

# Welcome to GIS Day 2022!

Taking Santa Clara County into the future with GIS technology

November 2, 2022



# Project Outcomes Specific to the County of Santa Clara



# Use in IPM Project Deliverables

Make maps  
Share and collaborate  
Analyze data  
Work with data

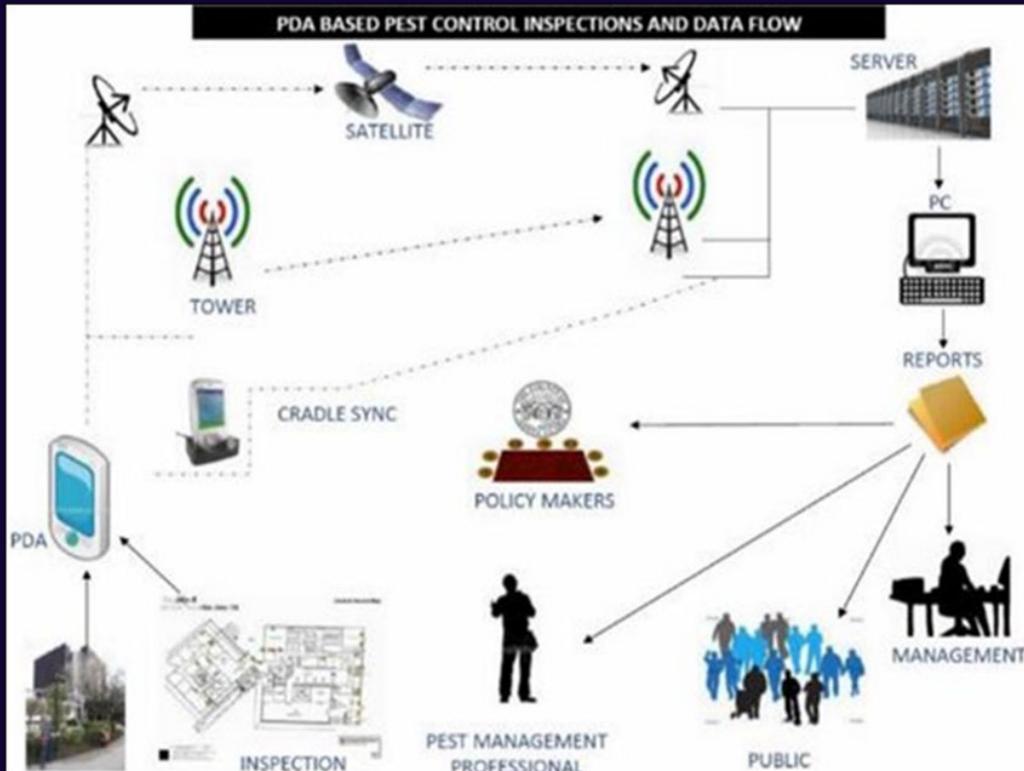
Structural IPM – All Facilities  
Urban Turf and Landscape IPM  
Golf Course IPM  
Right of Way Vegetation Management - RDA  
Invasive Weed Management – PRK  
Aquatic Pest Management – PRK  
Vertebrate Pest Management – PRK  
Integrated Forest Pest Management & Tree Health Care  
Endangered & Protected Bird Species Management  
IPM Outreach



Hundreds of acres under 450 Facilities and Fleet structures, 95 Parks structures, 27 Department of Roads structures, 23 Regional Airport structures, and 24 Social Services Agency structures, ~640 miles of Roads, ~500 acres in two Regional Airports, ~ 52,000 acres in 29 Regional Parks.

# Use in IPM Project Deliverables

Real-Time,  
Anytime,  
Anywhere,  
Virtual Access to  
Observations and  
Geo-enabled Data



Right type of Data



Precise Analysis



Operator Information
Site Information
Problem Information
Inspection
Monitoring
Non-Chemical Control
Chemical Control
Worker Protection
Environmental Protection
Evaluation
Follow-up
Reports

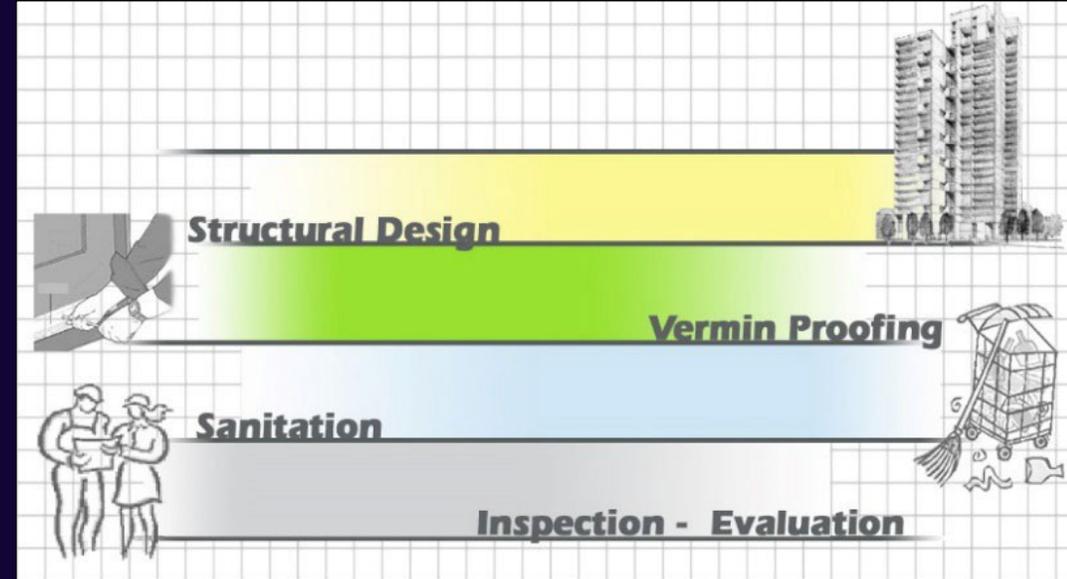
**real time**

The data collected helps obtain quality information with minimal efforts to track trends, predict and counter potential problems before they can get serious pest issues.

# Use of IPM Project Deliverables

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Facilities Field Inspections  
Eliminating Conditions Conducive to Pest  
Attraction, Harborage and Breeding



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Research: Tracking Treated Sewer Cockroaches Over 100 Acre Hospital Campus

# Use of IPM Project Deliverables

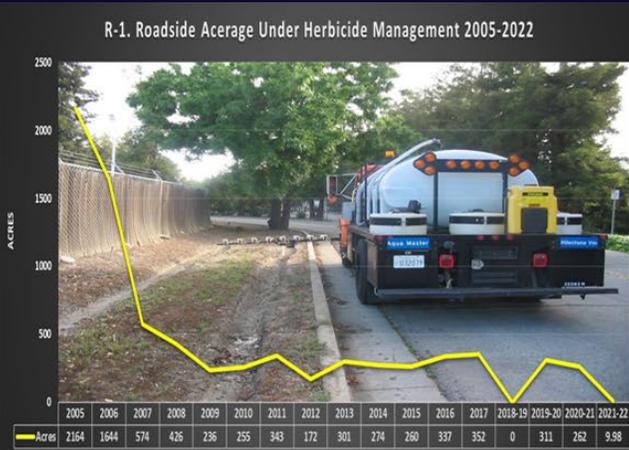
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Tree Inventory, Tree Healthcare Inspections (biotic and abiotic factors), Maintenance Cycles  
Climate Change Mitigation Actions Beyond Our Lifetime

# Use in IPM Project Deliverables

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Roads Right of Way Vegetation Management, Control Treatments Efficacy Studies, Pollution Prevention and Climate Change Impacts Mitigation: Wildfire Prevention Strategies

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Early Detection and Rapid Response on  
Life Threatening Pest Situations  
e.g., Toxic Algae, Beehives, Yellowjacket nests

# Use in Forest Management Project Deliverables

Make maps  
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Analyze data  
Work with your data



Climate Change Mitigation: Managing Trees Pre-Planting to 250 Years of Lifecycle

# Use in Forest Management Project Deliverables

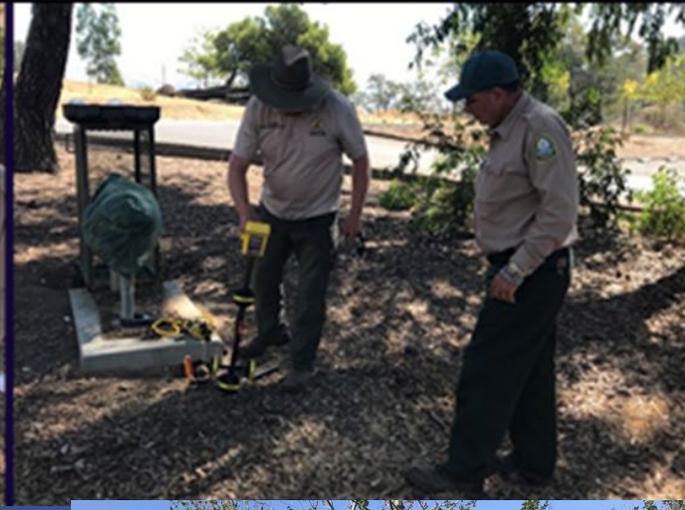
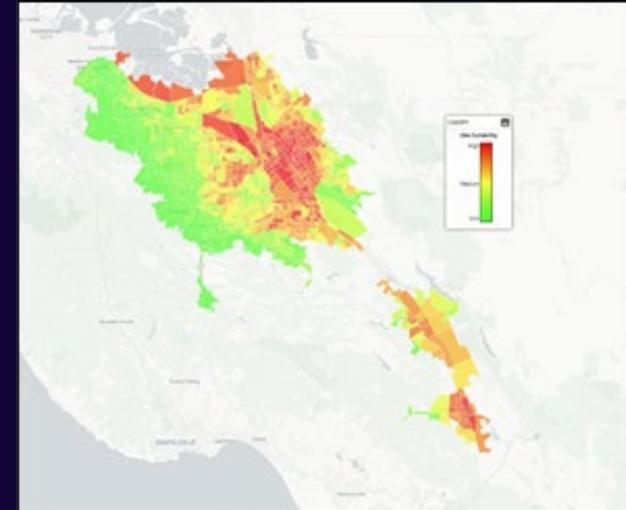
- Make maps
- Share and collaborate
- Analyze data
- Work with your data



Time Lapse Stories – Before and After

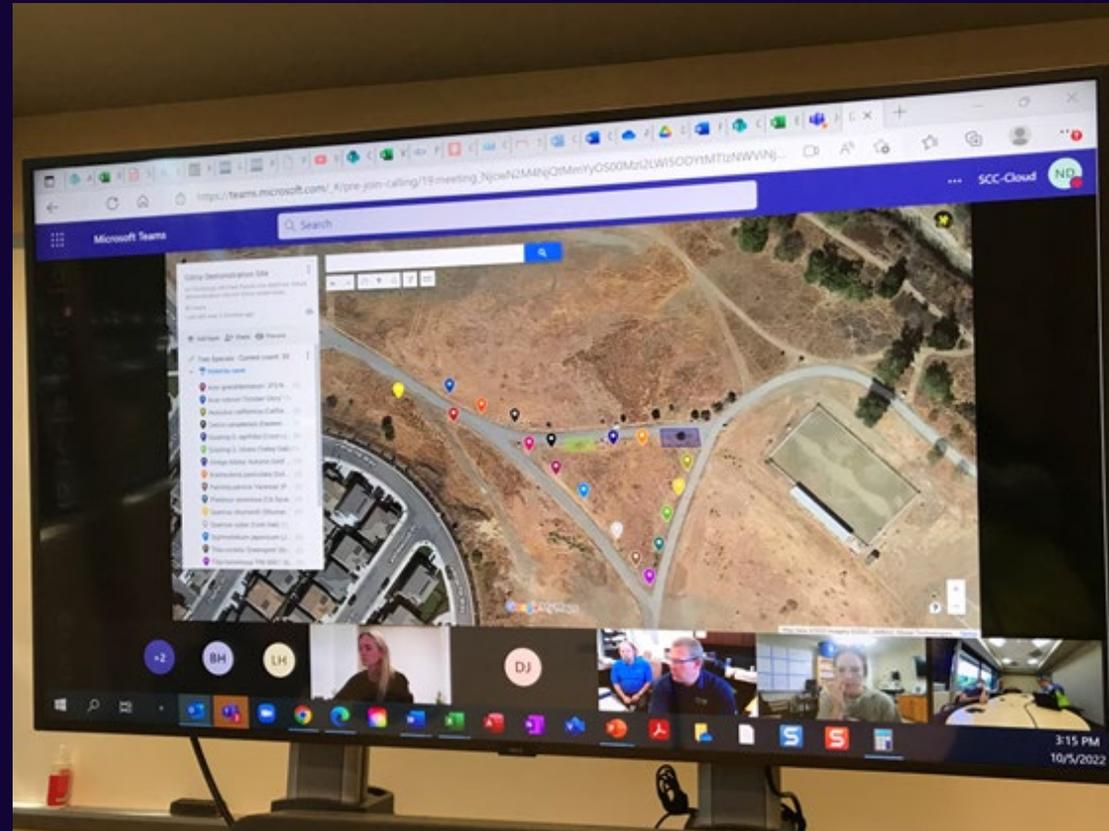
# Use of IPM Project Deliverables

Make maps  
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# Use in IPM and Forest Management Outreach Projects Deliverables

Make maps  
Share and collaborate  
Analyze data  
Work with your data



Climate Change Mitigation and Adaptation Outreach to Communities

# Future IPM and Forest Management GIS Projects

- Invasive weed mapping
- Invasive invertebrate and pathogens of trees mapping
- Vertebrate pests mapping
- Aquatic pests mapping
- Endangered and protected species mapping
- Spatial mapping of multi-level structures and structural pests
- Pesticide applications, stormwater and groundwater pollution prevention mapping
- IPM outreach to communities mapping
- Regionwide tree inventory
- Forest woody biomass and wildfire prevention mapping
- Mapping climate change impact mitigation actions (Nature Based and Natural Solutions)

