

WINTER 2023: SE MN GIS USERS GROUP MEETING

March 2, 2023



Agenda

- 8:30 9:00 Meet & Greet/Networking (breakfast sponsor Schneider Geospatial) 9:00 - 9:30 A Tour Through Time: City of Rochester GIS Initiatives
- 9:30 10:15 NG9-1-1 Update
- 10:15 10:30 Break
- 10:30 11:00 Watershed Alliance for the Greater Zumbro River: GIS Approach 11:00 - 11:45 3D Geologic Modeling Tool for Watershed
- 11:45 Noon State Updates/other news

Lunch Gathering at the **Purple Goat Restaurant** 3708 N Broadway Ave Suite 160, Rochester, MN 55906



A TOUR THROUGH TIME: City of Rochester GIS Initiatives

> **Christy Shostal GIS Coordinator**

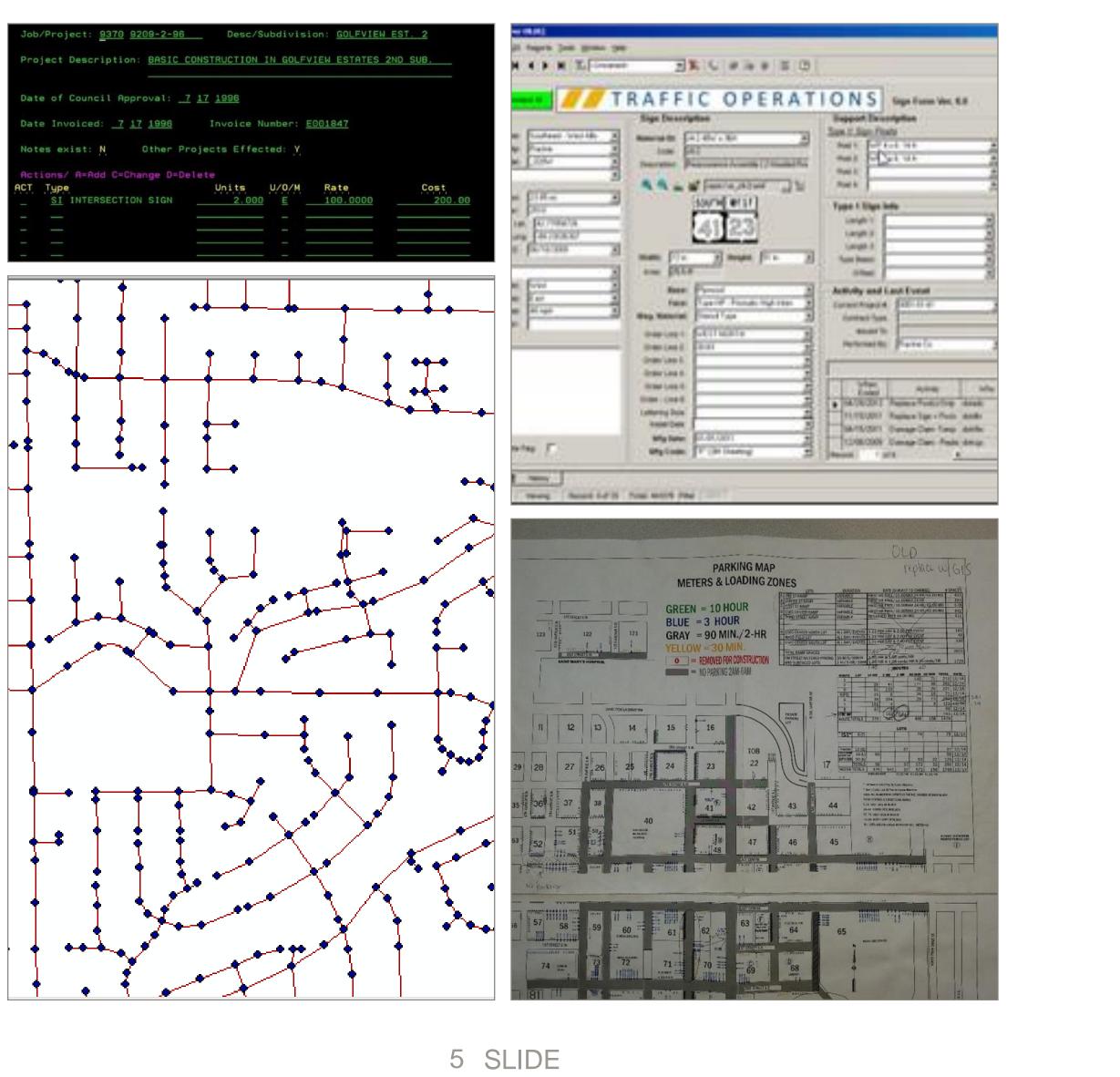
Outline

- History of GIS at the City of Rochester
- Current Initiatives
- Future Initiatives
- Demonstration(s)
- Questions

4 SLIDE

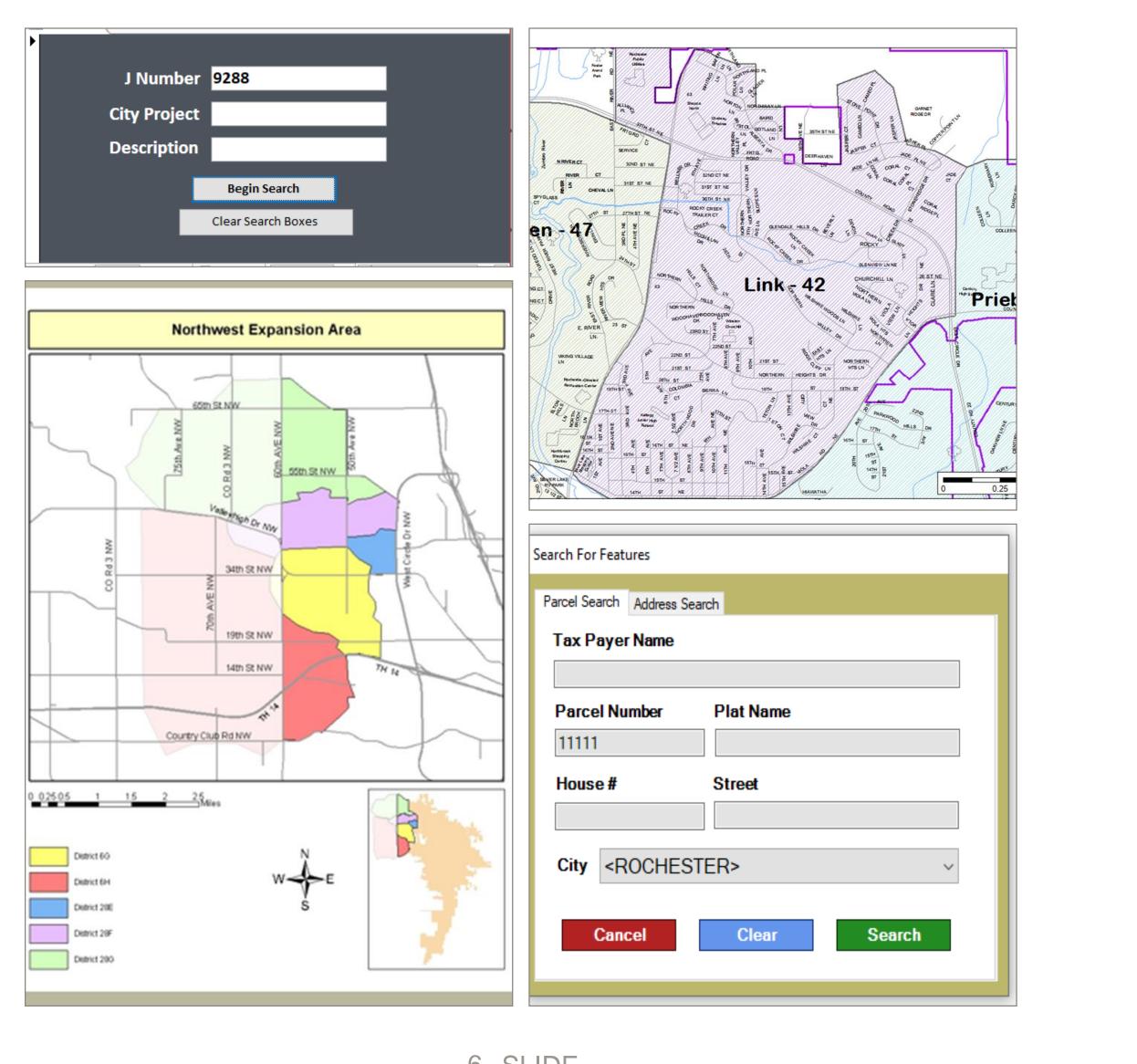
History – 90s/2000s

- GIS has been in use at the City for >20 years
- Late 90s/early 2000s focus was on early GIS dataset creation (shapefiles)
- Migration of CAD to GIS for sewer: referencing plans for primary attributes
- Digitizing field "markups" into GIS
- Tabular asset management (as400, Cartegraph, etc.)



History – 90s/2000s

- Early 2000s involved a lot of "Wordbases," spreadsheets & custom databases
- Custom GIS desktop applications (Avenue, ArcObjects, VBA, Python, etc.)
- GPS processing/assistance
- SW Utility Fee impervious mapping & tracking (2004)
- PDF map books for work tracking
- Team consisted of 1-2 GIS positions (2nd vacant ~ few years)



City of Rochester - Gradi								
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188 GP188_2016 Requiring Review Peace United Church of Christ 191 GP191_2016 Requiring Review 19 North Subdivision		Received Received	6/23/2016 6/14/2016	6/30/2016 6/21/2016				
197 GP197_2016 Requiring Review Tyrol Hills Lots 10-11, Block 1 200 GP200_2016 Requiring Review NorthSummit Subdivision		Received Received	4/8/2016 6/21/2016	4/15/2016 6/28/2016				
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201 GP201_2016 Awaiting Resubmittal Reflections on Mayo Lake 2nd 208 GP208_2016 Awaiting Resubmittal R2016-019SDP Molly Maid Business Center			6/14/2016 6/7/2016			oval occurred in the previ d as an approval in the cu	'	1 C C C C C C C C C C C C C C C C C C C
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194 GP194_2016 Awaiting Resubmittal Shannon Oaks 6th			5/18/2016					
173 GP173_2015 Awaiting Resubmittal Bandel Road Site Access 198 GP198_2016 Awaiting Resubmittal Fox Hill Villas Lots 1-2, Block 1	of	ff of Bandel Road NW	4/21/2016 4/15/2016					
179 GP179_2016 Awaiting Resubmittal Ronald McDonald House Expansion			3/22/2016					
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Grading Plans Approved in the Last Year* (double-click a record below to open the site infor ID - GP ID - Number - Name -			ar in which a revision wa Event - App	oroval Date 👻 🔺				
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192 GP192_2016 R2016-005SDP RPU - 4710 Technology Park		Approve		6/14/2016				
199 GP199_2016 Northern Heights North 4th Subidision Revisions 190 GP190_2016 R2016-002CUP Vet Clinic (Century Hills Commercial Park)	Lot 6, Block 1	Appro	-8		Reporting			- 0
209 GP209_2016 Coulee Bank 1110 6th Street NW 195 GP195 2016 R2016-005CUP Meadow Lake Preserve - Interim Grading 1000 000000000000000000000000000000000		Аррга Аррга			Reporting			
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Focus Item: Custom Access Databases (many!!)

- Goal(s): streamline work processes

 (field/office), collect <u>normalized</u> data,
 generate summaries, produce efficient
 reports/data queries
- Collaborators: GIS, Public Works (many divisions/groups)
- Processes: sidewalk snow removal, ROW permitting, MS4 education tracking, project search, grading plan review, City-Owner tracking, SW Utility Fee tracking/history, etc.

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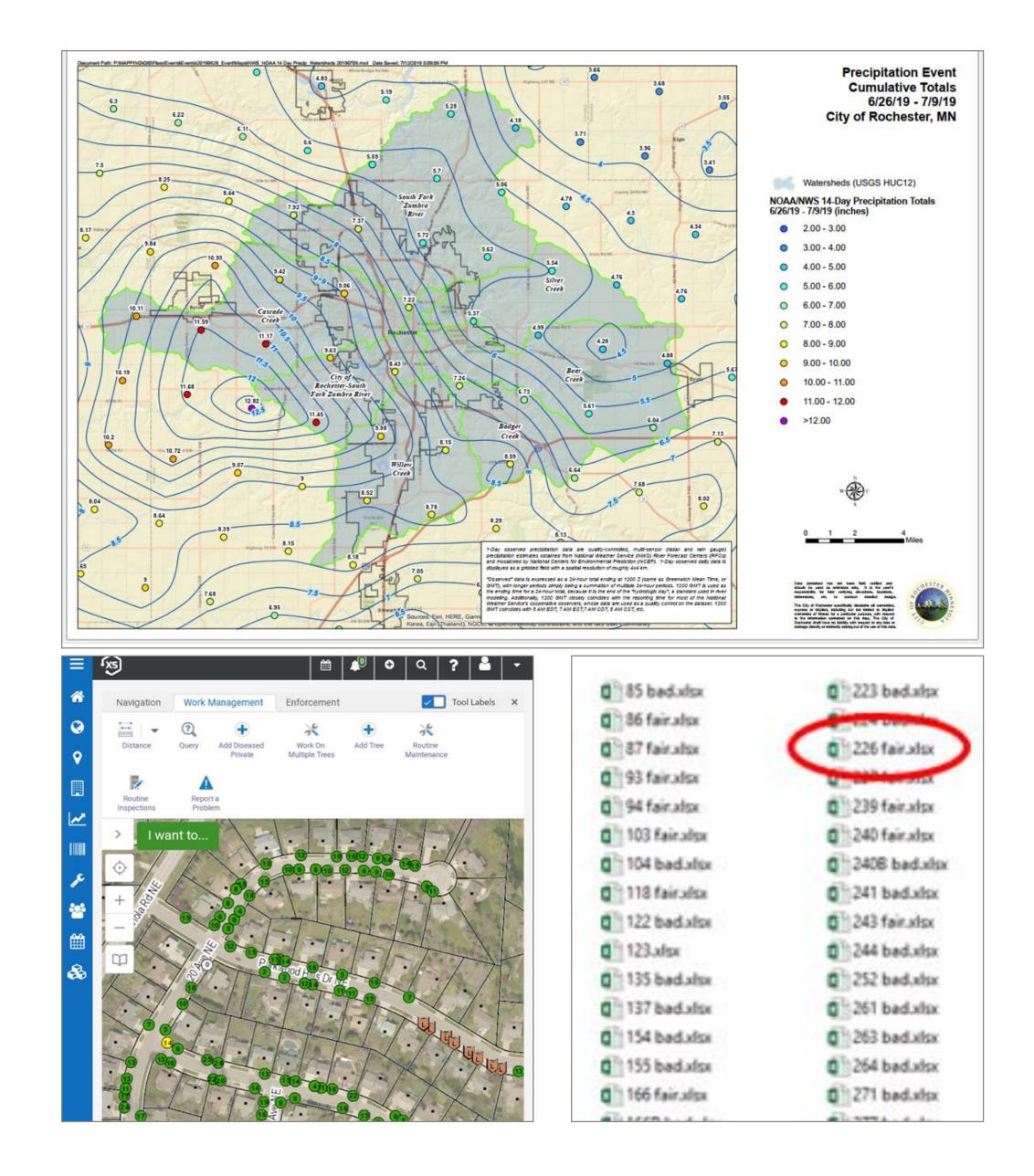
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Reach Mapping Parameter Table InundationMappingParameters River Reach Use Existing Downloaded XML File: XML File Path (optional)		This application downloads the NWS current and forecasted flood levels at a specified gage and updates the current and forecasted flood level and flood depths on the map based on the downloaded data. Currently, the application contains inundation data for the following river reaches reaches/gages:	
		1. SOUTH FORK ZUMBRO RIVER AT	
<[]	3	3" Step 2: Create Table of Impacted Parcels	3
OK Cancel Environments <<	Hide Help	Parcel Layer Parcels Step 2: Create Table of Impacted Parcels This script will summarize the parcels affected by the observed and forecasted river levels. The output includes the percentage the parcel is/Will be inundated, and the estimated minimum, mean and maximum depths (in feet above the ground surface) of the inundation. The output is written to a dBase table that can optionally be sent to Excel. NoTE: This script requires a Spatial Analyst License. Note: This script requires a Spatial Analyst License.	*
		OK Cancel Environments << Hide Help Tool Help	

Focus Item: Custom Desktop Tools

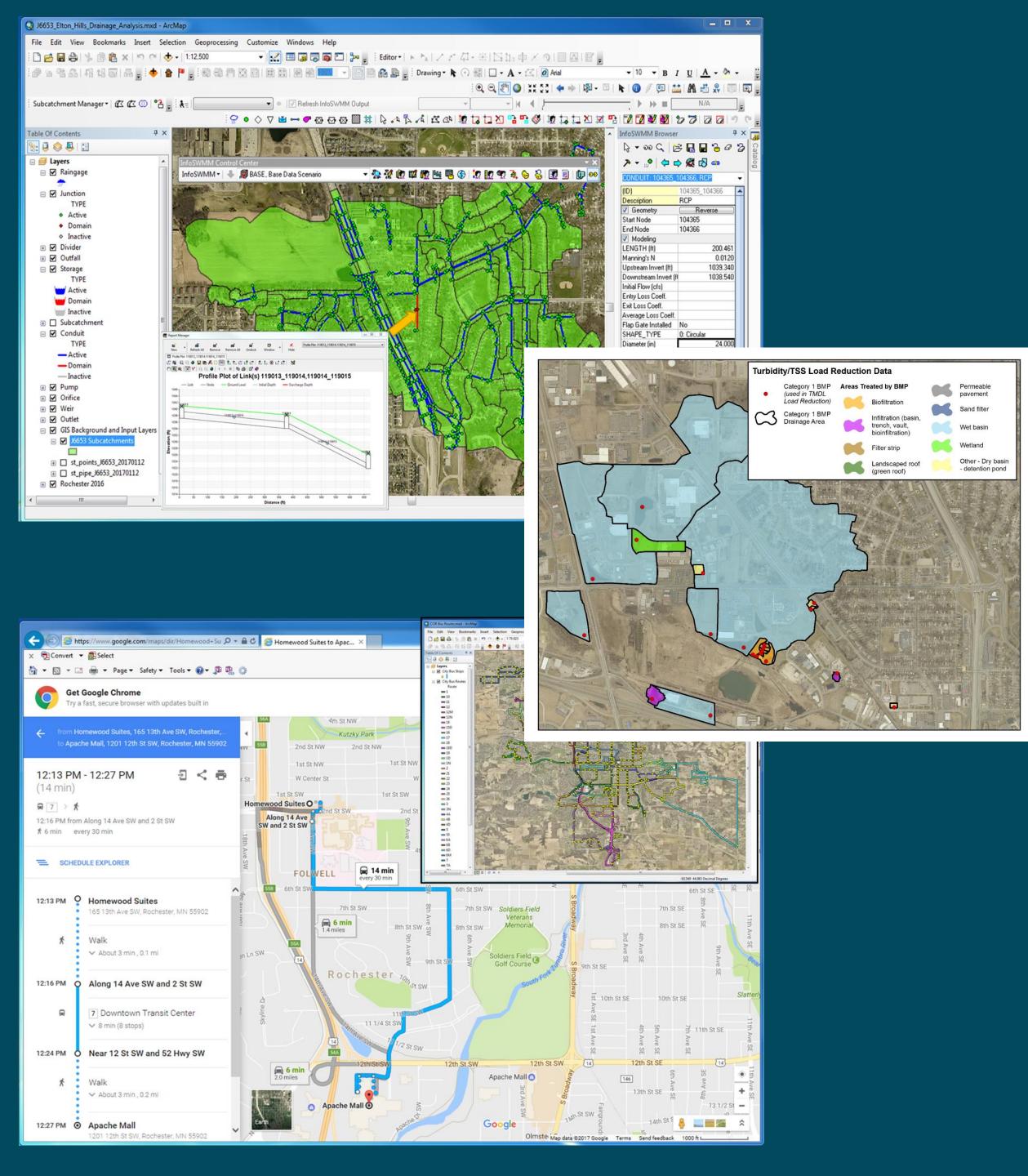
- Goal(s): automate common tasks, improve simplify access to data, generate data, process data
- Collaborators: GIS, all GIS users 🕰
- Processes: add data layers tool, search tools, flood inundation mapping, custom layer creation, etc.

History – 2010s

- 2010s introduced many big changes and numerous new GIS requests!
- 2013 started development of "ElementsXS" W&AMS, MS4Front AMS in 2017
- Migrating processes from spreadsheets and databases to Elements and MS4Front
- Field collection via first City mobile devices
- New routing, analyses and modeling efforts



9 SLIDE

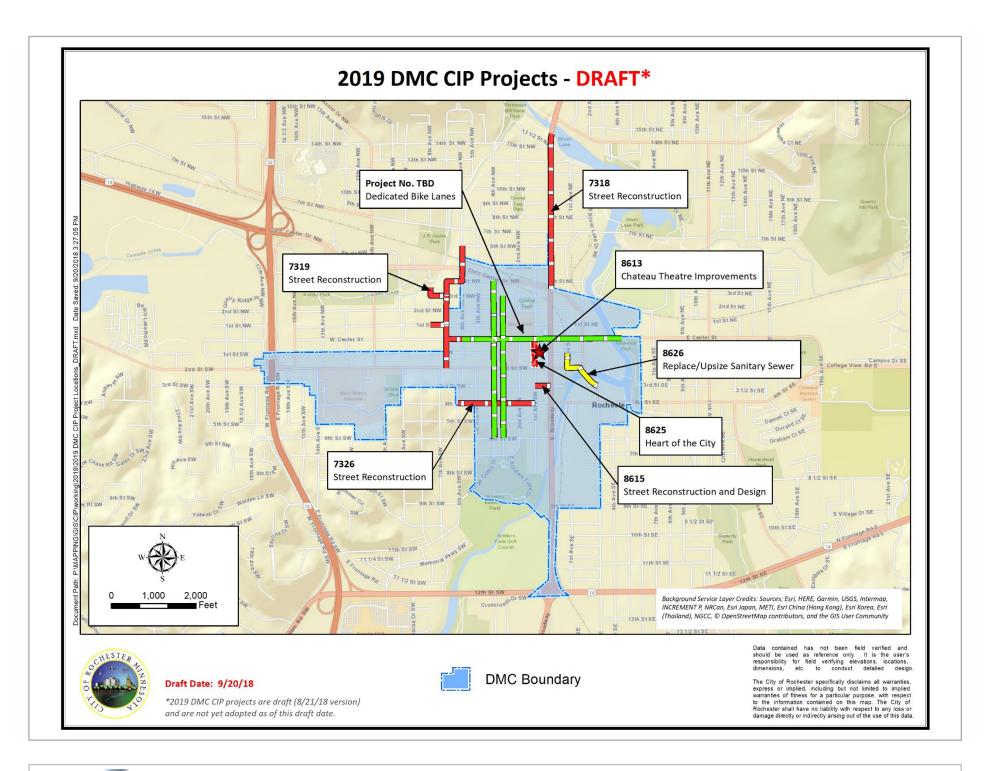


Focus Item: Modeling/Analyses/Routing

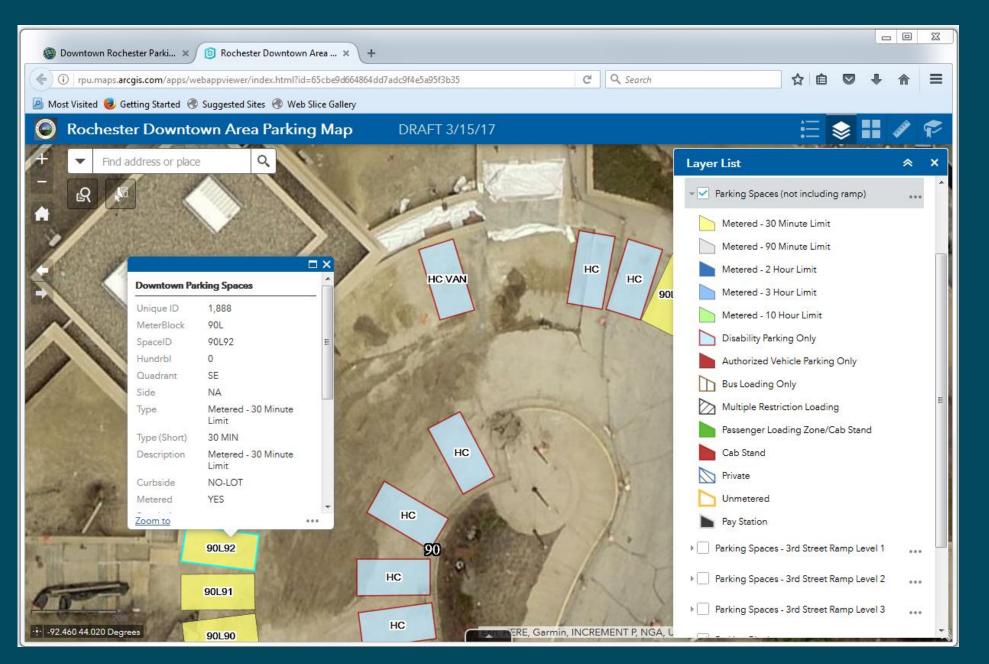
- **Tasks:** modeling, analyses & routing for reporting, studies, planning, budgeting, etc.
- Collaborators: GIS, Public Works (many divisions/groups), Community Development, Emergency Management <u>S</u>
- Processes: MS4 TMDL pollutant reduction modeling, precipitation grids/interpolations, InfoSWMM stormwater modeling, flood inundation, school siting, sanitary sewer capacity analyses, bus routing/GTFS, etc.

History – 2010s

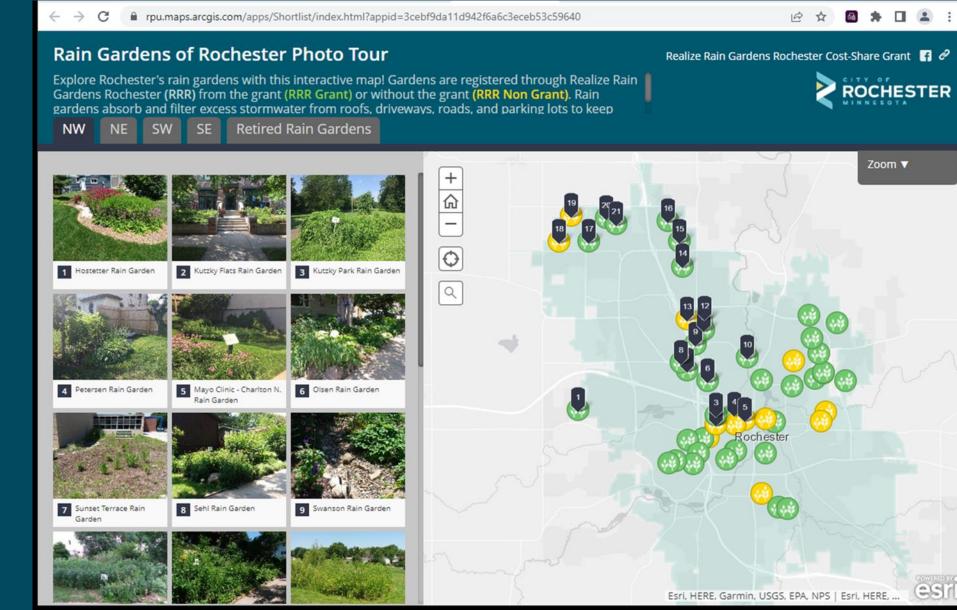
- First, public-facing ArcGIS Online web applications rolled out
- Major DMC transportation studies & DMC Project Managers team setup in-house
- Growth 3rd GIS position approved 2017 ^O
- Community Development Department set up in 2018
- Collaboration w/Olmsted Co. GIS to access replica database (no more ftp copies!!③)



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- OC_GIS_PUBLICATION.DBO.Basemap
- C_GIS_PUBLICATION.DBO.Boundaries
 - OC_GIS_PUBLICATION.DBO.Administrative_Jurisdictions
 - OC_GIS_PUBLICATION.DBO.Annexations
 - OC_GIS_PUBLICATION.DBO.Appraisers
 - OC_GIS_PUBLICATION.DBO.CtyLmts
 - OC_GIS_PUBLICATION.DBO.DMC_Boundary
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Downtown Metered Parking: GIS, Public Works (ROW & Transit)



Thank you Teresa Blader!!



RRR Tour: GIS, Public Works (Water Resources)

Focus Item: Early Public Web Apps

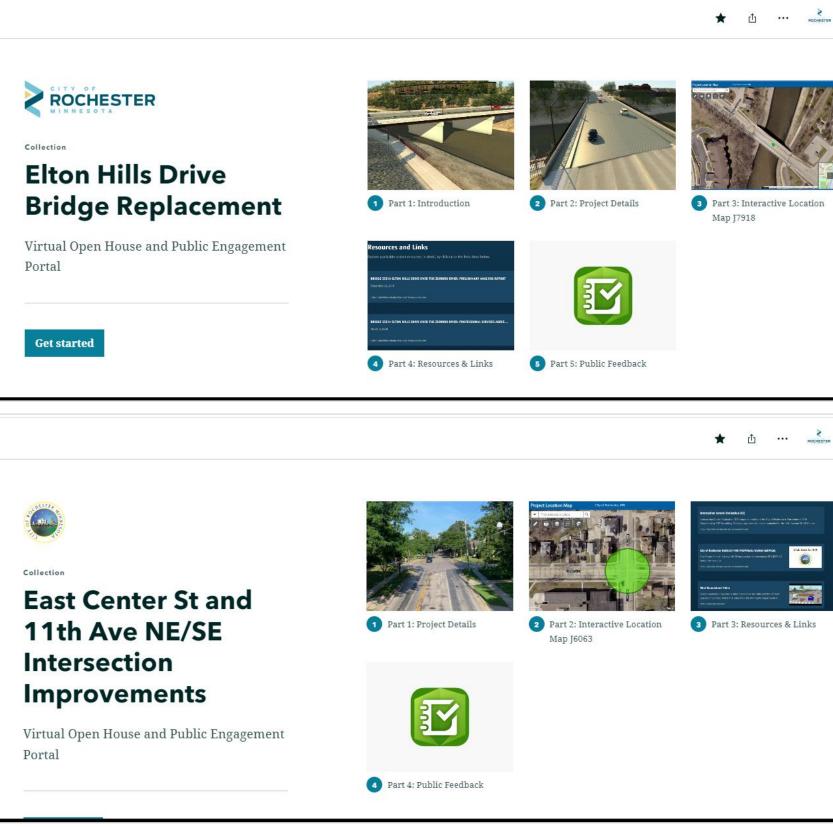
- Goal(s): one-way (and a bit of two-way) engagement for message dissemination, information transfer
- Collaborators: GIS, Communications, Public Works, RNeighbors
- Applications: Metered Downtown Parking,
 A Litter Bit Better Registration, Realize
 Rochester Raingardens Tour, Capital
 Improvement Project (CIP), etc.

History – 2020

- Already really busy and then BOOM along came covid!
 - business model changed to "everything" virtual"
 - virtual open house apps, dashboards, surveys, etc.
 - virtual/remote support to City GIS users
- Significant support to EOC Covid-19 **Planning Section**

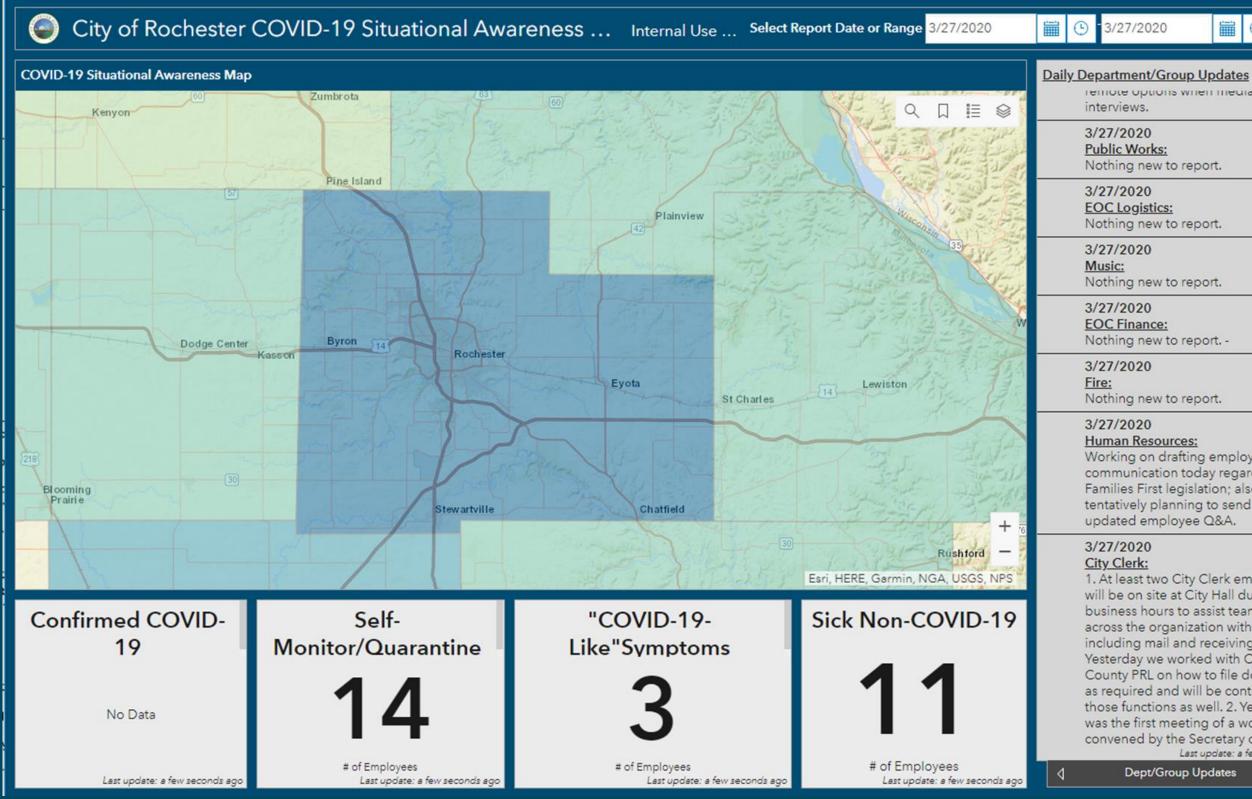
Important Messages

- March 16, 2020: Accessing GIS Data During COVID-19. To keep essential functions moving please use these instructions to access spatial data over the duration of the COVID-19 pandemic:
 - If you need to access base data (i.e. address information, parcel information, road centerline data, etc.) the public Olmsted County GIS web map application page is the preferable tool
 - https://gweb01.co.olmsted.mn.us/WebApps/OlmstedCountyGISMap/
 - If you need further access to ArcGIS to perform essential functions in the field/while disconnected from the network, please view the "ArcGIS Desktop - Downloading Data onto a Local Drive for Field Use" SOP for transferring data onto a local drive.



13 SLIDE





COVID Planning & Monitoring: GIS, EOC, City Departments (all), external

stakeholders (community lifeline reporting)

Applications Used: Survey123, Survey123 Connect, Dashboards

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remote options when media requests

Working on drafting employee communication today regarding Families First legislation; also tentatively planning to send out

1. At least two City Clerk employees will be on site at City Hall during business hours to assist teammates across the organization with functions including mail and receiving items. Yesterday we worked with Olmsted County PRL on how to file documents as required and will be continuing those functions as well. 2. Yesterday was the first meeting of a work group convened by the Secretary of State Last update: a few seconds ago

Dept/Group Updates

D

COR COVID-19 Department Updates

Designated department or group representatives are to use this survey to log daily updates for the internal COVID-19 situation report.

Name (First Last):*

Please submit your name so that you can be contacted with any follow up questions based on the answers provided in the following survey. Response is required.

Example

Departmental Update Item(s) 🐨

Add applicable daily update details for your department or group.

Item Date:*

Add applicable date pertaining to item update. This is a required question.

2/6/2023

Department or Group:*

Select applicable department or group. This is a required question.

Item Description:*

Public Works

Please add new updates for your department. If no changes, leave default answer.

Nothing new to report. Example only

COR COVID-19 Illness Survey

This survey is for internal use only. Each department must report on the types of illnesses employees are experiencing during the COVID-19 pandemic. The survey results are confidential and will only be shared with the City of Rochester Human Resources Department and the EOC Planning Section Chiefs. Results may also be shared in EOC Situation Reports and with department leaders.

Do not report the names of any ill individuals. Human Resources will contact you directly if they need more detailed information based on the survey results for your department.

City of Rochester COVID-19 internal employee illness survey. Updated on 11/18/2020.

Department:*

Please select the department you are reporting for. This is a required question.

Human Resources

Your Name (First Last):*

Please submit your name so that Human Resources can contact you with any follow up questions based on the answers to the following survey. Response is required.

Test Example

Illness Report Date:*

If reporting for a date other than today's date, please manually change the date. Response required.

2/6/2023

Number of employees with confirmed COVID-19 working remotely: Please report the number (integer) of employees with confirmed COVID-19 that are still working remotely.

COR COVID-19 EOC	Community Lifeline Tracking
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The City of Rochester Emergency Operations Center (EOC) is requesting your response in this survey to identify and track the status of Community Lifelines during the COVID-19 pandemic.

Please relevance the PENIA Community Ute/inex Topict for a description of each lifeline: https://www.fema.gov/media-library-data/1576770152678-5719664c3d0910319da967d478d9c/CommunityLlatinesToolkit2.bv2.odf

Name (First Last):	

This is a required question.

Example

Department, Organization, Group, or Business:*

This is a required question.

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Community Lifeline:*

Select a community Heline. This is a required question. See Inited document above for startlication of Malines and their subcategories.

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Food, Water, Shelter Subcategory:*

Select the corresponding subcategory. This is a required question,

ood and Water	*

Community Lifeline Service Disruption Level:*

identify the service disruption level of the lifetime. This is a required question.

- 1 Normal service
- 2 Threat of service disruption
- 3 Service disruption imminant A - Significant service dariation

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Disruption Level Explanation:*

Please briefly tell us why you ranked the Community Lifeline at the selected level. This is a required question.

Example only

EOC Assistance?"

Does your department, organization, group, or business need assistance from the EOC to preserve the Heline, or to prevent service level disruption to the Heline?

No	
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No change necessary.	
	Submit

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ArcGIS Survey123	My surveys Orga	nization Help				
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	ort 🗸 Open in Map Viewe	er Form view 🌔				
Report ② 🗙	COR COVID-19 EOC A	cti × Planned Acti	ons	×		
1. Choose records to include Selected records only (0) All records in the table (7)	Report Submittal Date	EOC Section	Other	Operational Period Section Chief Name (First Last):	Section Chief Name (First Last):	List Issues Problems,
2. Select a template <u>Manage templates</u> COVID19_EOC_Sections_AP_S123_Template_Final.docx •						
3. Output settings File options ② Split Report name ② ★	Apr 13, 2020	EOC Continuity of Operations		Linda Hillenbrand	Linda Hillenbrand	None noted
COR COVID-19 EOC Action Plan - Section Updates_OID\${objectid} Save to my ArcGIS account Survey-COR COVID-19 EOC Action Plan - Section Updates Format	Apr 13, 2020	EOC Finance		Dale Martinson	Dale Martinson	Full cost red teammates their time / equipment
Microsoft Word (.docx) Show credits Preview sample report ? Generate	Apr 13, 2020	EOC Operations		Kris Jungels	Kris Jungels	None noted
Recent tasks >	🔲 🗐 0 of 7 selecte	d 🗏				

Custom Reports: built required format in s123/Word for automated reporting of weekly Departmental Action Plan reports and Unified Command

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es, Concerns, s, Desires:	Actions Completed	● Deputy Name(s) (F Last):
	finalized and shared on social media, looking into PEG options. Welcoming messaging for all Rochester residents: coloring page created and shared, color "live" with RPL happening on 4/13.	
ed.	Communication sent out to Day Center management team advising them of initial steps taken; communicated with Paul Widman on contacts to be made within his department. Reviewed illness report for last week; no opportunities existed to reassign employees. Two City Attorney employees have been reassigned to Day Center.	Tim Comstock, Jennii Simpson
recovery. Will es actually cost e / purchases / it use.	*Joe Bertram from finance costing section submitted registration for FEMA Grants Portal * Registration to FEMA Grants Portal Complete. Login obtained.	Rachel Houdek
	*Time costing instructions send to all personnel. *Special instructions for a/p and payroll liaisons to assist in working with teammates.	
ed.	Consulted with HHS and COOP on staffing plan for Day Center.	со
	Delivered additional thermometers to Day	

Delivered additional thermometers to Day Center. Sent Fire Department personnel to Day Center to troubleshoot thermometers that are not working properly. Verified that Fire Department is looking for Infrared thermometers to purchase through Logistics.

Uploaded Day Center Operations Plan to DLAN Neffective (Barnel for an and Included

COVID-19 EOC Action Plan: Section Update Section: EOC Logistics

		Derational Period Detai	s									
	Report Submittal Date:											
		Operational Period Section Chief: Jenny King										
		Section Chief: Jenny King										
	Deputies: Curt Pronk, And											
		s, Concerns, Problems, E										
		Logistics to fill supply reques requests, including PPE reque rd.										
		Planned Actions										
	Operational	Strategies	Tactics/Work									
	Objectives/	HOW	Assignments									
	DESIRED OUTCOME		WHO, WHAT, WHERE,									
			WHEN									
	Finalize homemade mask	Final Directives Given.	Call Center, PIO, EOC									
	donation program		Manager, and Logistics to									
			develop final operation									
			when all details are known									
			and worked out.									
			Determine receipt and									
			inventory of completed									
			homemade masks as well									
			as distribution process.									
			Assign tasks to support									
			this effort.									
	Continue to monitor City	Compile/track information.	Procurement and Supply									
	Departments PPE usage.		Units utilize spreadsheets									
			to monitor supply orders									
	1	1	received and usage.									
			curement and Supply									
a	FOC Action Plan: Sect	ion Undate	ts contacting known									

D-19 EOC Action Plan: Section Update Section: EOC Public Information

Report Submittal Date: Operational Period Secti Section Chief: Megan Mo	ion Chief: Megan Moeller eller	15
Operational Period Secti Section Chief: Megan Mo	ion Chief: Megan Moeller eller	
Section Chief: Megan Mo	eller	
Deputies: Sarah Oslund		
	, Concerns, Problems, D	Desires
	on updates. General public n	
	quire assistance to create cor	
,,		<u>-</u>
	Planned Actions	
Operational	Strategies	Tactics/Work
Objectives/	HOW	Assignments
DESIRED OUTCOME		WHO, WHAT, WHERE,
		WHEN
Assist with how to	Social media/online is the	PIO Team assisting
proceed with Mayor's	only option due to	Mayor/Mayor's assistant
"Morning with the Mayor"	distancing requirements.	with vetting technology
monthly event.		options, procuring platforms if needed,
		collecting questions and
		facilitation of the event.
Thank you video for mask	County JIC initiative.	County JIC teammates are
donation.		leading this effort. PIO
		Team will help with
		messaging and arranging
		for teammates to be the
		face/voice of COR's
		homemade mask
		recipients.
laint managing same disc	Completed Actions homemade face masks has b	and contract Neuralatter

Joint messaging regarding homemade face masks has been sent out. Newsletter moving to twice weekly (Mondays and Thursdays). Messaging about youth needing to distance has been pushed onto social, radio and news release. Messaging about distancing in parks has been communicated via news release and social (signage coming to parks/trails soon). One-pager from non-profit consortium has been finalized and shared on social media, looking into PEG options. Welcoming messaging for all Rochester residents: coloring page created and shared, color "live" with RPL happening on 4/13.

/ sources. proved by Unified

rces and investigate

assist with



Current Initiatives

- GIS requests and applications/uses are growing rapidly
 - still doing all of the "old stuff" but web and asset management a focus
- New AGOL applications: hubs, surveys, Experience Builder (and migration of existing apps to EB)
- Collaborations with consultants to build apps together
 - add value and increase efficiencies
- Continued module development in Elements and MS4Front
- Existing program support and work on new programs/initiatives (e.g. project management, analyses, policy & process improvements, etc.)

Current Initiatives

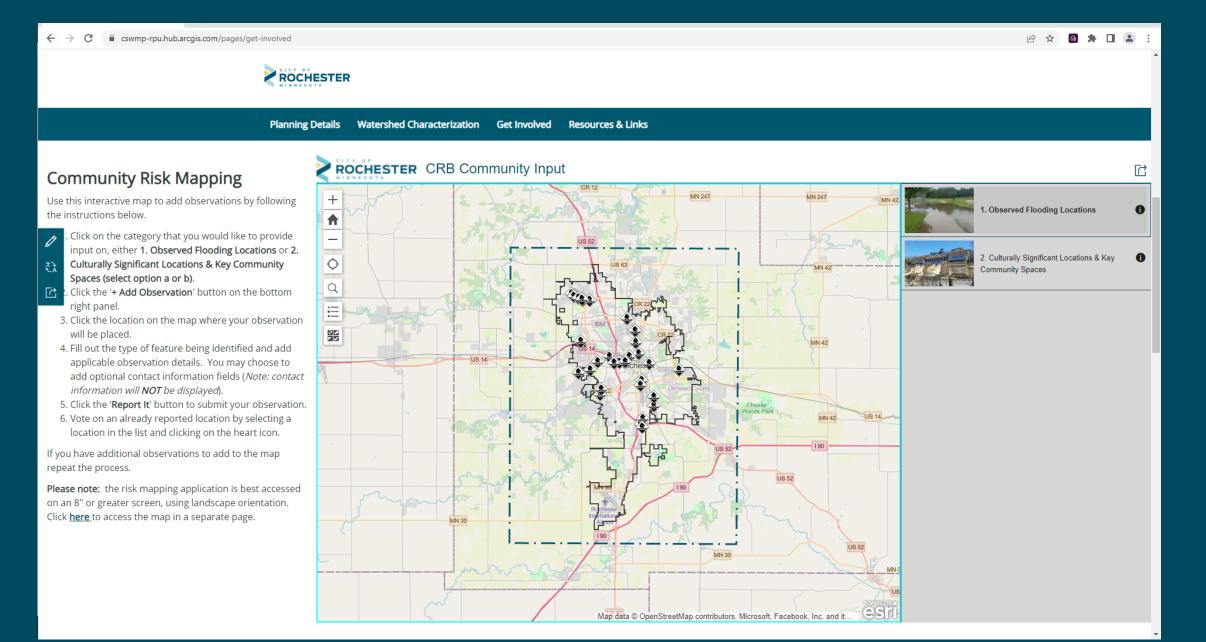
- Annual work & action planning to prioritize tasks
 - align initiatives with City's foundational goals & strategic priorities
 - working to fulfill existing tasks and also accommodate new needs
- Continuing to build the "GIS brand" via templates, SOPs, etc.
 - expand "best practice" and "data transmittal" documents built several year

ago, build on that

New teammates: this week added the 4th GIS position

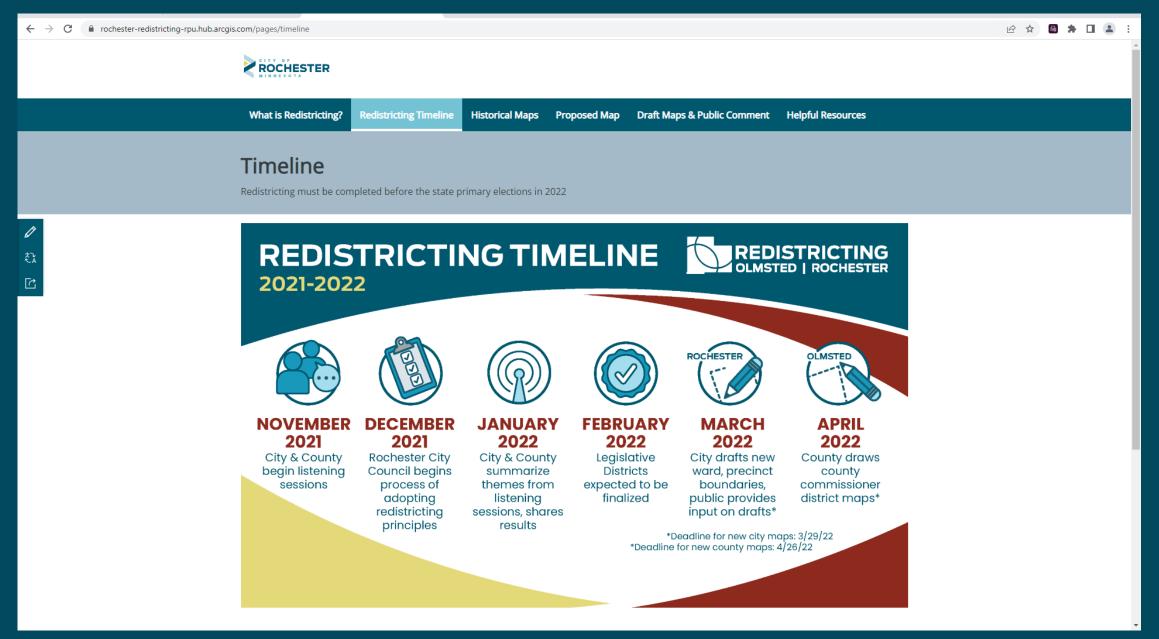
WELCOME to Jay Forstner, the new GIS Manager!!!!

A	В	Ľ	U	E	F	
Develop	oment Services Infr	astructure: Public	Works			
Tactics (T)/Key Peformance Indicators (KPI)	Foundational Principle(s) Supported	Strategic Priorities Supported	Lead Teammate(s)	Support Teammates	Completion Da	
Goal 1: Effi	cient Asset Management	t Systems (*CONNECTIN	IG GOAL)			
Tactic 1: Continue to Implement modules within centralized systems: MS4Front (MCM3 Outfalls Module, MCM 4/5 ESC Inspections Component - single lot, MCM6 SW Pond & Str. BMP Modules)			Christy Shostal	Mike K, Ryan T, Aaron C	12/31/2	
Tactic 2: Continue to Implement modules within centralized systems: Elements (Pavement Maintenance, Traffic Group)			Kevin Morrissey	Infra. Maintenance	12/31/2	
Tactic 3: Standardize processes and reporting (permitting, sidewalk inspections, MS4 outfall inspections, flood event inspections):	Fiscal Responsibility and Sustainability	Quality Services for Quality Living & Economic Vibrancy and	Christy Shostal, Kevin Morrissey	Water Resources	12/31/2	
Tactic 4: Engage/train users with new systems, continue collaboration with PW Subject Matter Experts (SMEs), identify additional PW SMEs		Growth Management	Christy Shostal, Kevin Morrissey, Carolyn Enright	Dan Plizga, Josh DeFrang, Tyler Spies	ongoing	
Key Performance Indicator 1: Decreased time spent to produce quality reports						
Key Performance Indicator 2: Software cost savings	-					
Key Performance Indicator 3: Number of system end users	-				L	
Key Performance Indicator 4: Number of processes migrated/improved	Goal 2: Quality D	ata Undatao				
	Goal 2. Quality L		1	1	1	
Tactic 1: Update/archive old data (other org. sources)			Christy Shostal	Carolyn Enright	12/31/2	
Tactic 2: Update/archive old data (COR sources)			Christy Shostal	Carolyn Enright	12/31/2	
Tactic 3: Retrieve best data (collaborate with Olmsted Co. & RPU)	1		Kevin Morrissey		6/30/2	
	1					
Tactic 4: Reorganize data servers		Quality Services for	Kevin Morrissev		6/30/2	
Tactic 5: Define processes (internal tips and tricks/SOPs hosted on GIS page on Rochester@Work)	Fiscal Responsibility and		Christy Shostal, Carolyn Enright	Kevin Morrissey	ongoing	
Tactic 6: Identify data stewards	Sustainability	Quality Living	Kevin Morrissey	Christy Shostal, Carolyn Enright	12/31/2	
Key Performance Indicator 1: % of data sources audited, archived, and updated (all sources - other org. and COR)	•		in the manager	ennisty enested, esteryn zinigin		
Key Performance Indicator 2: Data server reorganized (Y/N)	1					
Key Performance Indicator 3: Number of processes identified/documented]					
Key Performance Indicator 4: Number of data stewards assigned (handoff)						
Goal 3: Improve	ed Internal and External C	Customer Experience 8	Engagement	1		
Tactic 1: System update and expansion (internal)			Kevin Morrissey		1/31/2	
Tactic 2: Grow the internal self-service opportunity (i.e. via ESRI online training courses for teammates, COR GIS SOPs/instructions)			Christy Shostal, Carolyn Enright		6/30/2	
Tactic 3: Grow the external/public experience (interactive web maps, feedback surveys, virtual open house story maps)			Christy Shostal, Carolyn Enright		12/31/2	
Tactic 4: Maintain twice-weekly 15 min team meetings to share knowledge, work order status, and coordination on projects.	Compassion, Fiscal Responsibility &	Quality Services for	GISTeam		ongoing	
Tactic 5: Provide core Cor datasets to consultants/outside agencies in efficient manner.	Sustainability, Public Safety, Social Equity	Quality Living	Christy Shostal, Kevin Morrissey		12/31/2	
Key Performance Indicator 1: ArcGIS 10.7/10.8 in place (V/N)						
 Traffic Infrastructure Maintenance Land Develop 	ment Transit P	arking Systems F	Fleet & Facilities GIS	Support Services (+)	



CSWMP Update Public Hub: crowdsource maps, surveys, story maps,

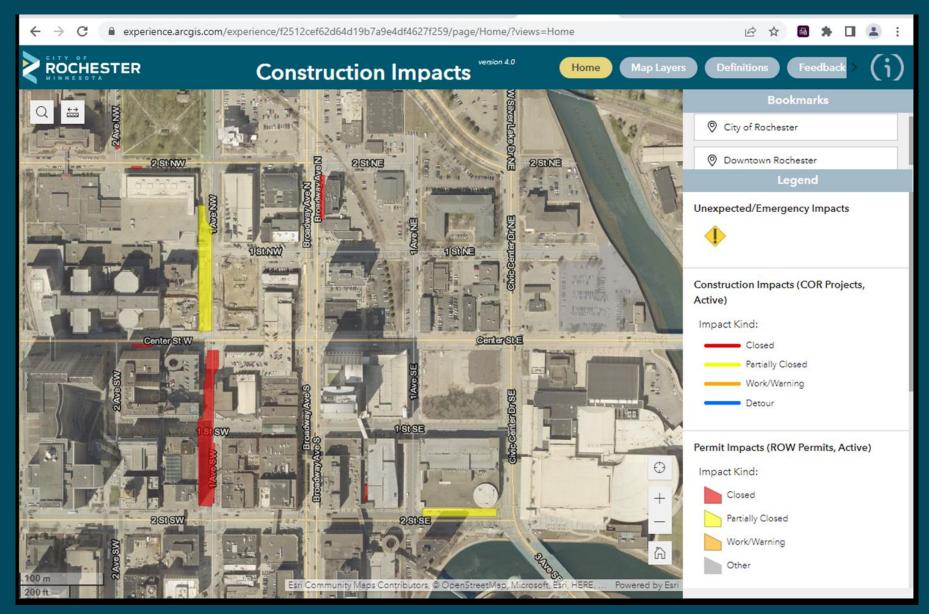
document access, etc.



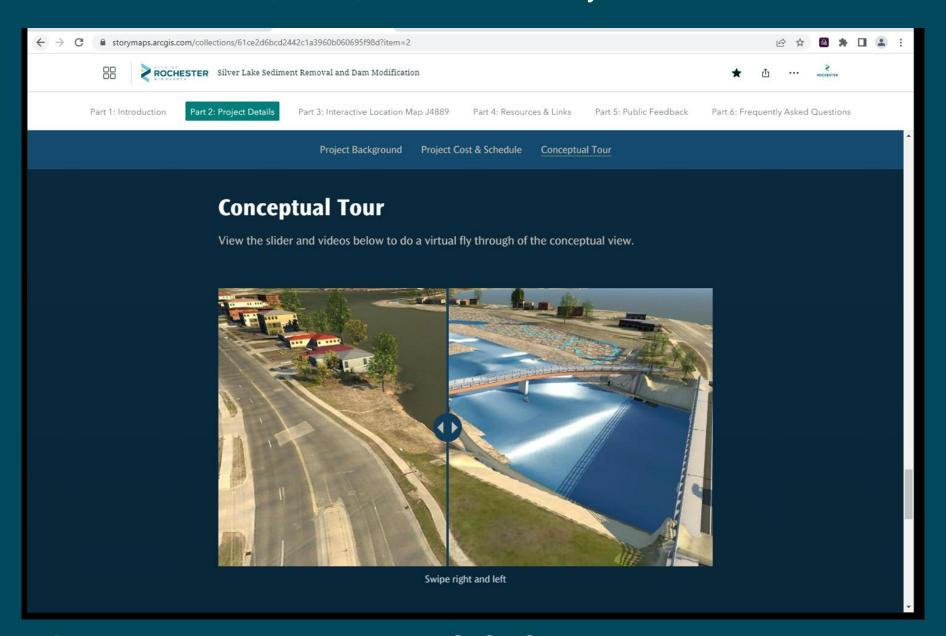
Redistricting Public Hub: crowdsource maps, surveys, information sharing

Focus Item: Public Engagement Applications

- Goal(s): two-way engagement (crowdsource web maps, surveys, live meeting access, graphics, videos, project details, virtual tours, etc.), information sharing for situational awareness
- Collaborators: GIS, Communications, Public Works, Community Development, Parks & Rec, Administration, Consultants, other organizations, community
- **Topics:** construction impacts, redistricting, plan updates, City projects & programs, etc.

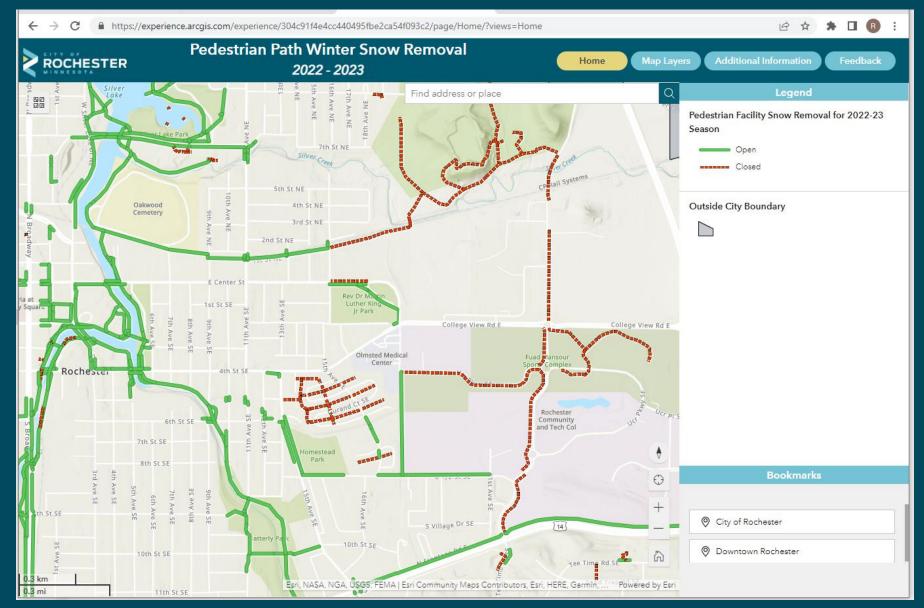


Construction Impacts: GIS, Public Works, Administration, Communications, RPU, Olmsted County

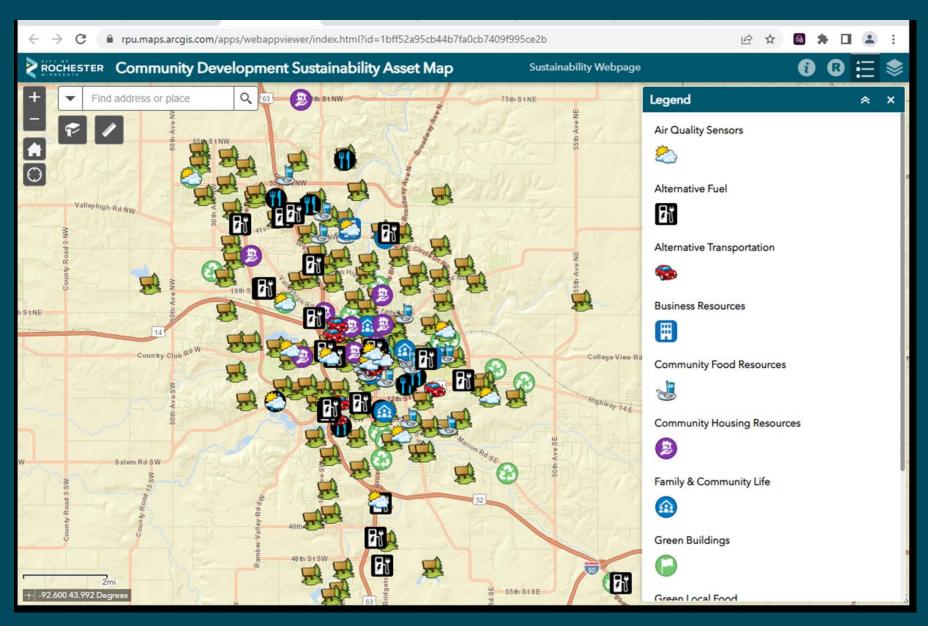


Virtual Open House Apps: GIS, Communications,

Engineering, Parks & Rec

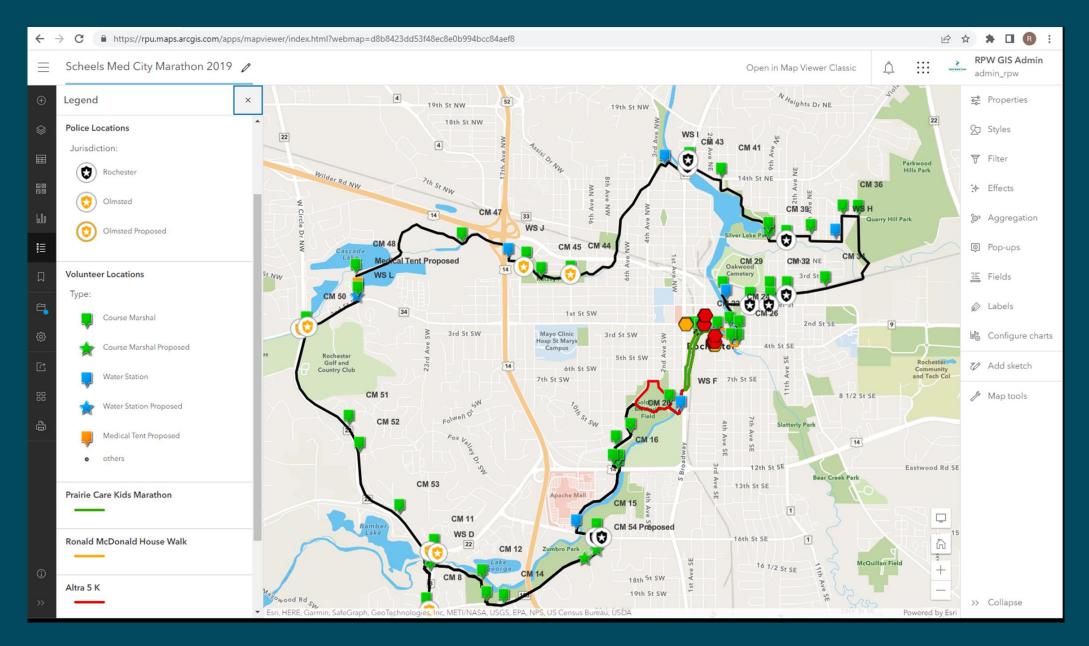


Winter Snow Removal: GIS, Public Works, Parks & Rec

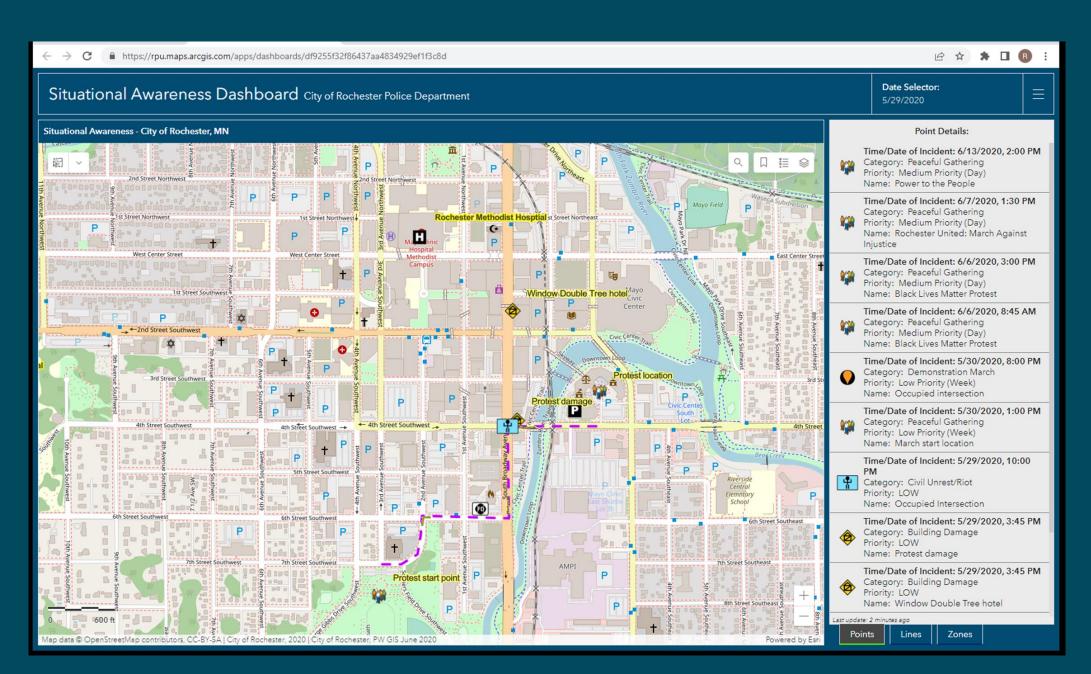


Basic Web Apps: GIS, Communications, Administration,

Community Development



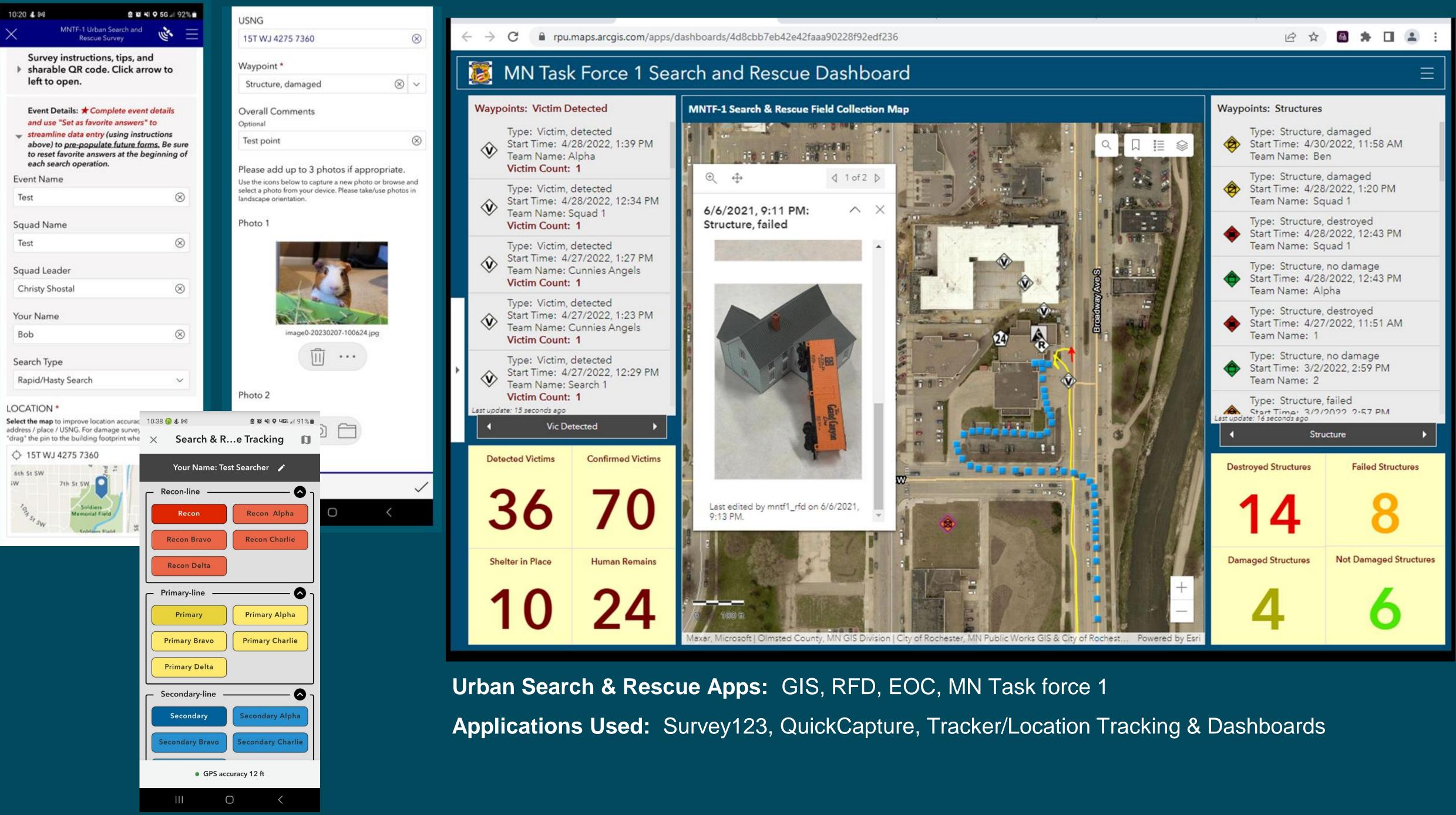
Internal Maps: GIS, Public Works, RPD, Olmsted Sheriff's Office

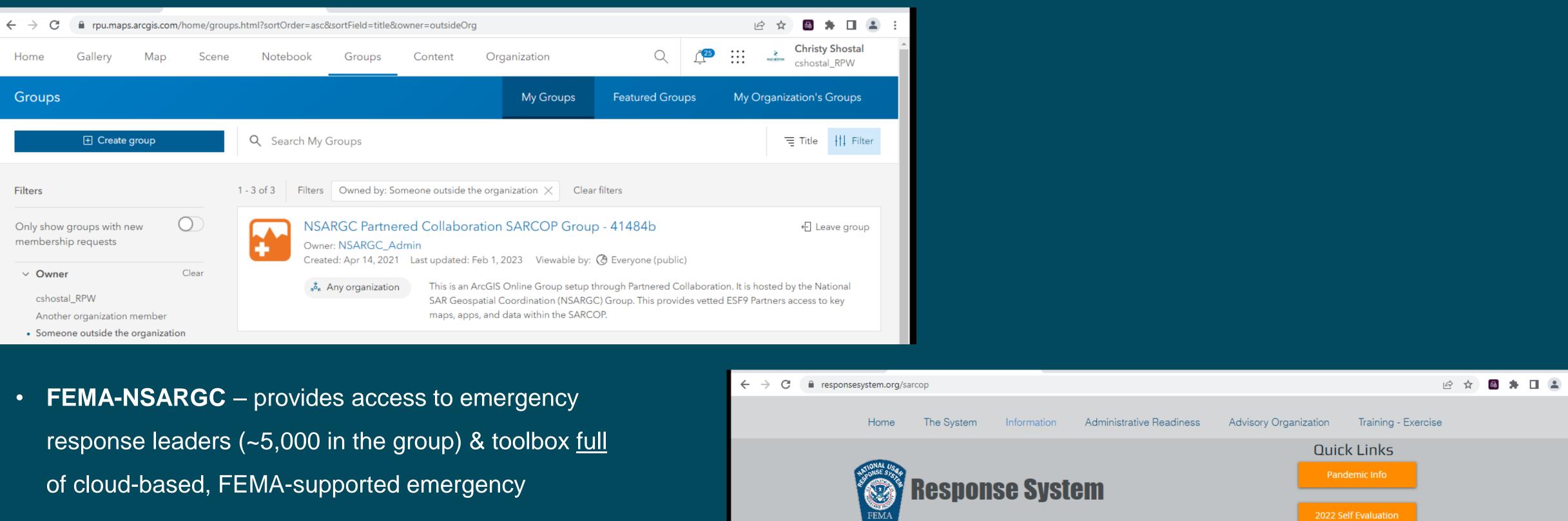


Internal Dashboards: GIS, Public Works, RPD

Focus Item: Emergency Response Applications

- **Goal(s):** collect information to allow for realtime situational awareness, efficient production of reports, data collection
- **Collaborators:** GIS, Public Works, Emergency Response (EOC, RFD, RPD), outside organizations (FEMA – NSARGC, Olmsted County, RPS, Mayo, etc.)
- **Topics:** covid-19 response, civil unrest, large event planning, flood event response, MN Task Force 1 Urban Search & Rescue, etc. 20 SLIDE





- response apps
- Group is doing updates, additions, enhancements, ullethosting meetings, and providing training continuously

Various levels of collaboration adding <u>continuous</u> value to all that we do!!

Search & Rescue Common Operating Platform (SARCOP)

National Urban Search & Rescue Response System

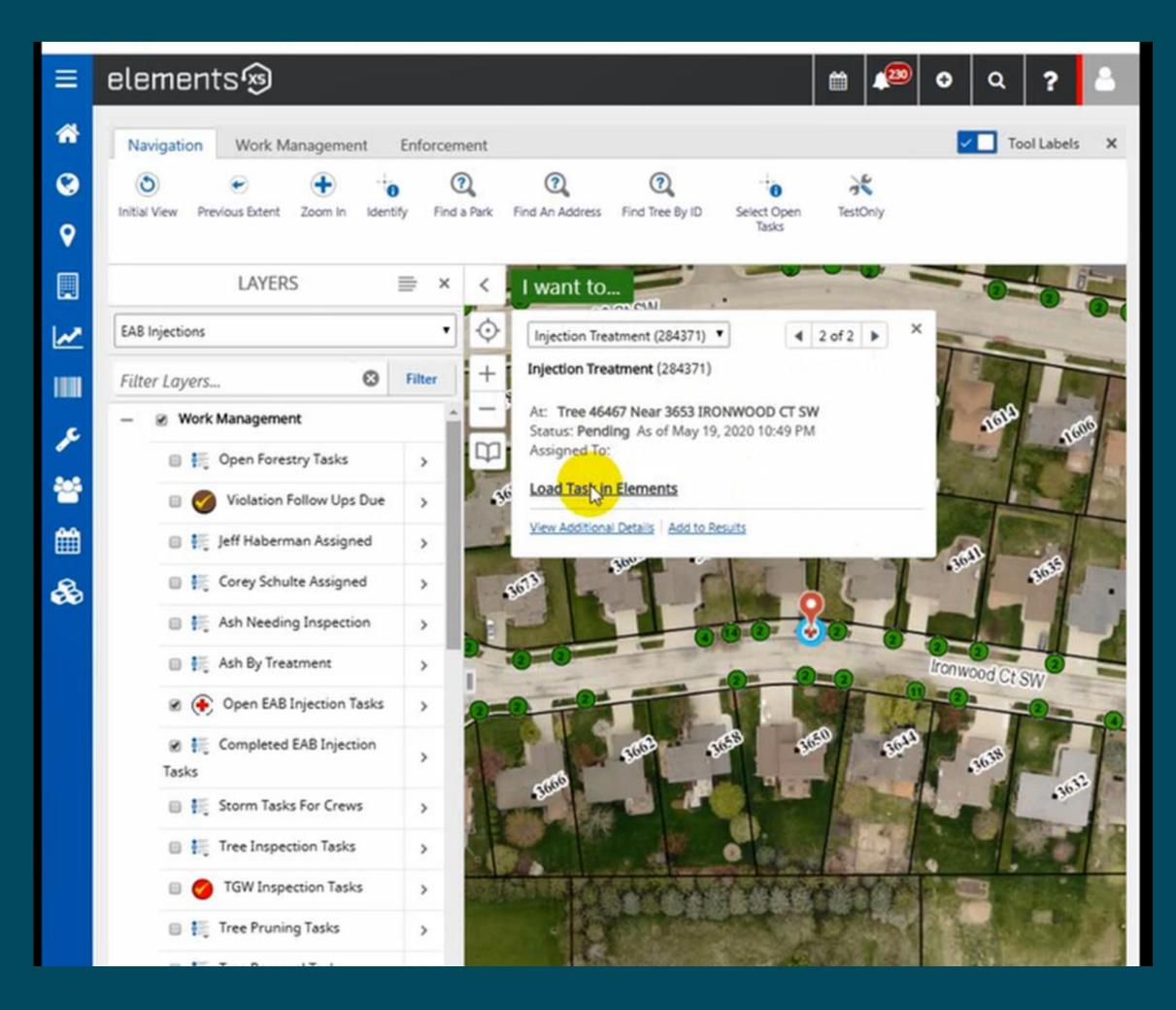
The following references should be used for field data collection as well as current SARCOP documentation

REAL WORLD ONLY! TRAINING ONLY! SAR Common Operating Platform Training Sandbox *Requires your FEMA or SUSAR ArcGIS Online username and Please contact jdoke@publicsafetygis.org if you run into any issues or password to login. If you need assistance, please contact fema-usrhave questions about the NAPSG Foundation Training Website or gis@fema.dhs.qov or your SUSAR ArcGIS Online administrator. materials.

Field Data Documentation and Rules of Engagement



Post-Mission Instructions



EAB Injections: GIS, Forestry

Focus Item: ElementsXS Work & Asset Management System (W&AMS)

- Goal(s): streamline & coordinate work

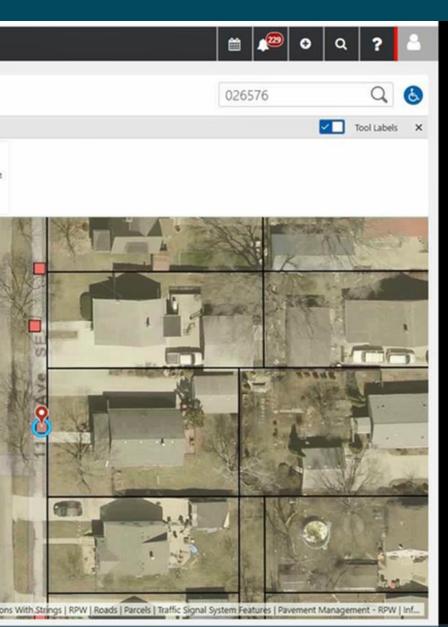
 (field/office), structure data, collect and present
 real-time information to allow for situational
 awareness, produce efficient reports/data queries
- Processes: sidewalk snow removal, ROW permitting, tree maintenance, EAB injections, sanitary jetting, subdrain inspections, sign maintenance, sidewalk improvement district, etc.

https://elements.rochestermn.gc × + ← → C ■ elements.rochestermn.gov/App/	WorkManagement Ken in Or	er/Default WB4 Conf	coOcdare 10	× - □	×	
Rochester @ Work				🖈 🛪 🖬 🕻		
Task 361591 (Log Sidewalk De	efect)	105	\$ 🛒	00 00	× Dista	Time Slider New R
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Replacement Details						
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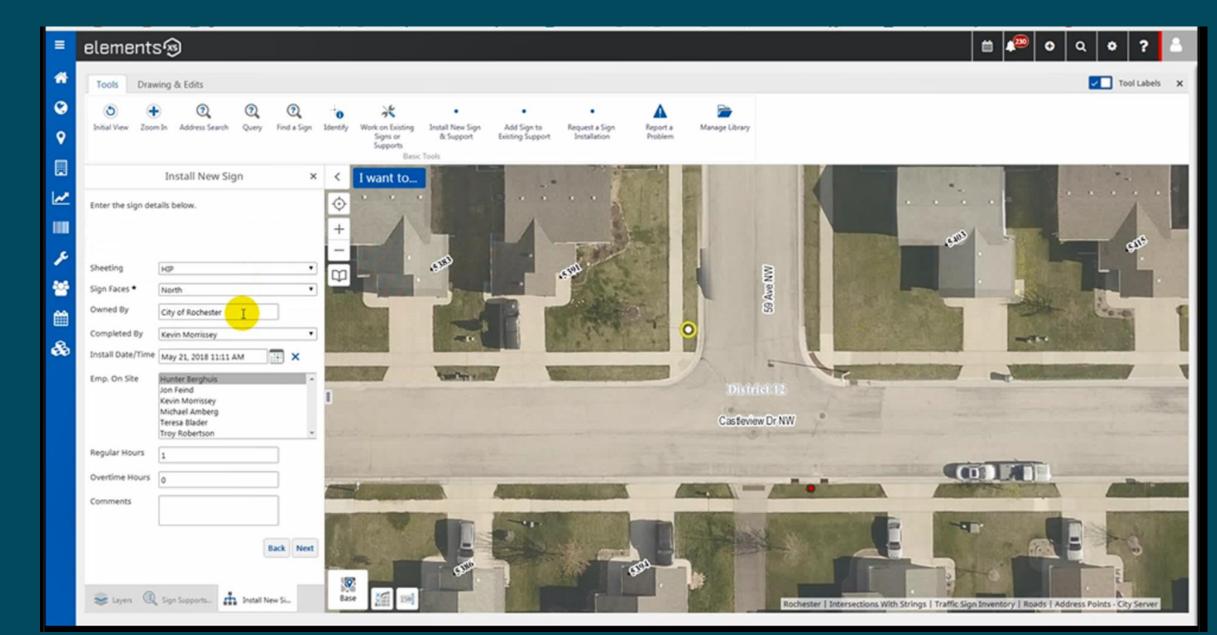
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Reference Data	Inspection (Task: 130121)	
Filter Layers 😵 Filter +	Inspection (Task: 130121)	
- 🕑 Work Management	Structure: Subdrain ID 307 Status: Completed as of Apr 9, 2018 6:05 PM Assigned To: Tyler RotoRooter	
Open Inspections	•2 ⁻	51 ⁷³ 51 ⁵⁷
☐ ₩ Other Open Subdrain Tasks	Load Task Load Structure View Additional Details	.51 ¹¹
Completed Inspections		
Other Completed Subdrain Tasks	Ridgeview Dr NW	5125
Latest Inspection Details		
- 🗷 subdrain	5252	308
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		1573
🗉 👯 Other Drain Structures 🔉		1573
🗈 🞼 Other Drain Lines 📏 🗸		
Sa Layers	e 20 40t 339]	rpw Intersections With Strings Parcels Roads Address Points - City Server
Office Workspace		Logged In As: Kevin Morrissey App Version: 3.0.15.0 DB Version: 3.0.15.0 Enterprise

Subdrain Inspections: GIS, Public Works,

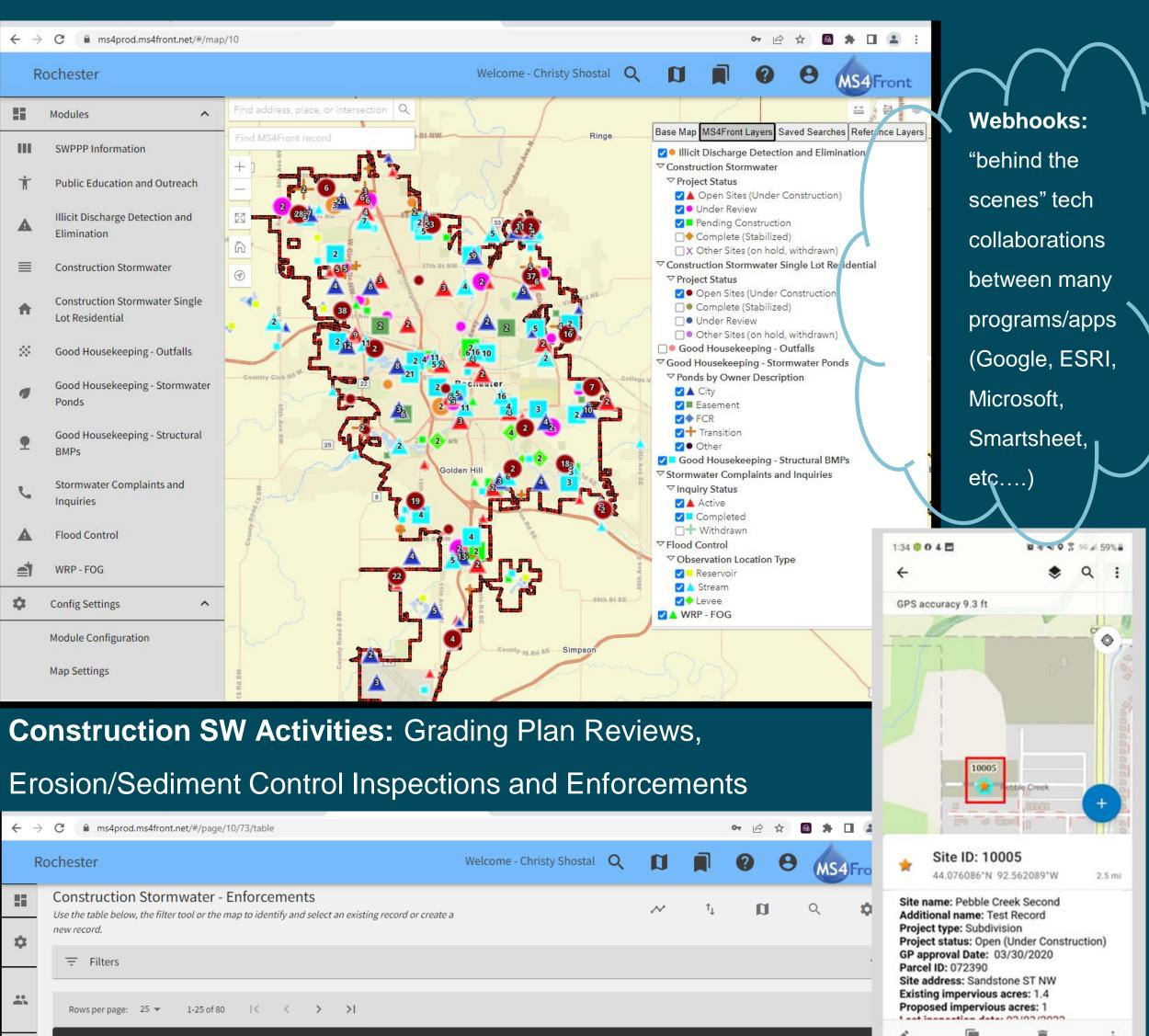
Rochester Heating & Plumbing



Sidewalk Defects: GIS, Public Works



Sign Installations: GIS, Public Works



	Site ID	Enforcement ID	Planning number	Site name	Enforcement action date	Associated inspection date	Date resolved	Enforcement type	Enforcement action performed by	/
>	10158	82	CD2022- 008SDP	Maine Heights Apartments Phase 2	01/04/2023	12/28/2022	12/30/2022	Verbal Warning	Ryan Thesing	1
	10164	81	CD2022- 013SDP	MB Service Center	11/15/2022	11/15/2022	11/22/2022	Verbal Warning	Aaron Cunningham	
	10163	80	CD2022- 019SDP	Ed Lunn Building Addition	10/24/2022	10/24/2022	11/01/2022	Official Notice of Violation	Josh Brunholzl	
	10070	79	R2019- 026SDP	F&M Community	11/01/2022	10/25/2022	11/10/2022	Verbal Warning	Jonathan Root	

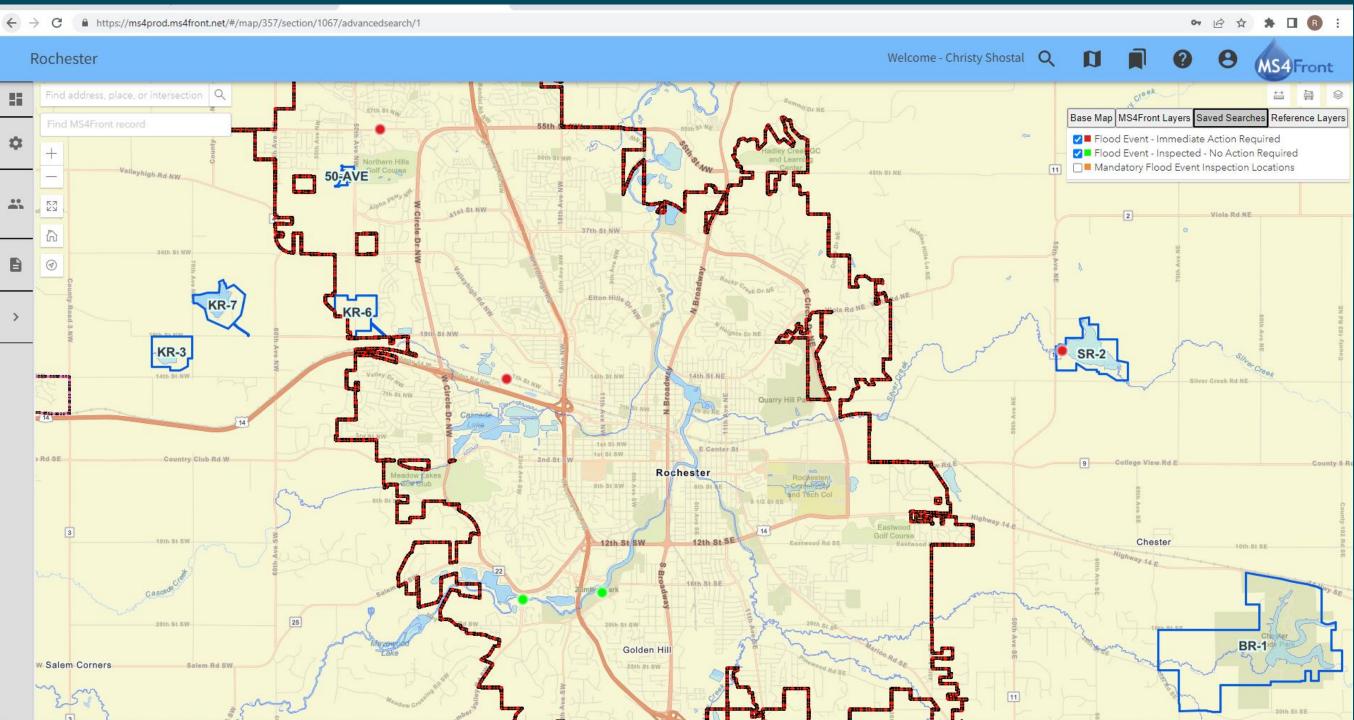
Focus Item: MS4Front Asset Management System (AMS)

- **Goal(s):** streamline mandated MS4 permit tasks/activities (field/office), structure data, collect real-time information to allow for situational awareness, produce efficient reports/data queries
- **Collaborators:** GIS, Public Works (Water Resources, Land Development), Contractors Σ
- **Processes:** grading plan review, erosion & sediment control inspections/enforcements, illicit discharges, BMP inspections/maintenance, outfall inspections/maintenance, educational activity tracking, flood event inspections.

=	6	3	5
FLOOD CONTROL	FLOCO IN	PECTIONS	CONTACTS
Inspection Background			8 1
Inspection ID		Location ID	
Res10002		129	
Location Name		Inspector Account * 🔞	
SR-2 (Silver Creek)		Christy Shostal	×
Inspector Name 1 (if applicable)		Inspector Name 2 (if applicable)	
Inspection date		Inspection time*	
92/07/2023		09:21 AM	
Required		Required	
Inspection reason *		Weather conditions @*	
Flood Event	$X ~ ~ \vee$	Very rainy	
Inspection Background Notes		Required	
Test inspection			
a di tato secondida di distante a			
Reservoir Inspection Observations			
Green/Yellow/Red pool indicator '		Feet Below Green (if applicable)	
Red	X I V	0.000	
Required			
Intake Structure * 🔞		Water Level - Fix Level Gage *	
Free of Debris	$\times \vee$	0.000	
Required		Required	
Water Level - Flowlink Website 🔞 *	e e	Outlet Pipe/Structure * 🔞	
Required		Free of Ice or Other Restrictions	×
Erosion - Poolside of Dam *		Erosion Comments	
Major Erosion	$X \parallel V$		
Required			
Bulges or Upwellings (Downstream Side of Dam) * 🔞		Bulges or Upwellings - Location (as ap	plicable) 🔞
Major Bulge or Upwelling	$\times + \sim$		
Required			
Emergency Overflow Channel *		Additional Inspection Comments	-L all fail and
Major Obstruction (Operation Impeded) Required	$X \mid v$	Water very close to top and dam at ri	sk of failure.
Inspection Results			
Indicate Overall Status 🔞 *		Overall Inspection Comments	
 No Action Necessary Immediate Action Neces 	ssary	Test inspection.	
Required			
8			
•			
Attachments		III O M	d Attachment 🔋
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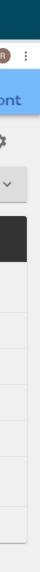
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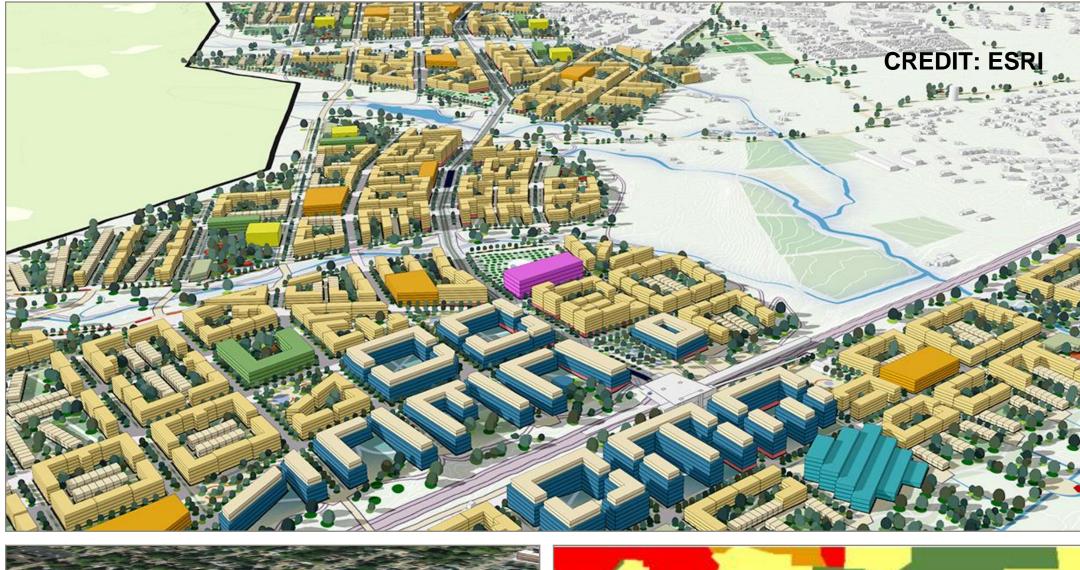
Flood Event Inspections: GIS, Public Works, EOC, etc.

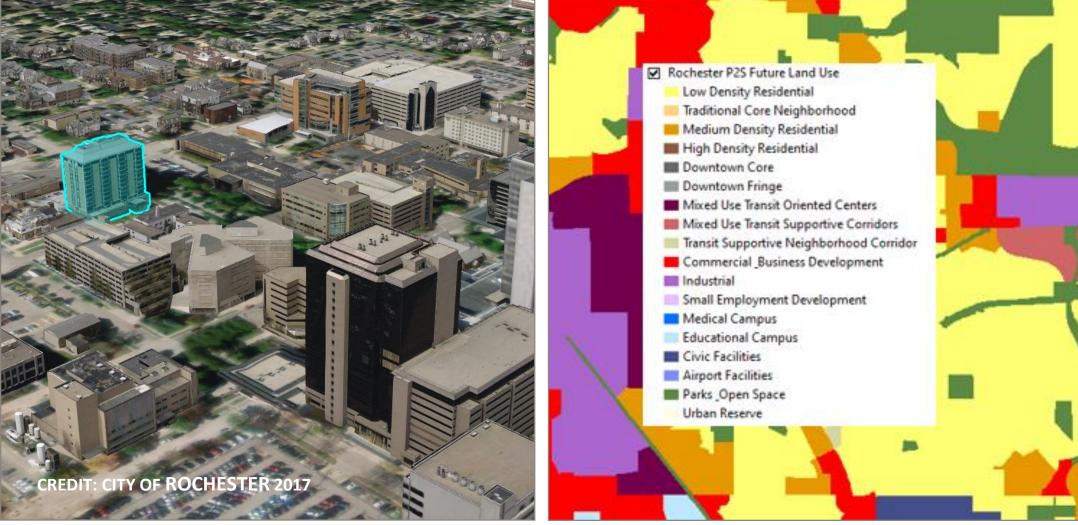
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arge Detection and		Location ID	Form Name	Inspection ID	Location Name	Inspector Account	Inspection date	Inspection time	Inspection reason	1	Indicate Overall Sta	tus	Overall Ins Comments	
on Stormwater		129	Flood Event Reservoir Inspection	Res10002	SR-2 (Silver Creek)	Christy Shostal	02/07/2023	9:21:38 AM	Flood Ever	nt	Immediate Necessary	Action	-	
on Stormwater Single Itial		130	Flood Event Levee Inspection	Lev10002	WR-4 (Gamehaven)	Christy Shostal	01/23/2023	9:49:41 AM	Flood Ever	nt	No Action Necessary		Test inspect	tion:
ekeeping - Outfalls		112	Flood Event Stream Inspection	Str10003	Olmsted County Bridge 55567	Christy Shostal	12/19/2022	9:51:25 AM	Flood Ever	nt	No Action Necessary		-	
ekeeping - Structural		88	Flood Event Stream Inspection	Str10002	Wilder RD NW and 7 ST NW	Test Account	09/16/2022	2:34 PM	Flood Ever	nt	Immediate Necessary	Action	-	
		120	Flood Event Levee Inspection	Lev10001	Section on south side of river	Christy Shostal	09/02/2022	9:32:59 AM	Flood Ever	nt	No Action Necessary		Test record	I
ekeeping - Stormwater		129	Flood Event Reservoir Inspection	Res10001	SR-2 (Silver Creek)	Christy Shostal	09/02/2022	9:08:32 AM	Flood Ever	nt	No Action Necessary		-	
r Complaints and		12	Flood Event Stream Inspection	Str10001	City Bridge R0299	Christy Shostal	09/01/2022	1:54 PM	Flood Ever	nt	Immediate Necessary	Action	-	
rol														



Future Initiatives

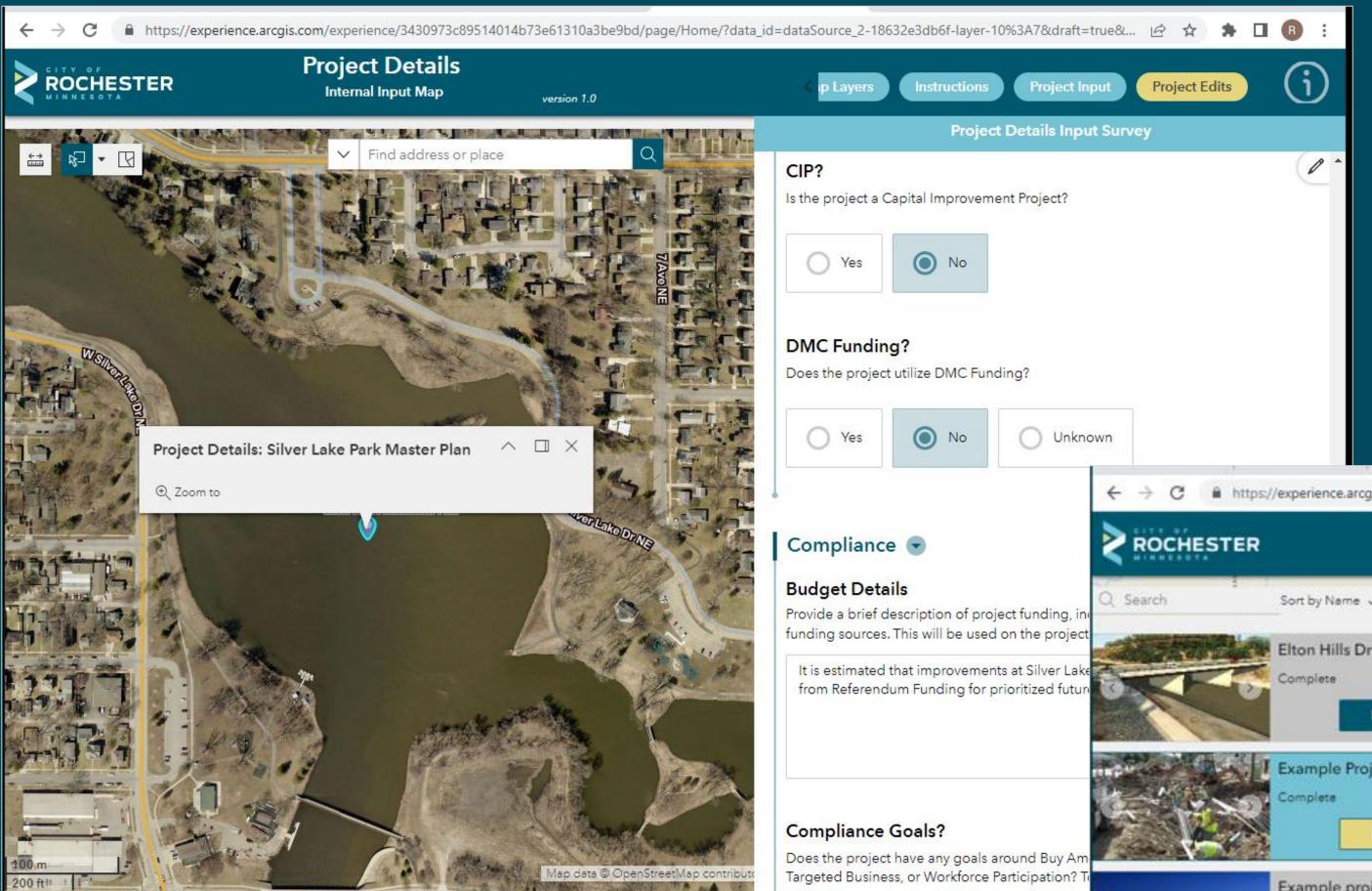
- Collaboration with DMC EDA to have ArcGIS Urban model built
 - enhanced planning & engagement tools
- Implementation of Portal
- Development of new apps (hubs, Experience Builder, etc.)
- Migration of existing apps to new platforms
- More Growth ("building the case")
- Other optimizations TBD......





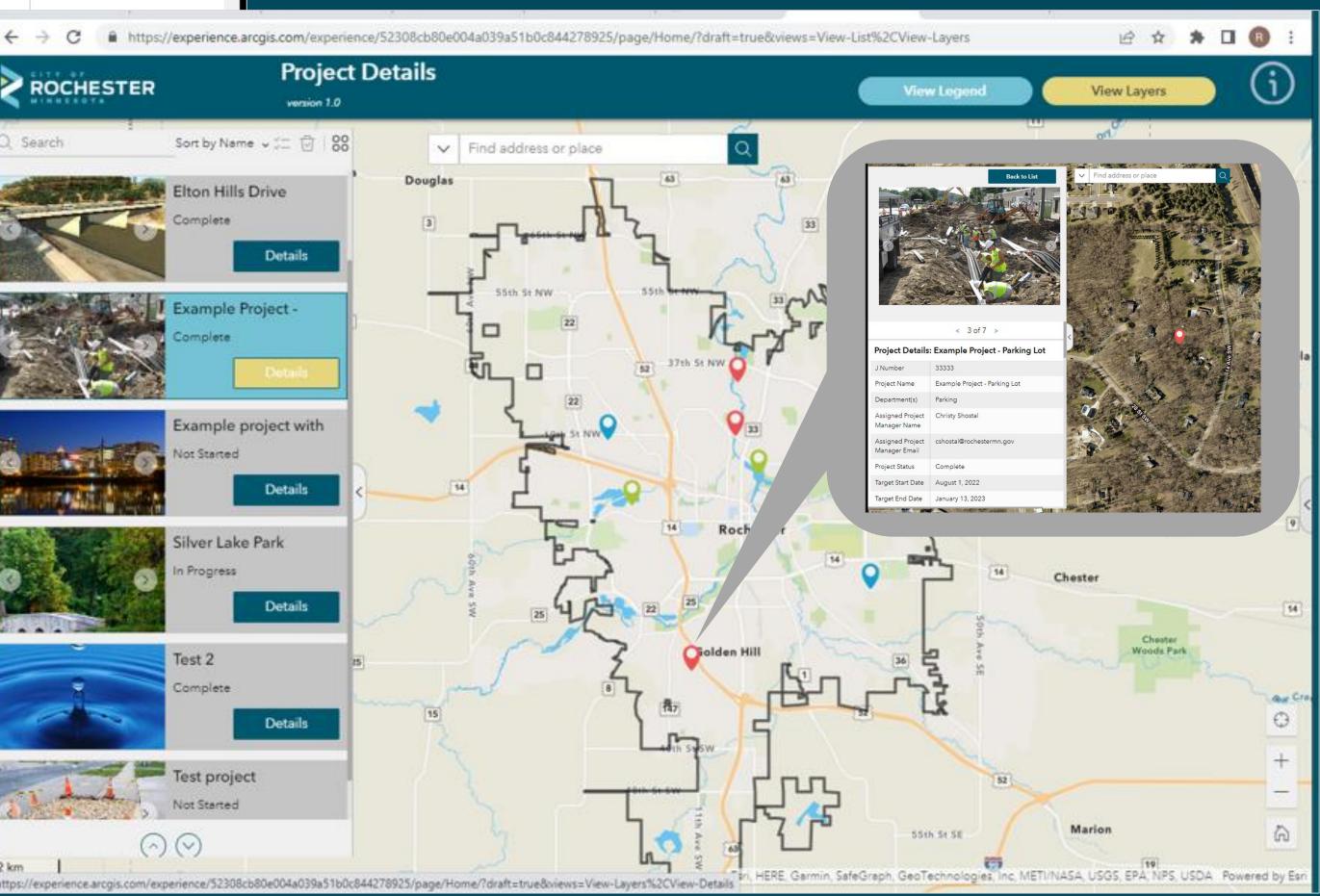
27 SLIDE







Project Details Apps (Internal & External) – under construction: GIS, communications, Public Works, Community Development, Administration, DMC EDA/Private (future)

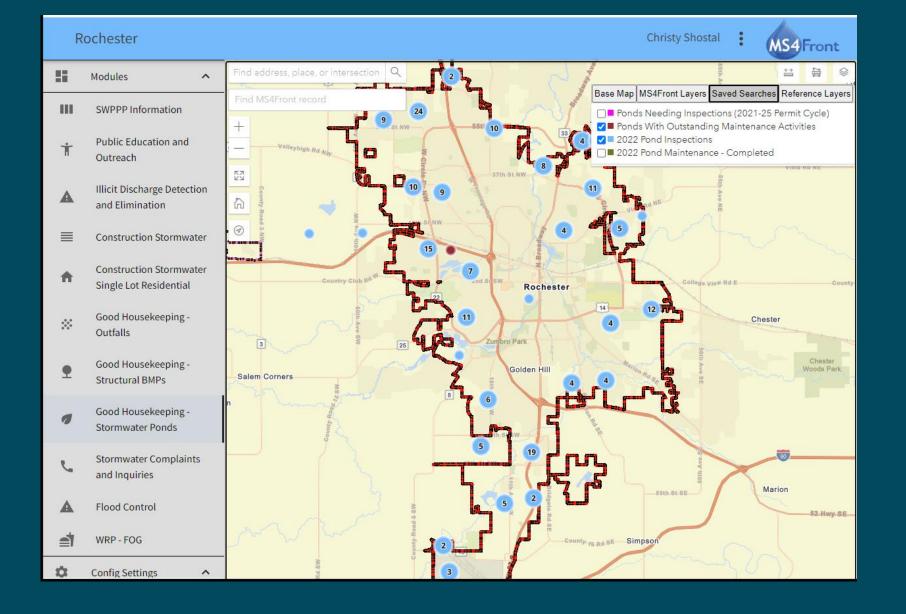






Demonstration(s)

https://arcg.is/01PXTD



ROCHESTER

Planning Details Watershed Characterization Get Involved Resources & Links

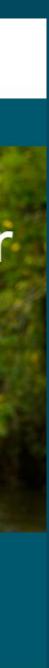
Comprehensive Surface Water Management Plan

City of Rochester, Minnesota

Q Search.

Welcome to our Comprehensive Surface Water Management Plan (CSWMP) website. This site has been developed to share the City of Rochester's CSWMP update journey, as well as to provide opportunities for public engagement.

https://ms4prod.ms4front.net/#/





Questions?