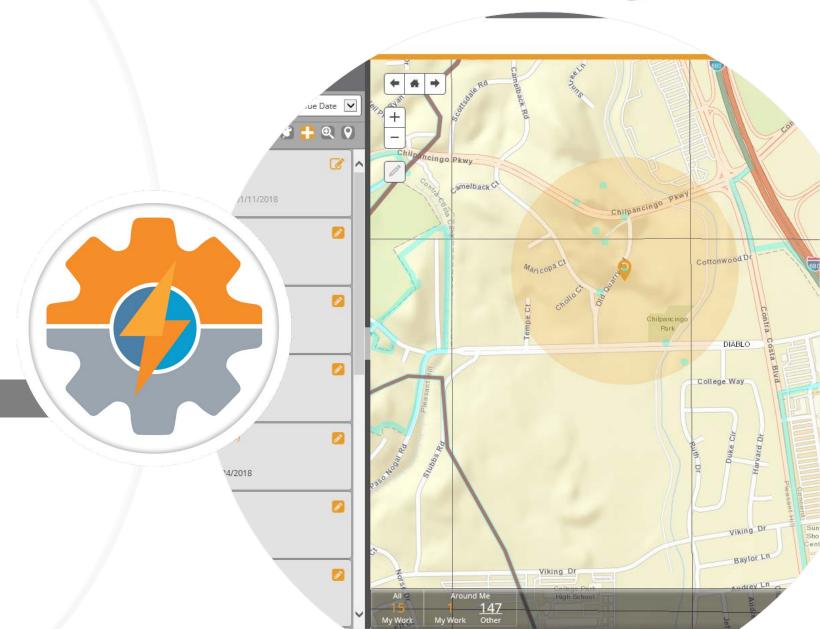


Using a GIS-based Office to Field Inspection App to Enhance Compliance

A Digital Utility® Solution

Gas Compliance Management



#### Our Team Today









Bart Elliott

**Executive Vice President** 

Ed Anderson

Executive Gas Utility
Consultant

Faye Hall

Director Software
Development

Tom Helmer

Executive Solution
Architect

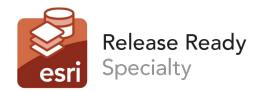




- Founded in 2005
- Privately Owned
- 460 Employees
- Denver, Los Angeles,
   Waukesha, Tampa











Award for innovation in Gas OMS











years

2005-2020

Sempra Energy®























**ENMAX** 









Water&Power



























ME





The United Illuminating Company







**●UDC**<sup>™</sup>



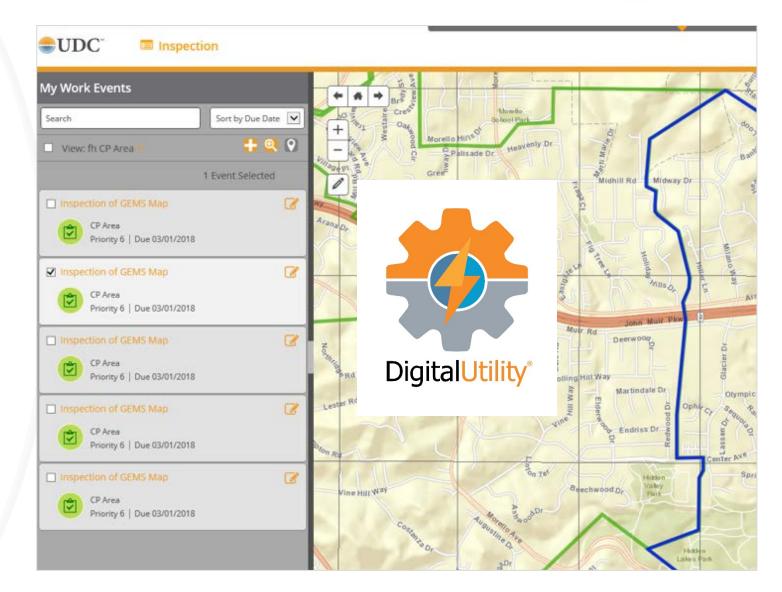






# Digital Utility® Compliance Manager

- Enterprise ArcGIS Application
- Supporting Preventative Maintenance Programs and Inspections
- Assists Business Workflow Automation & Visualization Plan, Create, Schedule, Dispatch, Complete, Monitor, Report













Joe Compliance Manager	Anna Back Office Supervisor	Stephanie Field Crew Member	Ted VP Utility Operations	Rose PUC Regulatory Compliance
Multiple systems/	Lack of digital tools	Multiple places to	Lack of timely	Lack of reporting
software	for work grouping	manually record	reporting/updates	,
applications for	and assignment	work	,	Lack of visibility into
programs			Manual	issues/fixes
	No visibility of work	Multiple visits to	preparation/non-	
No consistent Rules	assignments and	complete work and	effective use of time	Multiple formats
for programs	progress	rework		depending on
			Tracking/Traceability	program
Lack of visual		Exception reporting	issues	
progress tracking		and follow-up		











# Primary Functions of Compliance Manager









Dashboards to Monitor Progress











Assign & Dispatch Work

## Primary Functions of Compliance Manager



Complete Work in Field



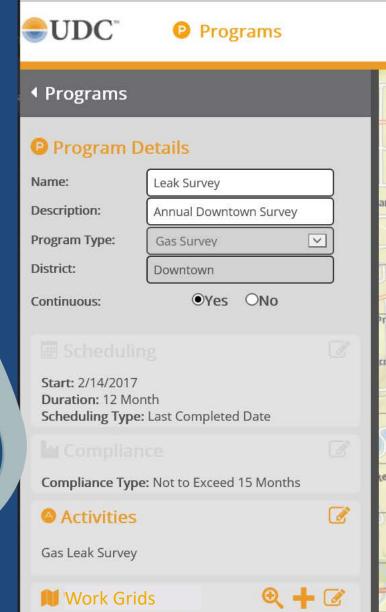
**Report Compliance** 



Dashboards to Monitor Progress





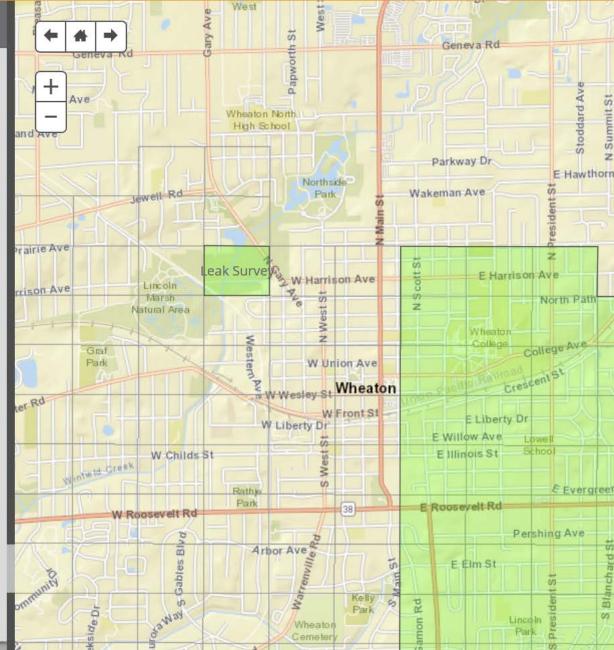


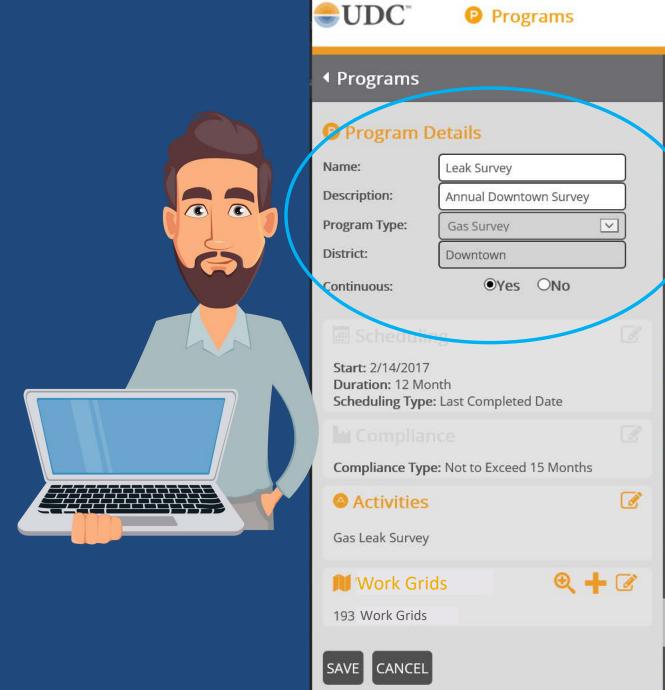
193 Work Grids

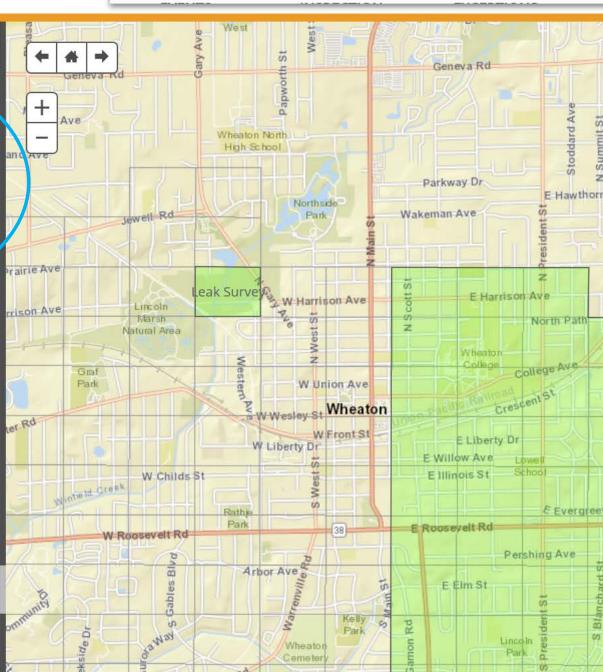


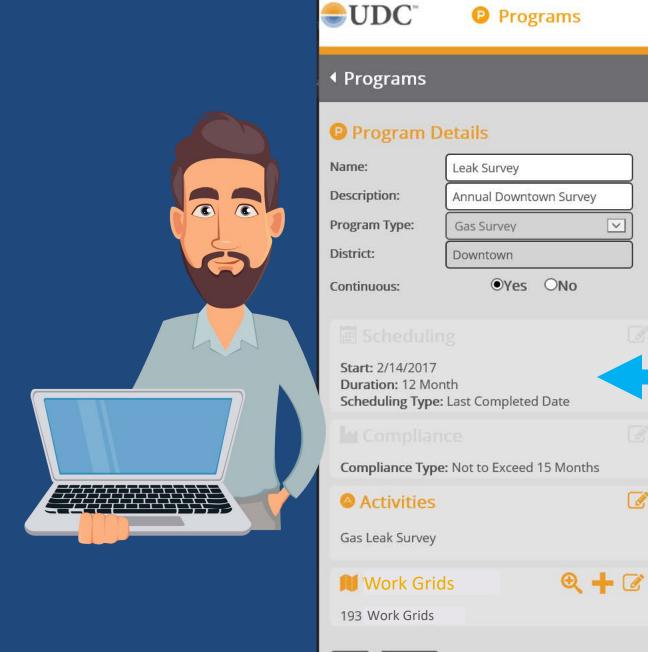


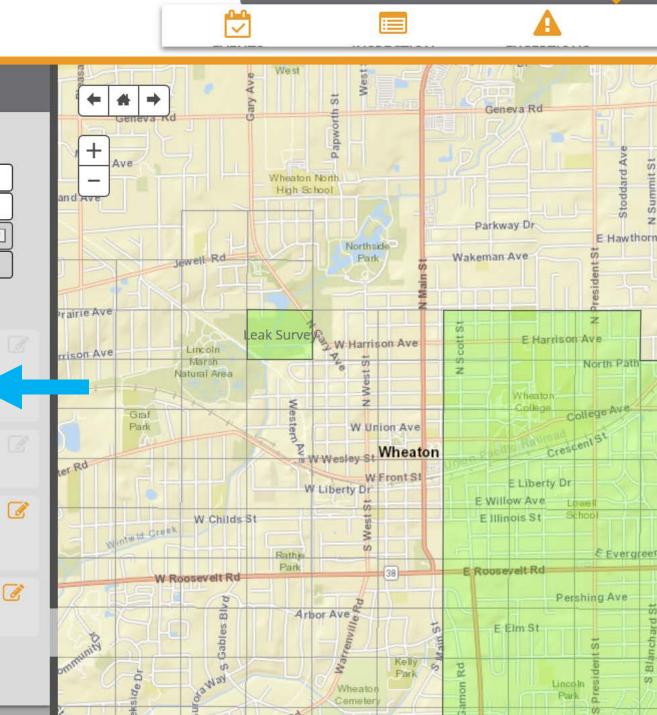




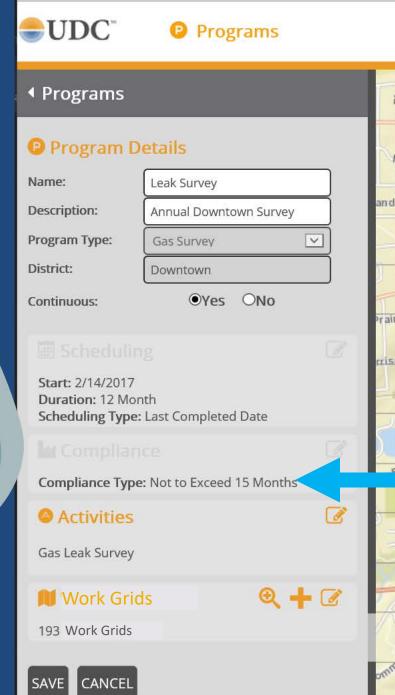


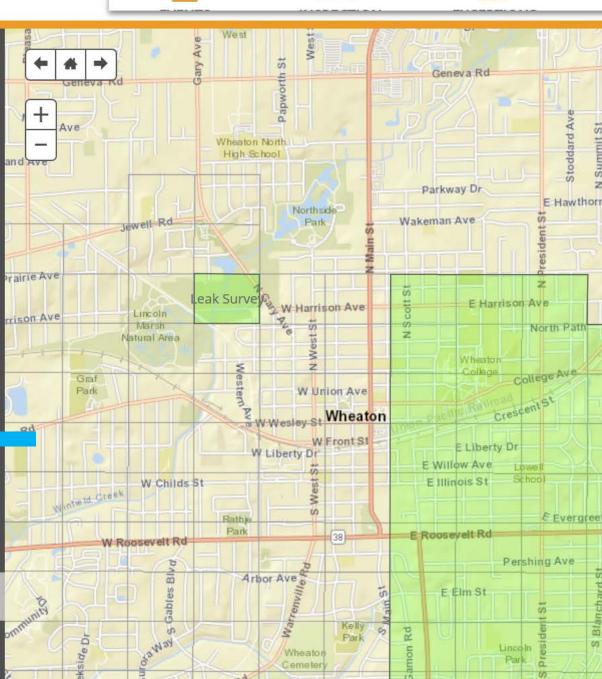




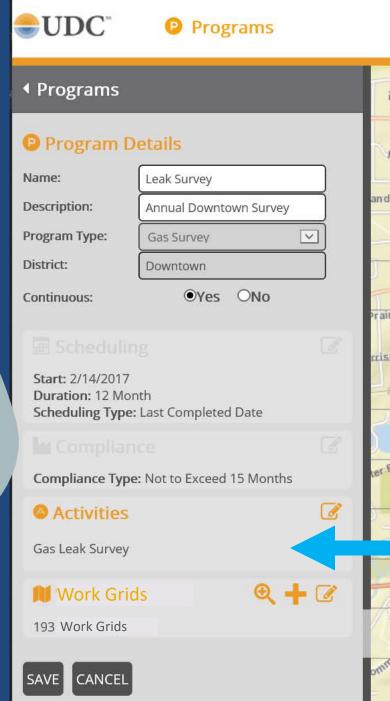


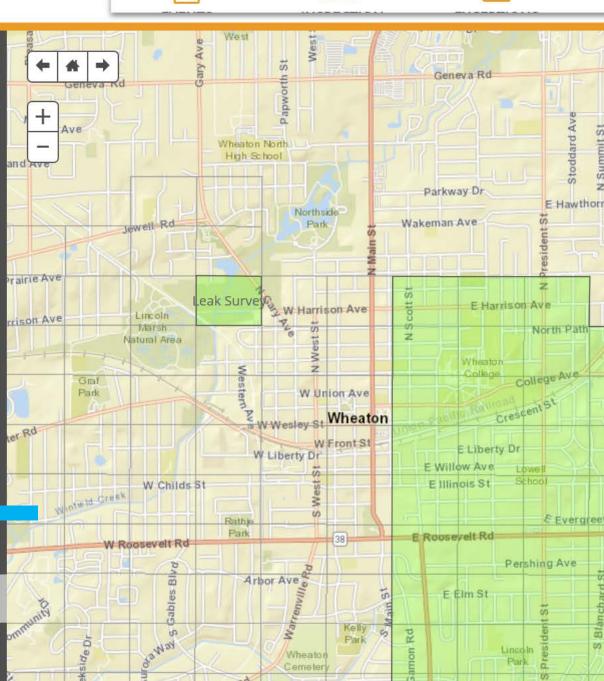


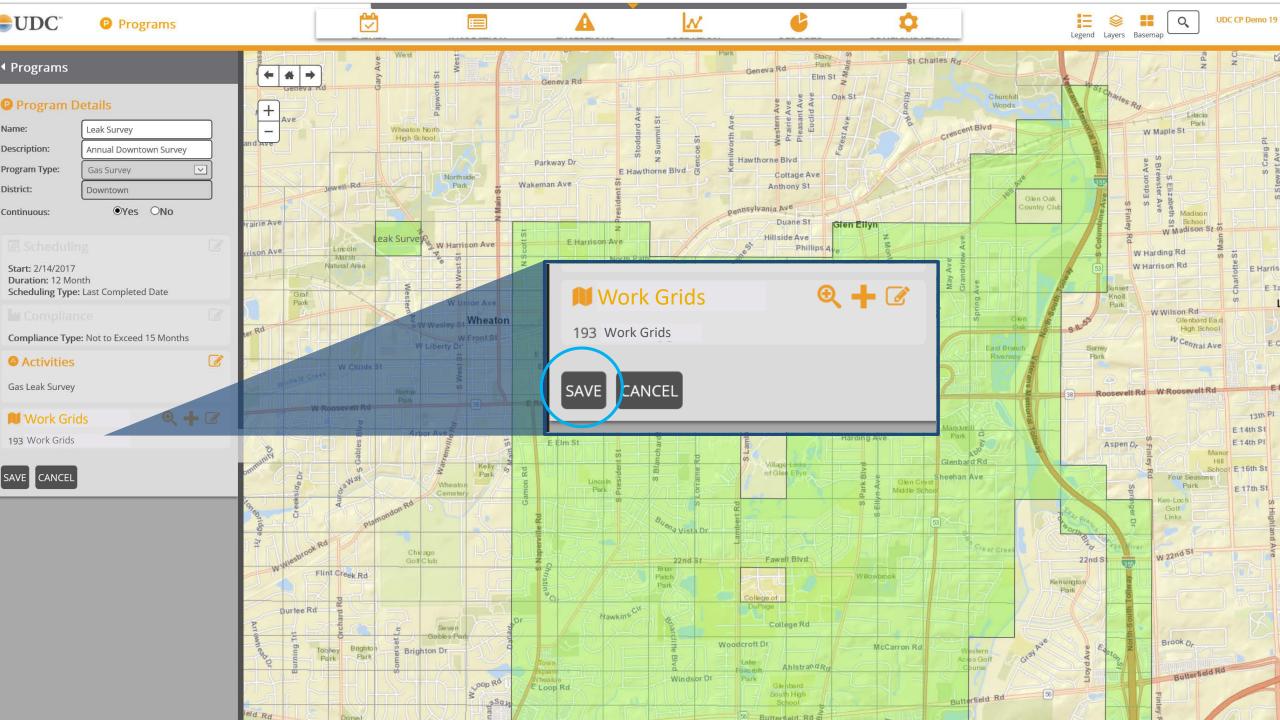












#### Better Support for New Programs

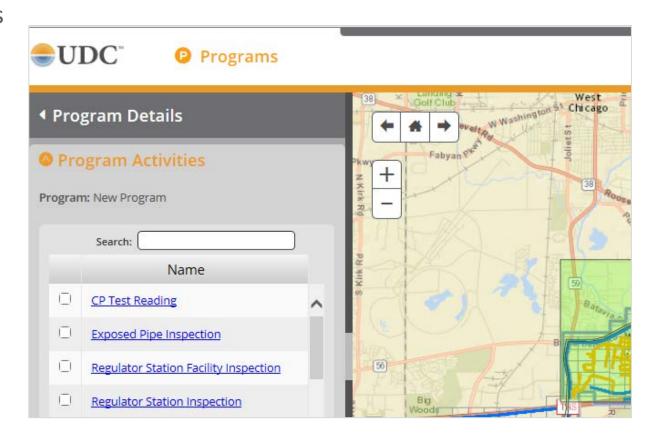
#### Compliance Manager is Intuitive and Versatile

- Define your preventative maintenance programs once and assets come and go with as-builts
- Easily make changes and control field tools
- Use for all your utility surveys and inspections...



- ✓ Leak Surveys
- ✓ Cathodic Protection Surveys
- ✓ Critical Valve Inspections
- ✓ Cast Iron Surveys
- ✓ Other...









Create Work Areas & Schedule



Assign & Dispatch Work

### Primary Functions of Compliance Manager



Complete Work in Field



**Report Compliance** 



Dashboards to Monitor Progress









# Primary Functions of Compliance Manager



Complete Work in Field



**Report Compliance** 



Dashboards to Monitor Progress



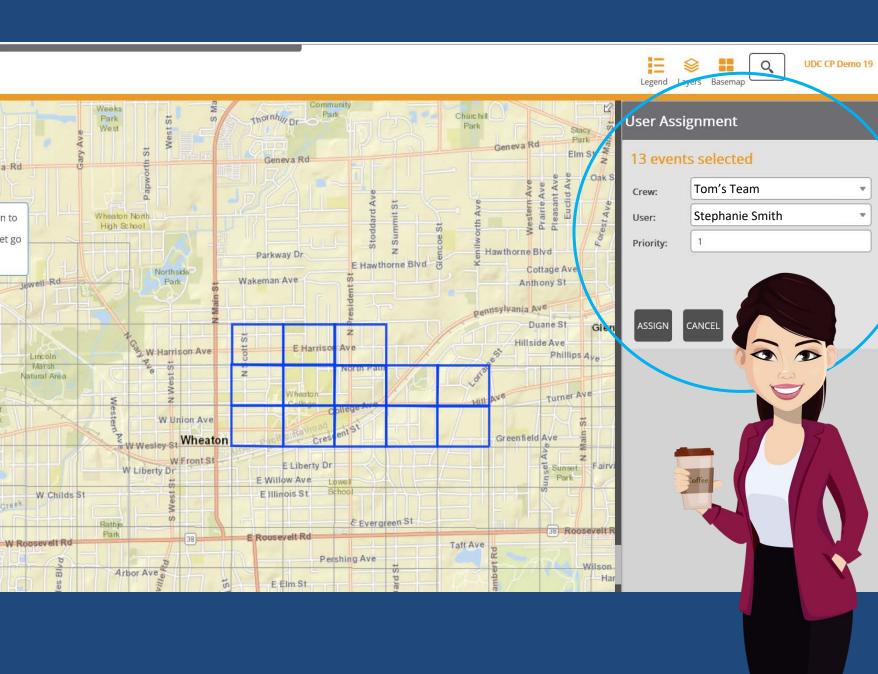




#### Events Due for Leak Survey

☑ View: All			Search	:			<b>Q</b> (	& & <b>=</b> &
Program	Activity	Facility	ID	Assigned	Priority	Due	Compliance	Complete
Leak Survey	Gas Leak Survey	MapGrid	BG77		1	03/16/2017	06/16/2018	ď
Leak Survey	Gas Leak Survey	MapGrid	BI77		18	03/16/2017	06/16/2018	ď
Leak Survey	Gas Leak Survey	MapGrid	BI79		18	03/16/2017	06/16/2018	ď
Leak Survey	Gas Leak Survey	MapGrid	BI80		18	03/16/2017	06/16/2018	ď
Leak Survey	Gas Leak Survey	MapGrid	BH79		2	04/17/2019	07/22/2019	Z
Leak Survey	Gas Leak Survey	MapGrid	BH80		1	04/19/2019	07/24/2019	ď
Leak Survey	Gas Leak Survey	MapGrid	BI76		1	04/19/2019	07/24/2019	ď
Leak Survey	Gas Leak Survey	MapGrid	BI78		1	04/19/2019	07/24/2019	ď
Leak Survey	Gas Leak Survey	MapGrid	BH77		2	04/23/2019	07/28/2019	-
Leak Survey	Gas Leak Survey	MapGrid	BH78		2	04/23/2019	07/28/2019	
Leak Survey	Gas Leak Survey	MapGrid	BG76		8	07/30/2019	11/04/2019	) A D C
Leak Survey	Gas Leak Survey	MapGrid	BG78		4	07/30/2019	11/04/2019	A BC GAS
Leak Survey	Gas Leak Survey	MapGrid	BH76		2	08/24/2019	11/29/2019	







Geneva Rd

Press down to

start and let go

Park

to finish

Prairie Ave

Harrison Ave

8

38

Due	Compliance	Complete
03/16/2017	06/16/2018	ď
03/16/2017	06/16/2018	Ľ
03/16/2017	06/16/2018	Ľ
03/16/2017	06/16/2018	ď
04/17/2019	07/22/2019	ď
04/19/2019	07/24/2019	Ľ
04/19/2019	07/24/2019	Ľ
04/19/2019	07/24/2019	C
04/23/2019	07/28/2019	ď
04/23/2019	07/28/2019	ď
07/30/2019	11/04/2019	Ľ
07/30/2019	11/04/2019	ď
08/24/2019	11/29/2019	ď







Assign & Dispatch Work

### Primary Functions of Compliance Manager





**Report Compliance** 



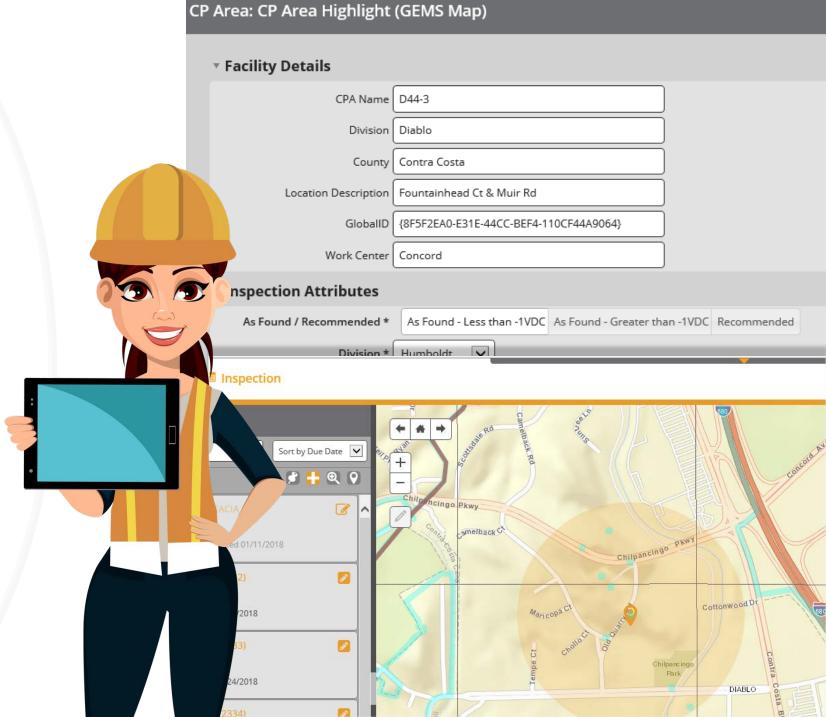
Dashboards to Monitor Progress

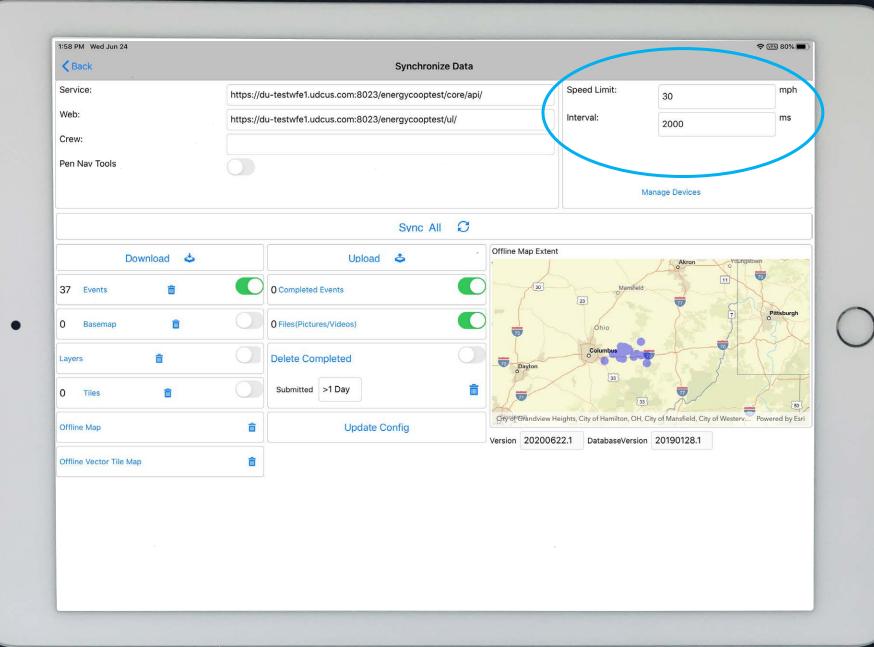


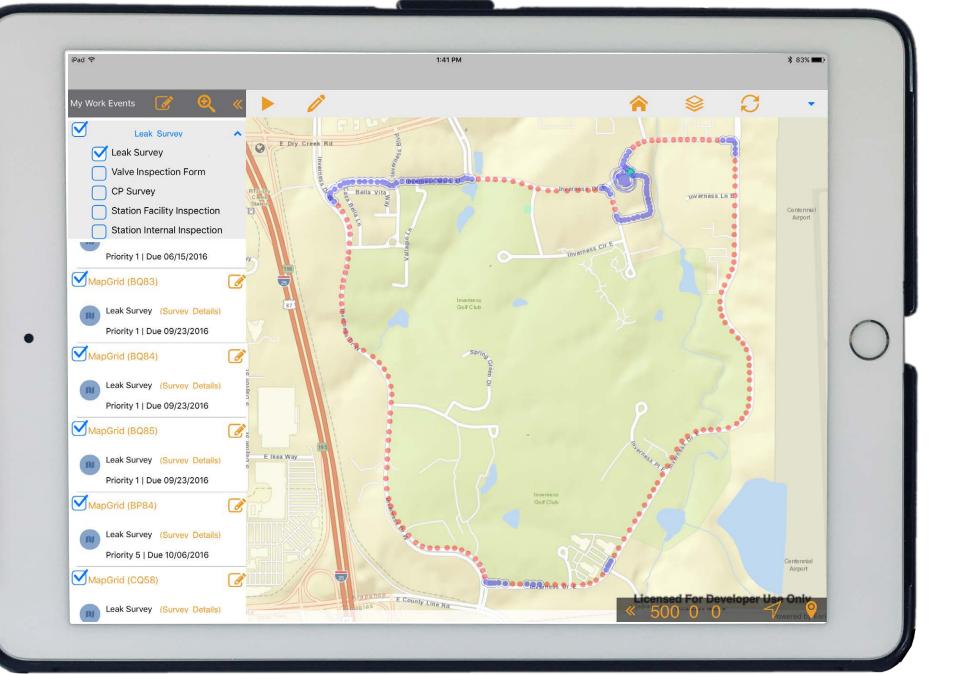
#### Enhanced User Experience

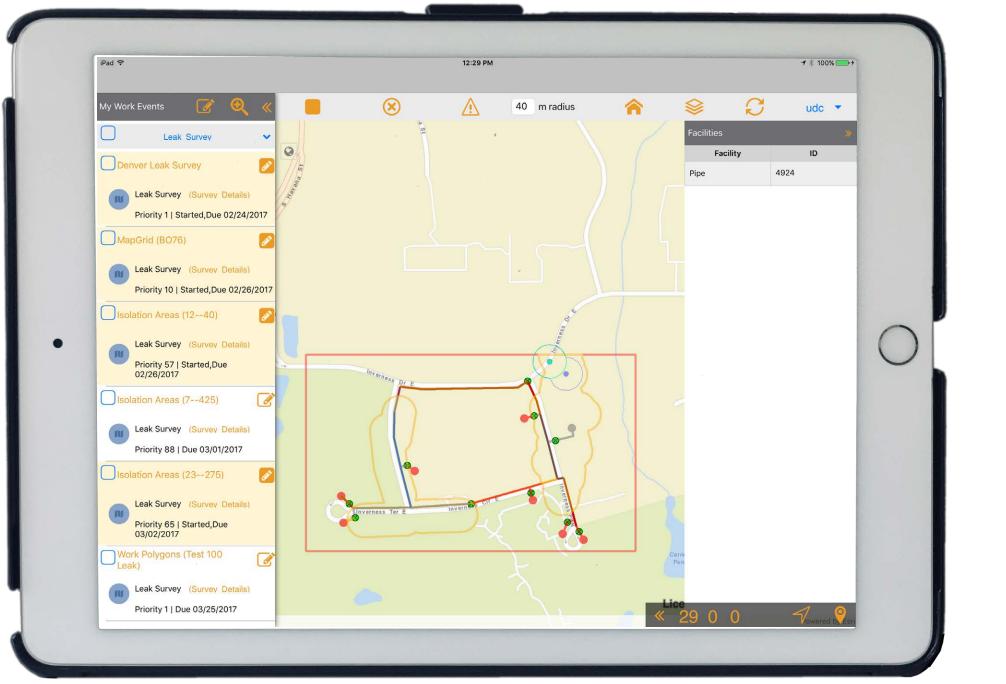
#### Streamlined Mobile Data Collection

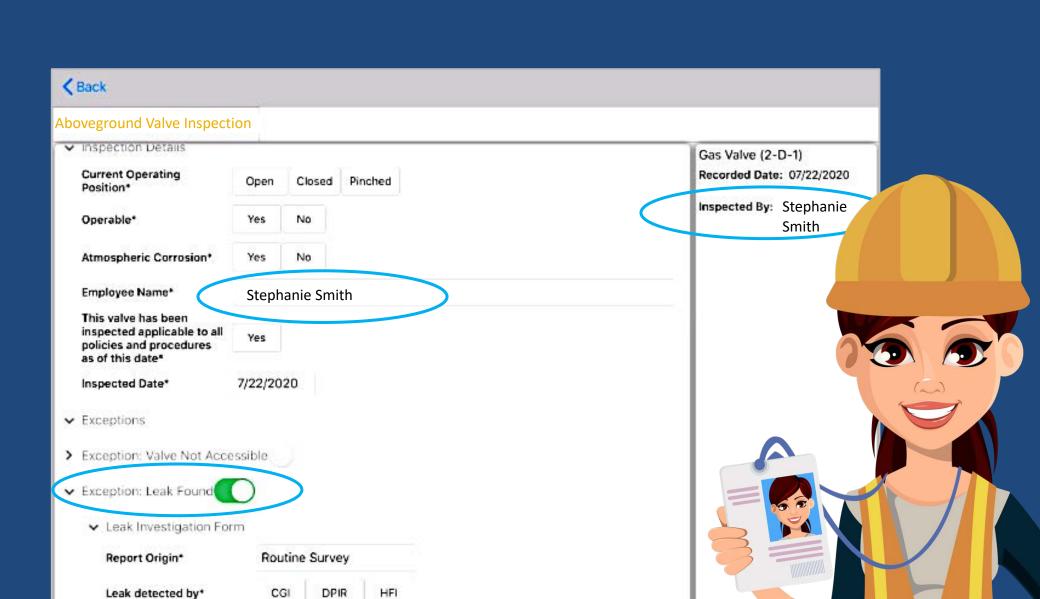
- Utilize intuitive and configurable mobile collection forms
- Organize work for efficient completion
- Eliminate manual effort preparing for compliance audits











Gas Classification

Results\*

Gas %

LEL %







Assign & Dispatch Work

# Primary Functions of Compliance Manager



Complete Work in Field



**Report Compliance** 



Dashboards to Monitor Progress



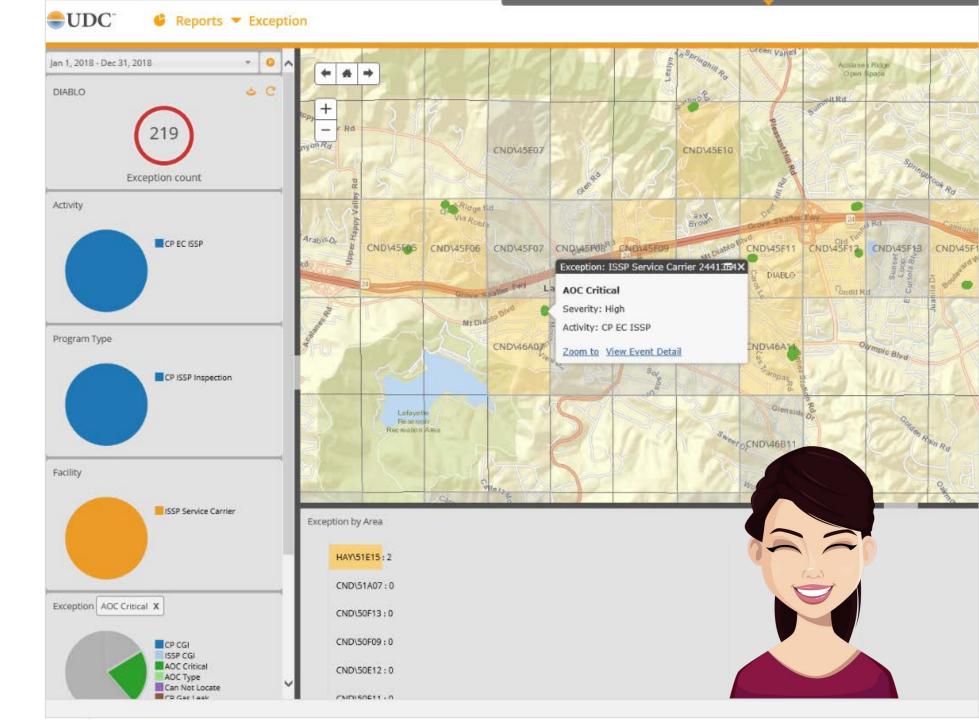


#### Enhanced Quality

Record Exceptions in the Field

and

View Exceptions Reporting at All Levels



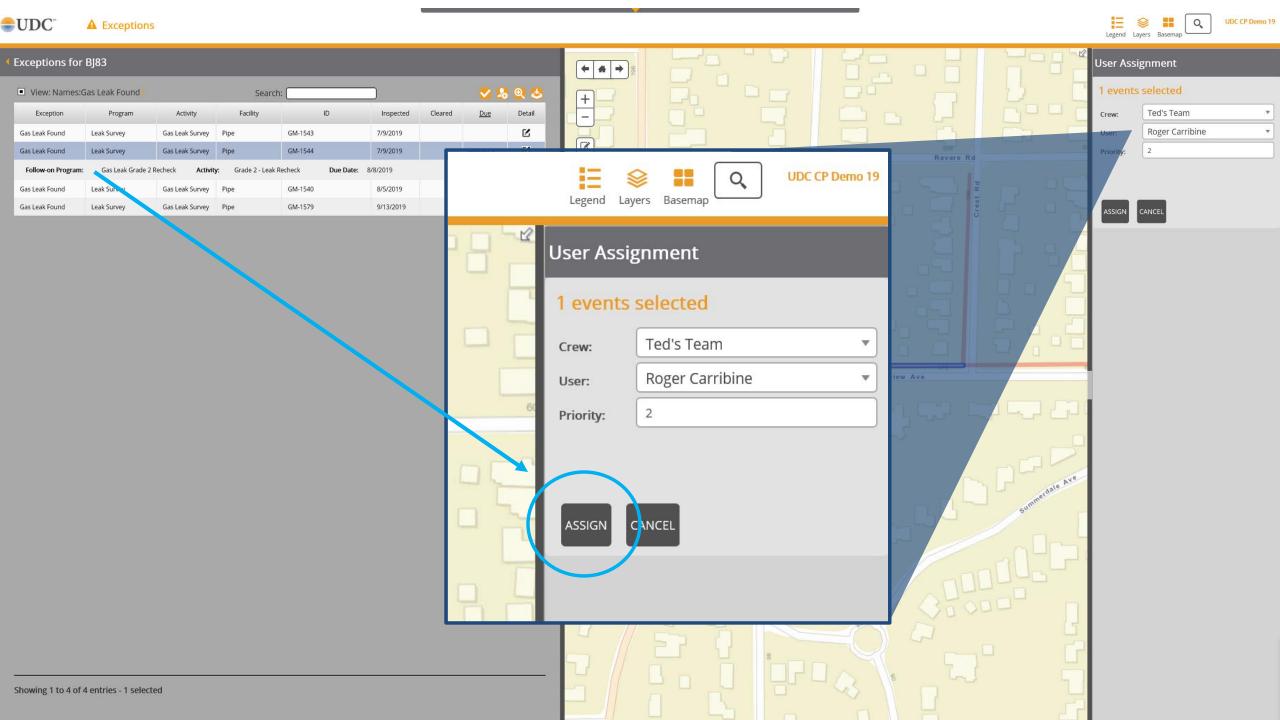






#### Exceptions for BP80\_3

Select All Search:				J			<u> </u>
Exception	Program	Activity	Facility	ID	Inspected	Cleared	D
Gas Leak Found	3 Year Gas Leak Survey	Gas Leak Survey	Pipe	GM-748	7/24/2017		
Gas Leak Found	3 Year Gas Leak Survey	Gas Leak Survey	Pipe	GM-749	7/24/2017		8/23/
Follow-on Program:	Gas Leak Grade 2 Recheck	Activity: Grade 2 - L	eak Recheck	Due Date:	8/23/2017		
Gas Leak Found	3 Year Gas Leak Survey	Gas Leak Survey	Pipe	GM- 2237	7/24/2017		
Gas Leak Found	3 Year Gas Leak Survey	Gas Leak Survey	Pipe	GM- 2244	7/24/2017		8/23/









Assign & Dispatch Work

# Primary Functions of Compliance Manager

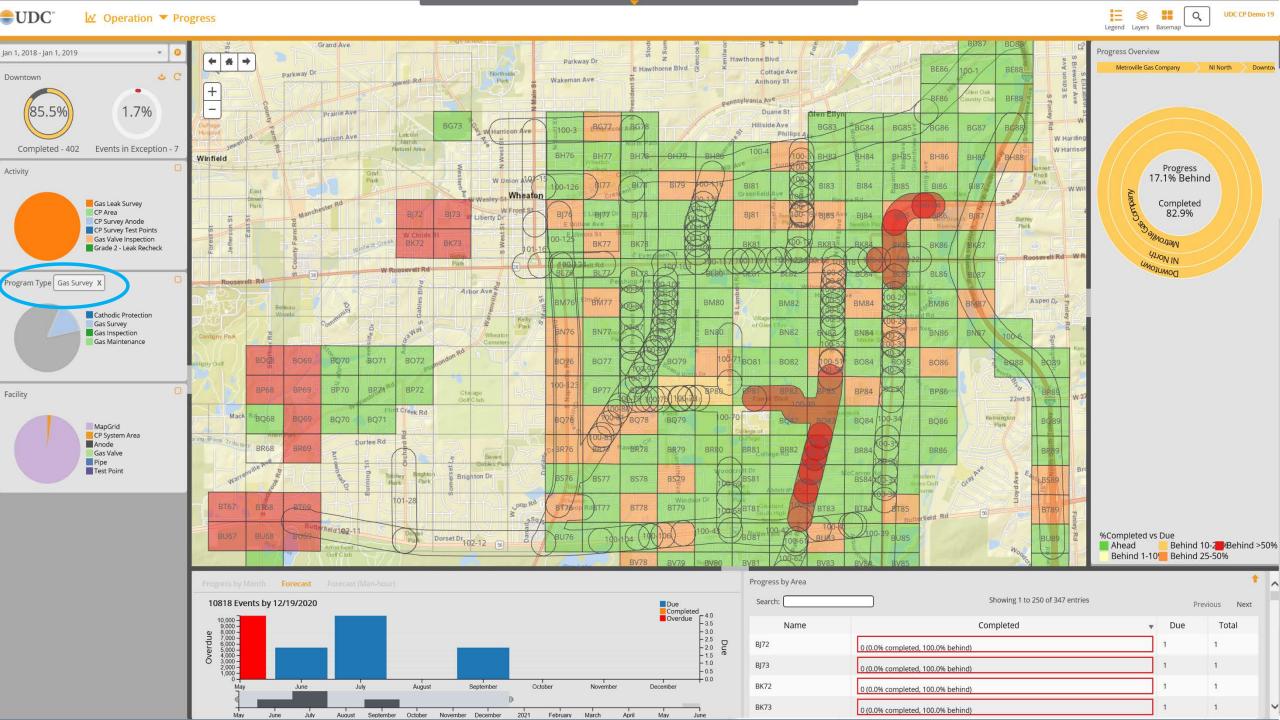


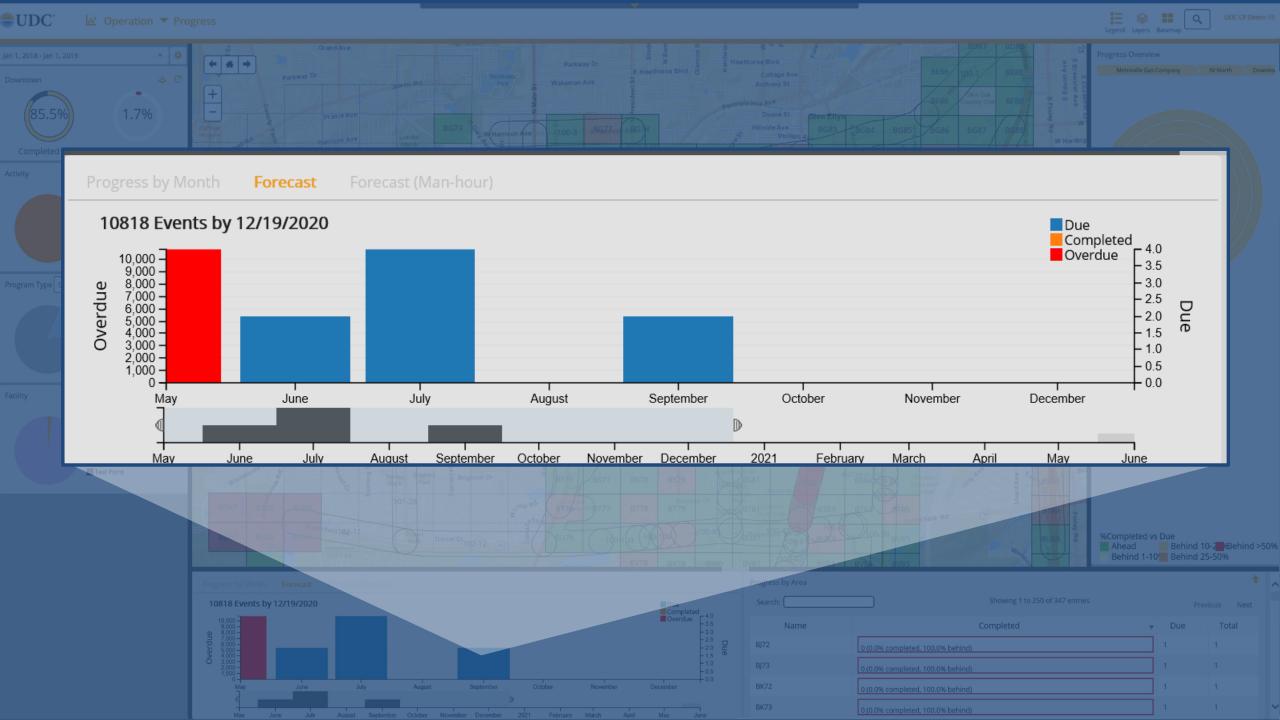
Complete Work in Field

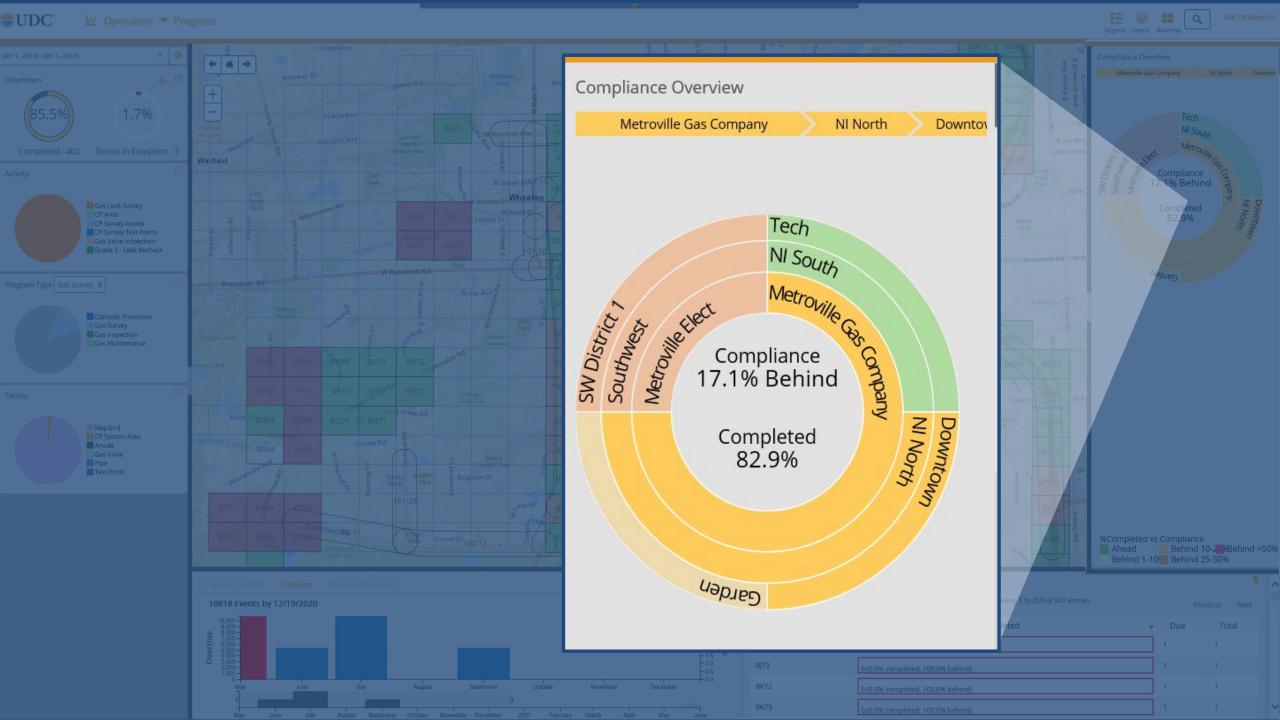


**Report Compliance** 









#### Meeting Compliance Deadlines

#### Built-in Monitoring & Reporting

- Visually see the status of all compliance activity at any level
  - Company
  - Division
  - District
  - Field Operator
- Dashboards available to all interested parties
- No extensive manual preprequired for reporting











Assign & Dispatch Work

# Primary Functions of Compliance Manager



Complete Work in Field

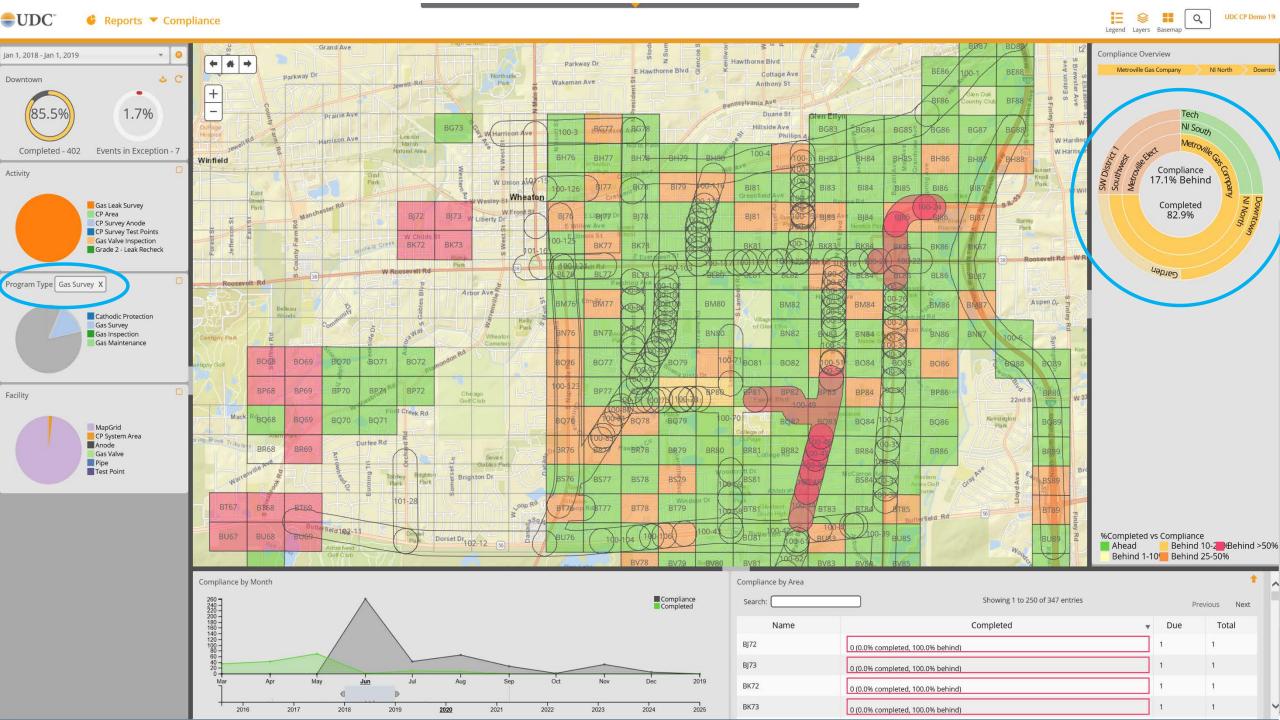


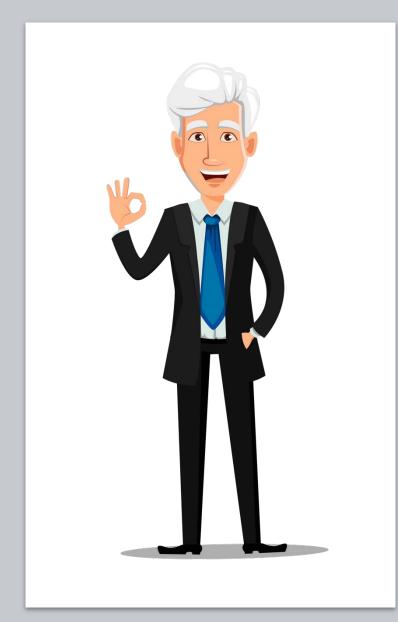
**Report Compliance** 

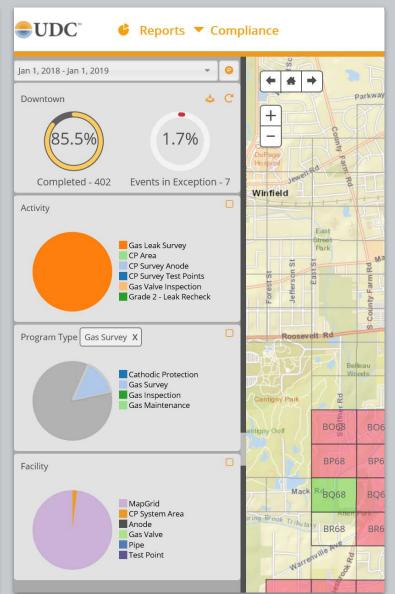


Dashboards to Monitor Progress

















## Primary Functions of Compliance Manager



Complete Work in Field



**Report Compliance** 



Dashboards to Monitor Progress



#### UDC's Digital Utility® Compliance Manager





Esri ArcGIS Enterprise Platform

- Fully leverages the complete ArcGIS Enterprise Platform
- Provides Scalability
- Functionality to the field and back including web and mobile





# Optional Interfaces

Compliance Manager



Work
Management
System



Enterprise Asset Management



Enterprise Resource Management



Esri Mobile Component Included





#### Thank You

Continue the Conversation...

eanderson@udcus.com

belliott@udcus.com

www.udcus.com



