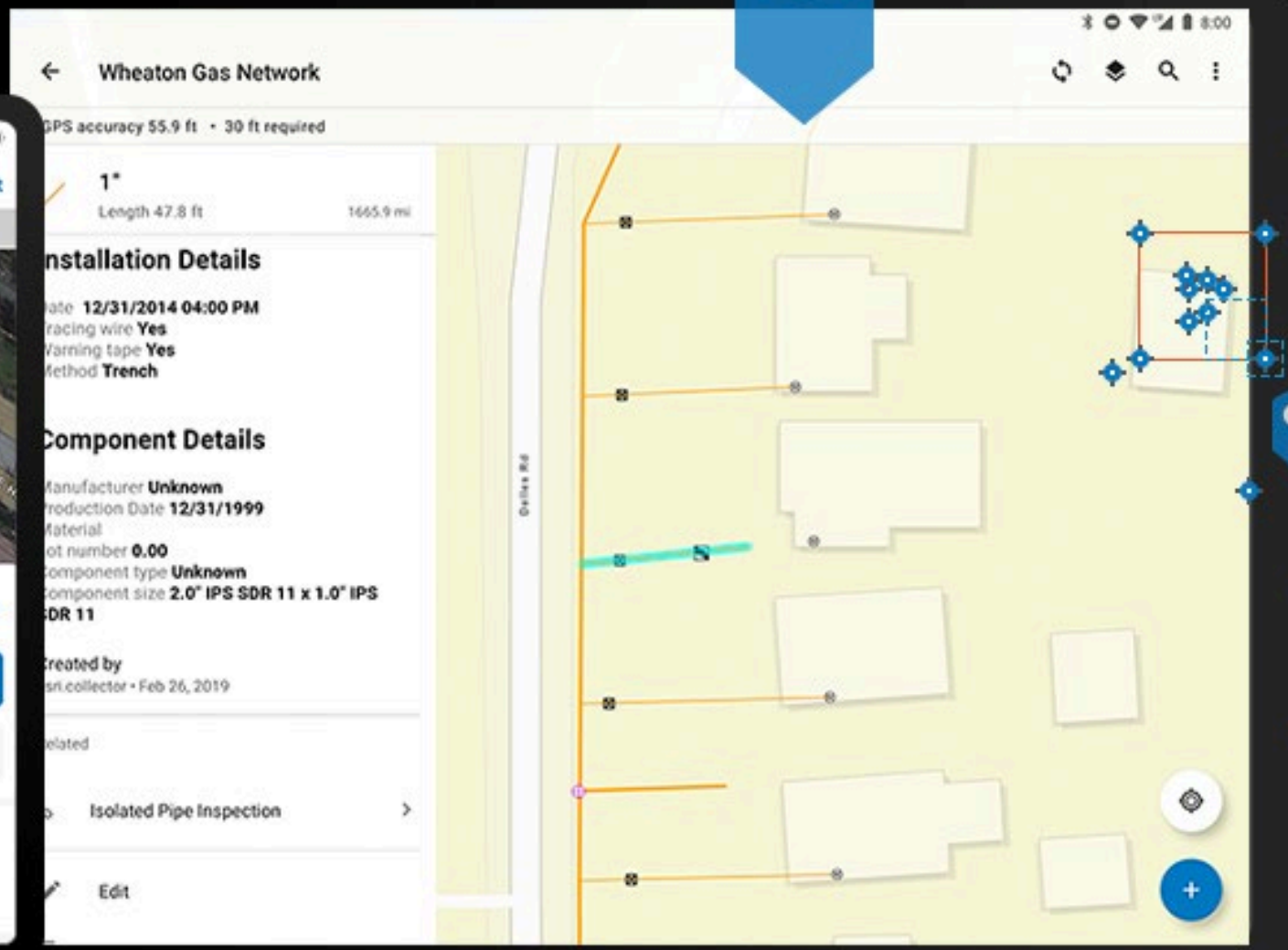
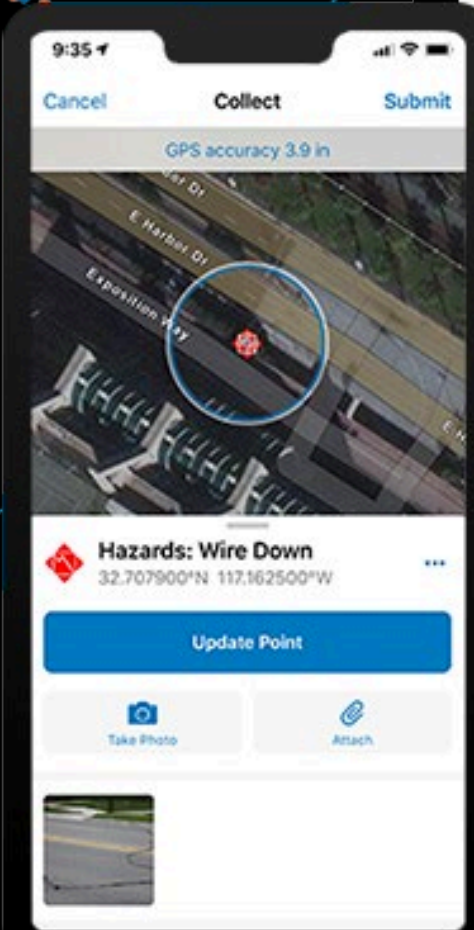


ENTERPRISE DATABASES

Automating Data for
Field Collection

OKSCAUG 2022

```
mirror_mod = modifier_ob.  
set mirror object to mirror_  
mirror_mod.mirror_object  
operation == "MIRROR_X":  
mirror_mod.use_x = True  
mirror_mod.use_y = False  
mirror_mod.use_z = False  
operation == "MIRROR_Y":  
mirror_mod.use_x = False  
mirror_mod.use_y = True  
mirror_mod.use_z = False  
operation == "MIRROR_Z":  
mirror_mod.use_x = False  
mirror_mod.use_y = False  
mirror_mod.use_z = True  
  
#selection at the end -add  
mirror_ob.select= 1  
modifier_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier_  
mirror_ob.select = 0  
= bpy.context.selected_obj  
data.objects[one.name].select  
  
print("please select exactly  
  
-- OPERATOR CLASSES ----  
  
types.Operator):  
X mirror to the selected  
object.mirror_mirror_x"  
mirror X"  
  
context):  
context.active_object is not
```



DATABASE TRIGGERS

A database trigger is procedural code that is automatically executed in response to certain events on a particular table in a database. All you need to know is a little SQL and be intimate with your data model and information flow.



Can be executed on following conditions:

Insert

Update

Delete

Outfall ID	D5OF74000-04113
Outfall Name	Demo
County	NASSAU
Latitude	30.59979
Longitude	-81.643904
Outfall Type	Pipe
Drainage Basin	Nassau River
Maintenance Yard	Jacksonville Operations
Date of Last Inspection	5/2/2022
Last Inspection Result	Outfall is functioning as designed

Create New Data

SQL Calculates Unique ID

Update Outfalls SET

```
FacilityId = 'D5OF'+ D5Outfalls.countycode + '-' +  
Format((NEXT Value for D5OFSequence), '00000') ;
```

Outfall ID	D5OF74000-04113
Outfall Name	Demo
County	NASSAU
Latitude	30.59979
Longitude	-81.643904
Outfall Type	Pipe
Drainage Basin	Nassau River
Maintenance Yard	Jacksonville Operations
Date of Last Inspection	5/2/2022
Last Inspection Result	Outfall is functioning as designed

Extract Data From Another Feature

SQL Get County from another Feature Class

```
UPDATE Outfalls
SET Outfalls.County = CountyBoundaries.Name
FROM Outfalls
INNER JOIN CountyBoundaries
ON Outfalls.shape.STWithin(CountyBoundaries.shape)
= 1;
```

Outfall ID	D5OF74000-04113
Outfall Name	Demo
County	NASSAU
Latitude	30.59979
Longitude	-81.643904
Outfall Type	Pipe
Drainage Basin	Nassau River
Maintenance Yard	Jacksonville Operations
Date of Last Inspection	5/2/2022
Last Inspection Result	Outfall is functioning as designed

Data From Existing Feature

SQL Get Latitude and Longitude of Object

```
UPDATE Outfalls SET Latitude = Shape.STY;
```

```
UPDATE Outfalls SET Longitude = Shape.STX;
```

Outfall ID	D5OF74000-04113
Outfall Name	Demo
County	NASSAU
Latitude	30.59979
Longitude	-81.643904
Outfall Type	Pipe
Drainage Basin	Nassau River
Maintenance Yard	Jacksonville Operations
Date of Last Inspection	5/2/2022
Last Inspection Result	Outfall is functioning as designed

Extract Data From Another Feature

SQL Get Drainage Basin from another Feature Class

```
UPDATE Outfalls
SET Outfalls.DrainageBasin =
Basins.DrainageBasin
FROM Outfalls
INNER JOIN Basins
ON Outfalls.shape.STWithin(Basins.shape) = 1;
```

Outfall ID	D5OF74000-04113
Outfall Name	Demo
County	NASSAU
Latitude	30.59979
Longitude	-81.643904
Outfall Type	Pipe
Drainage Basin	Nassau River
Maintenance Yard	Jacksonville Operations
Date of Last Inspection	5/2/2022
Last Inspection Result	Outfall is functioning as designed

Extract Data From Another Feature

SQL Get Maintenance Yard from another Feature Class

```
UPDATE Outfalls
SET Outfalls.MaintenanceYard =
MaintenanceDistricts.MaintenanceYard
FROM Outfalls
INNER JOIN MaintenanceDistricts
ON Outfalls.shape.STWithin(MaintenanceDistricts.shape) = 1;
```


Outfall ID	D5OF74000-04113
Outfall Name	Demo
County	NASSAU
Latitude	30.59979
Longitude	-81.643904
Outfall Type	Pipe
Drainage Basin	Nassau River
Maintenance Yard	Jacksonville Operations
Date of Last Inspection	5/2/2022
Last Inspection Result	Outfall is functioning as designed

Extract Data From Related Tables

SQL Get Last Inspection Date and Result from Related Inspection Table

```
UPDATE Outfalls SET
DateLastInspection = C.InspectionDate,
LastInspectionResult = C.InspectionResult
FROM Outfalls
INNER JOIN
(SELECT ParentGUID, FORMAT(InspectionDate,'d') AS
InspectionDate, InspectionResult FROM OutfallInspections A
INNER JOIN
(select distinct ParentGUID as GUID, max(InspectionDate) as
InspDate FROM OutfallInspections GROUP by ParentGUID) B
on A.parentguid = B.guid and A.InspectionDate =
B.Inspdate) C
ON Outfalls.GLOBALID = C.PARENTGUID;
```

Create New Data

SQL Calculate Hyperlink to Online Report

```
UPDATE Outfalls SET rptFacility = 'http://somereportserverurl  
/ReportServer/Pages/ReportViewer.aspx?/FolderName  
/ReportName&rs:Command=Render&GUID=' + cast(globalid  
as varchar(36));
```

Last Inspection Result

Outfall is functioning as designed

Comments

Demo

Facility Report

<http://.../ReportServer/Pages/ReportViewer.aspx?/FolderName/ReportName&rs:Command=Render&GUID=...>

QUESTIONS



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