#### GIS for Disaster Recovery

Rebuilding and Revisioning After the 2017 California Wildfires

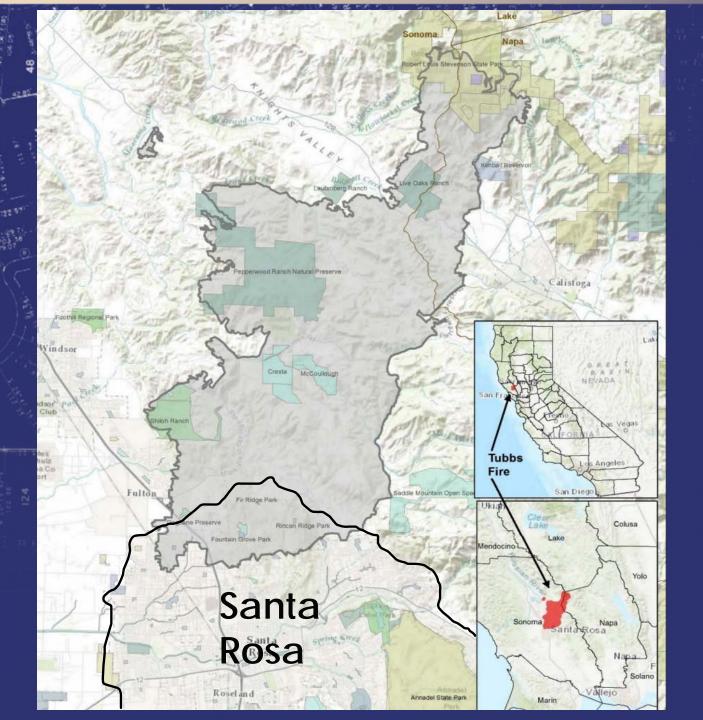
> City of Santa Rosa Disaster Relief



**ESRI UC 2019** 

GABE OSBURN, DEPUTY DIRECTOR OF DEVELOPMENT SERVICES, CITY OF SANTA ROSA

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# Tubbs Fire October 8, 2017

- Napa & Sonoma Counties
- ▶ 36,807 acres
- Contained on October 31, 2017



## Summary of Destruction

# 3043 Residential Units 5% of City's Housing Stock

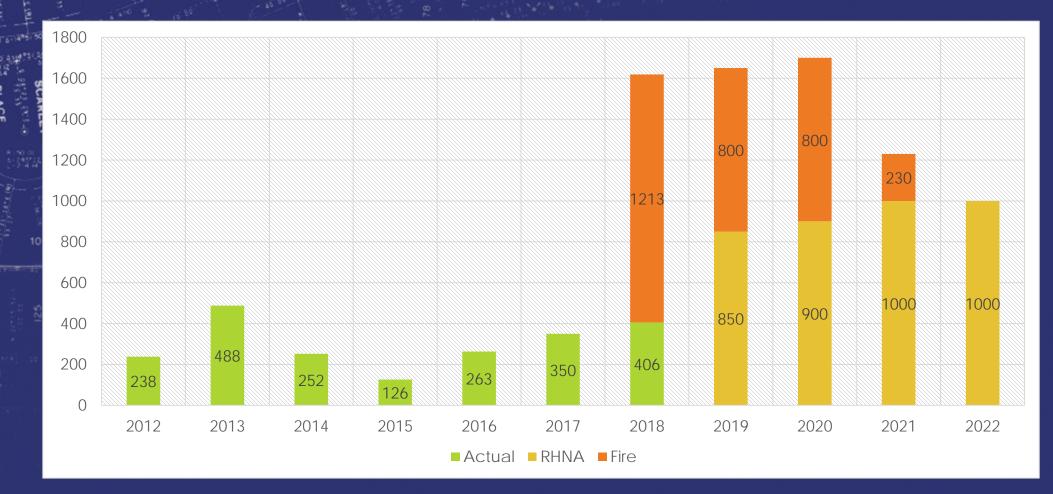
- Single Family Homes
- ► Multi-Family Units
- ▶ Mobile Homes
- Accessory Dwelling Units

#### 36 Commercial Buildings

- ► Hotels
- ► Retail
- Office
- ▶ Restaurants
- ► Historic Structures
- ► Recreation Facilities

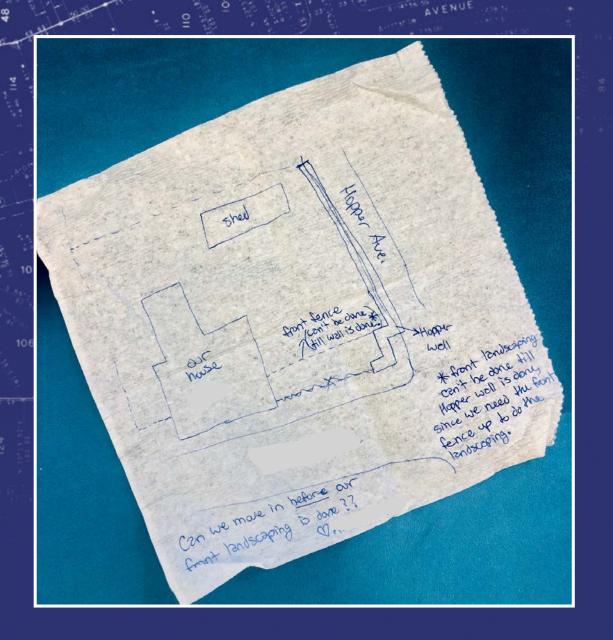


## Housing Needs







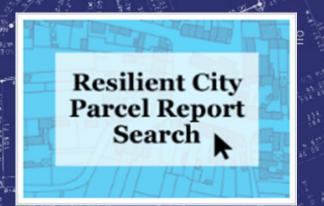


Human in a Sociotechnical System



### A Community With Questions

- Where can I get maps and plans for my neighborhood?
- What contractors are working near by?
- What work is the City doing near me?
- What are my building setbacks & design considerations?
- Does my HOA have to review my new design?
- ▶ What's the status of my permit?
- ► How do I know if there's an easement on my property?
- ▶ Is the City replacing my water service?





srcity.org/rebuild



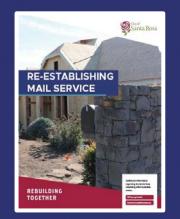
















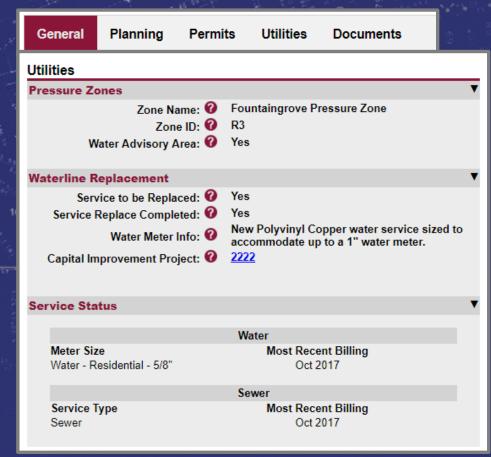






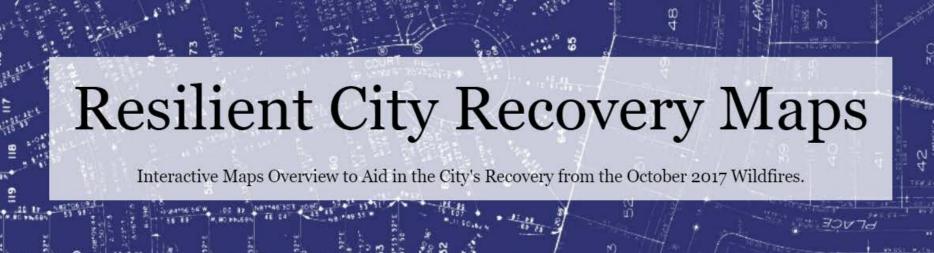
## Guiding Citizens

#### Parcel Search Tool



Blending spatial & non-spatial data sources into a streamlined customer self-help tool







## Aerial Imagery Collection



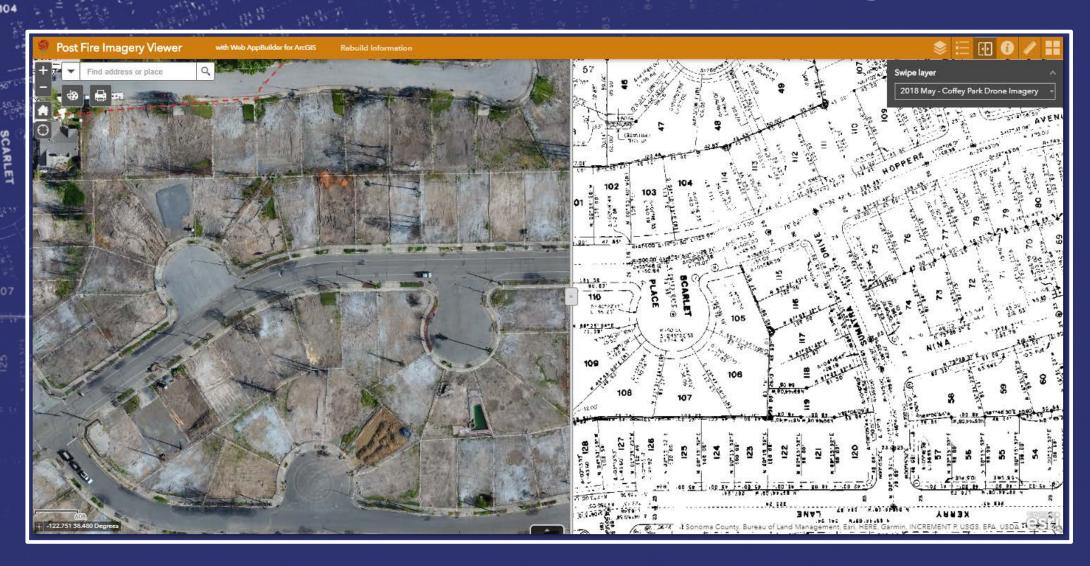


## Digitization of Plan Sheets



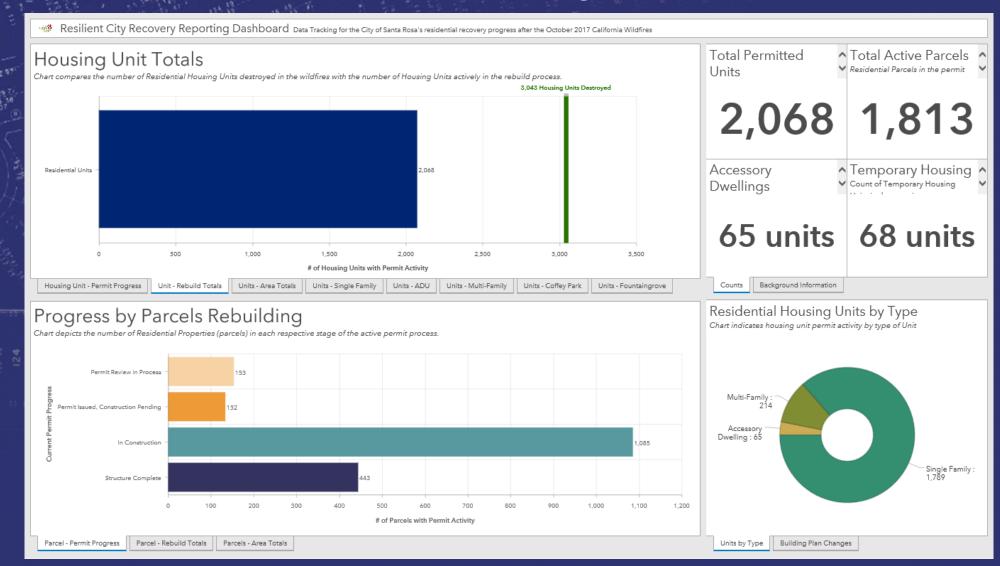


## Project Planning





### Recovery Dashboard







### Lessons Learned

- Community engagement listen and respond
- The importance of GIS coupled with robust & concise datasets
- The importance of digitized records and mapping to support hazard mitigation planning
- ▶Be proactive



## Special Thanks

C2 Group



https://www.c2group.us/



## Questions?

SRcity.org/Rebuild

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