



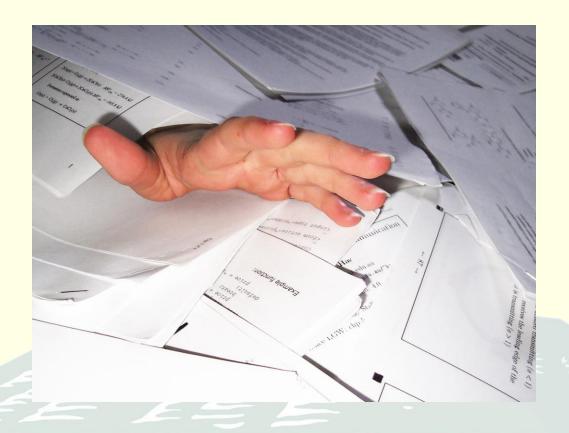


Is your road blocked trying to maintain your utilities?





 Are you buried in paperwork trying to get that information to your GIS?





It's time to break the chains and go digital





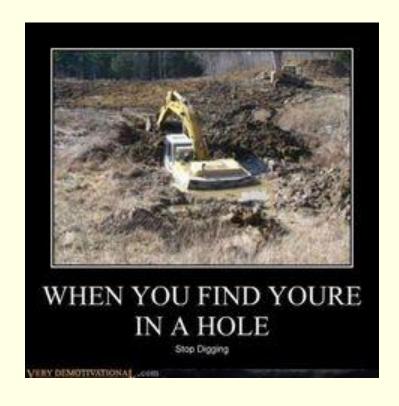
Goals

- Get more organized
- A solution to collect maintenance/inspections on our utilities
- Make it easier to get everyone on the same page
- Collect more data in the field while removing burden from office personnel





- Advantages to going digital
 - Data is loaded real time
 - Analysis can be done at anytime
 - No more waiting for data entry
 - Field workers can see where they've already been







- Advantages (Cont)
 - Managers can track progress
 - Lightens the load on GIS staff
 - Data entry improves
 - Ownership takes place
 - The crews working with the utilities every day have direct access to the data, see the mistakes and get them fixed







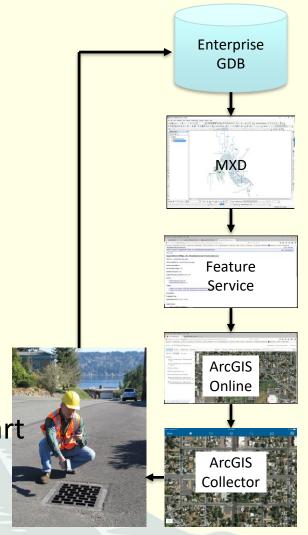
- What did we need to make it work?
 - ArcGIS for Desktop (We already had 3-Advanced & 4-Basic Licenses)
 - ArcGIS for Server (We already had)
 - ArcGIS Online Account (We already had)
 - ArcGIS Collector Licenses (We already had due to our desktop licenses)
 - Enterprise Geodatabase (We already had capability due to ArcGIS for Server – SQL Server Express)
 - Including creating Related Tables to track all the maintenance
 - The ability to collect data with forms for some data (Utilisync)



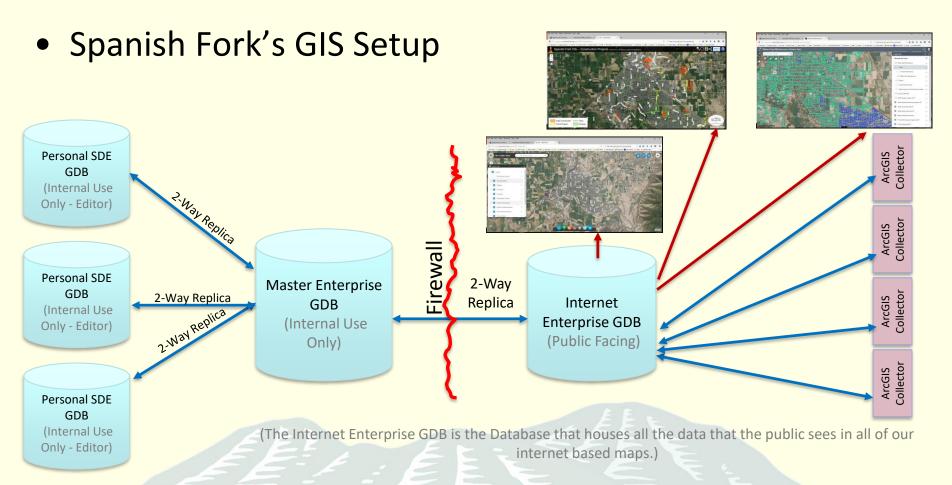


How is it done?

- Setup an Enterprise Geodatabase
- Create a map using data located out on the web
- Publish that map to the internet as a feature service
- Import that map to ArcGIS Online
- Make an ArcGIS Online Map
- Open that map in ArcGIS Collector & start collecting





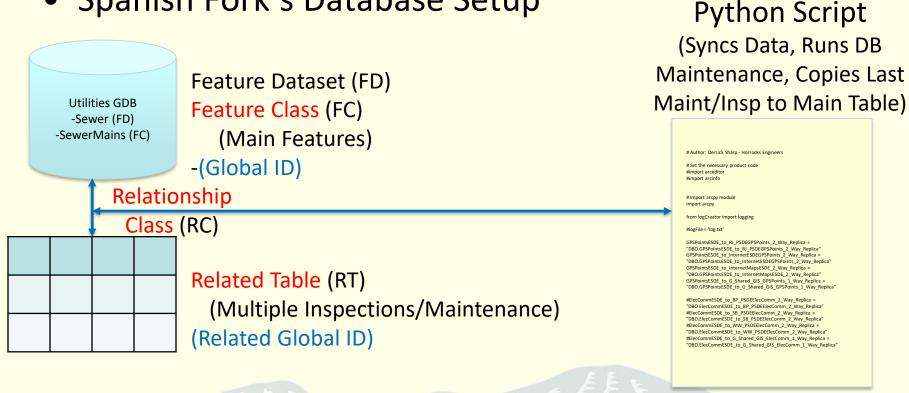


(It is also the dataset that our PW staff use to update maintenance)

Note: Because of our slow network we created everything as replicas. If you have a fast network you will be better off using versions



Spanish Fork's Database Setup



-The Feature Classes are tied to the Related Tables via a Relationship Class which ties the Global ID field on the Feature Class and the Related Global ID on the Related Table together in a 1 (FC) to Many (RT) Relationship. This allows inspectors or maintenance workers to do multiple inspections/maintenance activities on a single feature.

-Every night a Python Script is called from a .bat file which is called by a Windows Task Schedule which grabs the last inspection/maintenance that was done on that feature and puts it into the main FC table



What is Spanish Fork Doing With This?

Maintenance

Maintenance



Insp Tracking

Priority

Maintenance



- Field View Example: Sewer Maintenance
 - Live Demo (Collector)
- Manager View Example: Asphalt Maintenance
 - Live Demo (Web App)



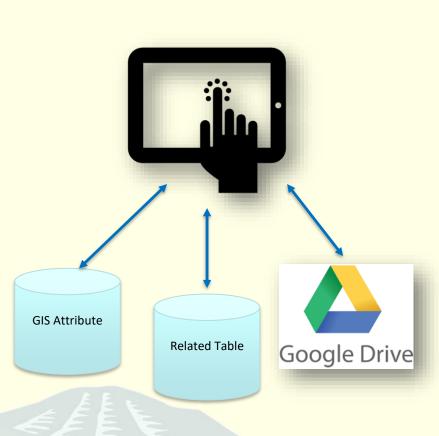


- When do we use Collector/UtiliSync?
- Collector
 - Anything that only requires attribute updates/new feature creation
- UtiliSync
 - Anything that requires forms/documentation



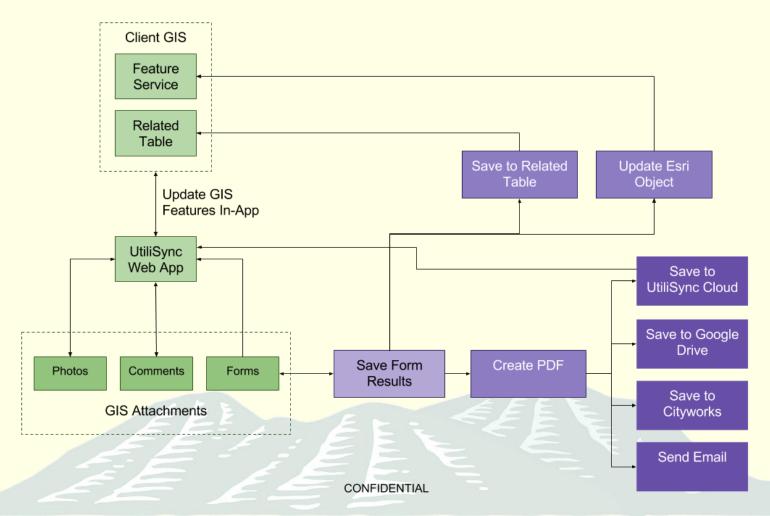


- Workflow With UtiliSync
 - User completes form in field
 - UtiliSync
 - Updates GIS Attributes
 - Saves data to related table
 - Saves forms to Google Drive





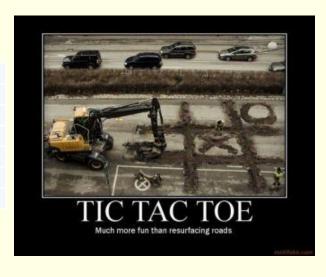
UtiliSync Architecture Diagram





- Example: Development Review
 - GIS Configuration
 - General/Contact Information

OBJECTID:	66
Project Name:	River Point Subdivision
Inspector:	Shawn Jones
Contractor:	Big D
Contractor Phone :	435-789-7894
Contractor Email:	joe@bigd.com
Impervious Area:	0.89





- Example: Development Review
 - GIS Configuration
 - Dates of Major Milestones

Preliminary Plat Approval Date:	1/16/2016
Final Plat Approval Date:	4/24/2016
Site Plan Approval Date:	5/25/2016
Pre-Construction Date:	9/13/2016
Underground Utilities Completion Date:	12/12/2016
Underground As-Builts Date:	2/4/2016
Streets Pre-Pave Date:	4/15/2017
Streets Completion Date:	5/15/2017
Electric Completion Date:	5/15/2017
As-Ruilts Completion Date:	

One Year Warranty Inspection Date:

Date Approved And Entered One Year Warranty:

Final Acceptance Date:

Final Walk-Through Date:





- Example: Development Review
 - Live Demo





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