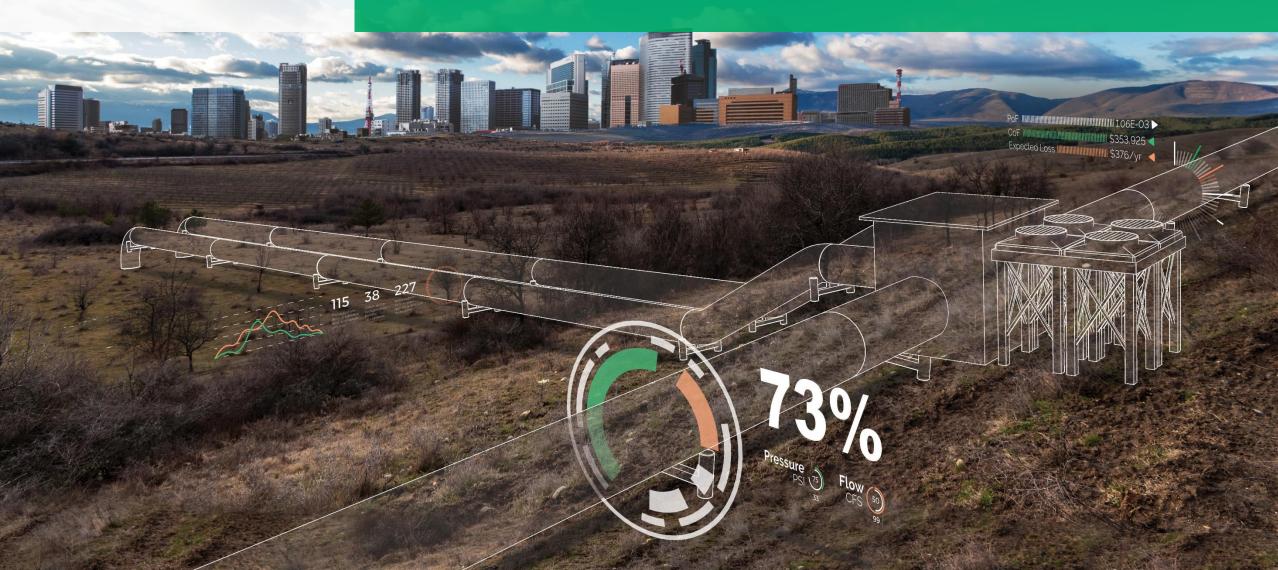
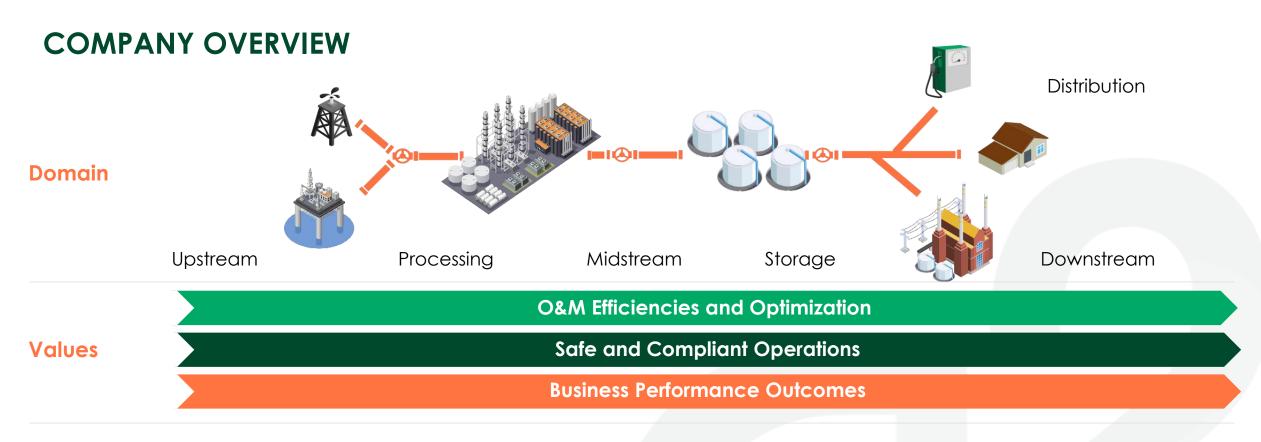


WHERE ENERGY CHALLENGES MEET INNOVATION





Solutions





Risk

Management







Enabling Services & **Technologies**









Field Assurance



Software & Technology











What we will cover



- ☐ Introduction/Background
- ☐ Manuals/Guides
- ☐ Reporting/Analytics
- ☐ Mapping
- ☐ 3D Scanning



Introduction/Background



☐ Eric Cowan
VP Field Services
928-853-3915

Eric.cowan@G2-IS.com



Manuals/Guides









Manuals/Guides



Issues and Concerns

- ☐ Unorganized
- ☐ Incomplete
- ☐ Hard to update
- ☐ Difficult to use





Manuals/Guides



Unorganized

- ✓ Now Organized and Accessible
- ☐ Incomplete
 - ✓ Always Complete
 - ✓ Always in Compliance
- ☐ Hard to Update
 - ✓ Easy Push Updating
- ☐ Difficult to Use
 - ✓ Searchable
 - ✓ Online/Offline Capable
 - ✓ Easy to Transport

Electronic Manuals

	1 Lines and Fall Arresting Devices
	7-1
	7-1
	/linders (OMS Oxygen Analyzer)
Safety Manual	al Check) Procedure
	Sanitizing7-2
	7-2
_	8-
California Safety Plan	8-
California Safety Plan	8-
F .	Material 8
	Viateriai
N DIMP Guide	
	8
	ation8
Equipment Guide	9
	9-
	Гуре)9-
	pe)9.
Distribution Documents	N10
	11
Corrosion Guide	
	11
DF	s12
Operations Manual	OCKOUT / TAGOUT) PROCEDURES13-
	lits)
	12





Typical Reporting In Field



Can Lead To Unorganized Reports in the Office







- ☐ Incomplete
- ☐ Accuracy
- ☐ Not Legible
- ☐ Not Turned In/Lost
- ☐ What Do You Do With Them
- ☐ Storage



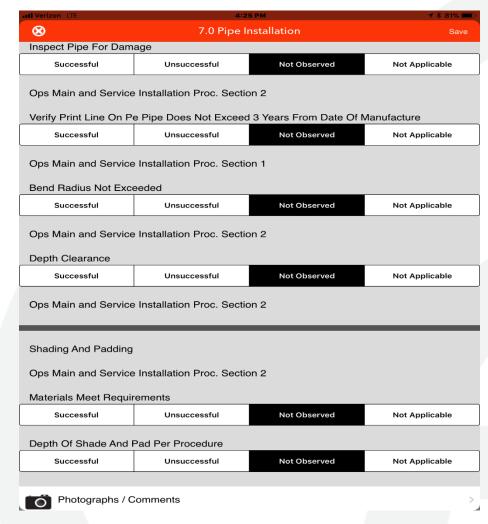


Issues and Concerns



Electronic Forms

- ☐ Incomplete
 - ✓ Required Fields
 - ✓ Rules
- ☐ Accuracy
 - ✓ GPS Stamped
 - ✓ Time & Date Stamped
- ☐ Not Legible
 - ✓ Typed, Not Hand Written
 - ✓ Voice Recognition

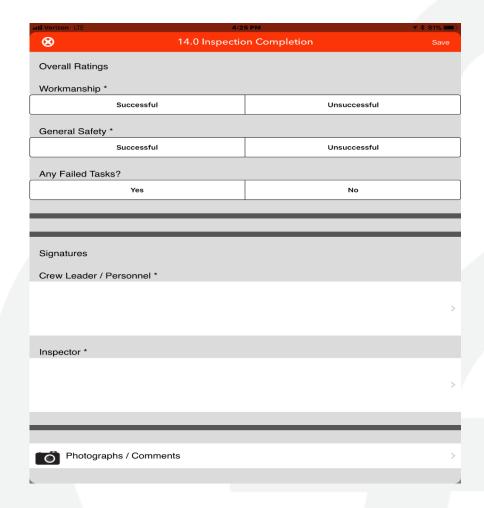






Electronic Forms

- Not Turned In/Lost
 - ✓ Once Submitted, Received And Backed Up
- ☐ What Do You Do With Them
 - ✓ Analytics
 - ✓ Risk Analysis
 - ✓ TVC
- ☐ Storage
 - ✓ Digital Storage Is Cheaper Than Physical
 - ✓ Takes Up Less Space





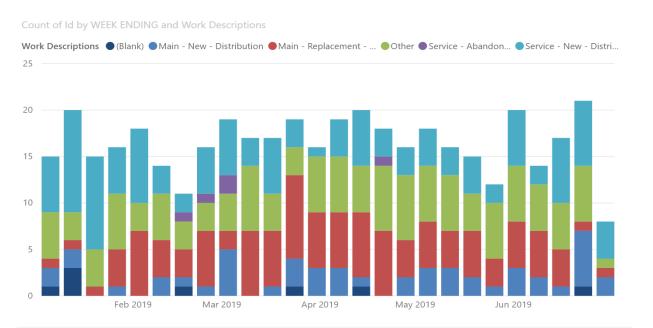


Electronic Forms

○ Verizon 🕏	10:12 PM	l .	1 509	
	Upload images to this record:			
	Upload Image	Upload Image		
[Step 1] Field Evaluation Information	This form is to be used by perform construction activities.			
[Step 2] Crew Information	*Required Evaluation of: Crew	Individual		
[Step 3] Workmanship Quality	Ops Manual OK			
[Step 4] Time Management/Productivity	Chart/Gauge Calibr	ration OK - #		
[Step 5] General Safety	Chart/Gauge Expiration click to choose			
[Step 6] Environmental	Address	*Required Type of Activity	Successful Unsuccessful N/A	
[Step 7] Training	1.	Line Location		
[Step 8] Evaluation Summary	2.	Pipe Installation		
Reset All	3.	Pipe Repair		
	4.	Leakage Survey/Centering		
Send PDF	5.	Energency Response (Hit Truck)		
Exit	6.	Valve Installation/Maintenance		
ave				

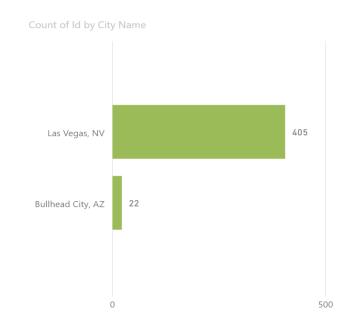


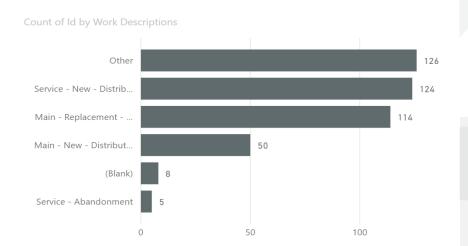






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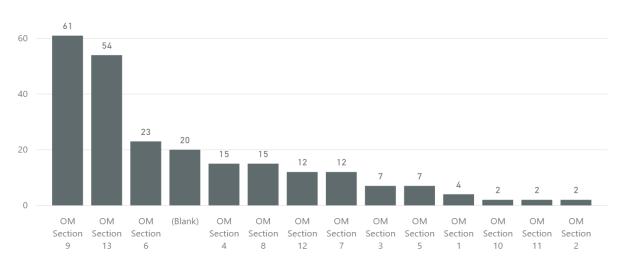




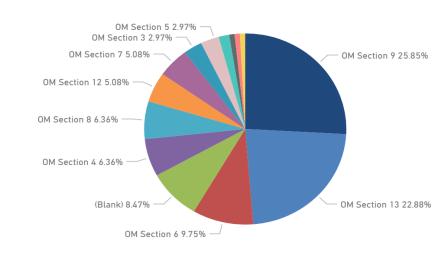




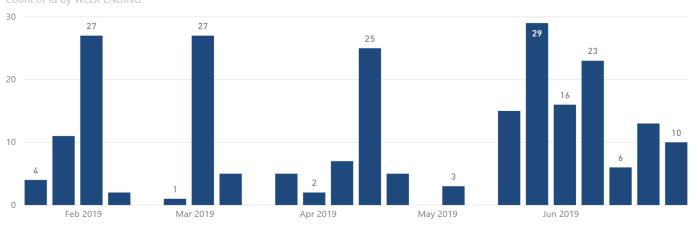




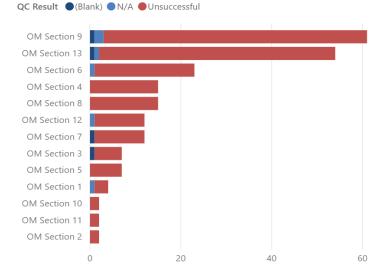
Count of Id by Issue Category



Count of Id by WEEK ENDING



Count of Id by Issue Category and QC Result

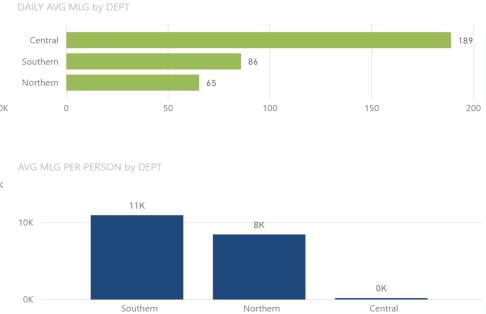


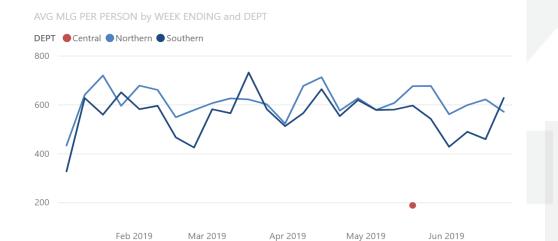






Northern











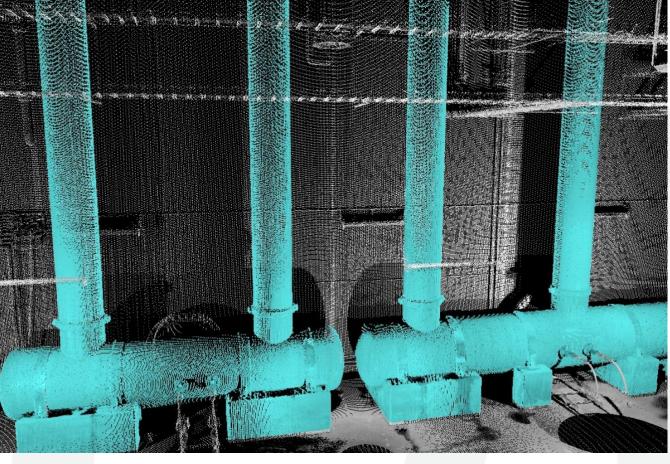
□Leica RTC 360

- ✓ 2 Million Data Points a Second
- ✓ Millimeter accuracy
- ✓ Can collect data up to 300' away
- ✓ Collect using smartphone/tablet



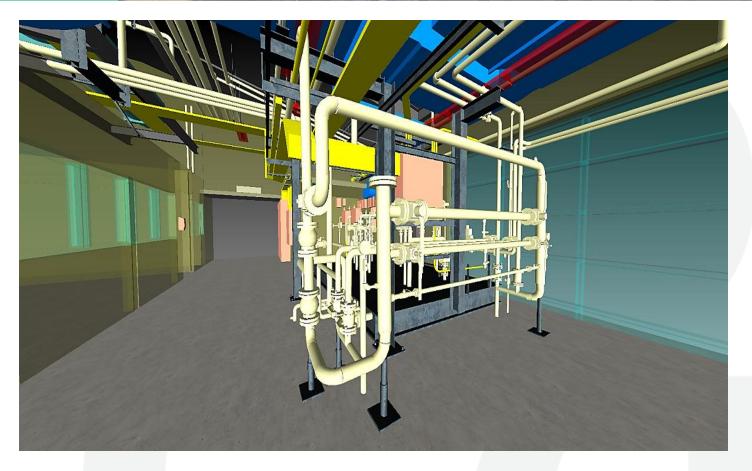
- ☐ Automatic registration and point cloud creation
- ☐ Imagery overlaid on point cloud data





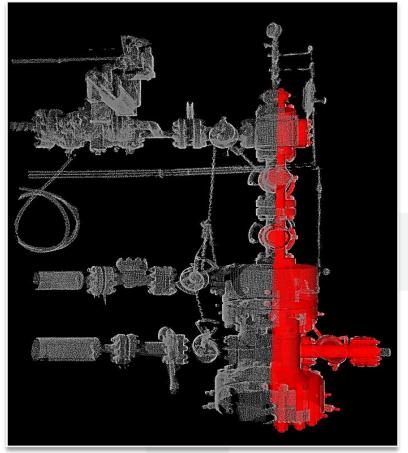


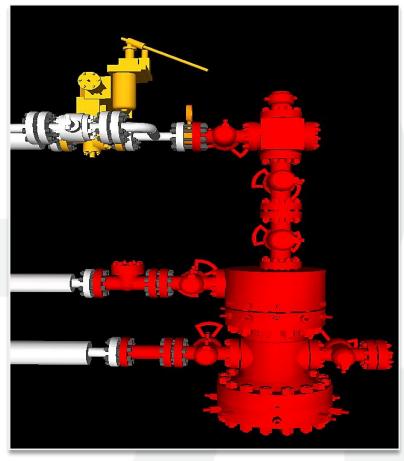
- **□** 3D models/drawing generation
- □ +/- 1mm @10M, 3mm@50M
- ☐ Limits Safety Hazards
- ☐ Reduces field time and shutdowns
- **☐** Improves project management
- ☐ Precise, fast and complete
- **□** Photographic visual animation
- ☐ Variation between design / execution
- ☐ Virtual site visit and preliminary design
- **□** 3D models/drawing generation





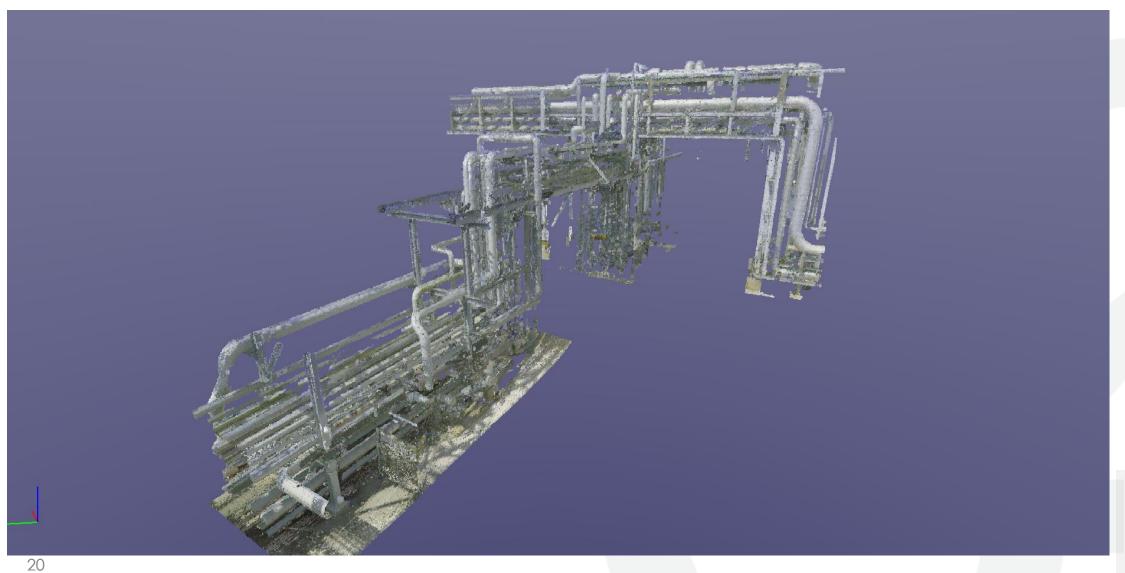
- ☐ Full As-Is 3D models of piping, structural steel, equipment and buildings
- ☐ True Representation of the environment
- □ Replaces 3D Cad models











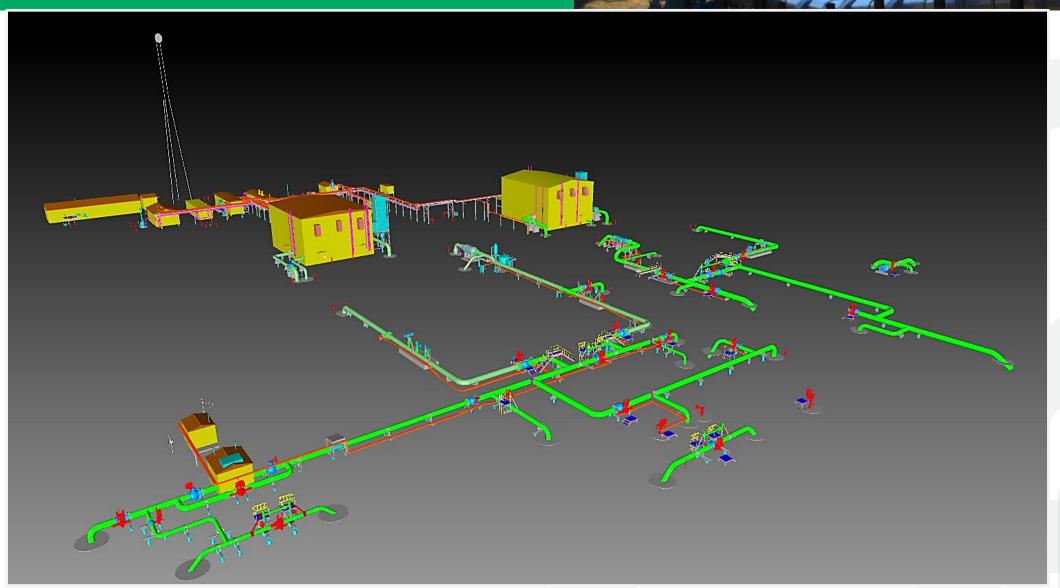






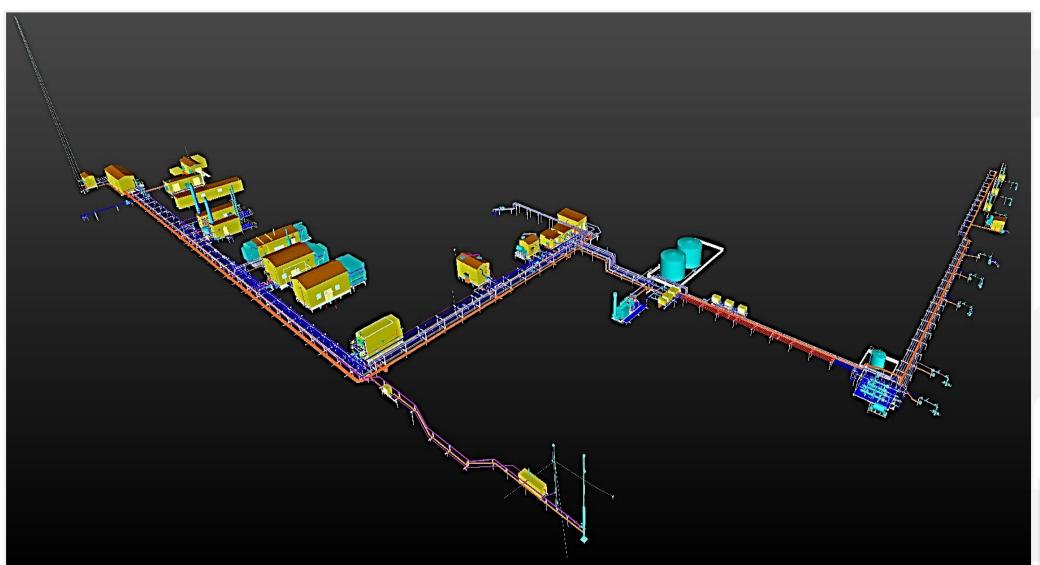






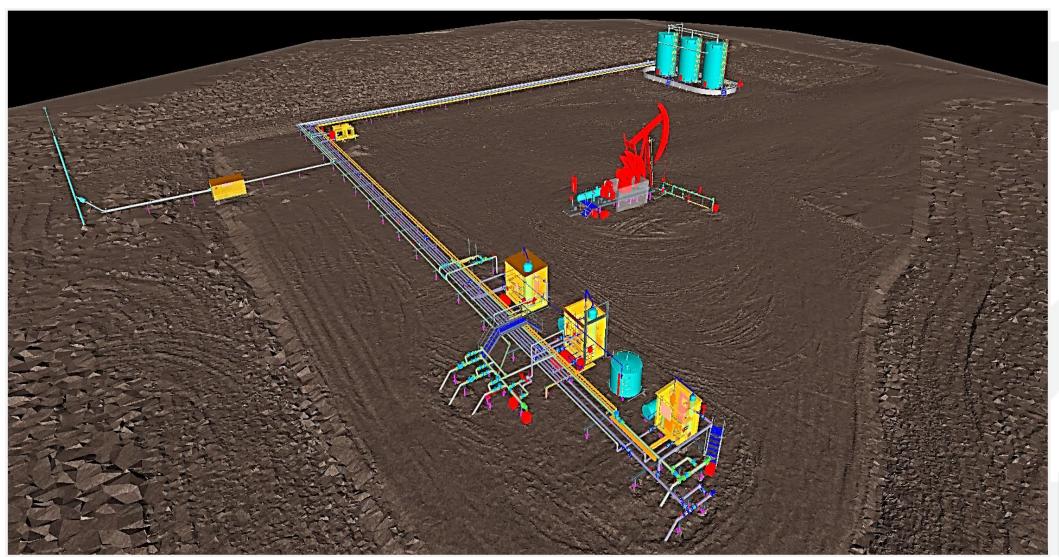








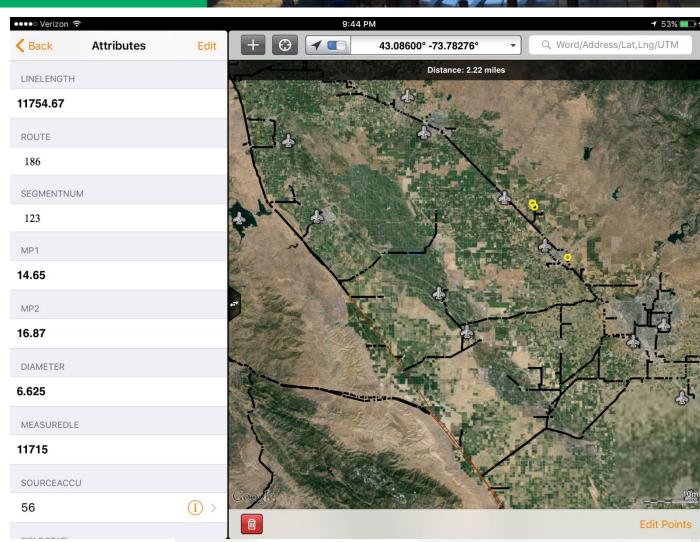






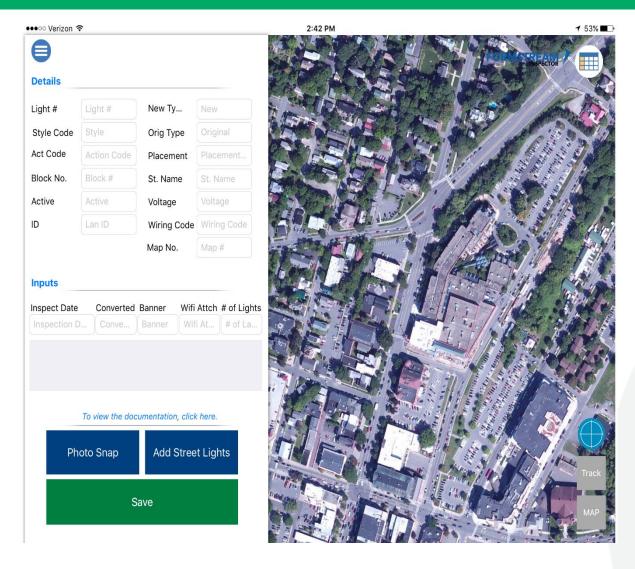
Mapping

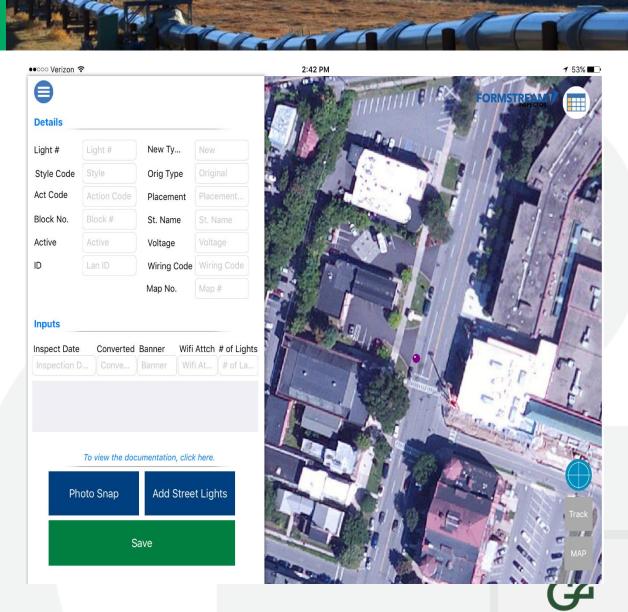
- ☐ Removing Paper Maps From Field
- ☐ Current
- ☐ Updated and Accurate





Mapping





INTEGRATED S O L U T I O N S



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THANK YOU



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