Americas' SAP Users' Group

City of San Diego – The Road forward to Successful Asset Management utilizing SAP

About the Speakers

Gerard Lonergan

- SAP EAM Functional Manager
- City of San Diego
- People always think I am from Scotland!

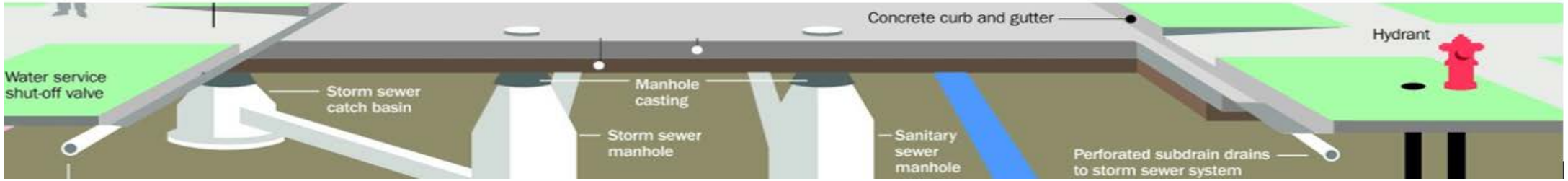
Nick Cunningham

- Program Coordinator
- City of San Diego
- Never mistaken for a person from Scotland!

Key Outcomes/Objectives

- Notifications & Work Orders
- Data Governance
- Asset Management Planning
- Asset Planning transition to SAP

The Asset Management World



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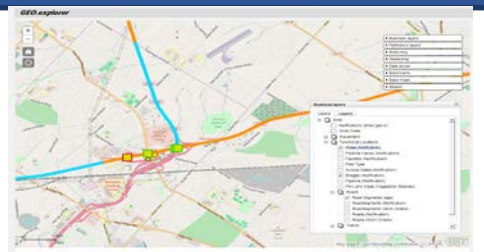
SYSTEM LANDSCAPE OVERVIEW

Business Layers
- FLOCs
- Equipment
- Notifications
- Work orders
- Maintenance items

GEO.e Explorer
(Interactive Map)



Reference Layers
(Feature Layers)
- District Boundaries
- Main Assessment District
- Watershed Maint. Areas
- Zip Codes
- Assets:
  - FLOCs
  - Equipment

HANA Spatial
SAP Asset and Transaction geometry

Which Assets, What Work and When?

PowerPlan AMP

PowerPlan Functions
- Asset Decision Support
- Asset Investment Planning
- "What If" Scenario Modeling
- CIP Optimization
- Cross Asset Optimization

What work needs to get done?

SAP

SAP Asset Master Data
- FLOCs
- Equipment

SAP Functions
- Work Management
- Logistics
- Scheduling
- Master Data Management
- SAP Side of Asset Synch process

GIS Functions
- Location Services
- Reference Layers
- Base Maps
- GIS Side of Asset Synch process

Where is the Asset located?

Enterprise GIS

**Synchronization process*

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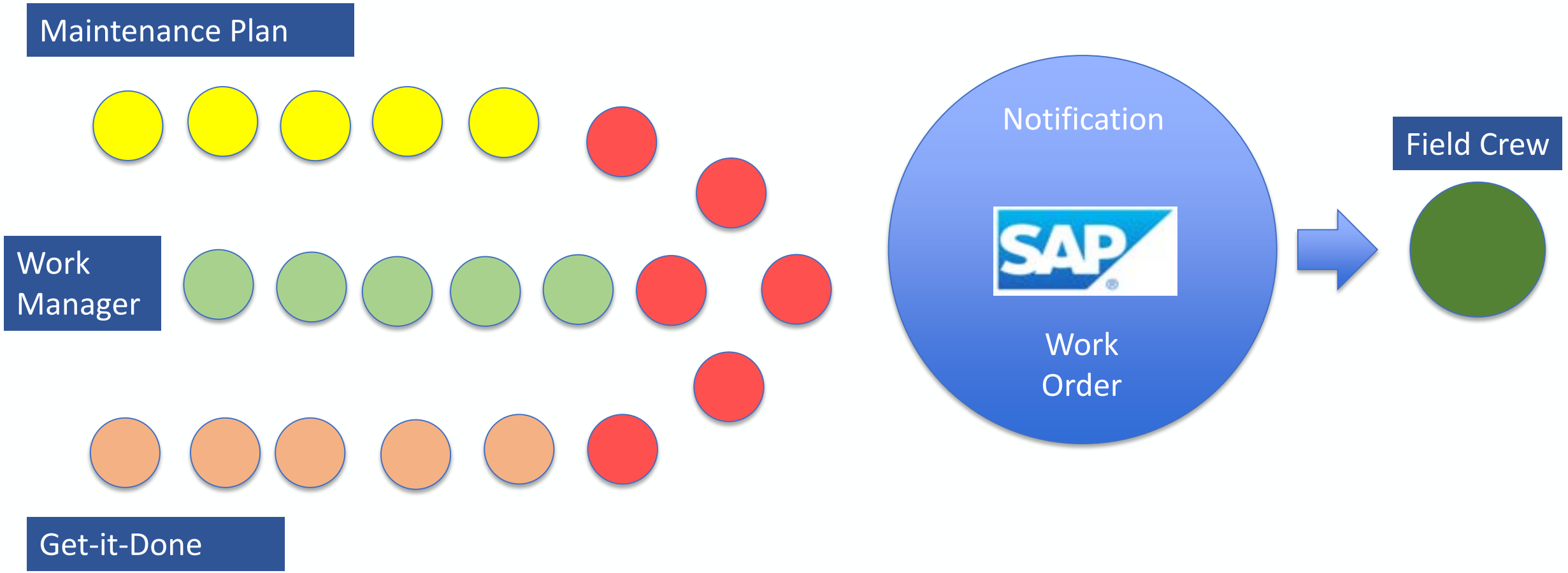
Notification Request Sources



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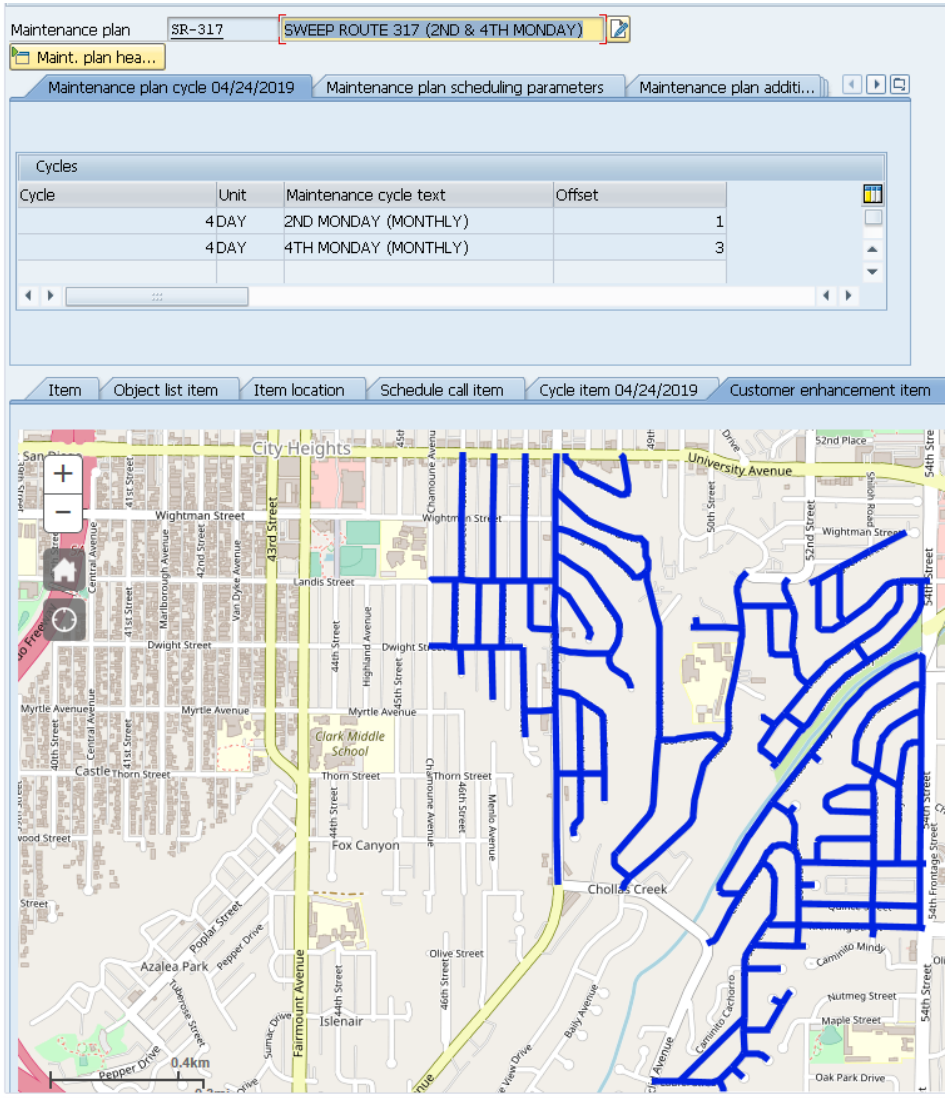
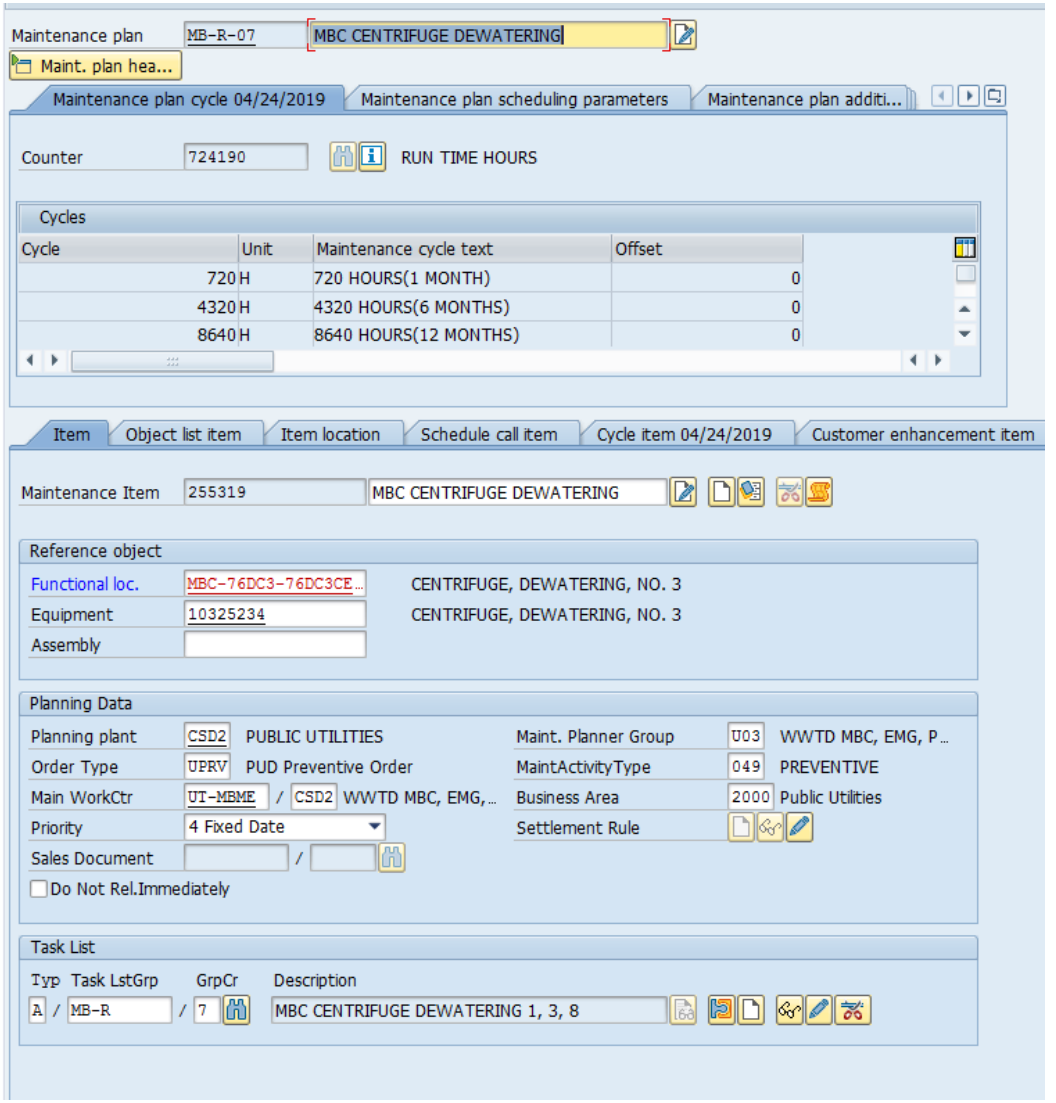
Maintenance Plans





Get-it-Done

New Report | Contact Information | Verify | Confirm

Report a Problem: Pothole

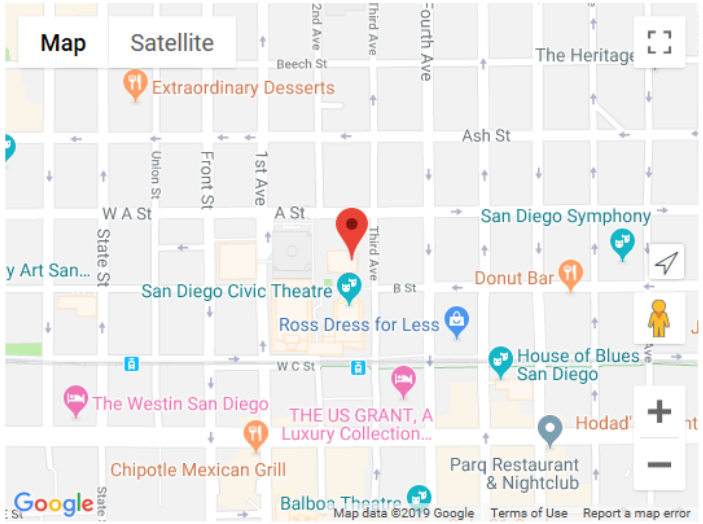
Complete steps 1 through 4 to report a problem. For emergencies, call 911.

Required *

1 Address:

Enter the location of the problem and, if needed, adjust the red map marker below.

1200 Third Ave, San Diego, CA 92101, USA *



2 Report Category/Type:

Click To Select Different Report Category/Type

Pothole

3 Description:

Describe the issue in detail. *

4 Upload Images:

Browse...

Preview Images

Next

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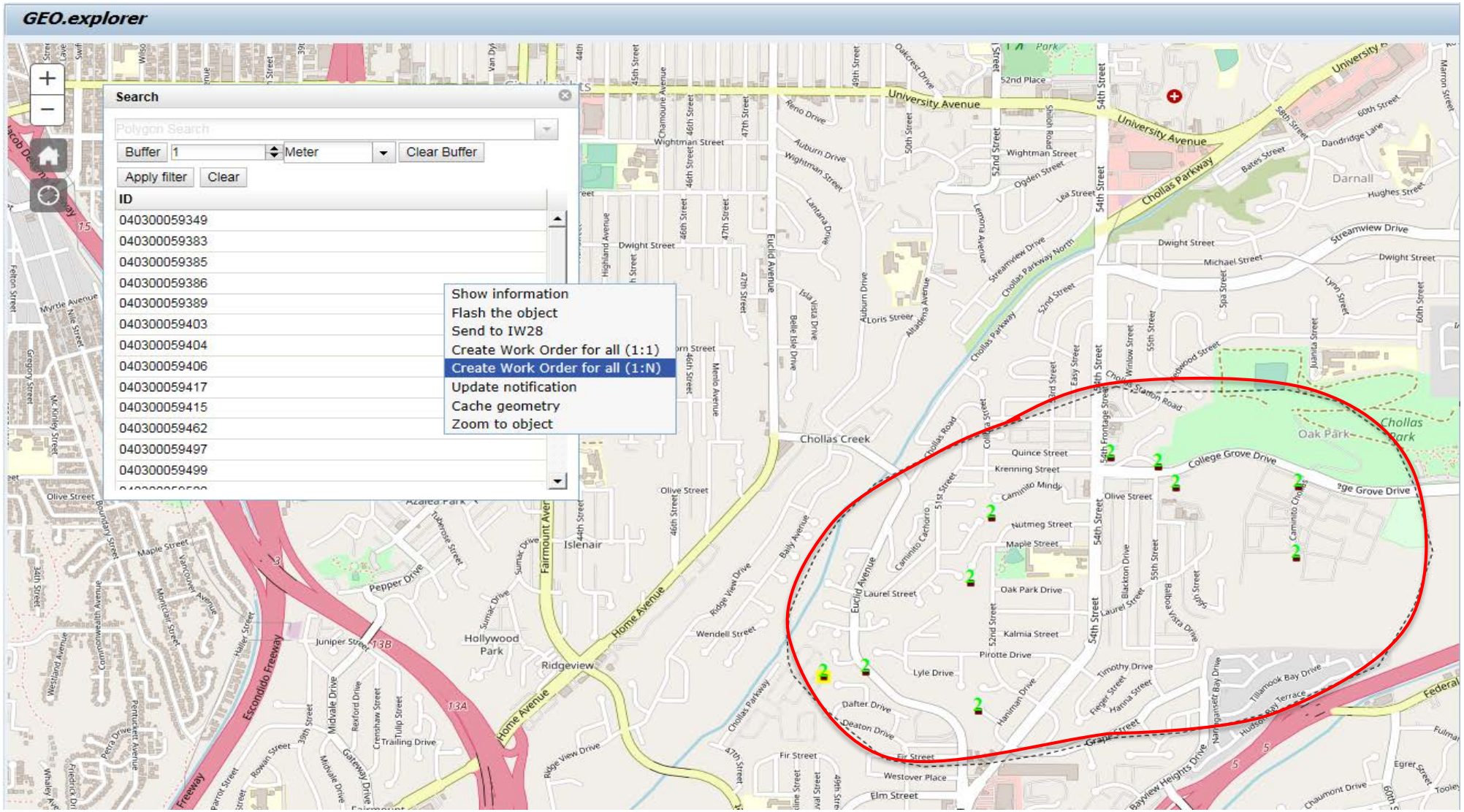
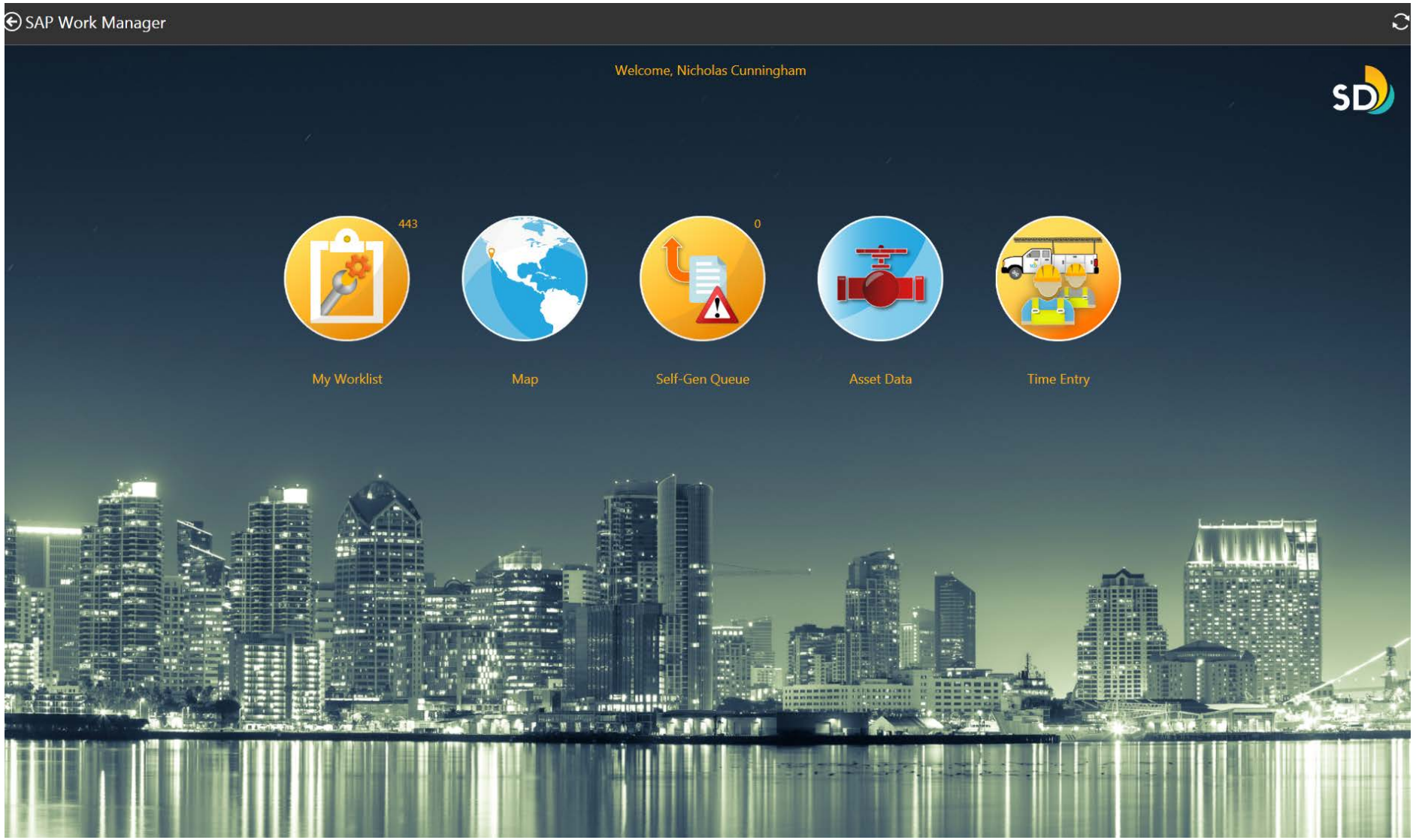
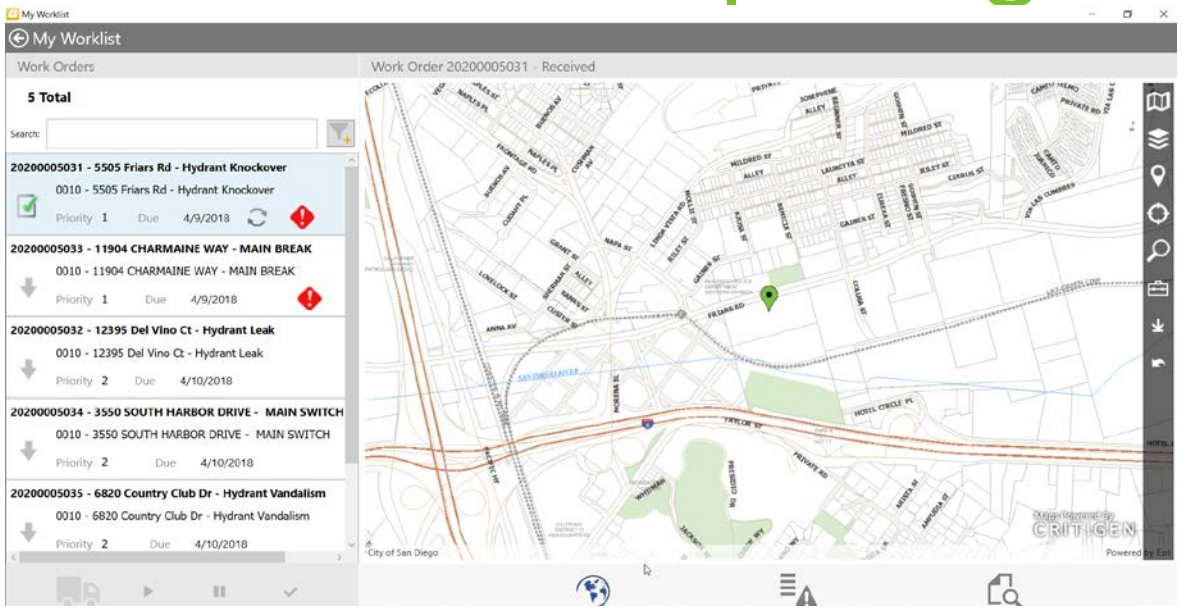
Work Order Creation – Spatial Grouping



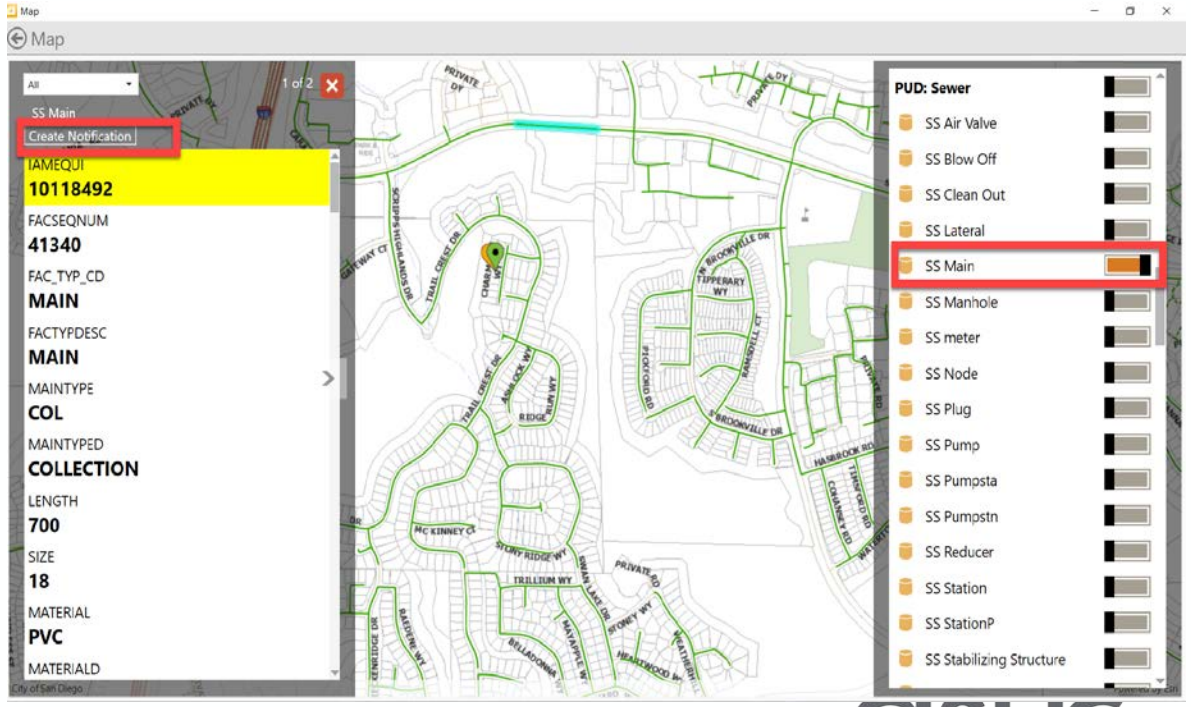
Work Execution - Mobile



Lemur Map Integration with Work Manager



- Local view displays the location and details of each work order or notification to start/pause/complete their work.

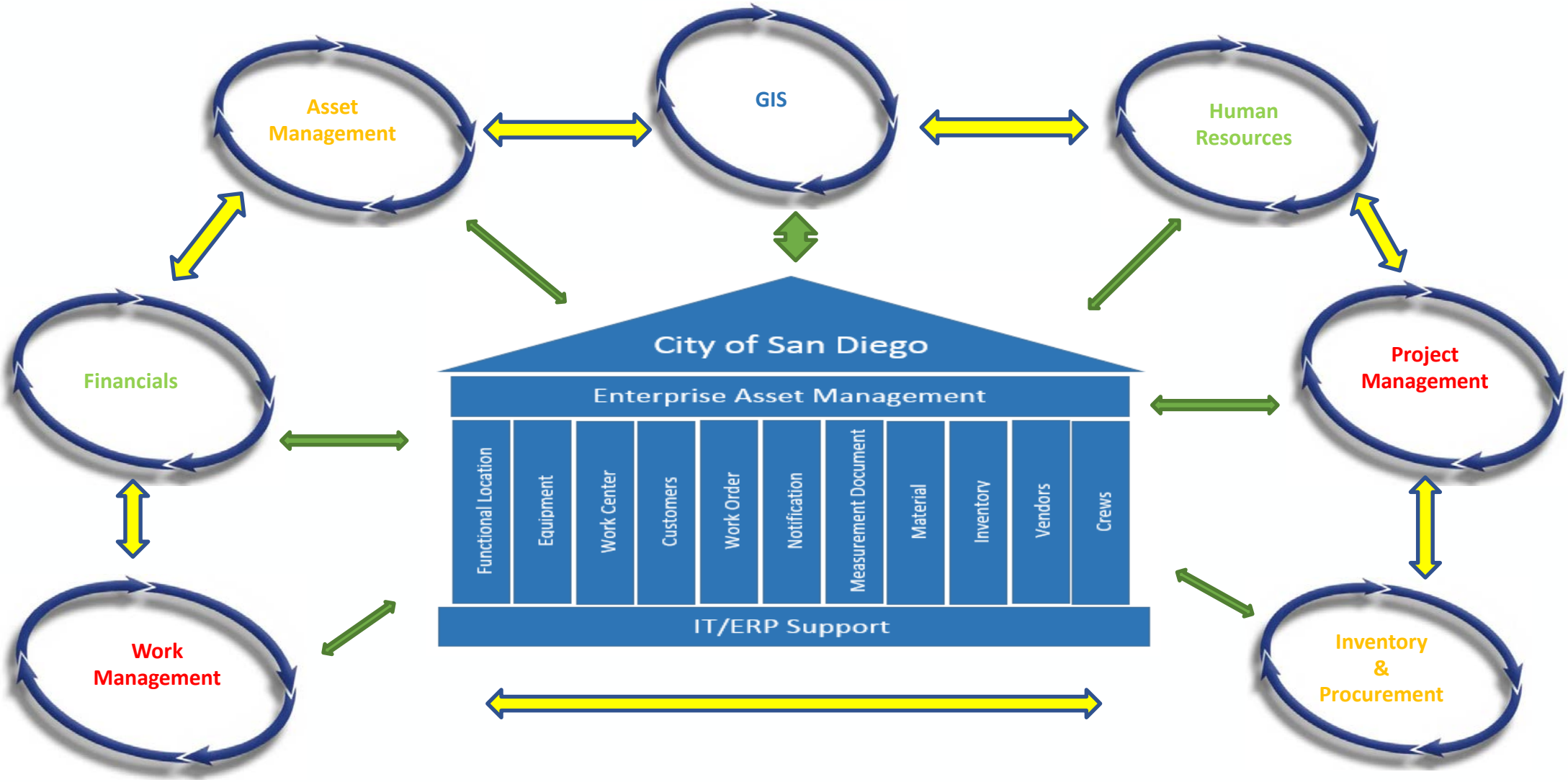


- Global map view displays the location of all assigned Orders and Notifications
- GIS reference layers showing SAP assets on the map
- View associated equipment/floc or create a notification

Asset Data Governance

- Process driven supported by integrating GIS and Work Manager with Master Data Governance MDG
- Enforcement of quality data standards across the systems
- Enhanced sync framework supports data transfer between GIS and SAP through a custom derivation framework
- Functionality exists to create change requests in MDG as Work Manager syncs with SAP.

EAM Dependencies



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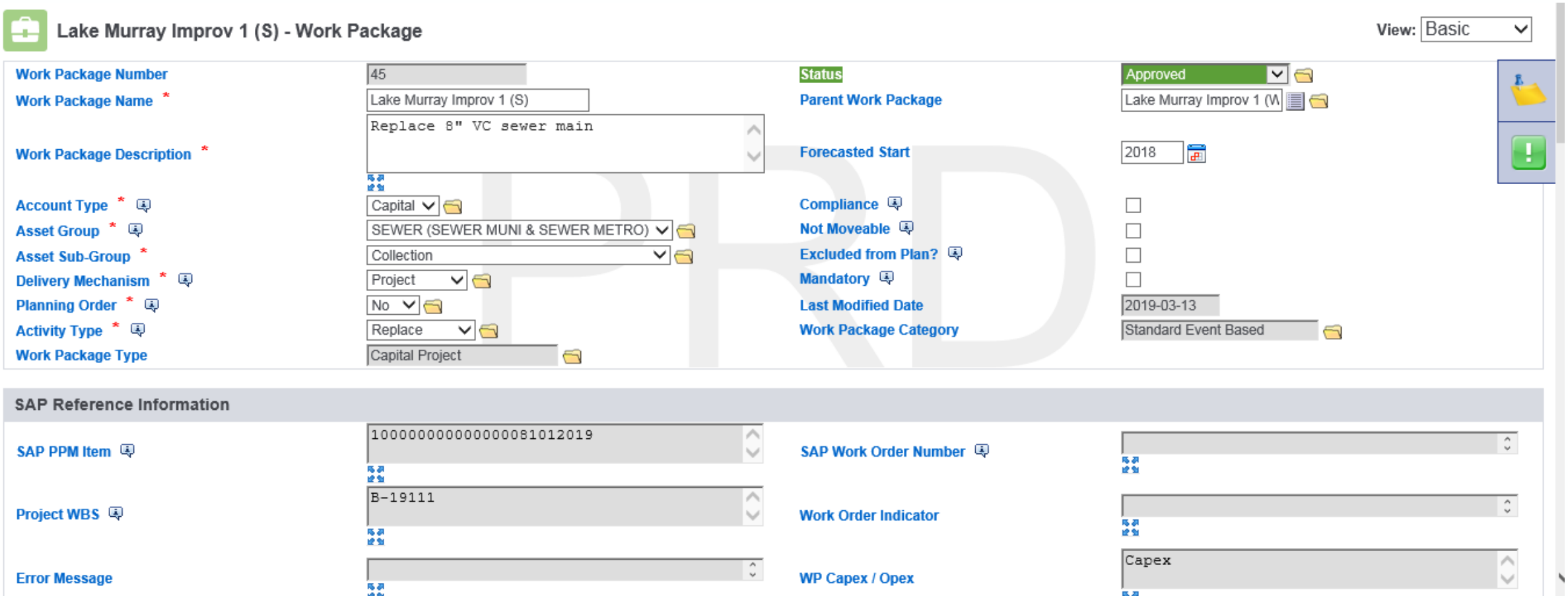
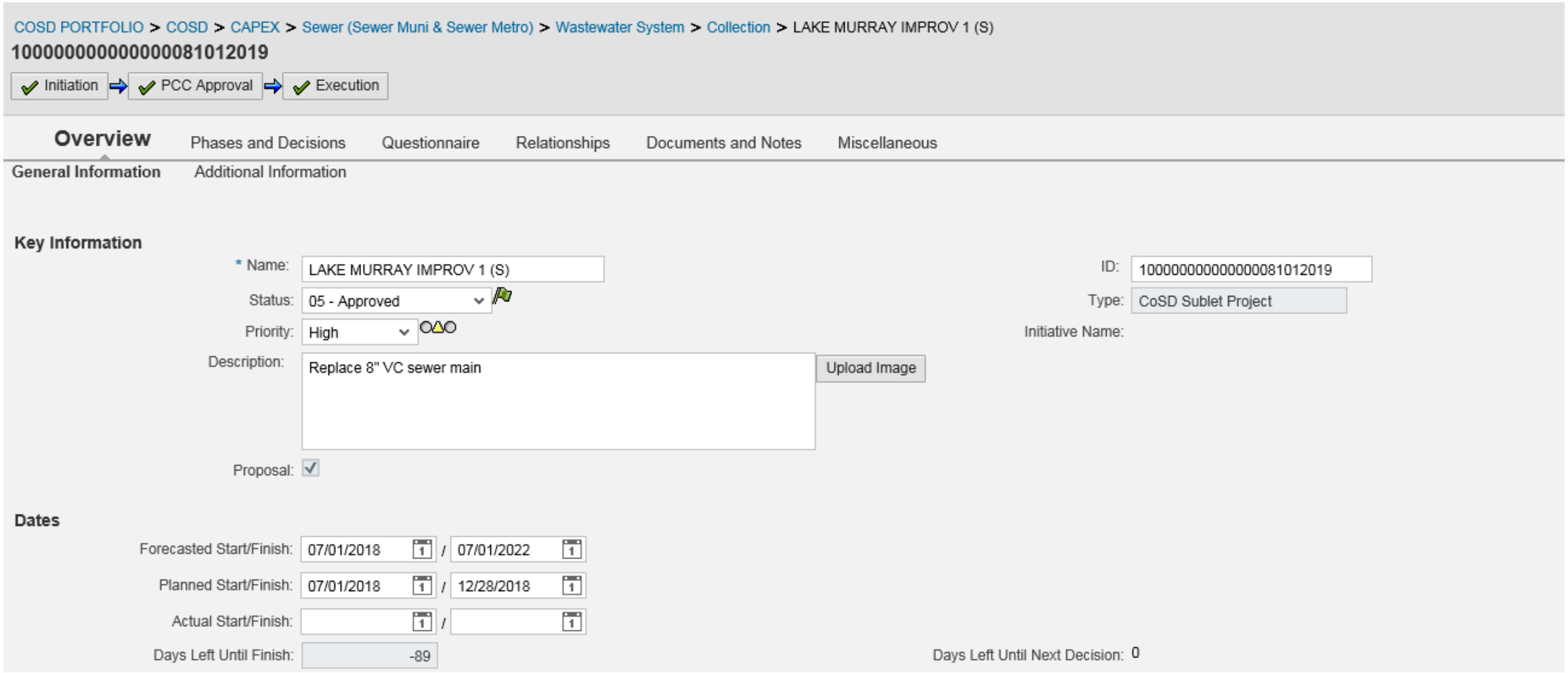
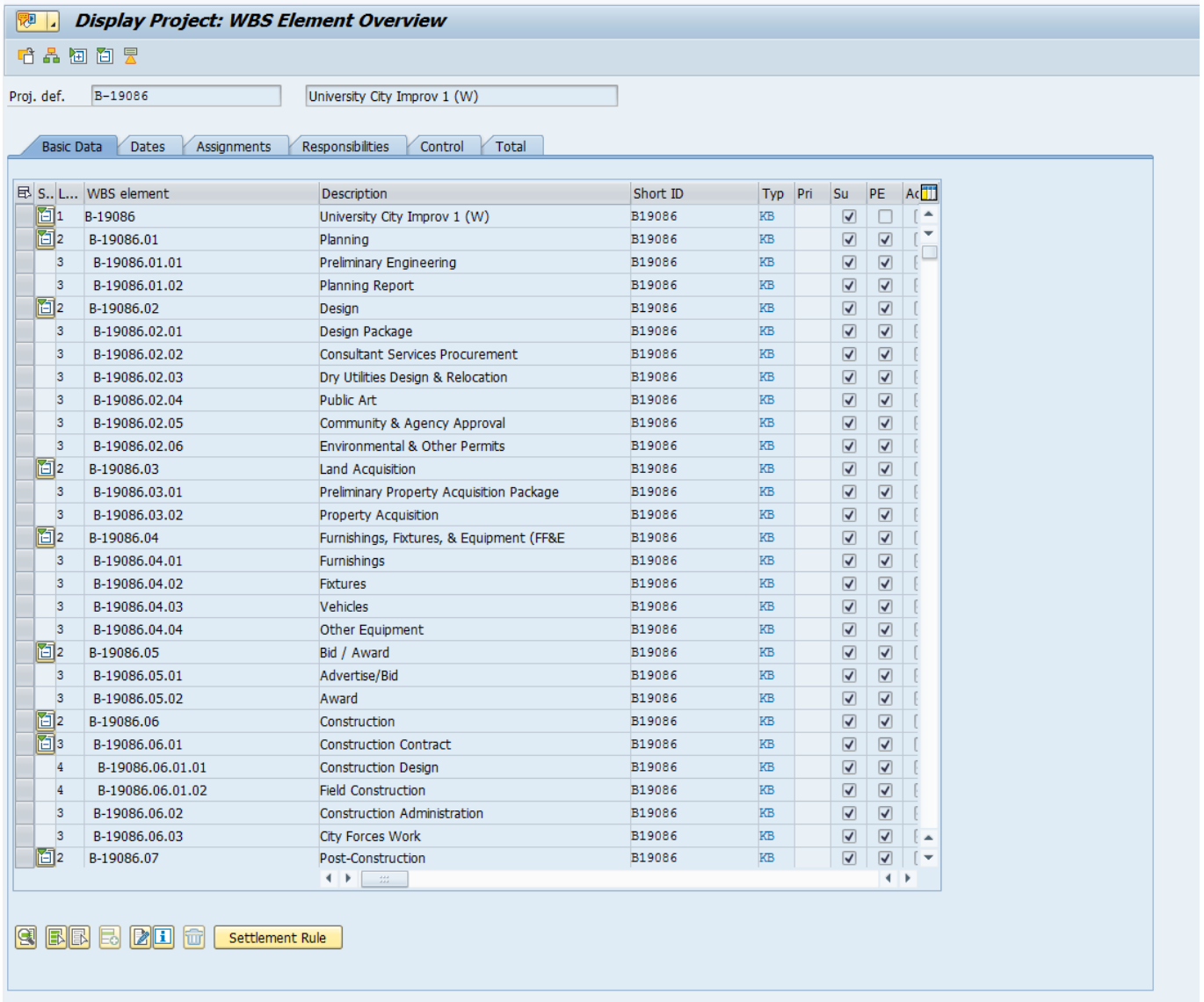
Asset Management Planning



Project and Portfolio Management

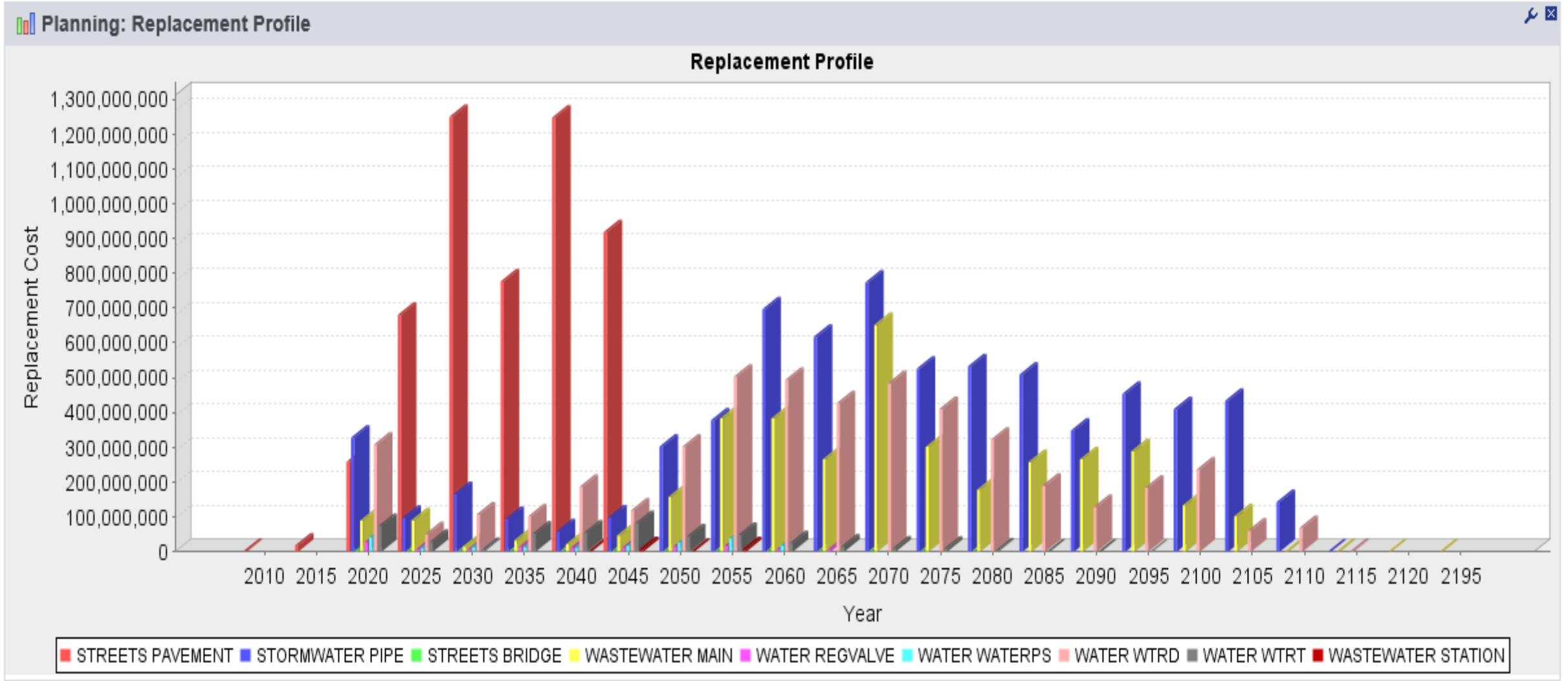


Project Systems

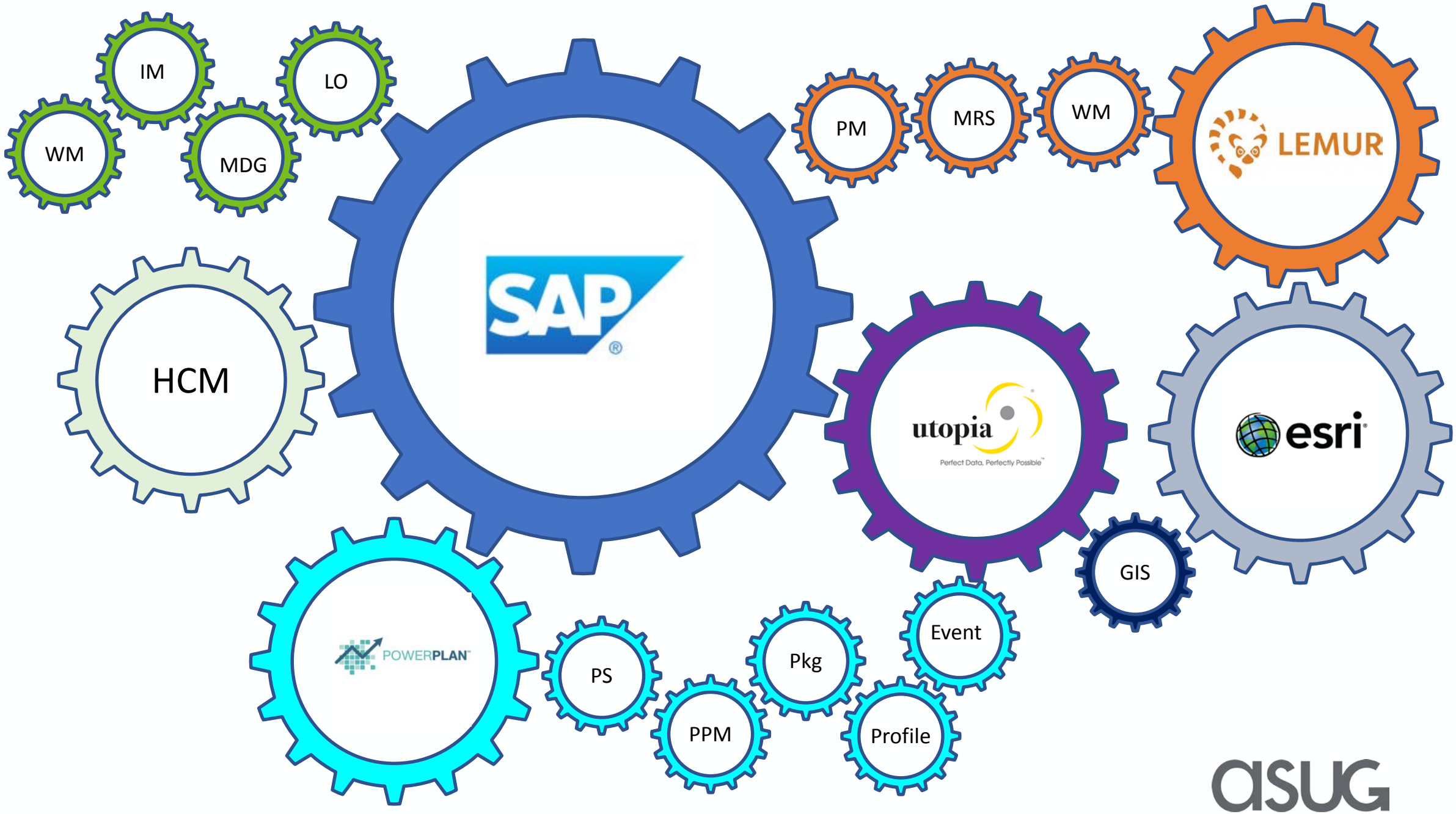


S..	L...	WBS element	Description	Short ID	Typ	Pri	Su	PE	Ac
	1	B-19086	University City Improv 1 (W)	B19086	KB		☑	☐	
	2	B-19086.01	Planning	B19086	KB		☑	☑	
	3	B-19086.01.01	Preliminary Engineering	B19086	KB		☑	☑	
	3	B-19086.01.02	Planning Report	B19086	KB		☑	☑	
	2	B-19086.02	Design	B19086	KB		☑	☑	
	3	B-19086.02.01	Design Package	B19086	KB		☑	☑	
	3	B-19086.02.02	Consultant Services Procurement	B19086	KB		☑	☑	
	3	B-19086.02.03	Dry Utilities Design & Relocation	B19086	KB		☑	☑	
	3	B-19086.02.04	Public Art	B19086	KB		☑	☑	
	3	B-19086.02.05	Community & Agency Approval	B19086	KB		☑	☑	
	3	B-19086.02.06	Environmental & Other Permits	B19086	KB		☑	☑	
	2	B-19086.03	Land Acquisition	B19086	KB		☑	☑	
	3	B-19086.03.01	Preliminary Property Acquisition Package	B19086	KB		☑	☑	
	3	B-19086.03.02	Property Acquisition	B19086	KB		☑	☑	
	2	B-19086.04	Furnishings, Fixtures, & Equipment (FF&E	B19086	KB		☑	☑	
	3	B-19086.04.01	Furnishings	B19086	KB		☑	☑	
	3	B-19086.04.02	Fixtures	B19086	KB		☑	☑	
	3	B-19086.04.03	Vehicles	B19086	KB		☑	☑	
	3	B-19086.04.04	Other Equipment	B19086	KB		☑	☑	
	2	B-19086.05	Bid / Award	B19086	KB		☑	☑	
	3	B-19086.05.01	Advertise/Bid	B19086	KB		☑	☑	
	3	B-19086.05.02	Award	B19086	KB		☑	☑	
	2	B-19086.06	Construction	B19086	KB		☑	☑	
	3	B-19086.06.01	Construction Contract	B19086	KB		☑	☑	
	4	B-19086.06.01.01	Construction Design	B19086	KB		☑	☑	
	4	B-19086.06.01.02	Field Construction	B19086	KB		☑	☑	
	3	B-19086.06.02	Construction Administration	B19086	KB		☑	☑	
	3	B-19086.06.03	City Forces Work	B19086	KB		☑	☑	
	2	B-19086.07	Post-Construction	B19086	KB		☑	☑	

Projected Replacement by Asset



Projected City Replacement Financial Costs


IM
LO
WM
MDG
PM
MRS
WM
LEMUR
HCM
SAP
utopia
Perfect Data, Perfectly Possible
esri
GIS
POWERPLAN
PS
Pkg
Event
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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:

http://info.asug.com/2019-ac-slides

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Q&A

For questions after this session, contact us:

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