



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!

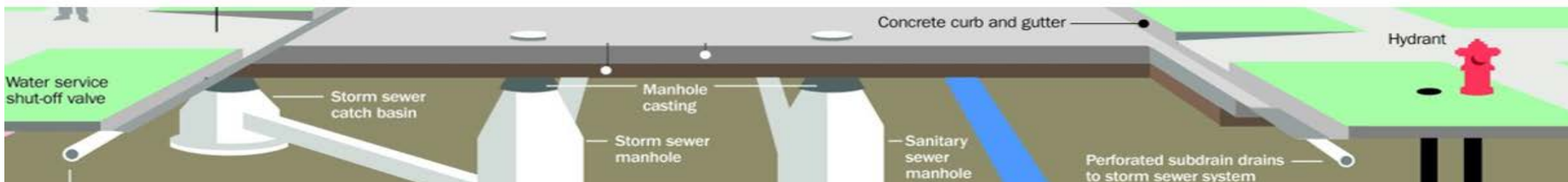
Nick Cunningham

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

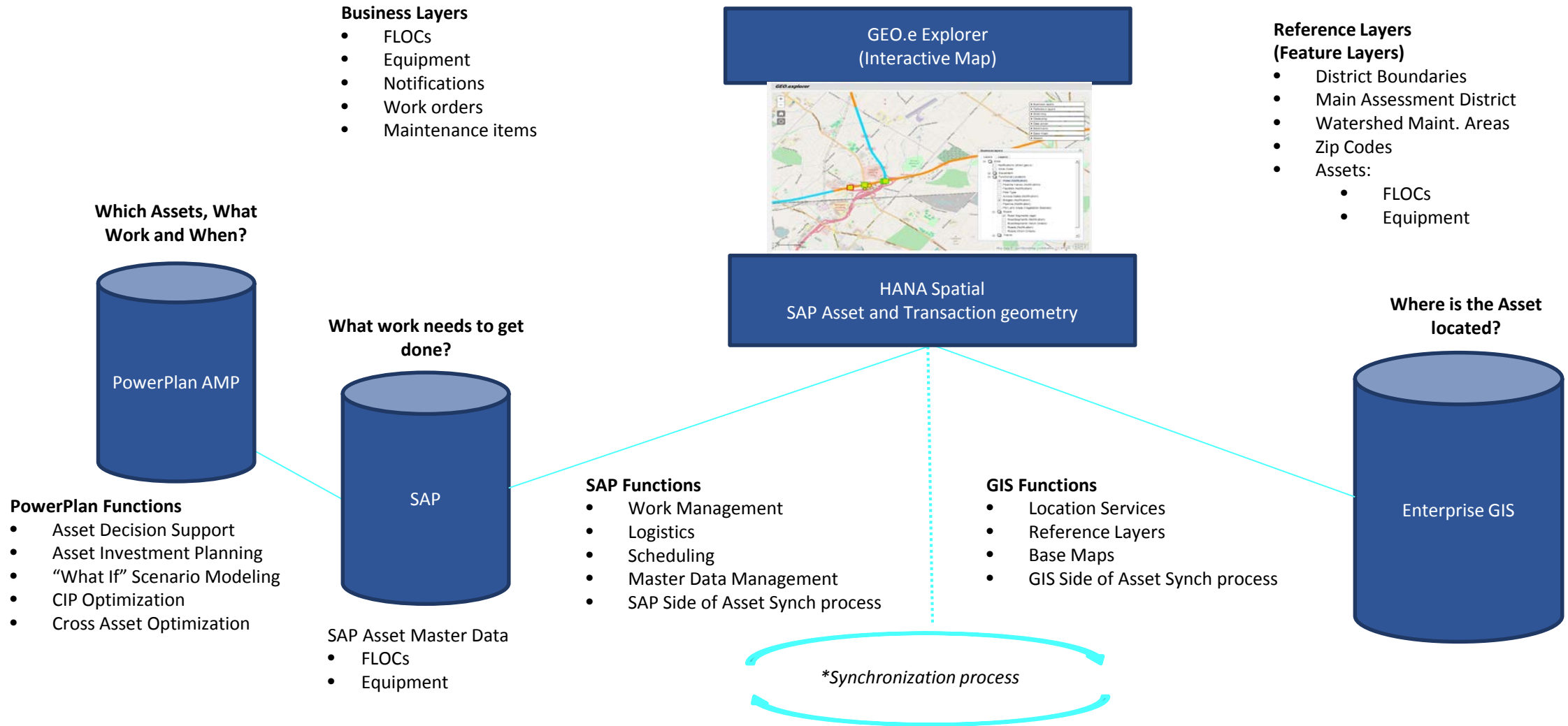
Key Outcomes/Objectives

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

The Asset Management World

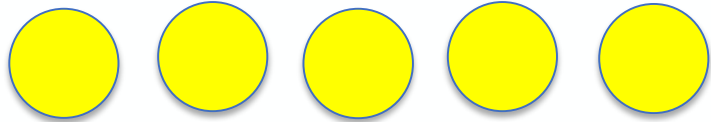


SYSTEM LANDSCAPE OVERVIEW

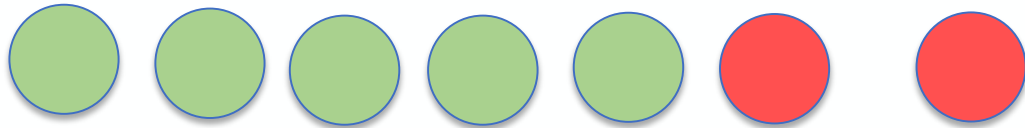


Notification Request Sources

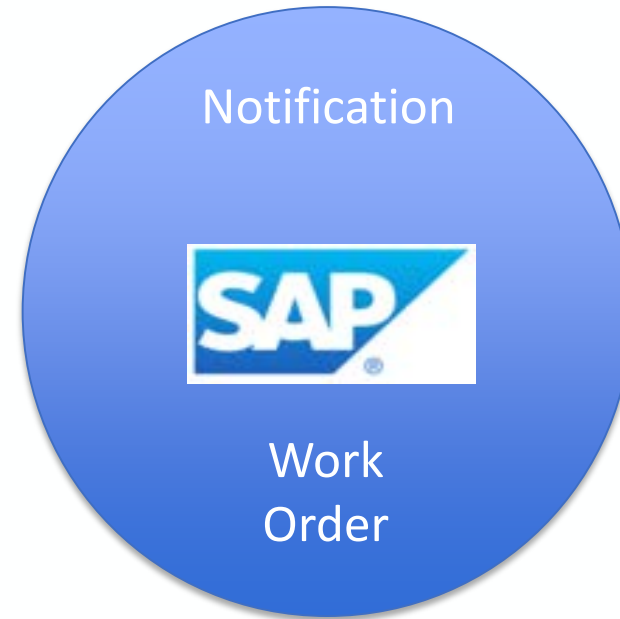
Maintenance Plan



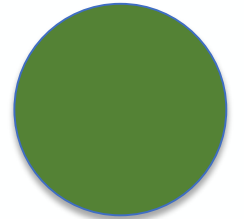
Work Manager



Get-it-Done



Field Crew



Maintenance Plans

Maintenance plan **SR-317** **SWEEP ROUTE 317 (2ND & 4TH MONDAY)**

Maint. plan hea...

Maintenance plan cycle 04/24/2019 Maintenance plan scheduling parameters Maintenance plan additi...

Cycles			
Cycle	Unit	Maintenance cycle text	Offset
	4DAY	2ND MONDAY (MONTHLY)	1
	4DAY	4TH MONDAY (MONTHLY)	3

Item Object list item Item location Schedule call item Cycle item 04/24/2019 Customer enhancement item

Maintenance plan **MB-R-07** **MBC CENTRIFUGE DEWATERING**

Maint. plan hea...

Maintenance plan cycle 04/24/2019 Maintenance plan scheduling parameters Maintenance plan additi...

Counter **724190** RUN TIME HOURS

Cycles			
Cycle	Unit	Maintenance cycle text	Offset
	720 H	720 HOURS(1 MONTH)	0
	4320 H	4320 HOURS(6 MONTHS)	0
	8640 H	8640 HOURS(12 MONTHS)	0

Item Object list item Item location Schedule call item Cycle item 04/24/2019 Customer enhancement item

Maintenance Item **255319** **MBC CENTRIFUGE DEWATERING**

Reference object

Functional loc.	MBC-76DC3-76DC3CE...	CENTRIFUGE, DEWATERING, NO. 3
Equipment	10325234	CENTRIFUGE, DEWATERING, NO. 3
Assembly		

Planning Data

Planning plant	CSD2 PUBLIC UTILITIES	Maint. Planner Group	U03 WWTD MBC, EMG, P...
Order Type	UPRV PUD Preventive Order	MaintActivityType	049 PREVENTIVE
Main WorkCtr	UT-MBME / CSD2 WWTD MBC, EMG, ...	Business Area	2000 Public Utilities
Priority	4 Fixed Date	Settlement Rule	

Do Not Rel.Immediately

Task List

Typ	Task LstGrp	GrpCr	Description
A	/ MB-R	/ 7	MBC CENTRIFUGE DEWATERING 1, 3, 8

Get-it-Done

New Report

Contact Information

Verify

Confirm

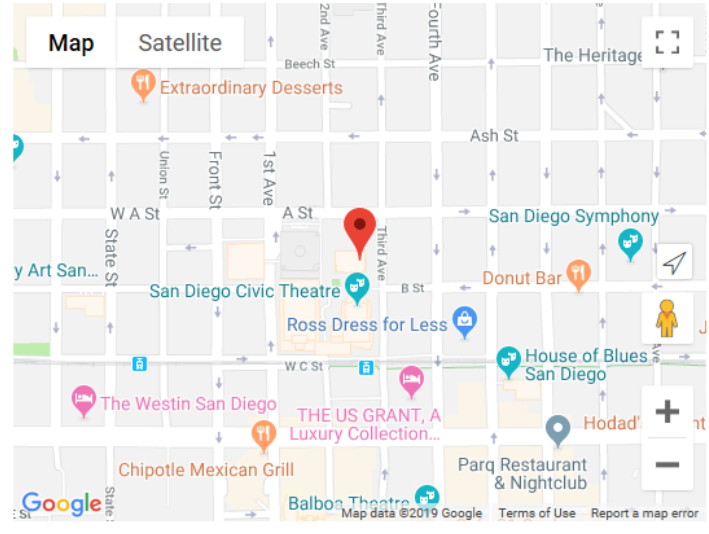
Report a Problem: Pothole

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.

 *

Map Satellite

Map data ©2019 Google Terms of Use Report a map error

2 Report Category/Type: _____

[Click To Select Different Report Category/Type](#)

3 Description: _____

Describe the issue in detail. *

4 Upload Images: _____

Preview Images

< >

Next

ASUG

Work Order Creation – Spatial Grouping

The screenshot displays the GEOexplorer interface. On the left, a search panel is visible with a 'Polygon Search' dropdown, a 'Buffer' input set to '1' with a 'Meter' unit selector, and 'Apply filter' and 'Clear' buttons. Below the search panel is a list of object IDs. A context menu is open over a red polygon on the map, listing several actions. The map shows a residential area with streets like University Avenue, Chollas Parkway, and Home Avenue. A red polygon highlights a specific area, and several green icons representing work orders are visible within and around this area.

Search

Polygon Search

Buffer 1 Meter Clear Buffer

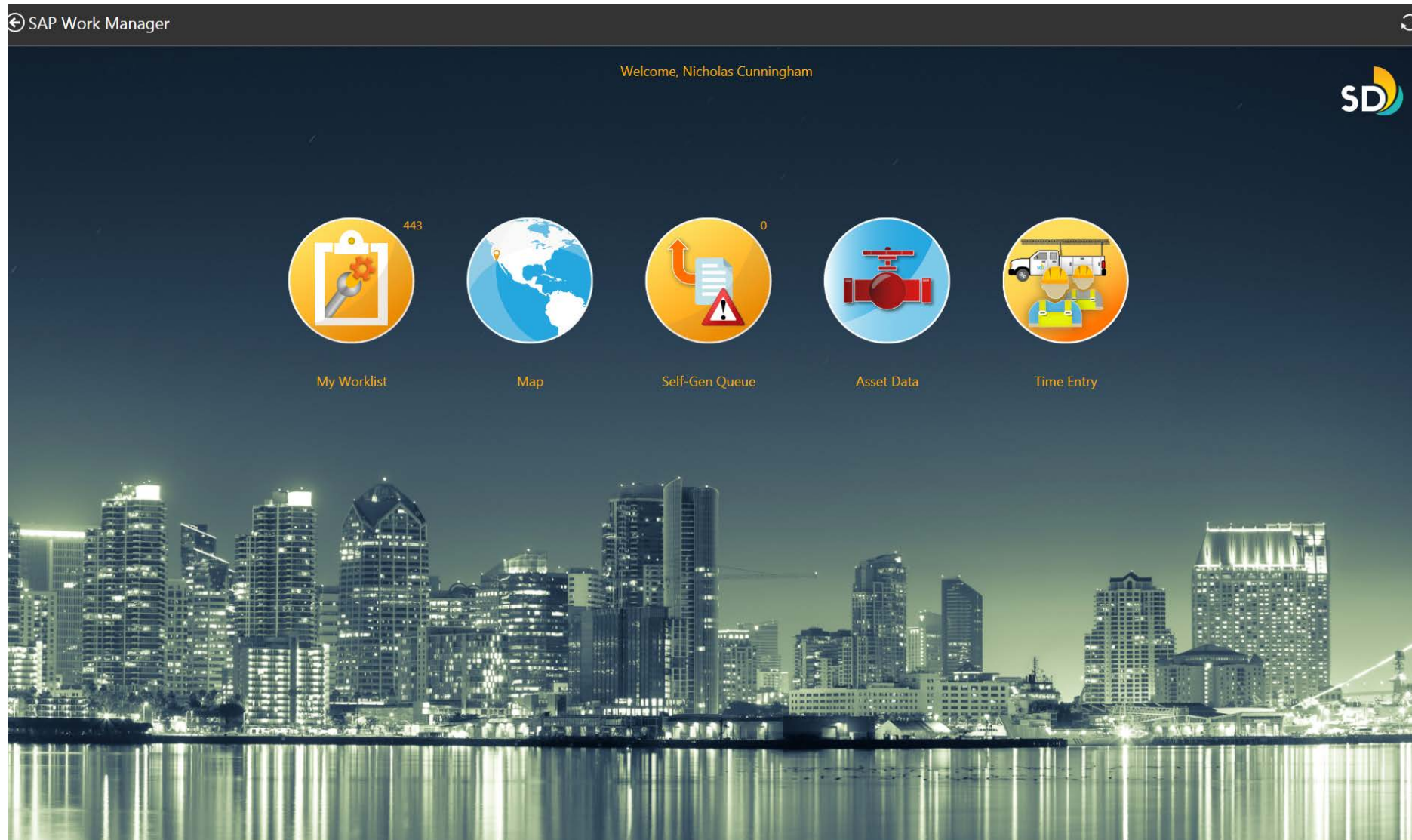
Apply filter Clear

ID

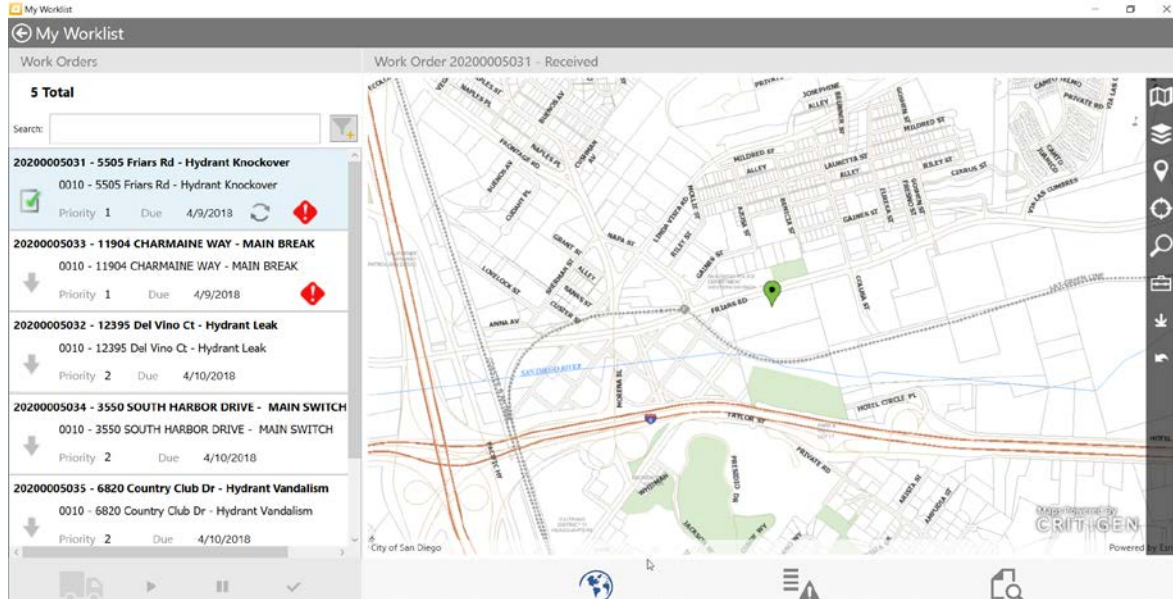
- 040300059349
- 040300059383
- 040300059385
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- 040300059389
- 040300059403
- 040300059404
- 040300059406
- 040300059417
- 040300059415
- 040300059462
- 040300059497
- 040300059499
- 040300059500

Show information
Flash the object
Send to IW28
Create Work Order for all (1:1)
Create Work Order for all (1:N)
Update notification
Cache geometry
Zoom to object

Work Execution - Mobile

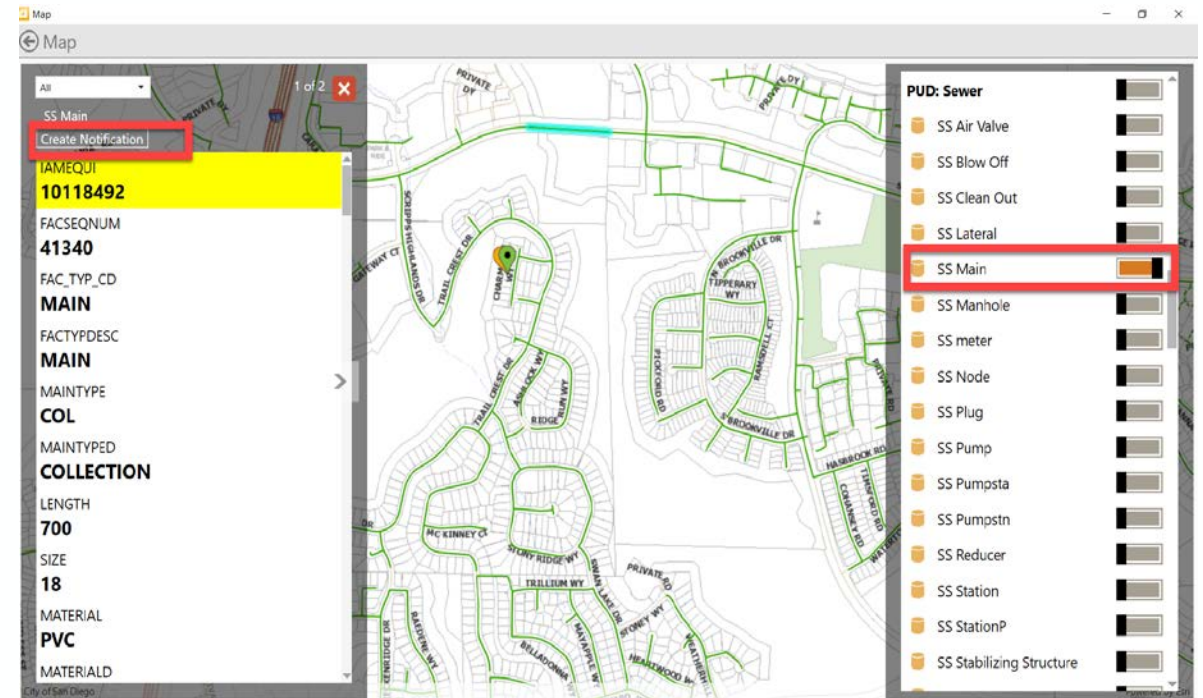


Lemur Map Integration with Work Manager



- 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

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

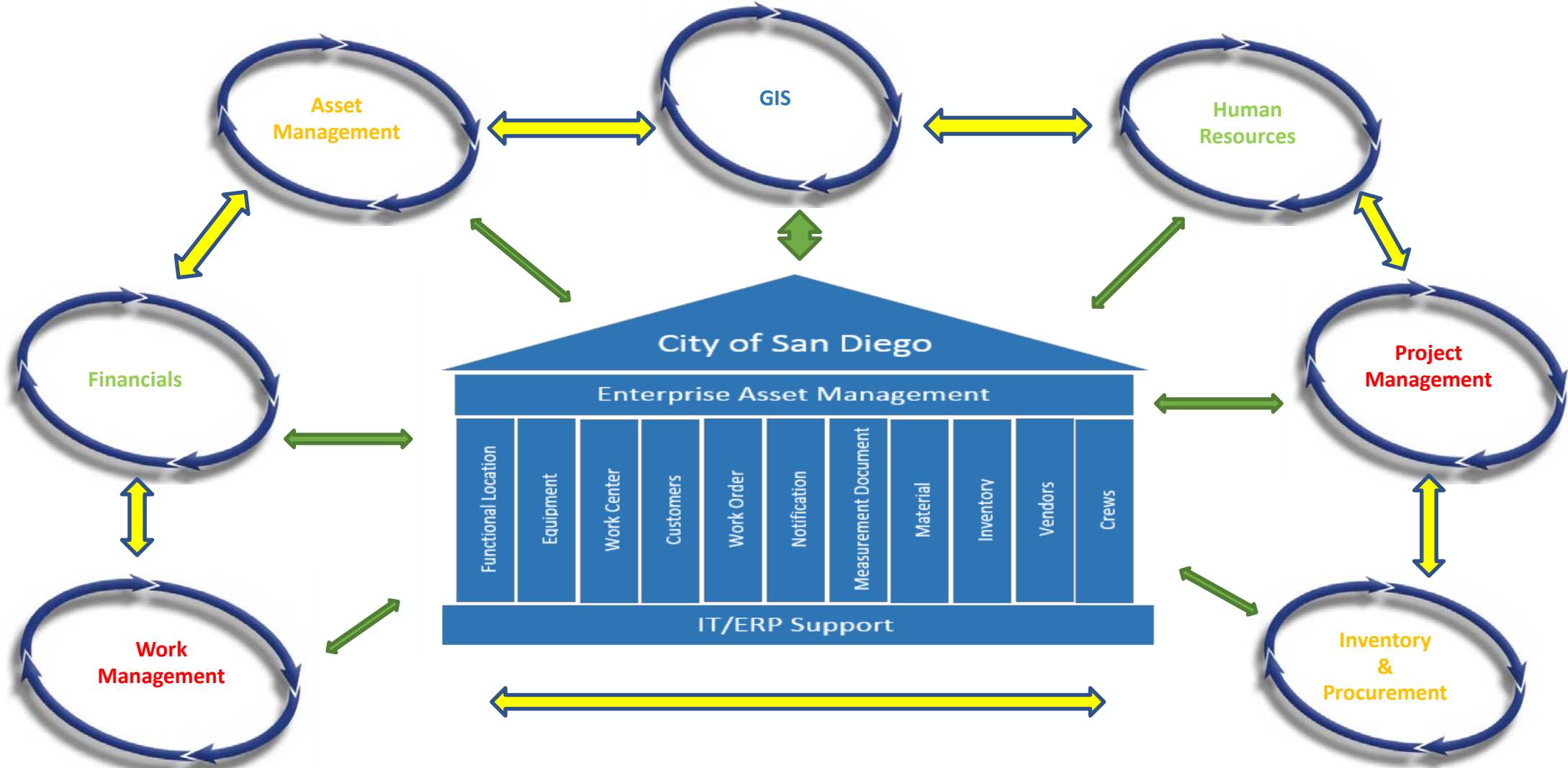


Asset Data Governance



- 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



Asset Management Planning



Lake Murray Improv 1 (S) - Work Package

View: Basic

Work Package Number	45	Status	Approved
Work Package Name *	Lake Murray Improv 1 (S)	Parent Work Package	Lake Murray Improv 1 (W)
Work Package Description *	Replace 8" VC sewer main	Forecasted Start	2018
Account Type *	Capital	Compliance	<input type="checkbox"/>
Asset Group *	SEWER (SEWER MUNI & SEWER METRO)	Not Moveable	<input type="checkbox"/>
Asset Sub-Group *	Collection	Excluded from Plan?	<input type="checkbox"/>
Delivery Mechanism *	Project	Mandatory	<input type="checkbox"/>
Planning Order *	No	Last Modified Date	2019-03-13
Activity Type *	Replace	Work Package Category	Standard Event Based
Work Package Type	Capital Project		

SAP Reference Information	
SAP PPM Item	1000000000000000081012019
Project WBS	B-19111
Error Message	
SAP Work Order Number	
Work Order Indicator	
WP Capex / Opex	Capex

Project and Portfolio Management

COSD PORTFOLIO > COSD > CAPEX > Sewer (Sewer Muni & Sewer Metro) > Wastewater System > Collection > LAKE MURRAY IMPROV 1 (S)

1000000000000000081012019

✓ Initiation → ✓ PCC Approval → ✓ Execution

Overview

Phases and Decisions Questionnaire Relationships Documents and Notes Miscellaneous

General Information

Additional Information

Key Information

* Name: LAKE MURRAY IMPROV 1 (S)

ID: 1000000000000000081012019

Status: 05 - Approved

Type: CoSD Sublet Project

Priority: High

Initiative Name:

Description: Replace 8" VC sewer main

Proposal:

Dates

Forecasted Start/Finish: 07/01/2018 / 07/01/2022

Planned Start/Finish: 07/01/2018 / 12/28/2018

Actual Start/Finish: /

Days Left Until Finish: -89

Days Left Until Next Decision: 0

Project Systems

Display Project: WBS Element Overview

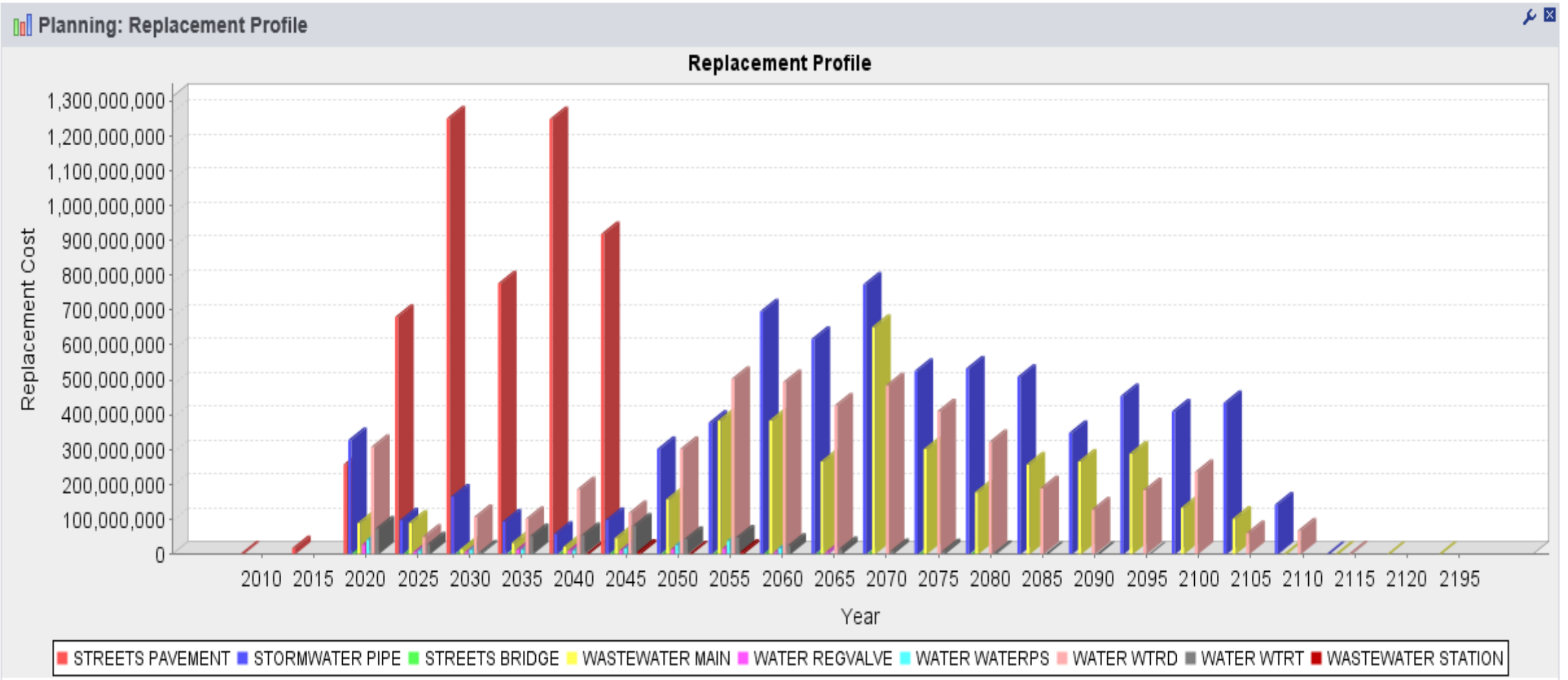
Proj. def. B-19086 University City Improv 1 (W)

Basic Data Dates Assignments Responsibilities Control Total

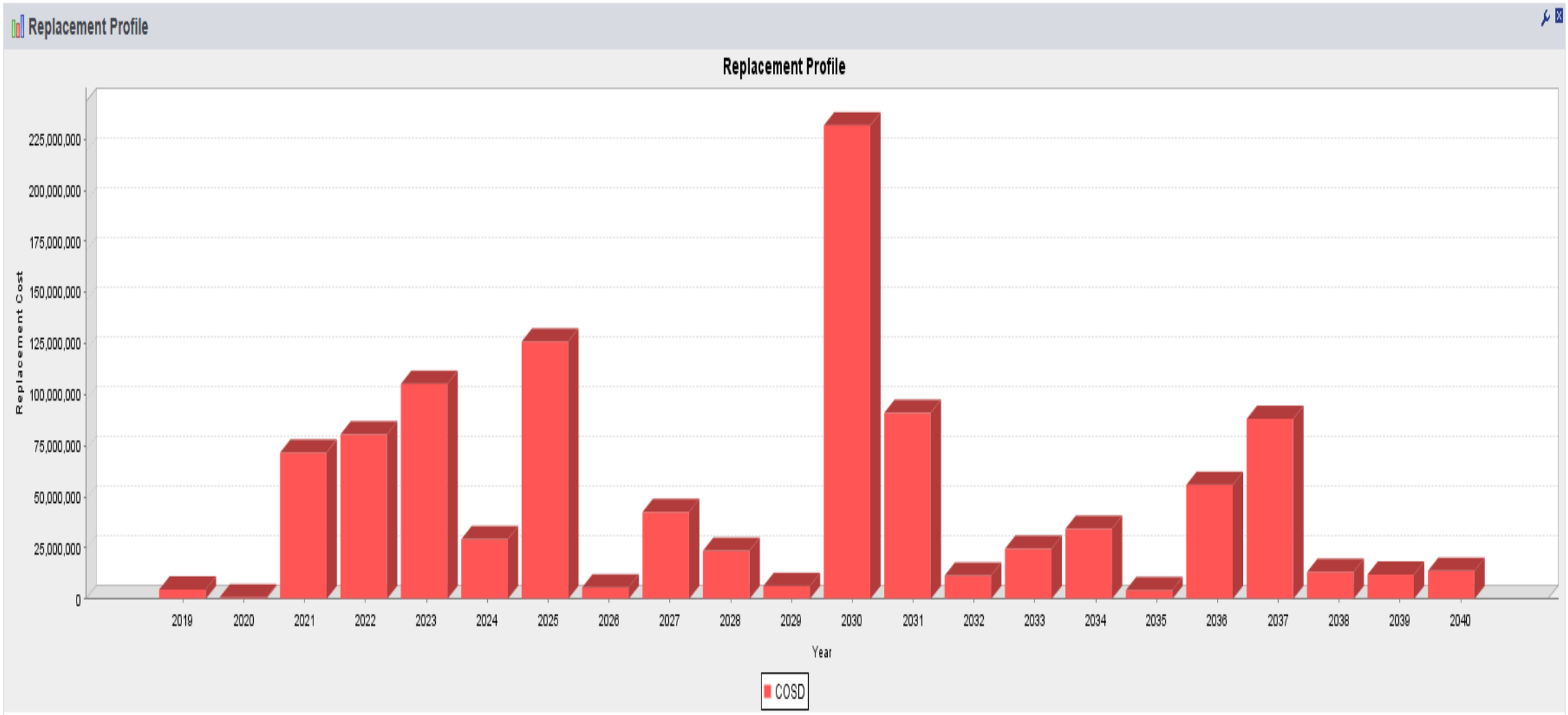
S...	L...	WBS element	Description	Short ID	Typ	Pri	Su	PE	Ac
1		B-19086	University City Improv 1 (W)	B19086	KB		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2		B-19086.01	Planning	B19086	KB		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3		B-19086.01.01	Preliminary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

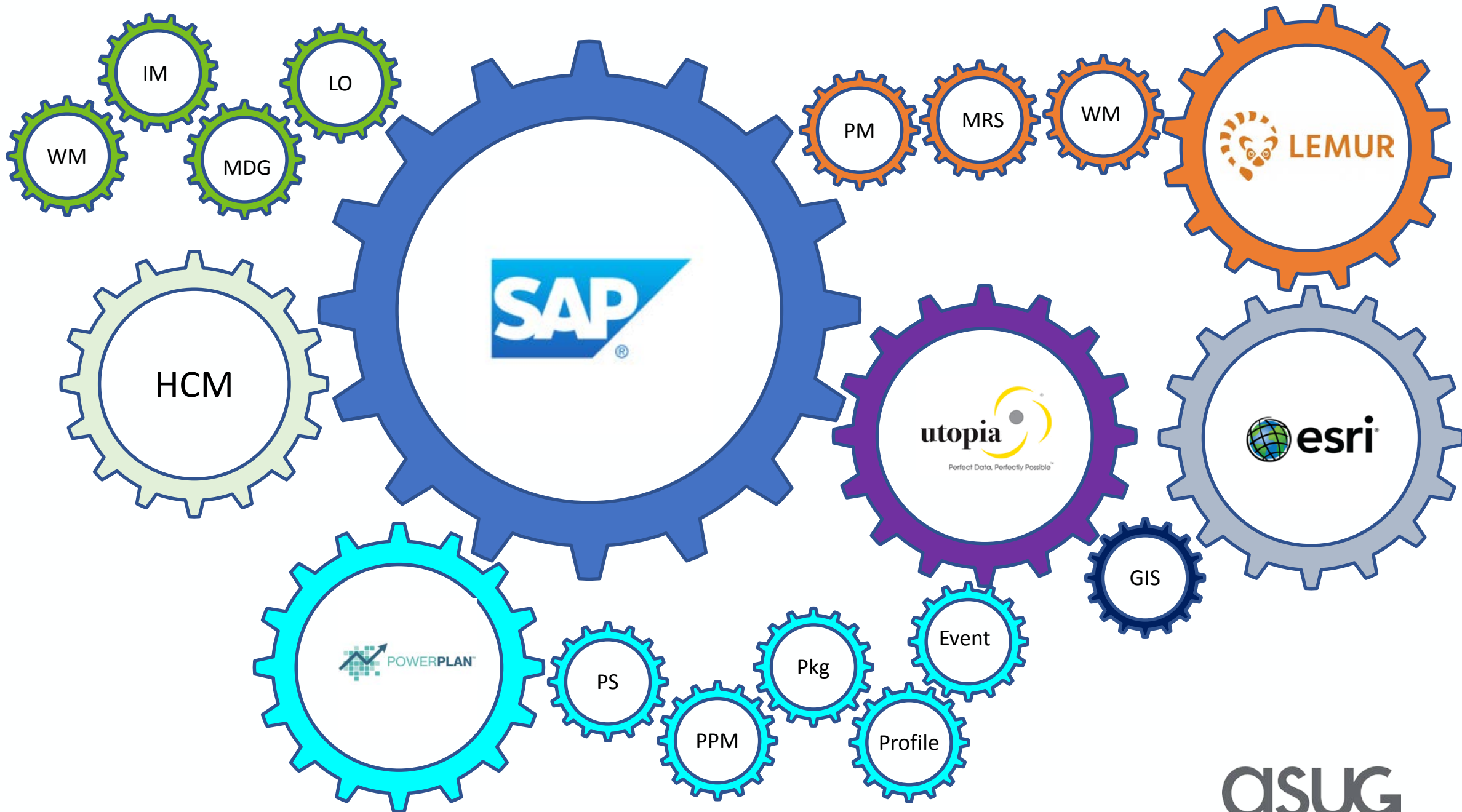
Settlement Rule

Projected Replacement by Asset



Projected City Replacement Financial Costs





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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:

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

Q&A

For questions after this session, contact us:

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