

# Recycled Water Basics

20 March 2012  
Assembly Committee on  
Water, Parks & Wildlife



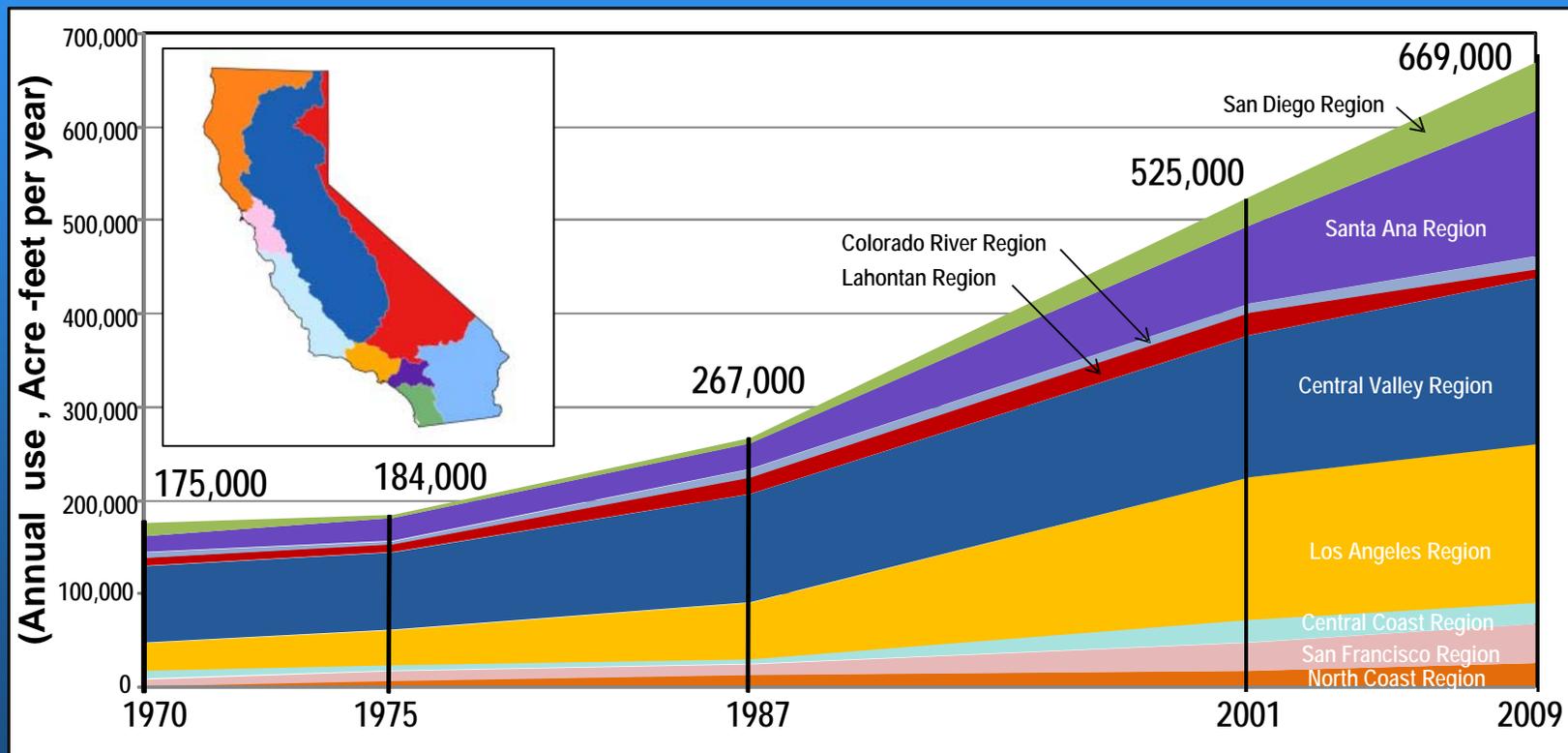
**Richard A. Mills**  
Water Recycling and Desalination Section  
California Department of Water Resources

# Recycled Water – Synopsis of Legal Definition

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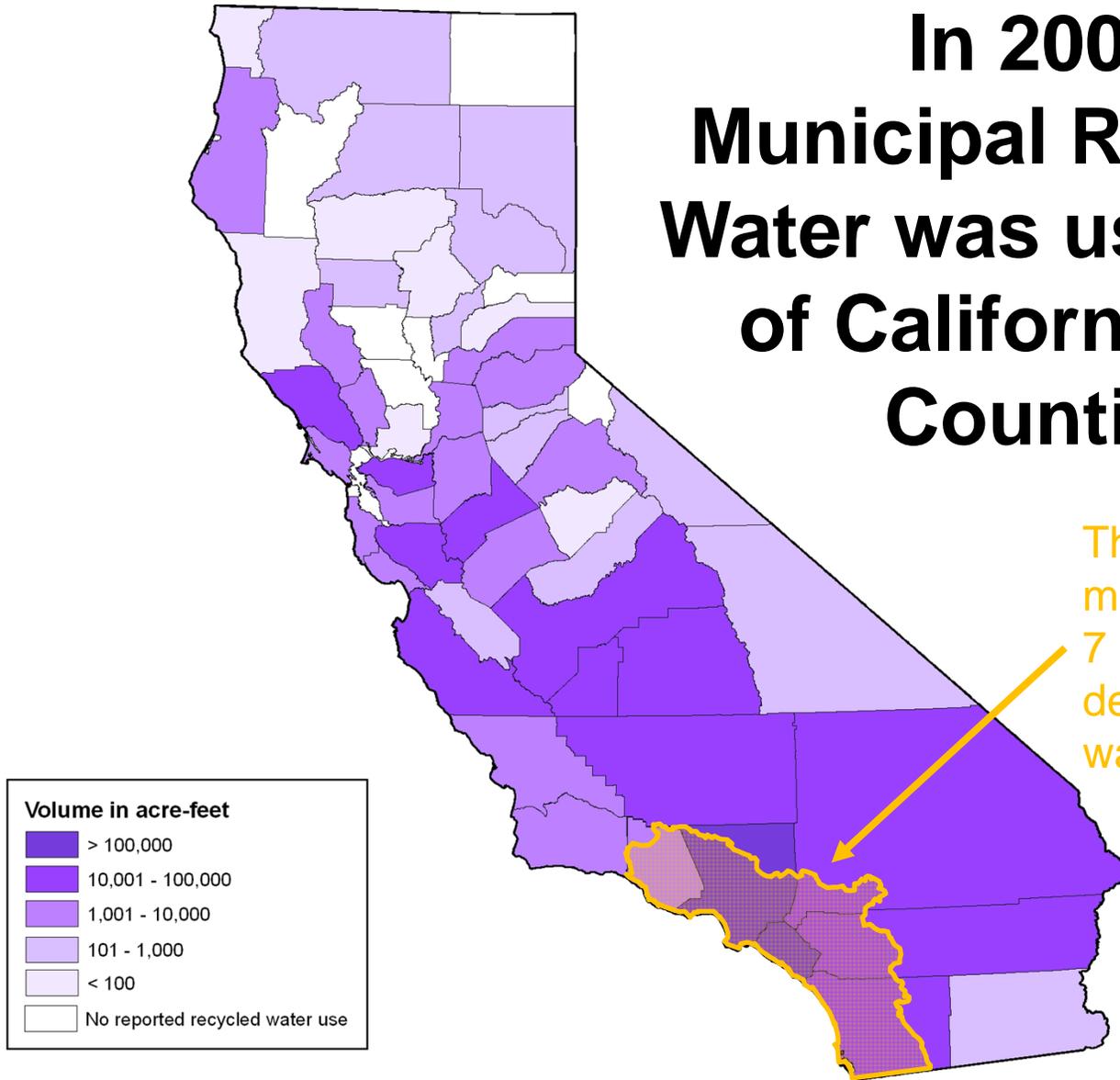
- Water that begins as wastewater
- Treated to an appropriate level
- Suitable for either
  - Direct beneficial use (piped to a point of use)
  - Controlled use (indirect but planned use, e.g., groundwater recharge)
- Also called reclaimed water

# 1970-2009 Municipal Recycled Water Use (by Region)



2009 Total 669,000 acre-feet

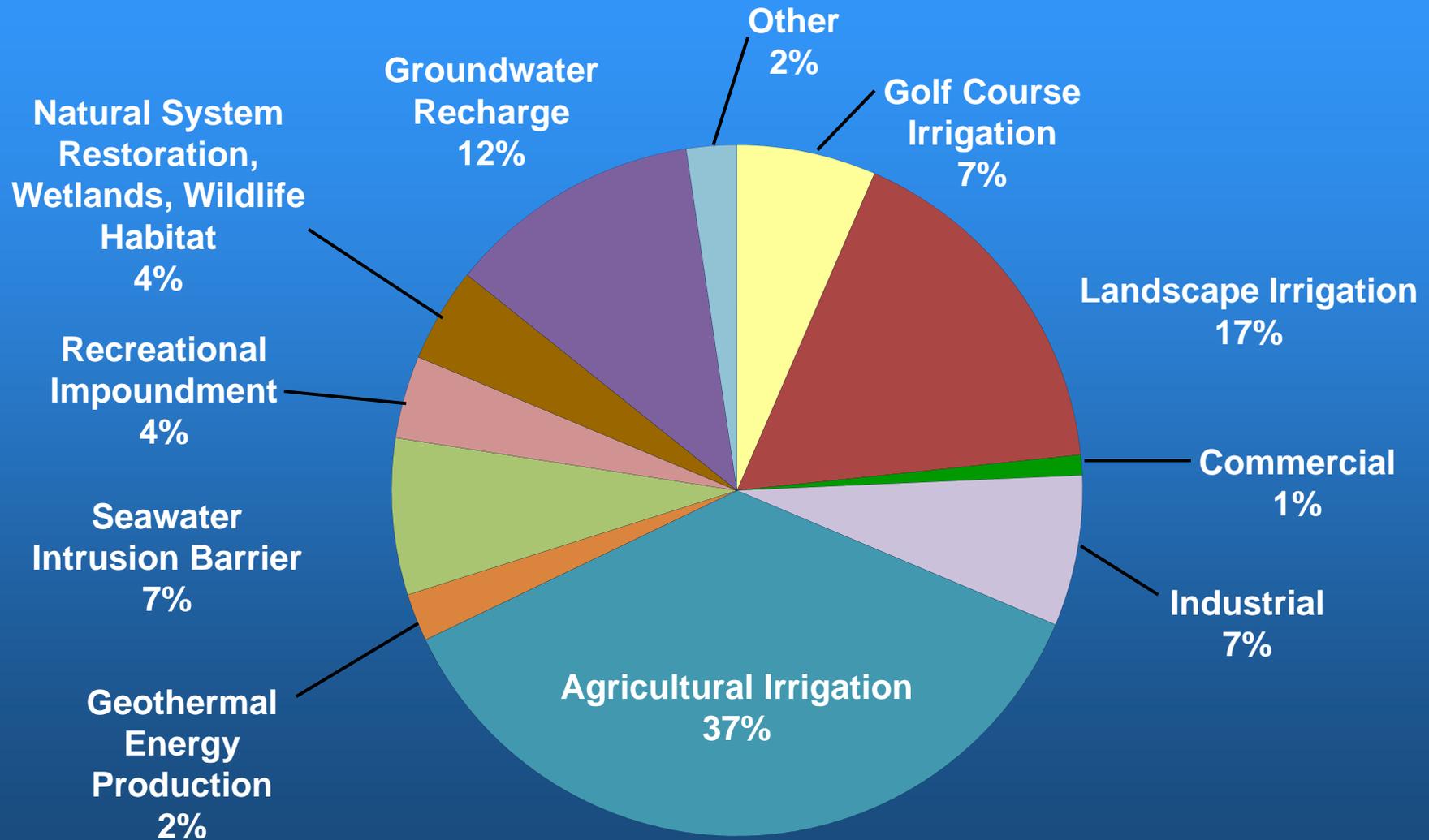
# In 2009, Municipal Recycled Water was used in 51 of California's 58 Counties



The South Coast Region met approximately 7 percent of its water demands with recycled water

2009

# Beneficial Uses of Recycled Water in California



2009 Total = 669,000 acre-feet

# Direct Nonpotable Use

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Wastewater  
collection system

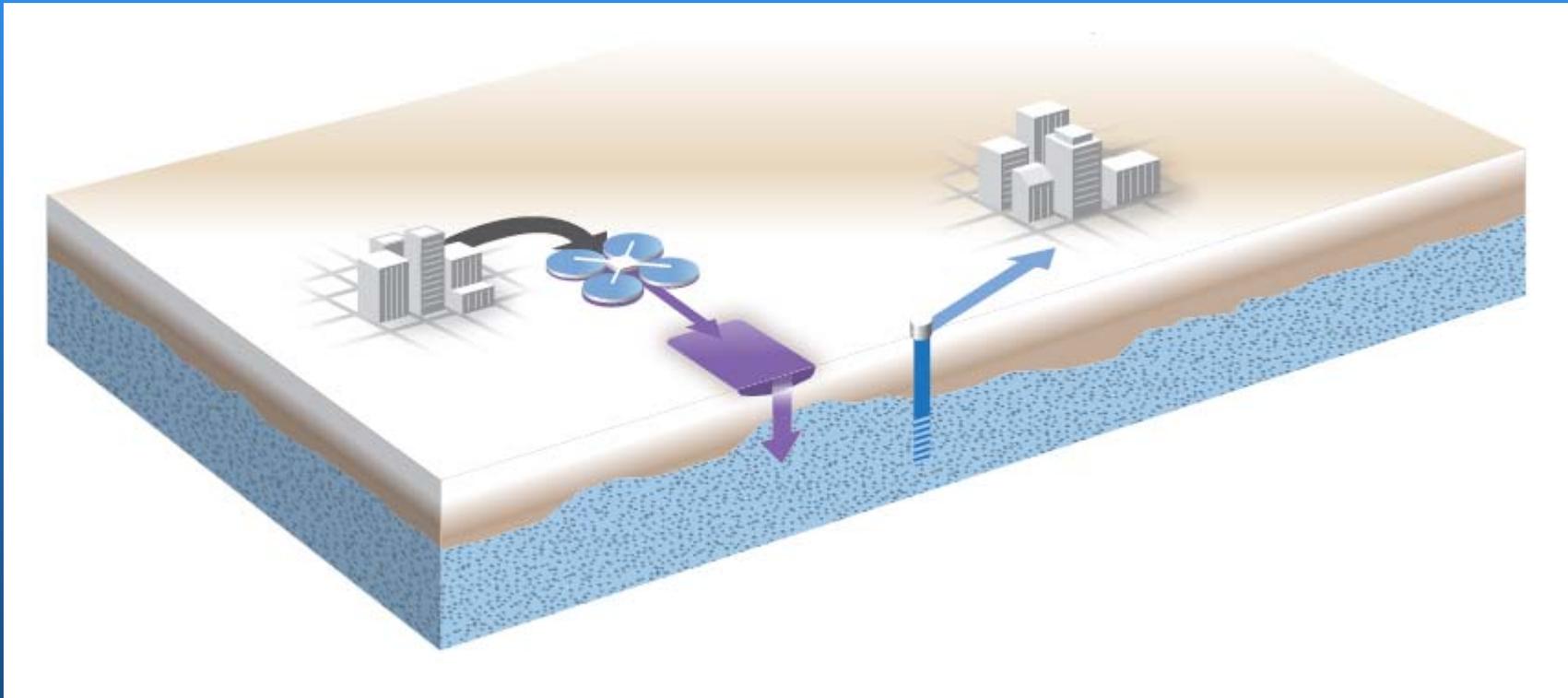
Wastewater  
treatment

Recycled  
water  
distribution  
system

Recycled  
water use

# Potable Uses

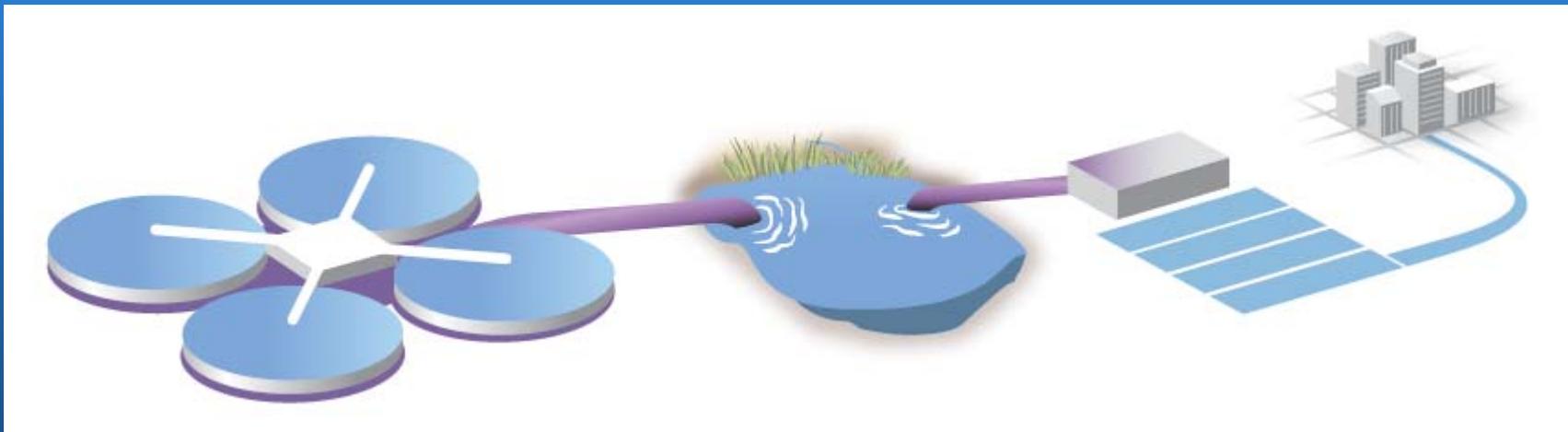
- Indirect – Groundwater recharge



# Potable Uses

- Indirect – Surface water augmentation

Drinking water distribution system



Wastewater treatment

Drinking water reservoir augmented with recycled water

Drinking water treatment plant

# Potable Uses

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- Direct – Into potable water lines
  - Legislatively specified pathway to evaluate (SB 918, 2010)

Wastewater  
collection  
system

Advanced wastewater  
treatment to  
drinking water standards

Drinking water  
distribution  
system

# Future Reuse Potential

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- By 2030
  - Total statewide potential = 2 million acre-feet
  - Reusing about 30% of urban wastewater
  - About 80% of increased reuse could be “new water” -- captured before entering salt water bodies

# DWR Information

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## Water Recycling and Desalination Section

- <http://www.water.ca.gov/recycling/>

## Rich Mills

- [mills@water.ca.gov](mailto:mills@water.ca.gov)
- (916) 651-0715

