Francisco Urbina IBM Alliance Manager, Esri Australia



0 0









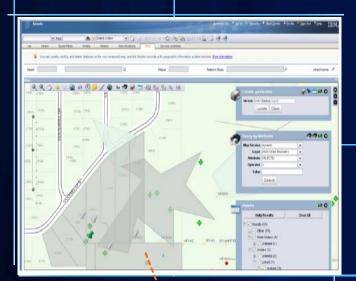




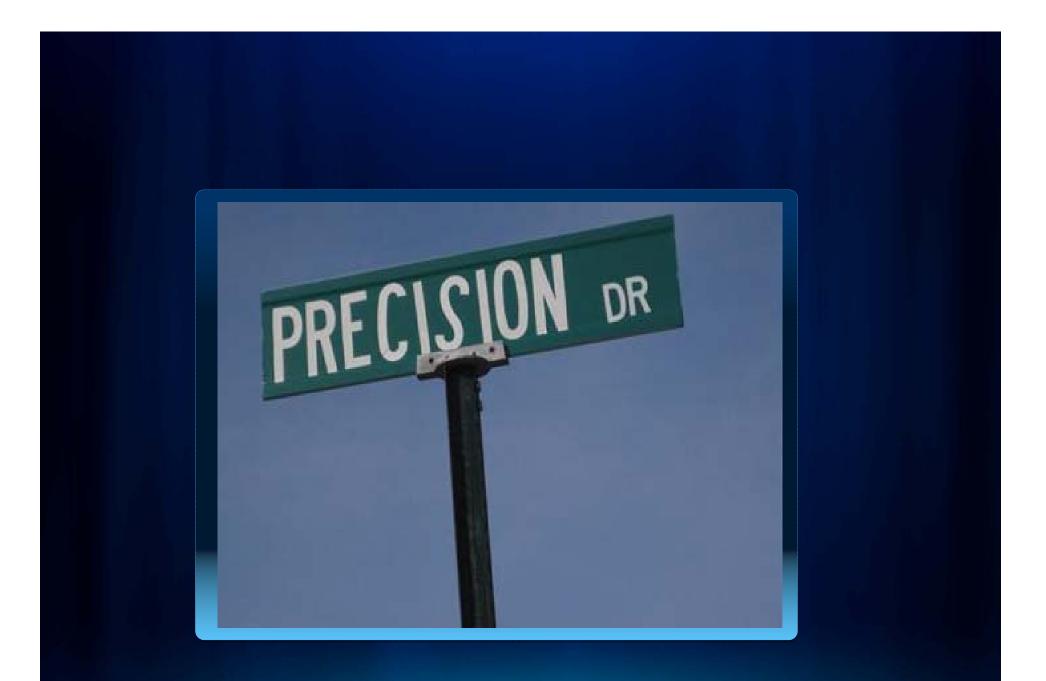




The Location of anything is becoming Everything...





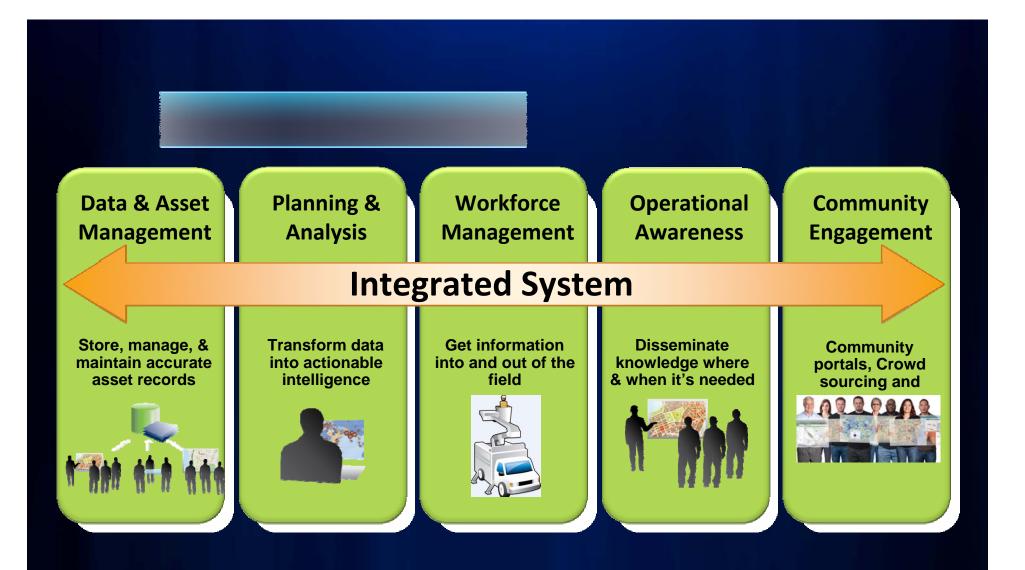




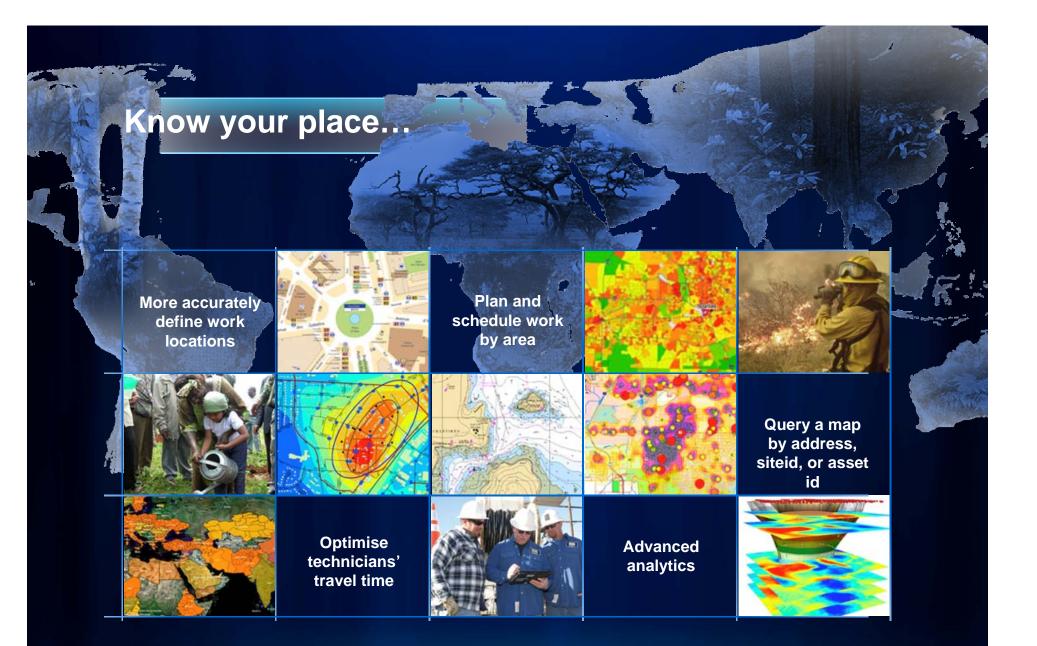














Integrated with other enterprise systems

- Enrich and improve workflows to increase organisational efficiency
- More than dots on a Map



Embedding geographic thinking into many aspects of an organisation.



Sinking Feeling





Complexity





Duplication





Over Engineered





Usability





Over Promised





System Fragility



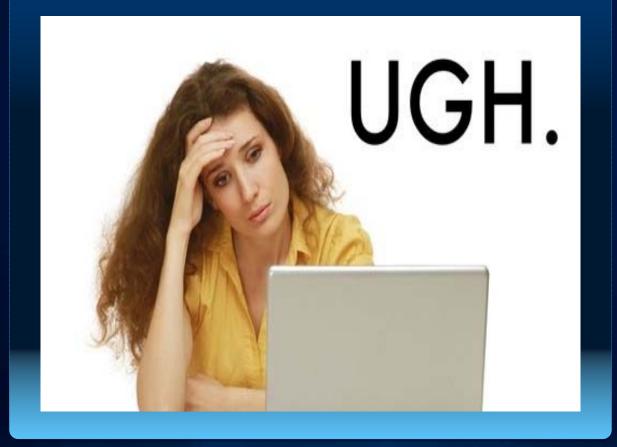


Lack of Agility

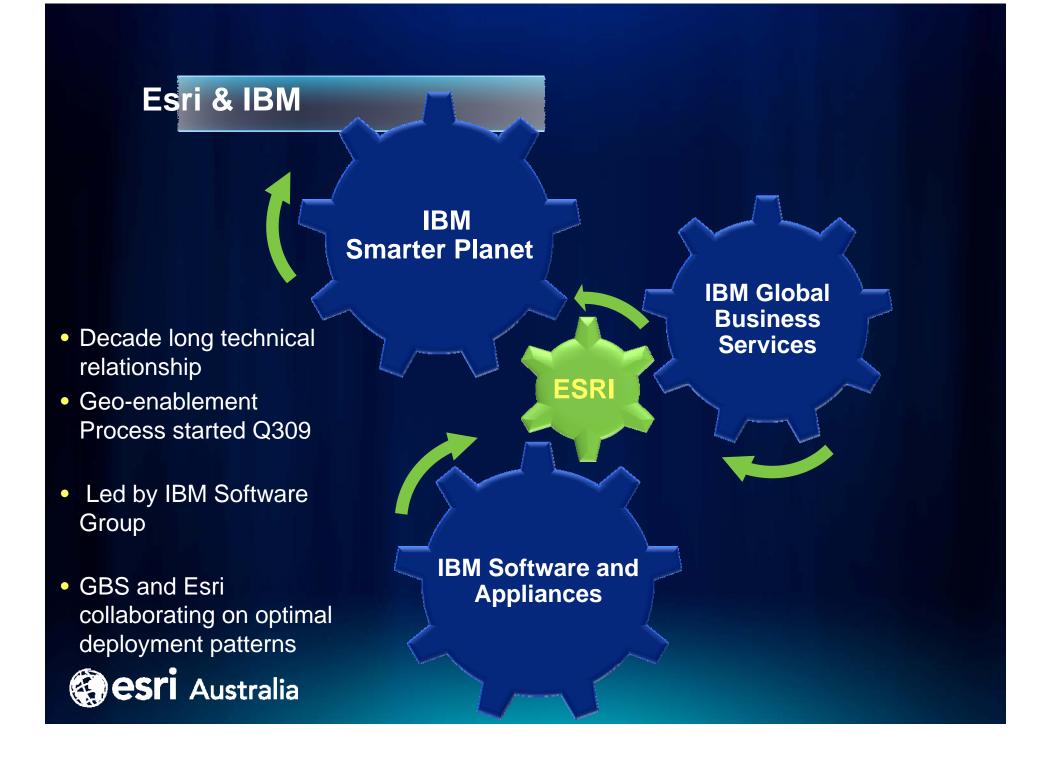




Frustration



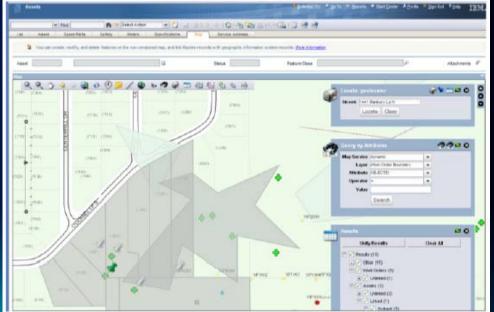






Maximo Spatial

- Components have been built by both IBM and Esri in partnership
- Allows geo-enabled processes to run within Maximo
- Seamless view of spatial data using a new Geo tab within Maximo GUI .
- Provision for two-way integration with external Professional Esri GIS





Geospatially Enable Asset Management

Benefits...



Cost savings through greater efficiency. Streamlining work and scheduling activities;



Better informed decision making. Knowing more about where assets are located spatially;



Enhanced communication and collaboration. Maps and visualisations created using GIS;



Creation of new business value. Through its support for new forms of data analysis



Single solution

Benefits...

Geospatial data allows Service Management users to,

easily and dynamically visualise spatial relationships between managed assets and roads, buildings, pipelines etc..

empowering levels of awareness and insight that tabular systems with dry numbers alone cannot provide



Less Truck Rolls – Increased Productivity & Work Accomplishment



Single solution

Benefits...



Real-time integration of IBM Maximo & Esri ArcGIS



Aligned technical vision

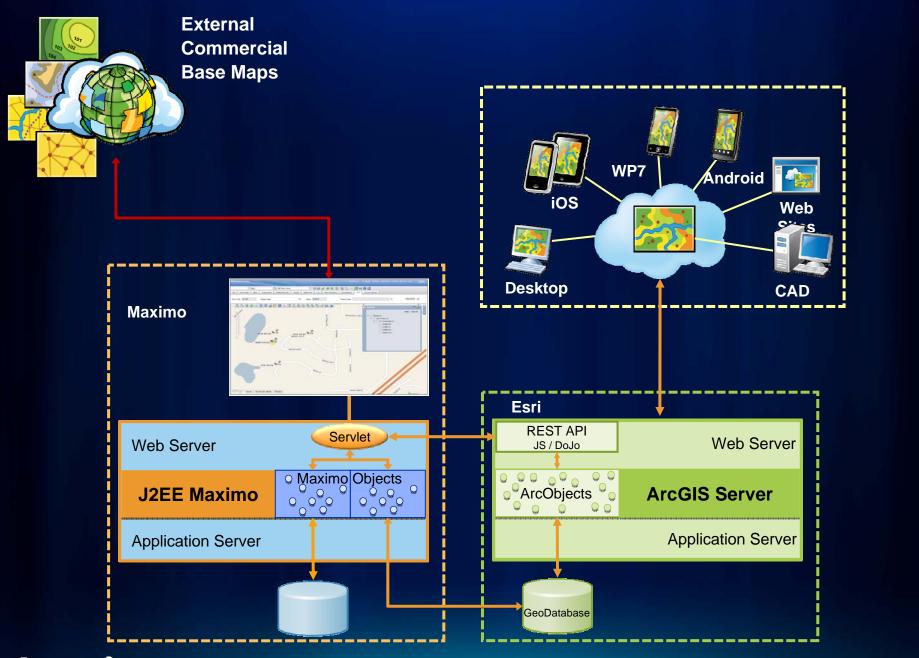


➡ Sales and implementation support



How Does It Work? Standard Architecture

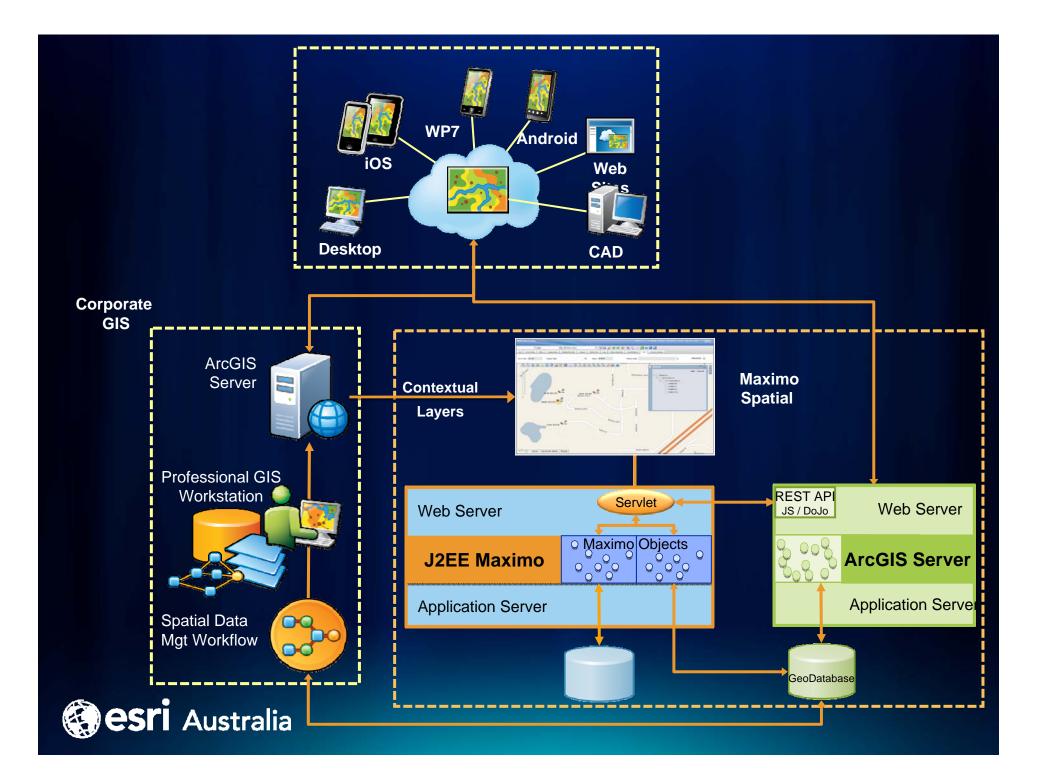






How Does It Work? High Availability Architecture







Goulburn Murray Water

Case Study



Goulburn-Murray Rural Water Corporation



- Manages water storage, delivery and drainage systems involving 70% of Victoria's stored water
- 50% of Victoria's underground water supplies
- Australia's largest irrigation delivery network
- G-MW's service region covers more than 68,000 square kms - that's about the same size as Tasmania.





Benefits of Project



- Common Maintenance Management and Asset Management Systems
- Integration with the GIS
- The ability to use the AMIS in the field
- Web based delivery model with full Active Directory integration.
- Cost saving related to migrating from Oracle to MS SQL Svr



Key Metrics



- Project was completed to schedule and within budget
- Functional Specification Achieved
 - Achieved 1334 of 1402 Requirements 95.15%



Variations



- Variation #1 –resignation of Assets team member who had been identified to assist in required additional external resources to assist in data conversion.
- Variation #2 –transfer of Eildon Houseboat Register from a spreadsheet to an application within the asset register.



Business Case



- Replace Assetlife with a like-for-like product
- Should have also aimed to expand asset management capability
 - modernisation of irrigation system and the fact that it is a critical business system



Areas of Complexity



- Number of Integration points
- Volumes of Information
- Changes to organisation and presentation of asset data



System Design



- Define business processes
- Security Groups
 - Be hard just because they want to have access to information and maps doesn't mean they should
 - Use Business case to structure decisions
- Reduce hierarchy for performance
 - Text Hierarchy vs Map visualisation



Key Lessons Learnt



Information Rich vs Knowledge Poor

- Get the owners of information involved to avoid redundant, irrelevant data in new system
- Cleanse before project



Lessons Learnt

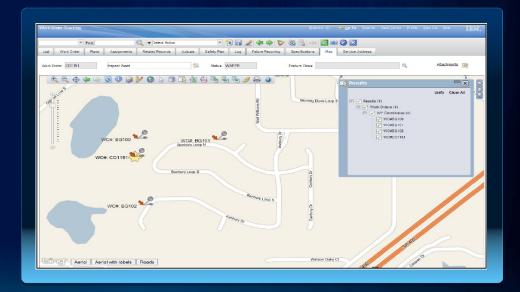






No Excuses – Place is in the DNA of Maximo

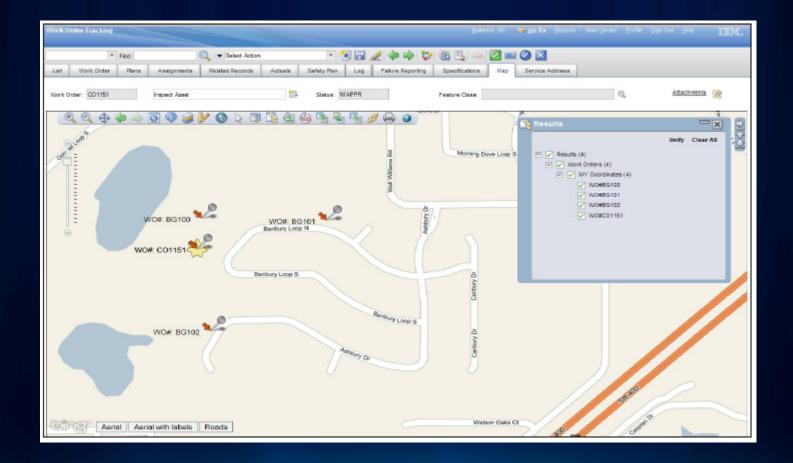
Top 5 Maximo Spatial 7.5 release





www.esriaustralia.com.au

Support for External Map Services





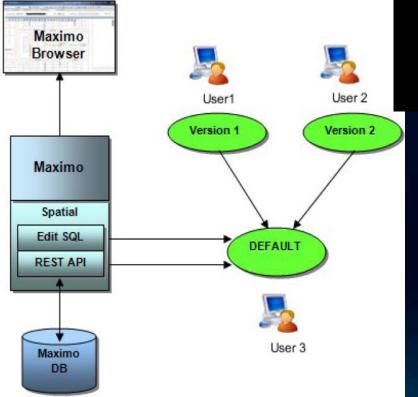
Map Tips Configured with more links

- Provides maximum access to Maximo data from the map
- Simple to configure and re-use Maximo objects
- Create more business value while using the map
- Challenges Hierarchy Data access

	Hydrant 10		-								
	OBJECTID	10	•			1.00M	Canadana Decila	ter Como des			
JE	MXCREATIONSTATE	Null			_	Asset A8011	Standard Deald	app computer	Status N	IOT READY	Site BEDF
-	DESCRIPTION	Null			E	pacifications	illiar >	-1-3 of 3			E) Downlo
	HYDRANTGUID	Null	12			Atribute	Description PROCESSOR SF	Data Type	Unit of Measure	Table Value	
-	MAXASSETNUM	Null			-	RANSIZE	MEMORY SIZE	PEED NUWERIC NUWERIC	GHZ NBYTE		
	MXSITEID	Null				DISKSIZE	DISK SIZE	NUMERIC	GOVTE		
	Shape	Point	~	8						Details	
	Add to Results			DI		Attribute	DISKSIZE	JISK SIZE	Alphanumeric Value		
				12		Data Type	NUMERIC		Numeric Value		
×	Learn more about thi	is feature				Unit of Measure	GBYTE		Table Value		
			1			Section			Inherited from		
	9	THE						1	oply Down Hierarchy?	N	
2	-07										

Version Editing

- New DEFAULT Multi-Version View from ESRI for IBM/Maximo
- Merges short and long transaction edits to DEFAULT version in geodatabase (current version performed edits to Base Tables
- Maximo user gets a consistent view of most current GIS and Maximo edits





New Key Columns Used for Linking

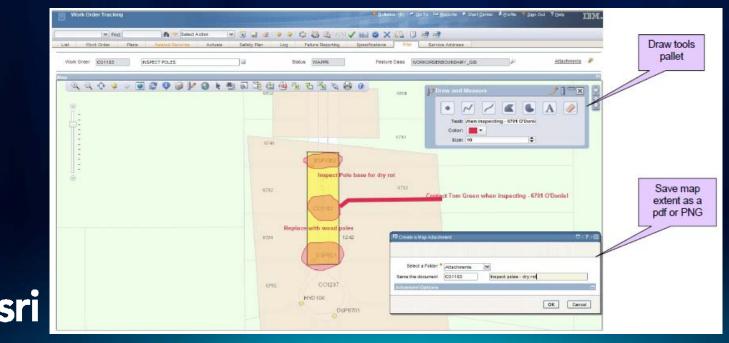
- Key columns now conform to Maximo's Standard of Site + ID eg...SiteID (BEDFORD) + AssetNUM (HYD1253)
- Enhances Maximo's control over GIS tables when registered

Hydrant Feature Class (Geodatabase)

ObjectID	MXAsset Num	MXSiteID	MXAssetUID						
100	HYD1253	BEDFORD	Existing field – keep if Joins required 15500						
Maximo Asset Table – Hydrant Asset									
AssetUID	PlussFeature Class	AssetNum	SiteID						
15500	HYDRANT	HYD1253	BEDFORD						
T Australia									

Draw Tools

- Redline tools ability to capture notations directly on map view
- End users can capture changes and save as a PDF which can be attached to the WO for future reference.





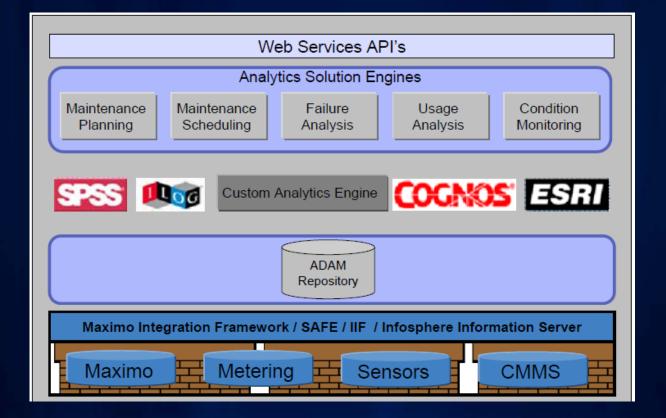
Business Benefit of Geo Enabled Business Process







DC Water Components

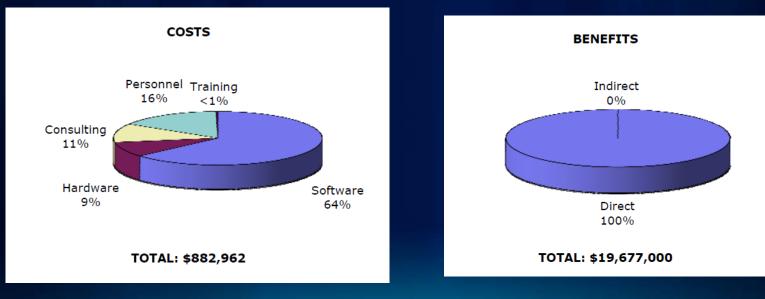






DC Water

- ROI: 629%
- Payback: 2 months
- Average annual benefit: \$6,559,000







DC Water

- Reduced labour costs
 - work assignments and truck rolls.
 - less reliant on contract workers and reduced the annual cost of these workers by \$1.8 million.
- Avoided call centre costs.
 - Despite growth in the levels of commercial and residential activity
 - Preventative maintenance and better incident management have reduced call volumes
 - Avoid adding five customer service representatives.





DC Water

- Reduced fuel costs.
 - By reducing the annual number of truck rolls completed,
 - reduced by 20 percent.
- Recaptured revenues by \$3.8 million in revenues.
 - Revenue loss from defective meters reduced
 - Billing of locations where there is unmetered water usage.



Summary



Top Seven...

- 1. GIS is now in the DNA of Maximo and asset management business process
- 2. Designed for non GIS users
- 3. Provides a Integration gateway to Maximo for Professional GIS
- 4. Increase Speed of Deployment
- 5. Greater Agility to meet changing business needs
- 6. Better Business Decisions
- 7. Reduced Costs and Higher Value



www.esriaustralia.com.au

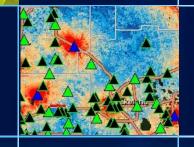
Questions...

Francisco Urbina furbina@esriaustralia.com.au



P

28.0





www.esriaustralia.com.au

