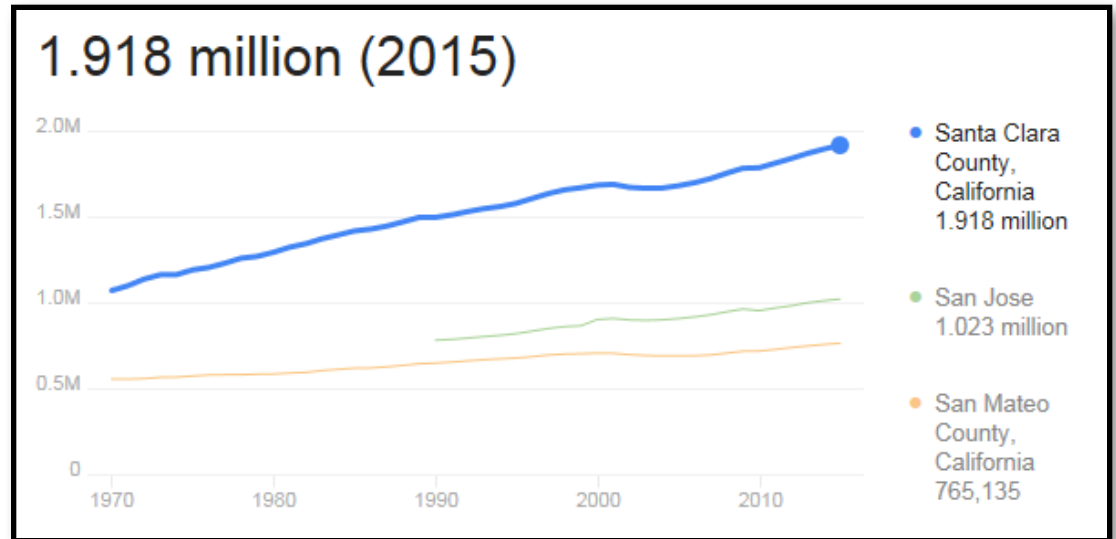
Flood Protection



**Environmental
Protection**

Challenges

Population



Drought



Current Supplies



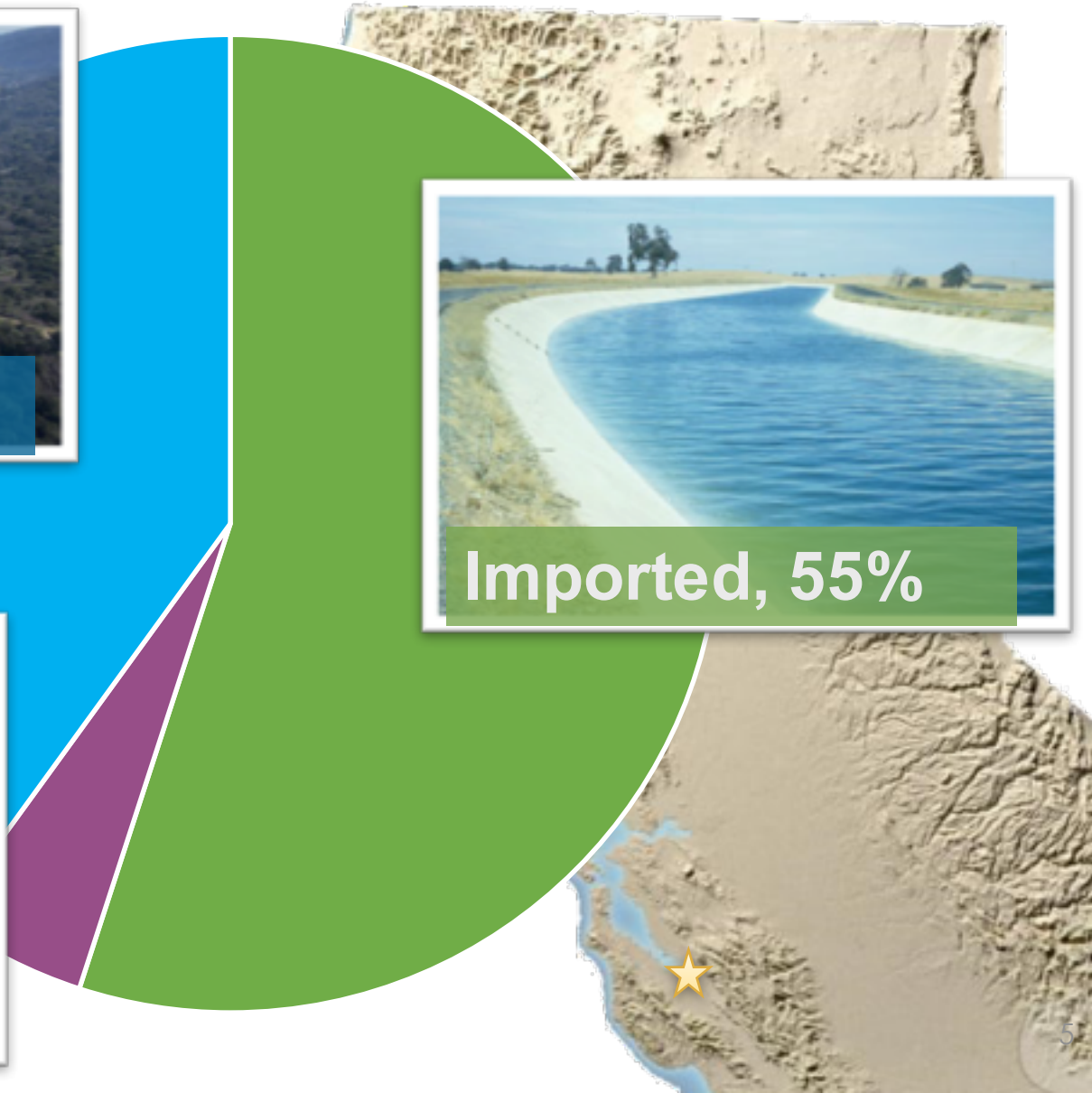
Local, 40%



Imported, 55%



Recycled, 5%



Future Goal



Recycled, >10%



Conventional Processes

influent

Incoming wastewater

waste
water



primary

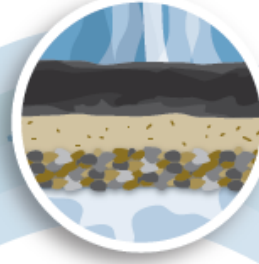
Physical Stage

secondary

Biological Stage

tertiary

Filtration Stage



Advanced Processes

1. Microfiltration



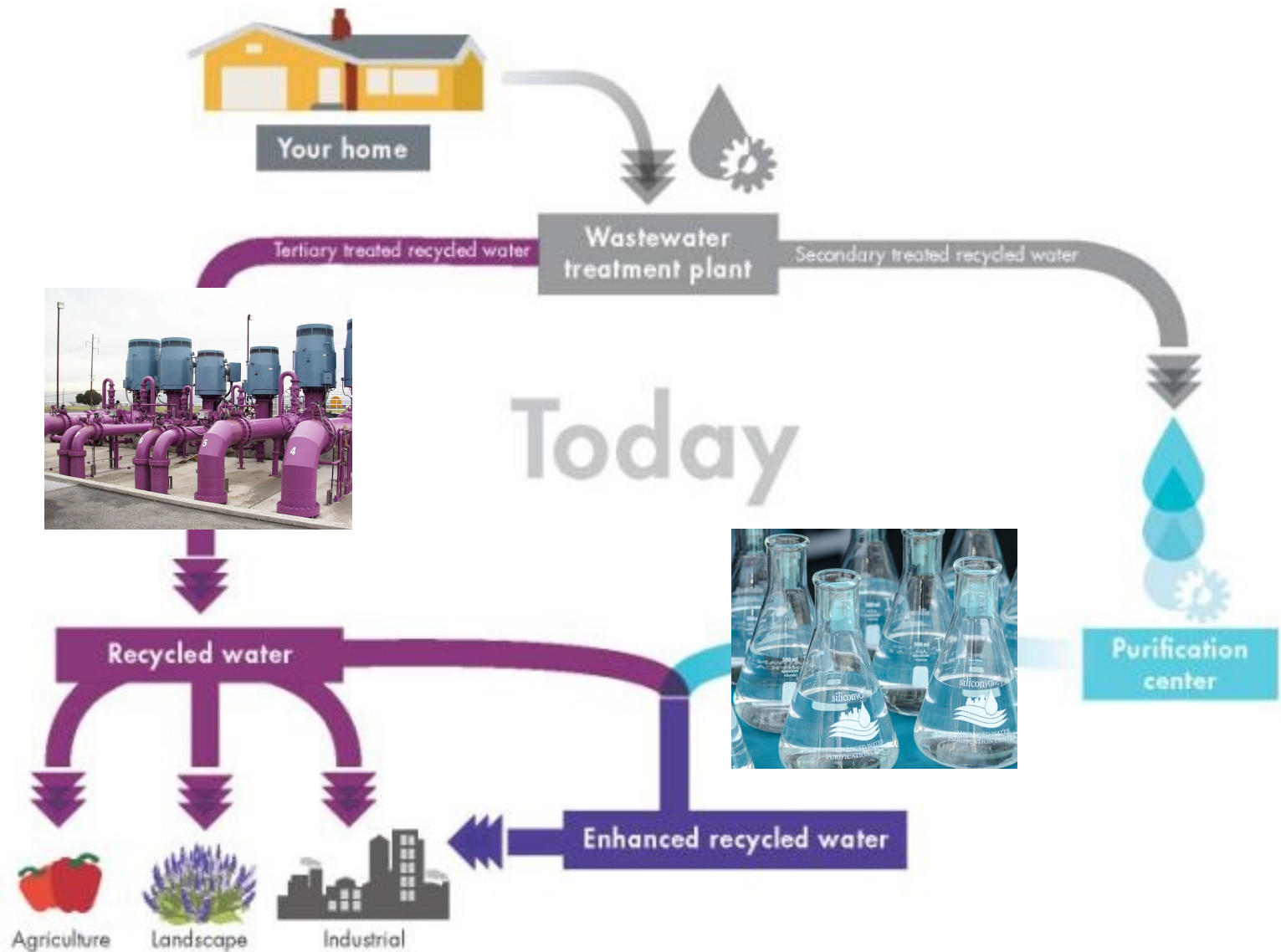
2. Reverse Osmosis



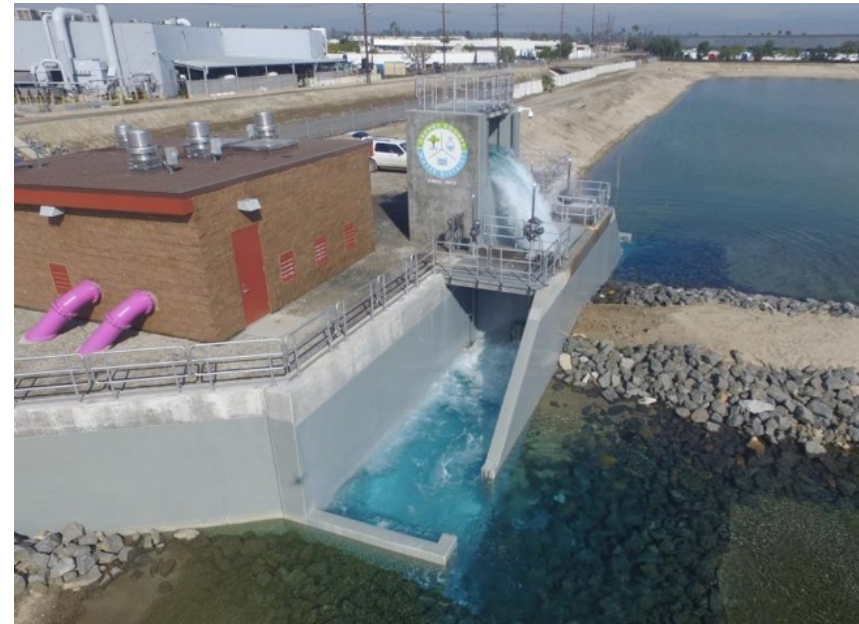
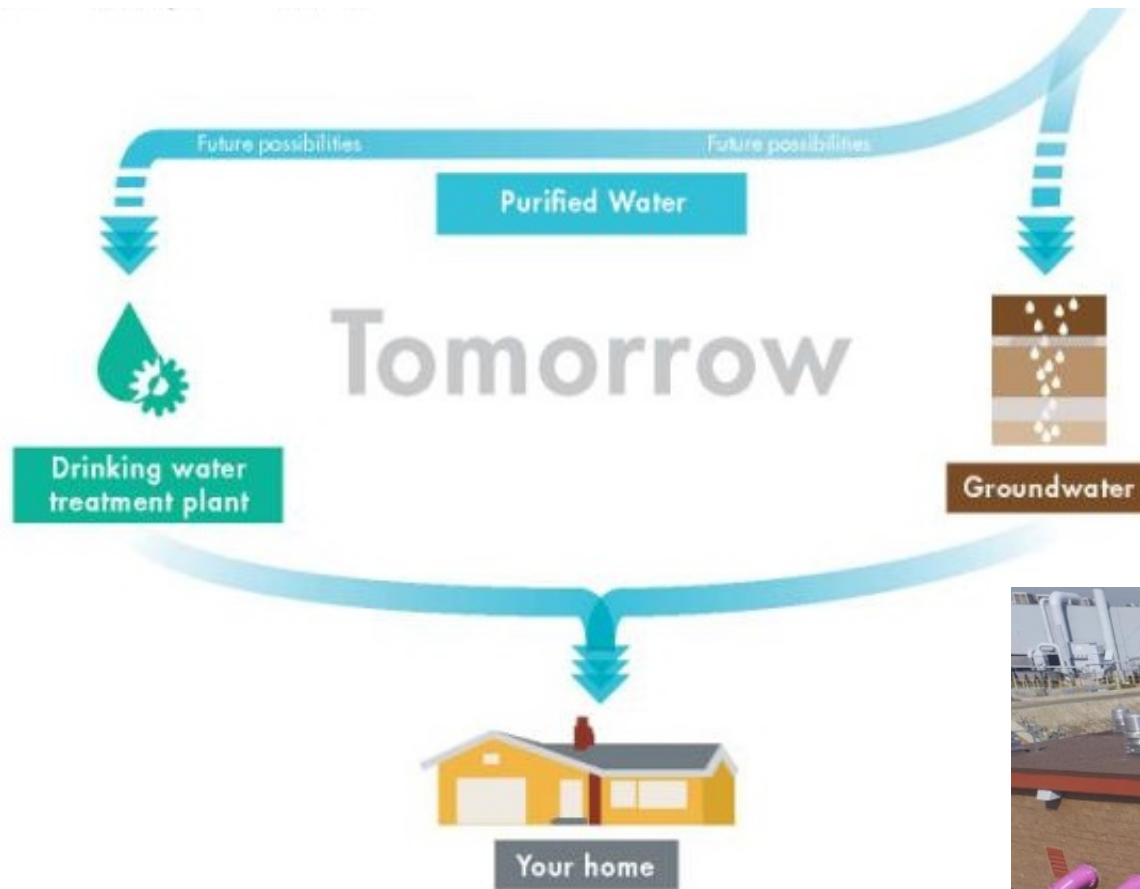
3. Ultraviolet Light



Current Uses



Future Uses

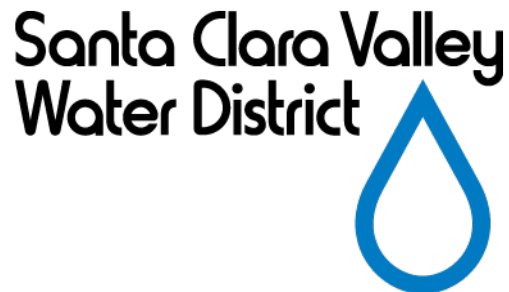


siliconvalley



ADVANCED WATER PURIFICATION CENTER

Thank You



Visit: www.purewater4u.org

Email: info@purewater4u.org

Santa Clara Valley Water District



Costs

SVAWPC #91184008 c. 2014 = 73,731,090 USD (276.000.000 BRL)

Planning = \$2,320,090 USD

Design = \$3,203,190 USD

Construction Phase = \$15,413,580 USD

Construction Hard Costs = \$52,794,230 USD

SVAWPC Water Line Modifications c. 2016 = 1,887,400 USD (7.000.000 BRL)

Planning and Design = \$364,500 USD

Construction Phase = \$635,300 USD

Construction Hard Costs = \$887,600 USD

External Funding c. 2014 = 22,045,000 USD (80.000.000 BRL)

USBR ARRA (Federal) = \$8,125,000 USD

Prop 50 (State) = \$2,935,000

Prop 84 (State) = \$2,485,000

San Jose (Local) = \$8,500,000

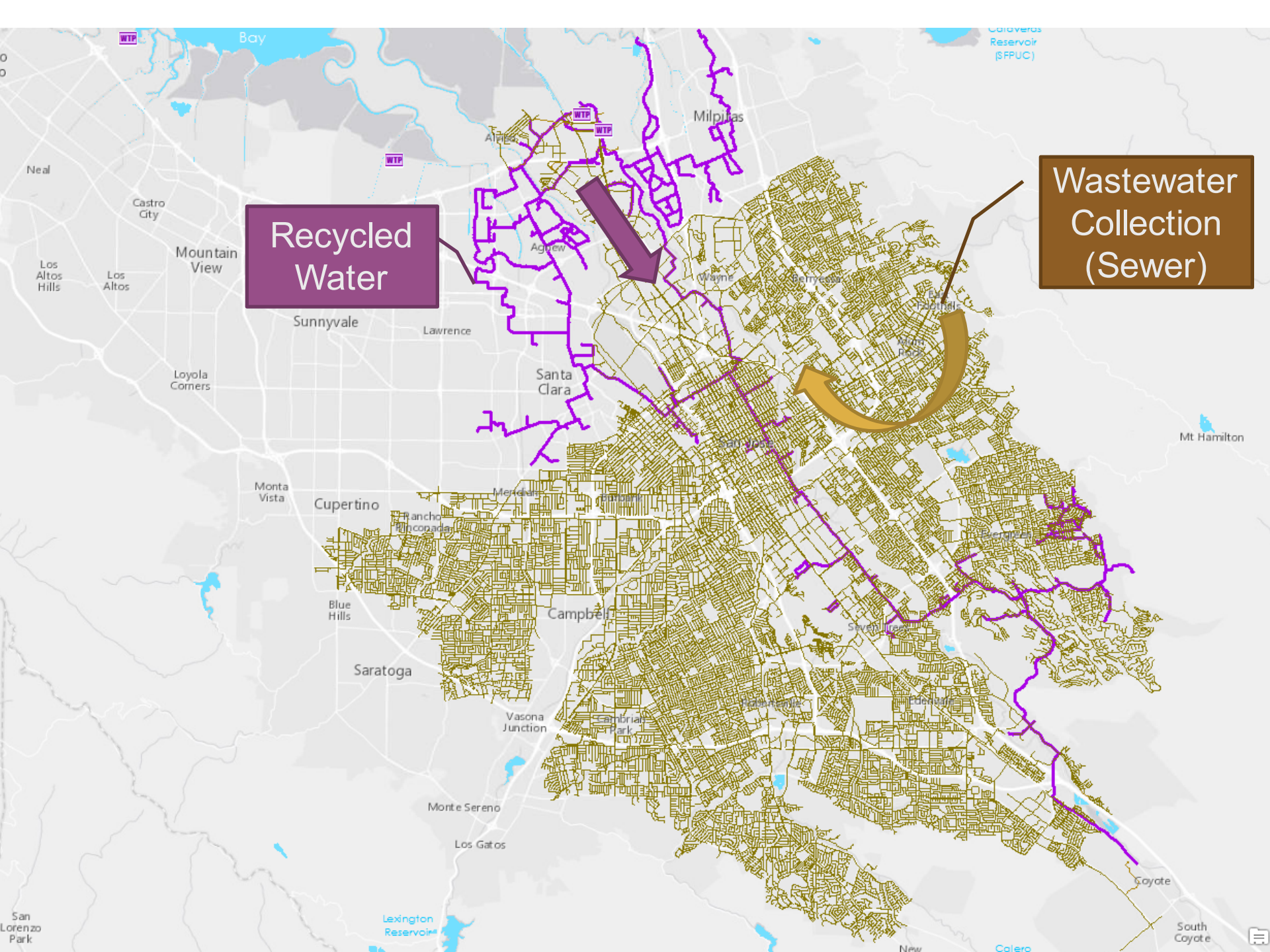
SVAWPC Annual O&M Budget c. 2018 = 4,163,652 USD (16.000.000 BRL)

Energy = \$629,000

Chemicals = \$400,000

Labor = \$2,390,652

Services and Supplies = \$744,000



Recycled
Water

Wastewater
Collection
(Sewer)