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DIGITAL WEB SERVICES NETWORK

DWSN

DWSN Quarterly Forum
Thursday, October 22, 2020

webstandards.ca.gov

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Opening Remarks
Manveer Bola

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Agenda

- AB434 Certification and Updates
- CAWeb Publishing Update
- Displaying Spatial Data in a User-Friendly Way
- DTSC Household Assessment and Data Collection Tool
- Survey for Future DWSN Topics
- Open Discussion
- Closing Remarks

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AB 434 Web Accessibility Update

Tushar Pattani

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Web Accessibility Compliance Certification Due Date: July 1, 2021

Resources available:

SAM Section 5190.1 - Website Standards

SAM Section 5190.2 - Standard ca.gov template

Web Accessibility Toolkit

Web Accessibility Community of Practice Forum

Individual Guidance Meetings

Web Accessibility training classes

Optical Character Recognition Bot (OCRBot)

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Web Accessibility Update Questions?

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CAWeb Publishing Update

DWSN

Jim Burke

Office of Enterprise Technology
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CAWeb Publishing Service

- Integrated Web Content Management System
- Build on WordPress the #1 WCMS >30% of all websites are built on WordPress : https://wordpress.org
- Easy to use Divi Modules
  - https://elegantthemes.com/documentation/divi/modules/
- CAWeb Publishing Theme + State Template
- We manage the technology – You manage the business content
- 40+ extended Features Via Plugins
  - https://caweb.cdt.ca.gov/features
- Integrated Google Analytics and Google Search
- Currently supporting 52 active sites with 5 more in progress
  - https://caweb.cdt.ca.gov/our-customers/

CAWeb Publishing Service

Coming Soon

- Full support for the State Template version 5.5
  - https://template.webstandards.ca.gov/
- Google Tag Manager integration
- New Password security policy enforcement
- CAWeb Publishing 2.0 Visual Builder

On-Boarding guidelines & additional information

Https://caweb.cdt.ca.gov/

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Displaying Spatial Data in a User-Friendly Way

Art Khomishen/Isaac Cabrera

Office of Enterprise Technology

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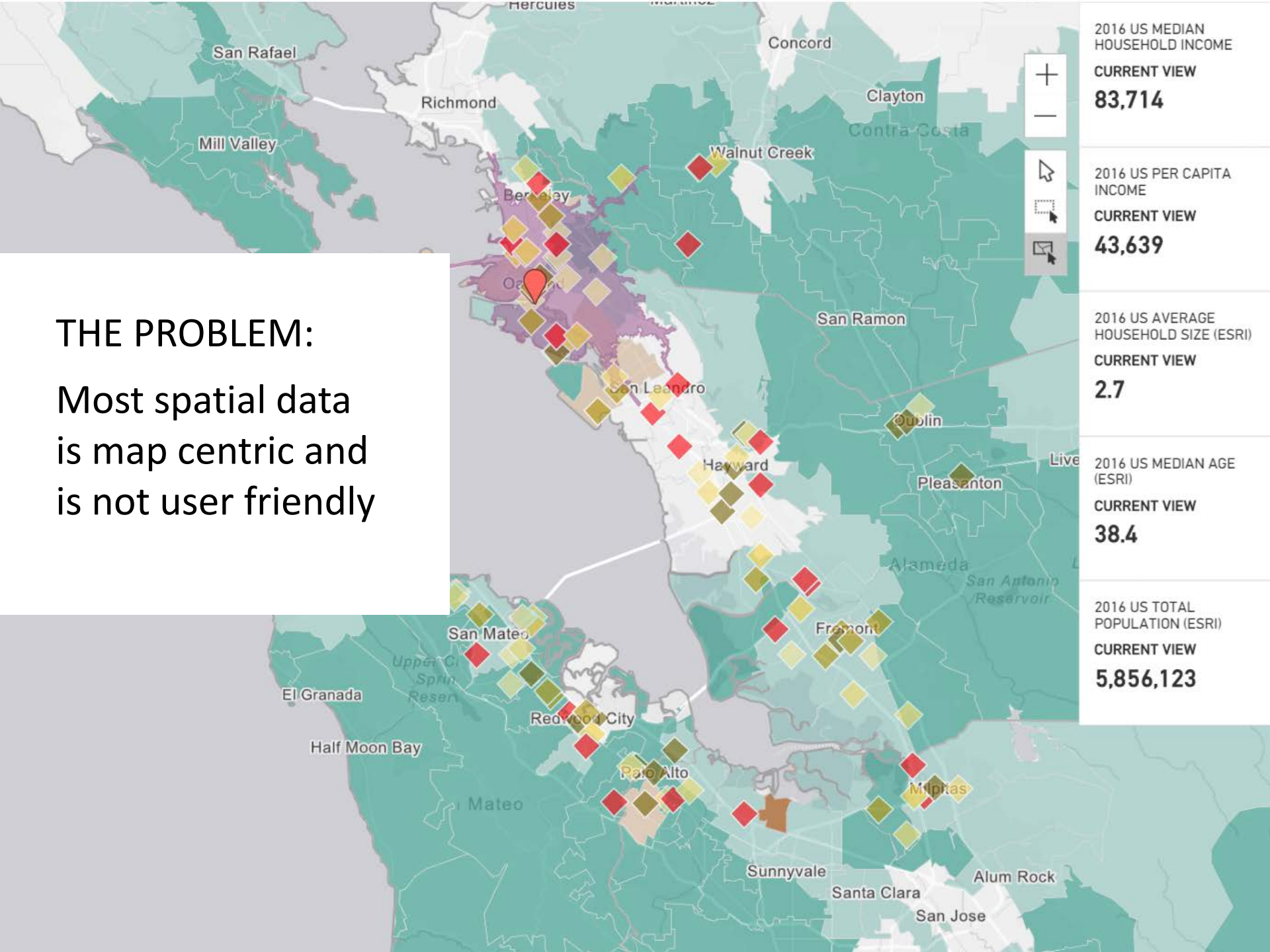
USE CASE:

Get critical Fire and Public Safety Power Shutoff information on the go


THE PROBLEM:
Most spatial data is map centric and is not user friendly
2016 US MEDIAN HOUSEHOLD INCOME
CURRENT VIEW
83,714
2016 US PER CAPITA INCOME
CURRENT VIEW
43,639
2016 US AVERAGE HOUSEHOLD SIZE (ESRI)
CURRENT VIEW
2.7
2016 US MEDIAN AGE (ESRI)
CURRENT VIEW
38.4
2016 US TOTAL POPULATION (ESRI)
CURRENT VIEW
5,856,123
San Rafael
Richmond
Mill Valley
Concord
Clayton
Walnut Creek
San Ramon
Dublin
Pleasanton
Hayward
Alameda
Fremont
San Mateo
El Granada
Half Moon Bay
Redwood City
Palo Alto
Milpitas
Sunnyvale
Santa Clara
San Jose
Alum Rock

The Problem:
Map centric interfaces perform poorly.

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Performance

Metrics

First Contentful Paint	2.7 s	Time to Interactive	19.7 s
Speed Index	9.0 s	Total Blocking Time	2,760 ms
Largest Contentful Paint	11.7 s	Cumulative Layout Shift	0

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

Opportunity	Estimated Savings
Serve images in next-gen formats	3.9 s
Preload key requests	2.96 s
Remove unused JavaScript	2.7 s
Properly size images	2.25 s
Eliminate render-blocking resources	1.57 s
Efficiently encode images	0.9 s

Map is non-essential and complementary to the data

USERS

▼ 7.66%

470

Yesterday

USERS

▼ 0.16%

45.06K

Last 90 days

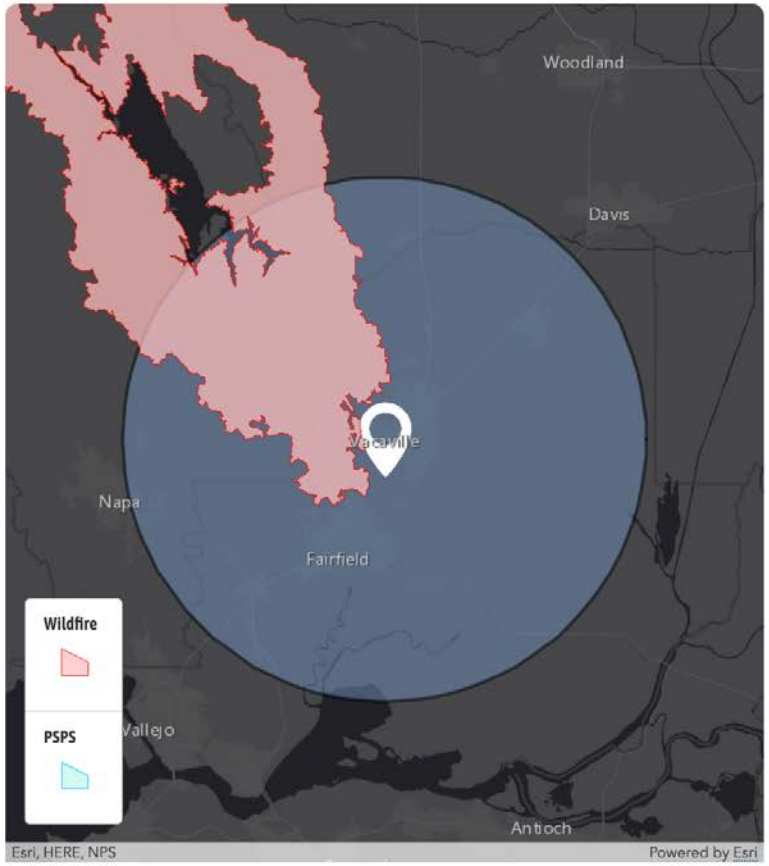
USERS

▼ 0.21%

15.02K

Last 30 days

Simplify the map using only two layers



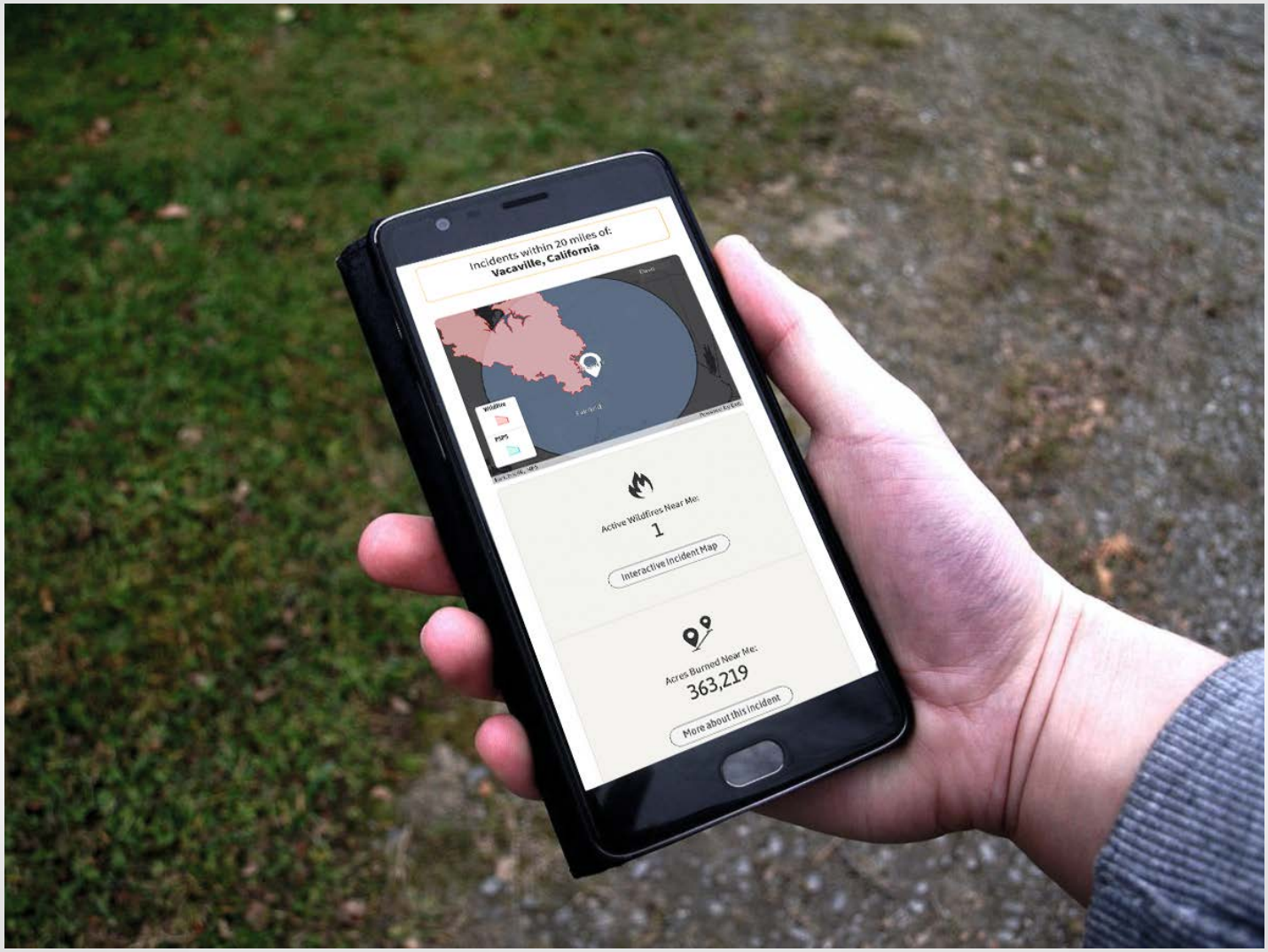
Active Wildfires Near Me:
1
Interactive Incident Map

Acres Burned Near Me:
363,219
More about this incident
(LNU Lightning Complex)

Currently in PSPS Area:
No
Learn about Power Shutoffs

Air Quality Index:
90
Moderate
Learn about Your Air Quailty

Sample of a map on mobilephone



Sample of Performance Page

88

Performance

Metrics

First Contentful Paint	0.7 s	Time to Interactive	3.3 s
Speed Index	1.5 s	Total Blocking Time	190 ms
Largest Contentful Paint	0.8 s	Cumulative Layout Shift	0.002

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

View Trace

Opportunities — These suggestions can help your page load faster. They don't directly affect the Performance score.

Opportunity	Estimated Savings
Remove unused JavaScript	1.04 s
Eliminate render-blocking resources	0.35 s
Preconnect to required origins	0.21 s

Sample of Accessibility Page

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Accessibility

These checks highlight opportunities to improve the accessibility of your web app. Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

ARIA — These are opportunities to improve the usage of ARIA in your application which may enhance the experience for users of assistive technology, like a screen reader.

- Elements with an ARIA `[role]` that require children to contain a specific `[role]` are missing some or all of those required children.

Additional items to manually check (10) — These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review.

Passed audits (23)

Not applicable (17)

Best Practices

- **Consistency and simplicity**
- **Present the data first**
- **Position map as a supporting element**

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Displaying Spatial Data Questions

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DTSC Household Assessment and Data Collection Tool

William Ferguson

Department of Toxic Substances Control

webstandards.ca.gov

DTSC Emergency Response

Objectives

- Discuss DTSC role in Emergency Response and how the applications evolved the paper-based process to a streamlined online data collection tool.

- How the app empowers us to engage with public, locals, and other agencies involved in the recovery process.

- How IT put themselves in a position to allow business to understand the value of the technology.

Household Hazardous Inspection Process

DTSC Emergency Response

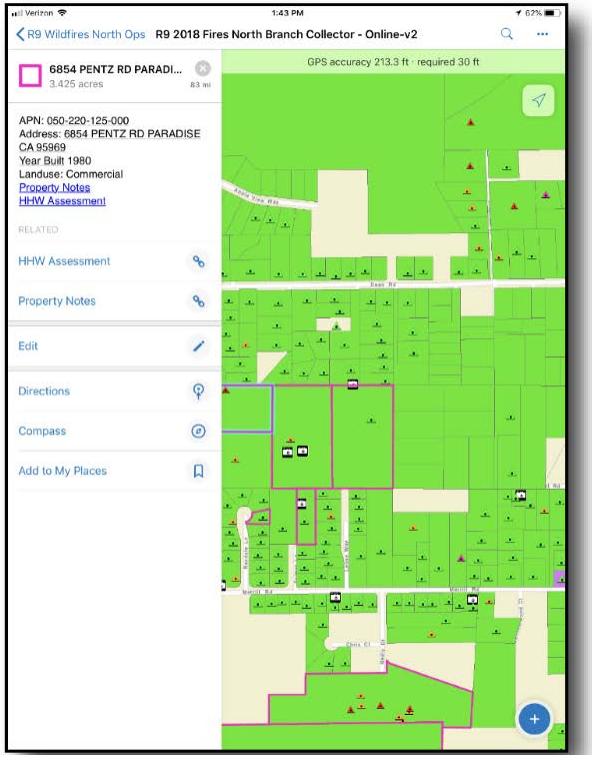
Household Hazardous Waste (HHW) and Asbestos Inspection and Removal

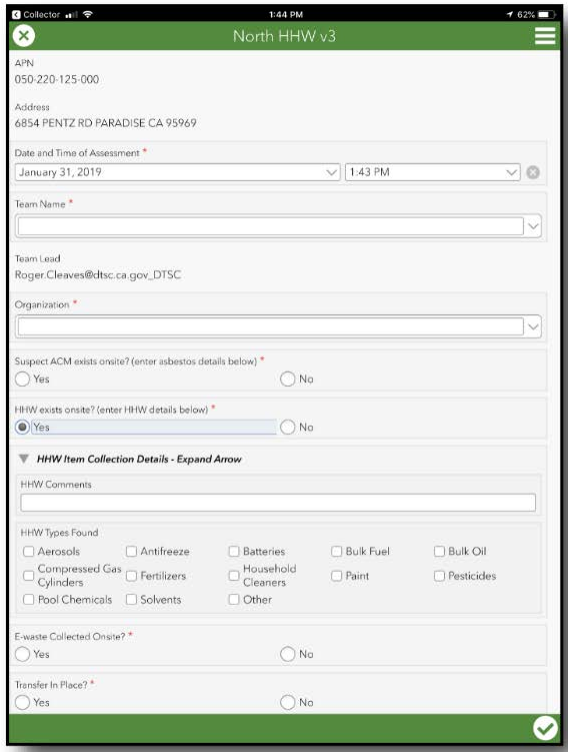
What constitutes HHW? – Batteries, Waste Oil, Misc. Fuels, Compressed Gas Cylinders, Bulk Pesticides, Fertilizers, Paints, Thinners and Aerosol Cans

Asbestos Can Include the Following – Transite Siding, Transite Pipe, Transite Roofing, and Floor Tiles

Data Collection Applications

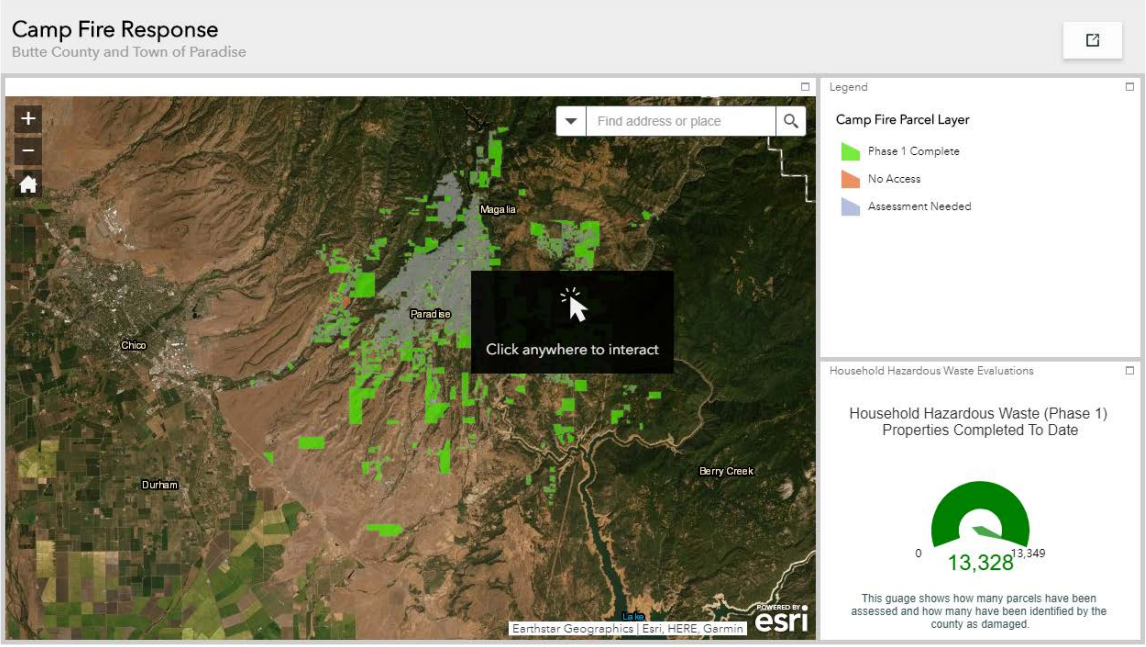
- DTSC's Office of Environmental Information Management developed a data collection app for Response
- With US EPA help, application improved and expanded to serve over 30 separate teams
- DTSC and EPA utilized tablets to collect data in field using Collector for ArcGIS and Survey123





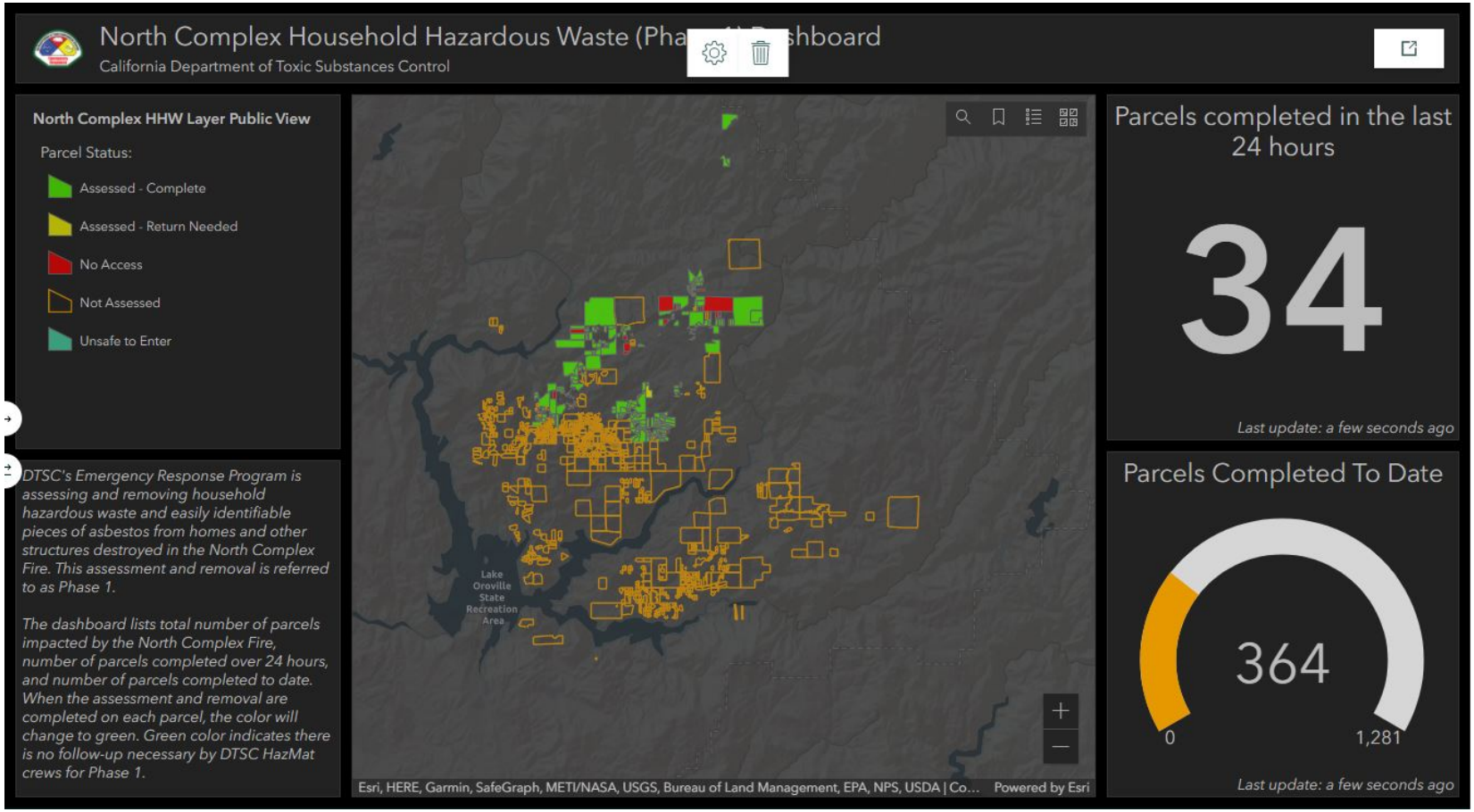
Informing the Public

- Dashboards were made available to public showing current status of removal operations
- Information included assessment status, date of assessment, and daily and total counts of assessments
- Data updated nightly

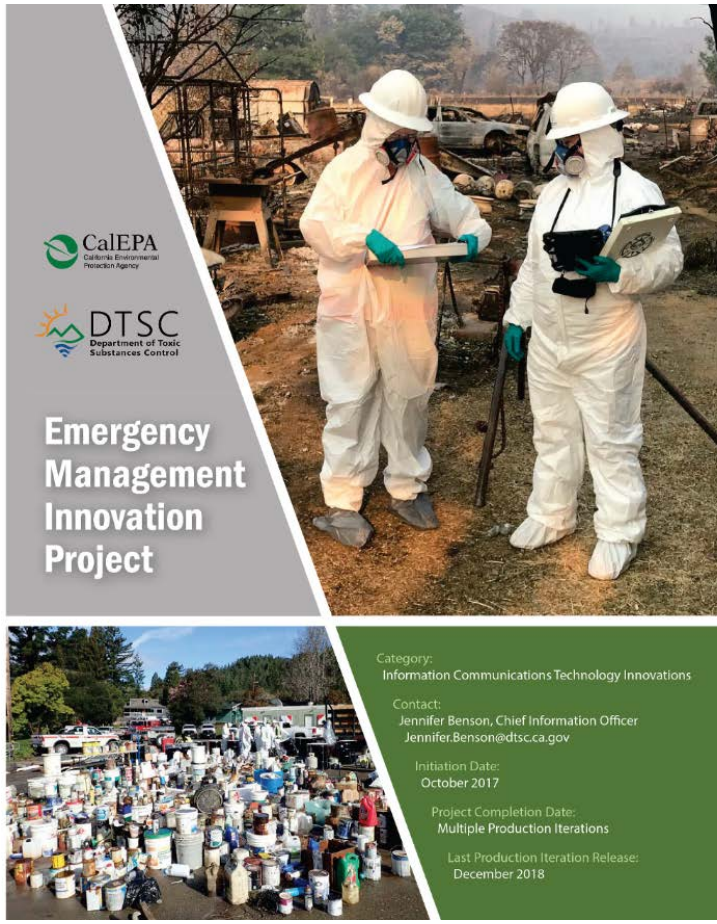


ArcGIS Web Application

Current Dashboard



NASCIO 2019 State IT Recognition Recipients



2019 Nascio Award

Factors for Success

- Cross agency collaboration drive technology adoption and share in technology successes.
- Agile environment allows us to deliver quickly and pivot early to help identify successful solutions
- Executive support allows an innovative culture to thrive in exploring new technologies.
- Allowing business to see technology quickly builds a trust relationship for future innovation.

Contact Information

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- Solutions Manager
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Story Map

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DTSC Questions

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Survey for Future Topics

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Open Discussion

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Closing Remarks

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THANK YOU

Post conference materials will be published on:

https://cdt.ca.gov/dwsn

For questions:

DigitalWebServicesNetwork@state.ca.gov