

ASSET MANAGEMENT SOFTWARE IMPLEMENTATIONS AT CENTRAL SAN

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May 30, 2018

OVERVIEW

- Central San
- Systems Integration
- Timeline
- System highlights and implementation statuses

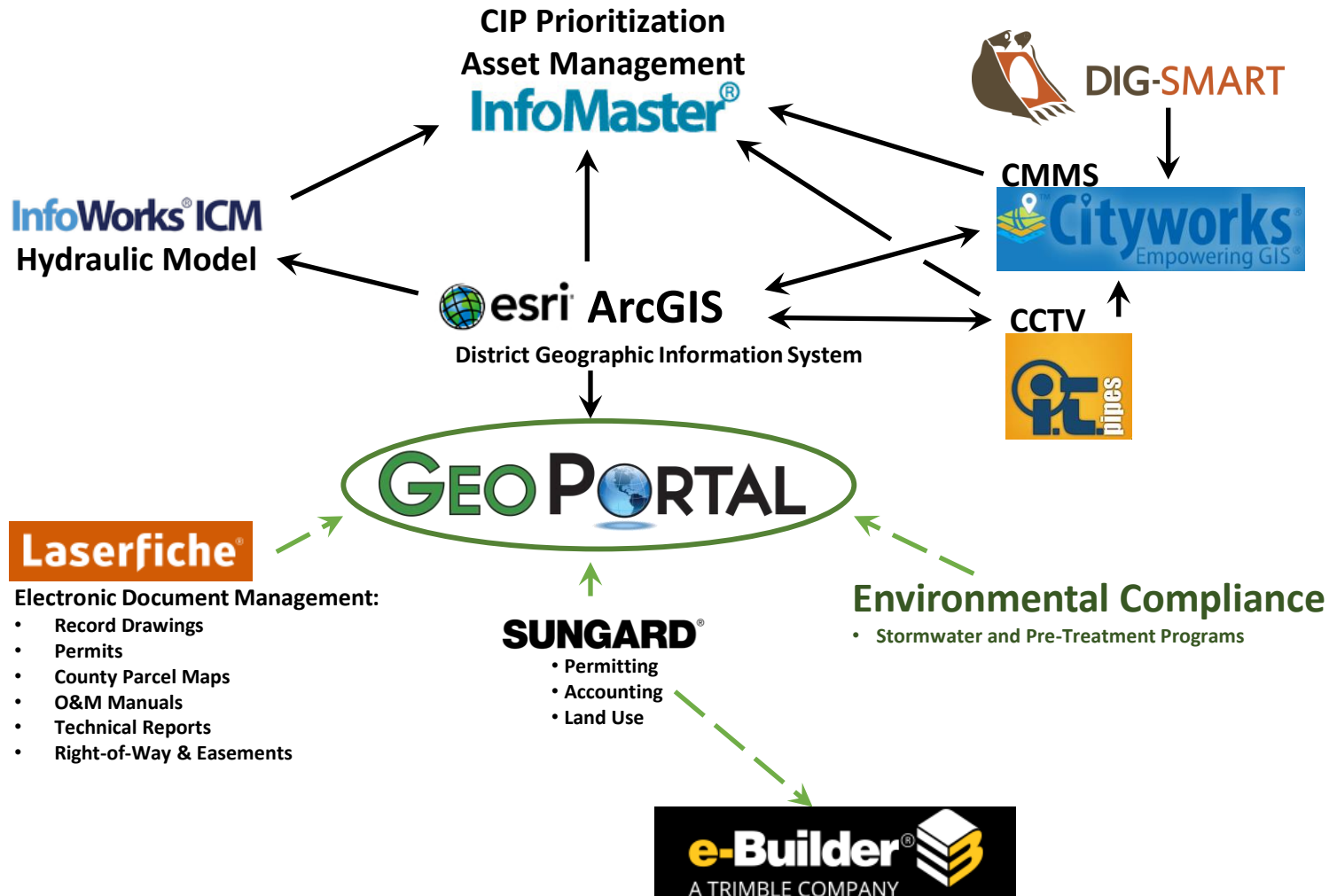


ABOUT US

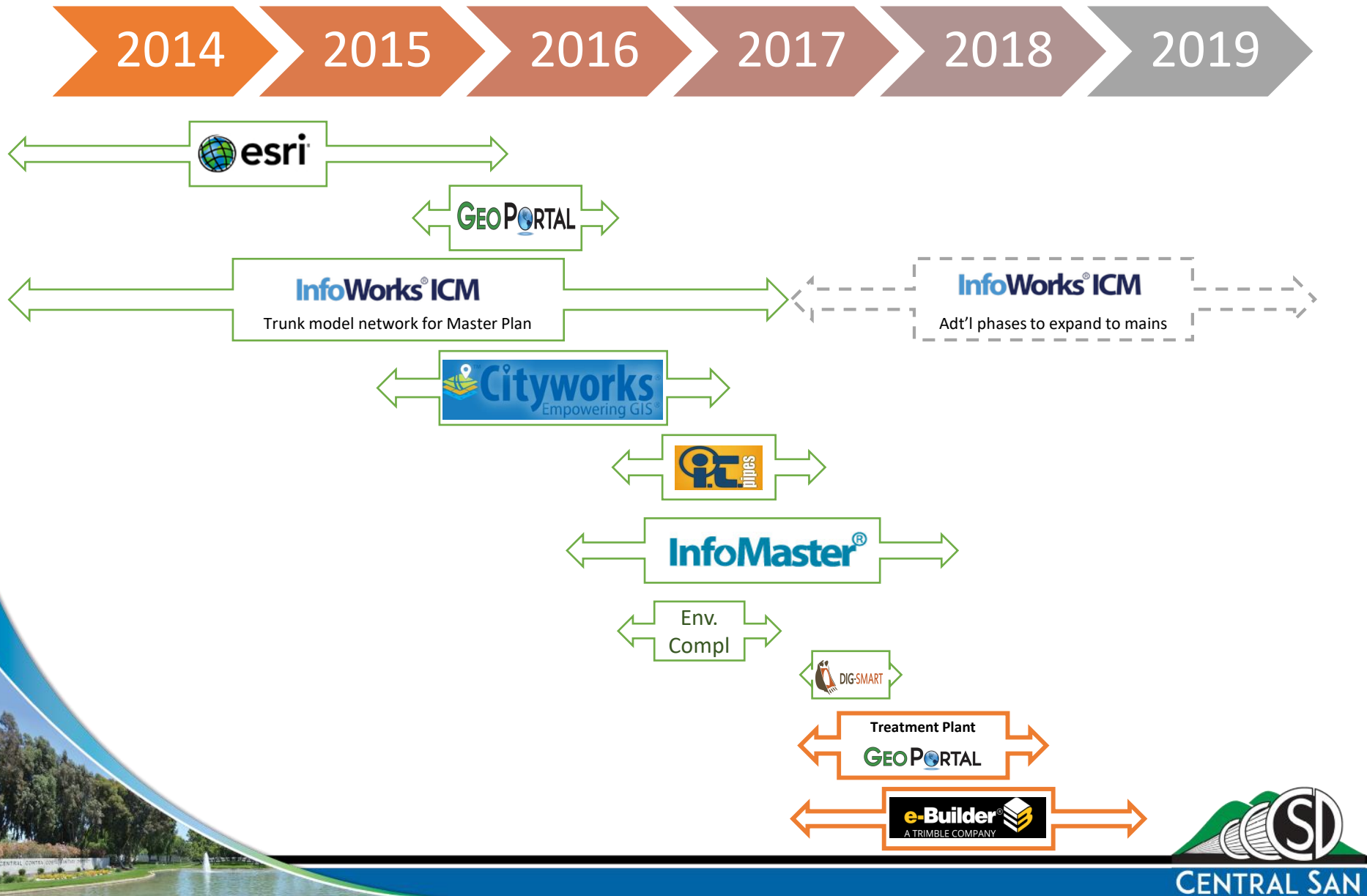
- “Special District” formed in 1946
- Employees: 290
- Budget: \$40M+ capital, \$90M O&M
- Annual Sewer Service Charge: \$530 single-family
- Services:
 - WW collection: 1500 miles gravity pipes, 21 miles of force mains, 18 pump stations
 - WW treatment: ADWF 40 MGD, secondary treatment
 - ReW: ~ 2 MGD, in-plant process use and purveyed primarily for landscape irrigation
 - household hazardous waste collection facility



SYSTEMS INTEGRATION



TIMELINE





Geocortex® | by Latitude Geographics®

COMPLETED: GIS & WEB MAPPING PORTAL



ADOBE COLDFUSION



Home Gallery Map Scene Groups

Sign In



Central Portal

Central San's Access to Geospatial Information

Navigation

Tools

Links



Contact and Disclaimer



Initial View



Previous Extent



Next Extent



Zoom In



Zoom Out



Pan



Bookmarks



Plot Coordinates

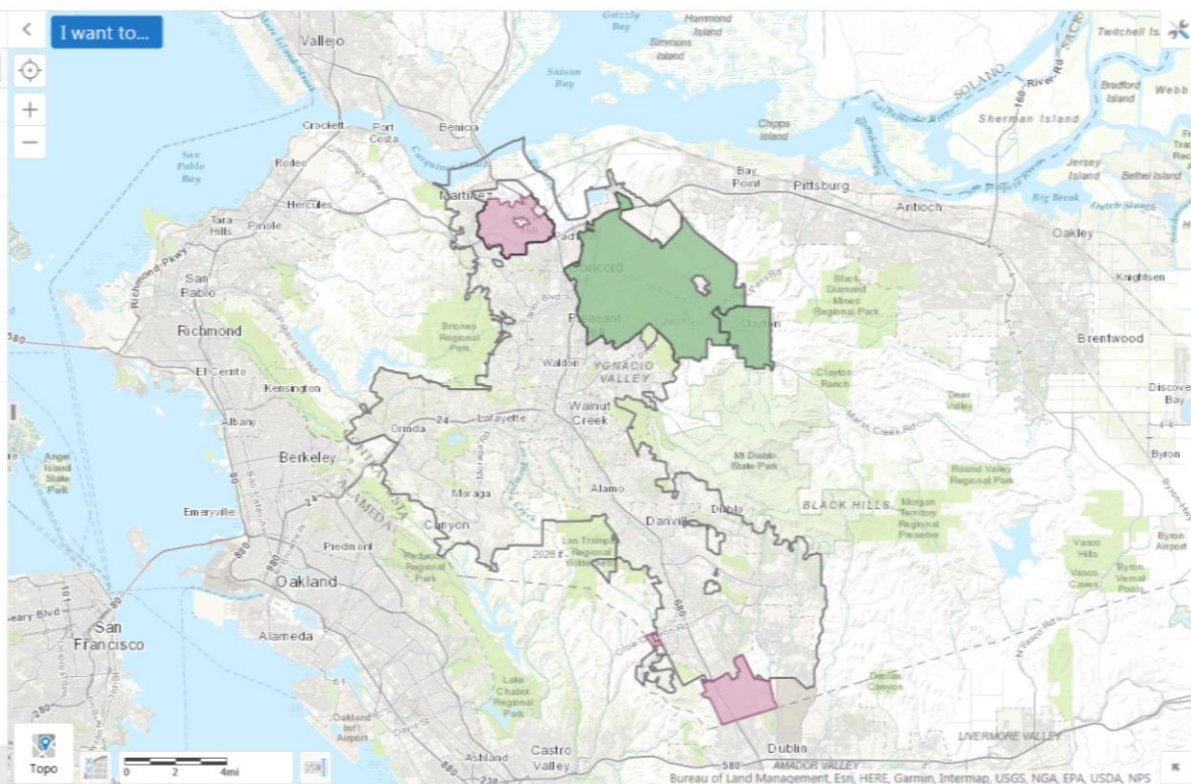


Open Map Legend

Layers

All Layers

- ☒ Sewer
- ☒ Recycled Water
- ☐ Parcels
- ☐ Treatment Plant
- ☐ Map Grids
- ☒ Administrative Boundaries
- ☐ Reference
- ☒ Basemaps



<https://geapps.central-san.org/Html5Viewer/Index.html?viewer=CentralPortal.CentralPortal#>

100%

ASSET INFORMATION

Search

Central Portal
Central San's Access to Geospatial Information

Navigation Tools Links

Contact and Disclaimer Initial View Previous Extent Next Extent Zoom In Zoom Out Pan Bookmarks Plot Coordinates Open Map

Layers

CSO

Filter Layers...

- ☒ Sewer
- ☒ Recycled Water
- ☒ Parcels
- ☒ Treatment Plant
- ☒ Map Grids
- ☒ Administrative Boundaries
- ☒ Reference
- ☒ Basemaps

Layers

Central Portal
Central San's Access to Geospatial Information

Navigation Tools Links

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Sewer Main

I want to...

Hyperlinks

Job Report/Record Drawings
CCTV Inspections
Maintenance Information

Details

Facility Identifier
75A2-M48/75A2-M47.4

Install Date
01/01/1976

Material
Asbestos Cement

Diameter
8"

Recorded Length
128

Job Numbers
2206

Main Status
Active

Pumping Station Zone
N/A

Liner Method
N/A

Year Lined
N/A

Layers Sewer Main

Job 2206

Linked to Facility ID: 75A2-M48/75A2-M47.4

General Information

Sewer Main CCTV Report

Facility ID: 75A2-M48/75A2-M47.4

WinCan Inspections

Maintenance Information

Facility ID: 75A2-M48/75A2-M47.4

Cityworks Work Orders

Show 10 entries

Search:

Facility ID	No.	Status	Date	Crew	Description / Tool	Result	Comments
75A2-M48/75A2-M47.4	401962	INITIATED	01/01/2031	N/A	PM Routine Rodding		
75A2-M48/75A2-M47.4	393435	CLOSED	11/30/2017 1:40 PM	Comstock, Don	PM Routine Rodding / Cutter Blade (1)	Clear (0 - Clear)	

Showing 1 to 2 of 2 entries

First Previous 1 Next Last

PARCEL INFORMATION

Central Portal
Central San's Access to Geospatial Information

Navigation Tools Links

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Parcel

Permit Counter Report

I want to...

Hyperlinks
Permit Counter Report
Assessor Maps

Details

Parcel Identification Number
177270030

Lowest Parcel Identification Number
177270030

Site Address
1250 SPRINGBROOK RD

Site City
WALNUT CREEK

Site Zip 5
94596

Building Number
N/A

Unit Number
N/A

First Owner Name
CENTRAL CC SANITARY DISTRICT

Second Owner Name
N/A

Postal Address
5019 IMHOFF PL

Map showing parcel boundaries, streets (SPRINGBROOK RD, WALNUT CREEK), and landmarks (M60, M59, M58).

Parcel Information

APN:	177270030-6
Location ID:	80631
Subdivision:	
Lot:	

Notes

Show 5 entries Search:

Date	Code	Comments
7/14/97	LOTS	177-270-013-2 177-270-018-1 177-270-019-9 177-270-025-6 AND 177-280-016-3
10/23/96	LOTS	NEWLY CONSOLIDATED PARCEL & SPLIT ABSORBED 177-200-008 177-270-012-4

Showing 1 to 2 of 2 entries Previous 1 Next

One or more businesses on this parcel are monitored by the Environmental Compliance section. Click here for details.

There are one or more easement documents associated with this parcel. Click here for details.

Legacy Permits and Receipts

- P50-3738LH
- P56-17532LH
- P72-44619H

Sungard Applications/Permits

06-195

Application No. 06-195 Return to Top

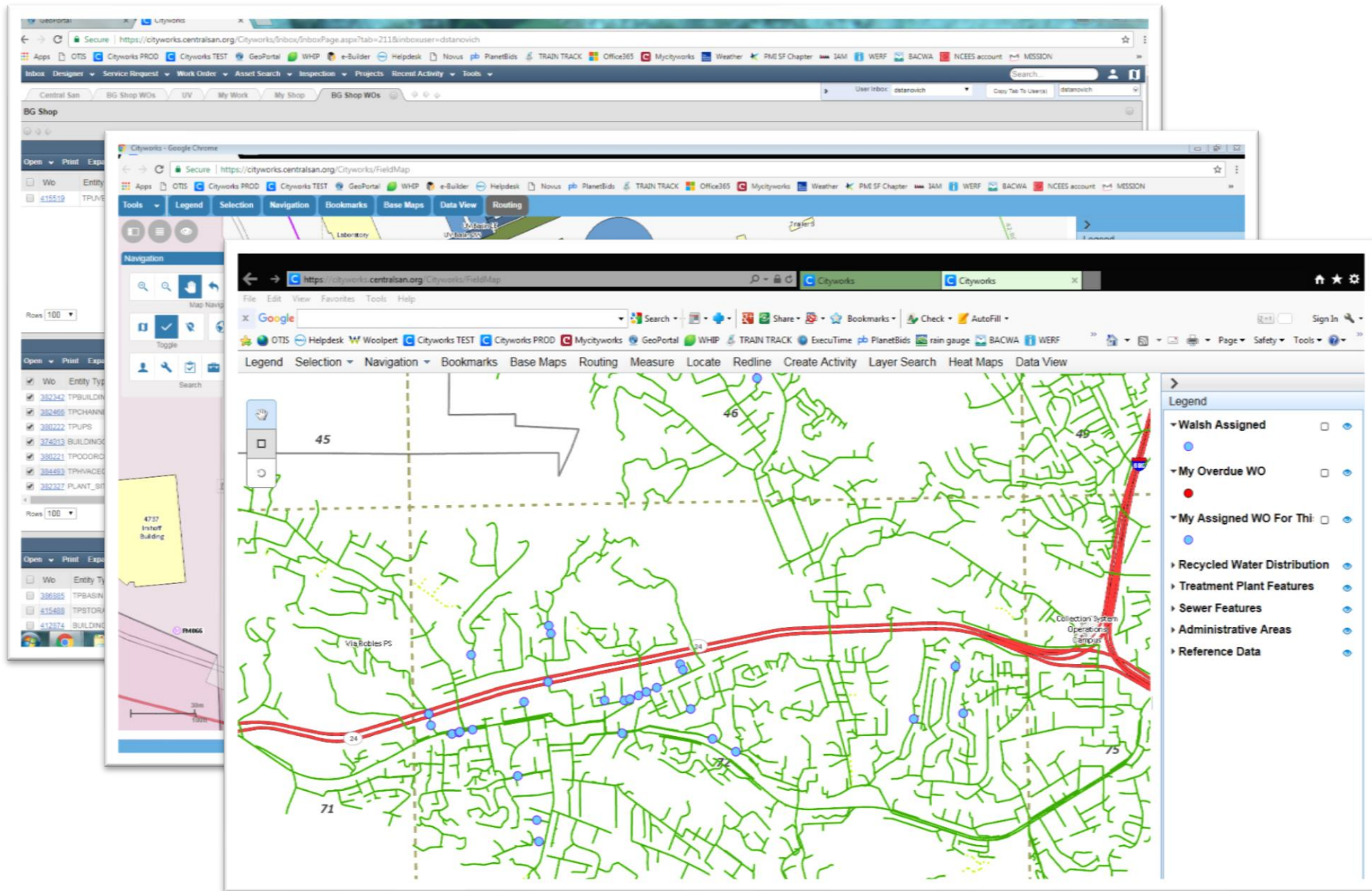
Application Information

Tenant (No.):	CINGULAR WIRELESS
---------------	-------------------

Application/Permit Notes

Show 5 entries Search:

COMPLETED: CMMS





COMPLETED: CCTV

- Replace unsupported CCTV software that integrates with GIS and CMMS.
- Convert legacy CCTV data & video, merge into new master database
- Add plug-in to web mapping portal

pipes

12/15/2015 9:44:00 AM

ROTO-ROOTER
Oakvale Ct (E) 75A1M62 -> 75A1M11.6
ACP, 8"

09:59a 12.15.2015 3'00"

00:00 16:02

	Dis...	Code	Description	Grade	From	To	Val 1st	Val 2nd	Joint	Percent	Cont.	Remarks
	3	MIST	Start Televising									inspection begins at upstream manhole
	13.2	AL	Lateral		10							service connection, at 10 o'clock
	16.4	AL	Lateral		10							service connection capped, at 10 o'clock
	73.1	AL	Lateral		2							service connection, at 02 o'clock
	145.9	AL	Lateral		10							service connection with roots heavy, at 10 o'clock
	302.4	MIFT	Finish Televising									inspection ends at downstream manhole

COMPLETED: USA LOCATING

- Implemented software to receive USA Locating Tickets that generates work orders in the CMMS
- Previously staff had to manually enter work orders into the CMMS



COMPLETED: SQL CONVERSION OF CUSTOM DATABASE FOR ENV COMPL

- Custom database created in MS Access for Environmental Compliance Group which conducts source control, pretreatment, and stormwater inspections of businesses and permitted industries
- Migrated to SQL to provide robust, multi-user, stable database, which also supports mobile access and more easily integrates with GIS
- Staff now use small laptops in the field with VPN access to Central San's network to complete inspections in the field

SUBSTANTIALLY COMPLETE

- Hydraulic Model **InfoWorks® ICM**
 - Replaced static model for the CS trunk network with a commercially available, supported, dynamic model that leverages with GIS
 - Additional phases will expand from the trunk system to the mains
 - Managed by Planning staff
- CIP Prioritization **InfoMaster®**
 - The Master Plan used Infomaster to develop a capital improvement prioritization system for CS renovation planning
 - Recently installed on Central San servers and is integrated with GIS, CMMS, CCTV, and the Hydraulic Model
 - Managed by Planning staff; intent to run the model annually for the CIB/CIP



Contact and Disclaimer



Initial View



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I want to...



☒ InfoMaster Results-DRAFT

☒ Replace 00-05

☒ Replace 05-10

☒ Replace 10-20

☒ Replace 20-30

☒ Replace 30-50

☒ Replace 50-75

☒ Replace 75-100

☒ Replace 100+

☐ Sewer

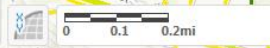
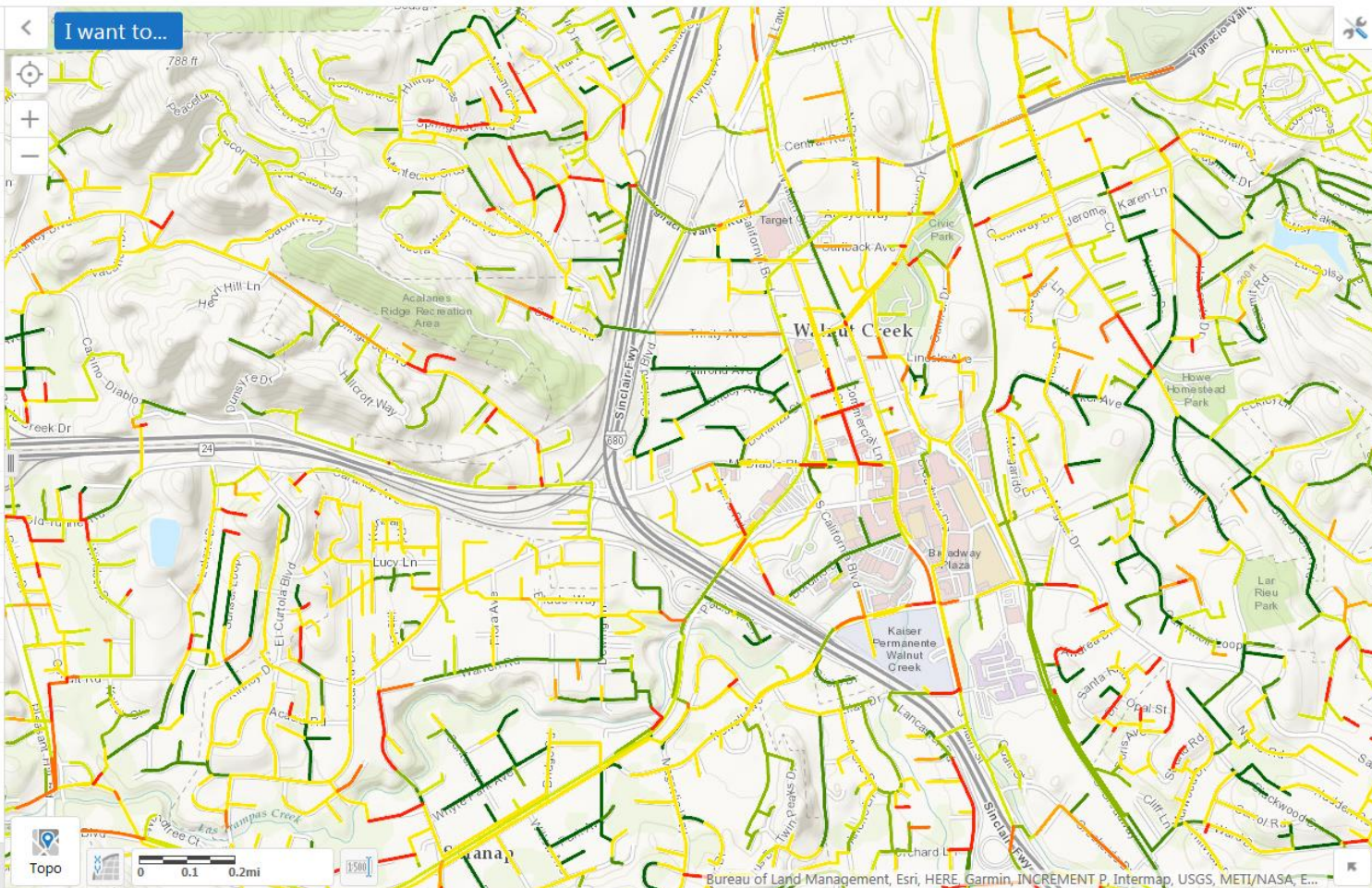
☐ Parcels

☐ Map Grids

☒ Administrative Boundaries

☐ Reference

☒ Basemaps

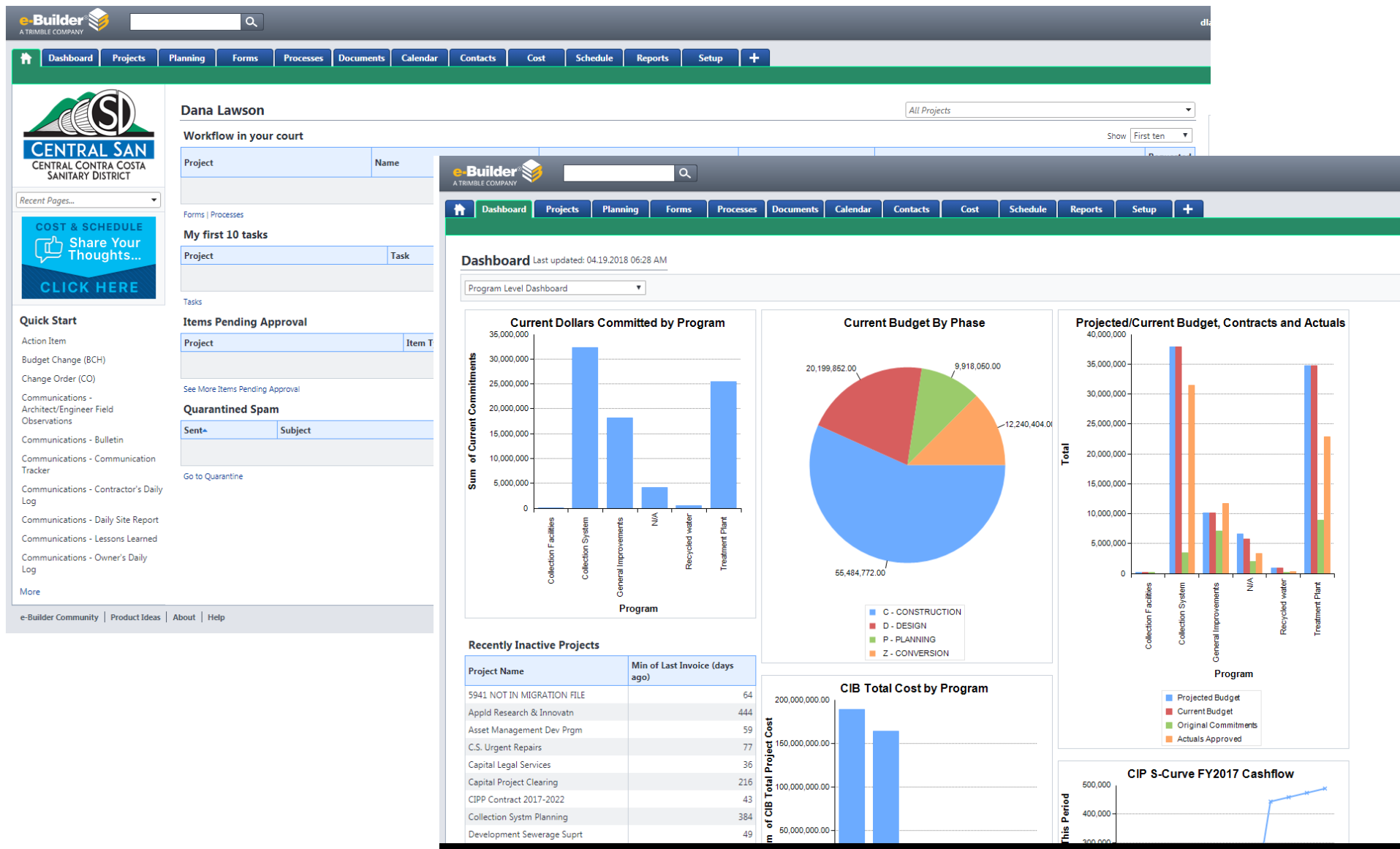


IN PROGRESS: PROGRAM MANAGEMENT INFORMATION SYSTEM

- Goal
 - Monitor capital improvement program to track status and performance of projects and overall program on a continual basis so it is delivered on-time and on-budget
- Status
 - Completing data migration and integration with financial system
 - Beginning configuration of project/construction management modules
 - Full roll-out planned for Spring 2019



IN PROGRESS: PROGRAM MANAGEMENT INFORMATION SYSTEM



QUESTIONS



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CENTRAL SAN