



GeoEvent Processor for Water and Sewer Utilities

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Agenda

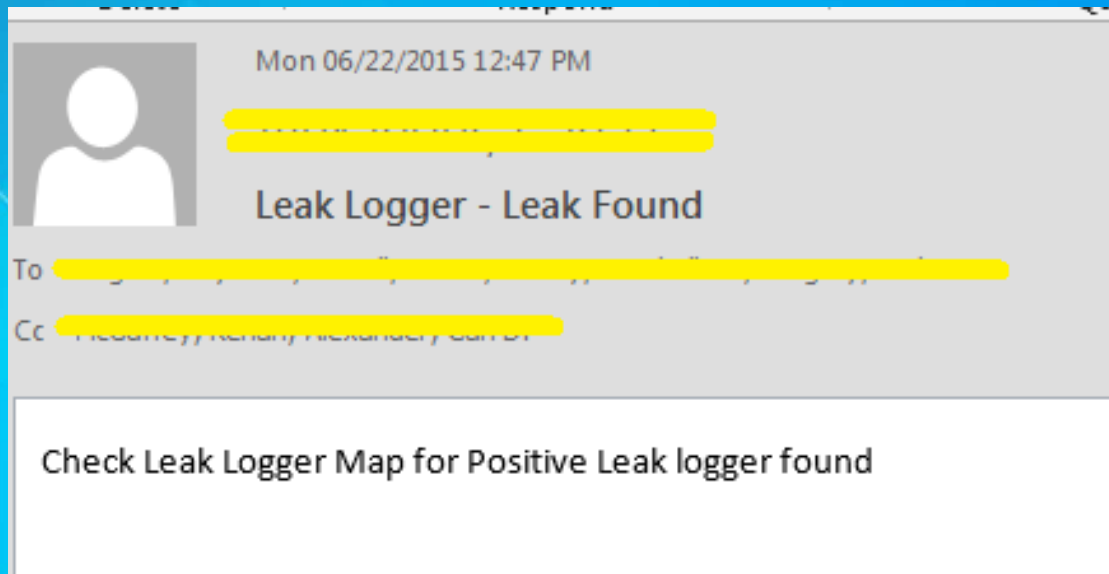
- **GEP History at WHUD**
- **GEP Examples**
 - **Notifications**
 - **Calculations**
 - **AVL**
 - **SCADA**
- **Value**
- **Future of GEP at WHUD**

GEP History at WHUD

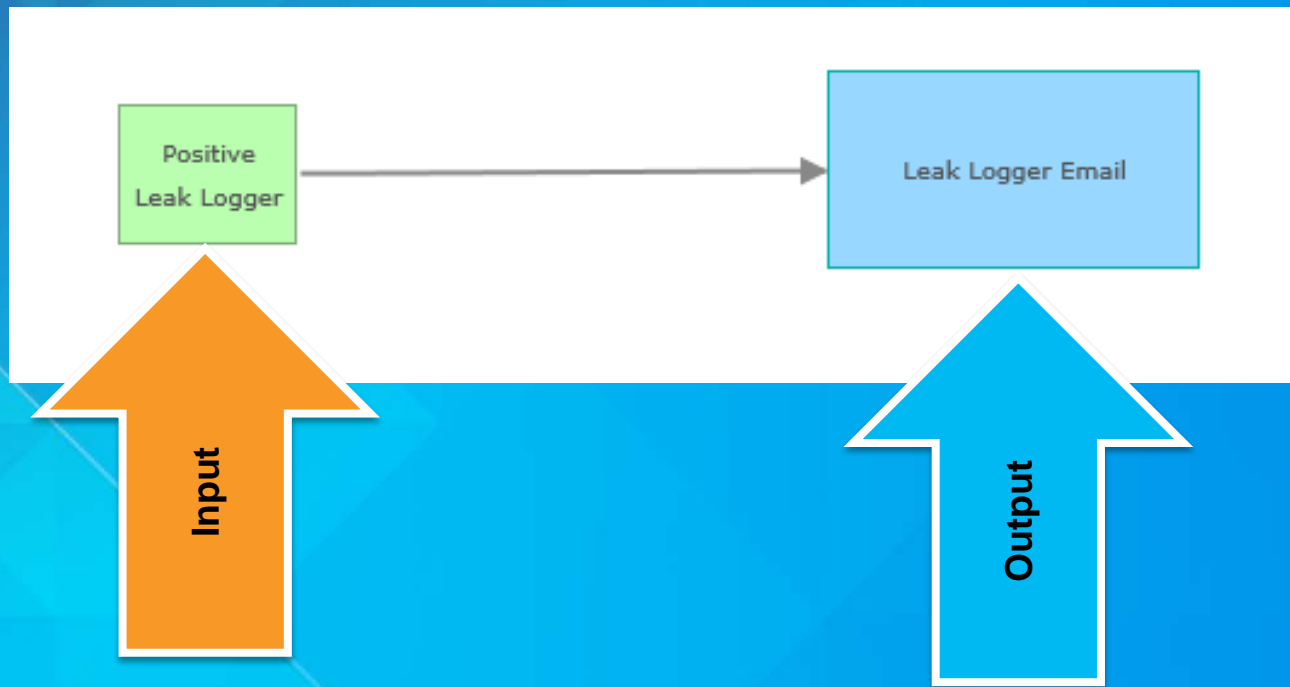
- Beta tested GEP in 2013 with AVL
- 8 Inputs / Connectors
 - NetworkFleet
 - SCADA / Receive From a TCP Socket
 - Watch a folder for CSV
 - Several Poll an ArcGIS Server for Features
- Over 20 outputs
 - Creating New Features
 - Updating Existing Features
 - Sending Emails

Leak Logger Notifications

- Staff Place and Read Leak Loggers Daily
- Update Point in Collector if Leak is found or not
- Email is sent to let managers and staff know of the finding and that further investigation is need



Leak Logger Notifications



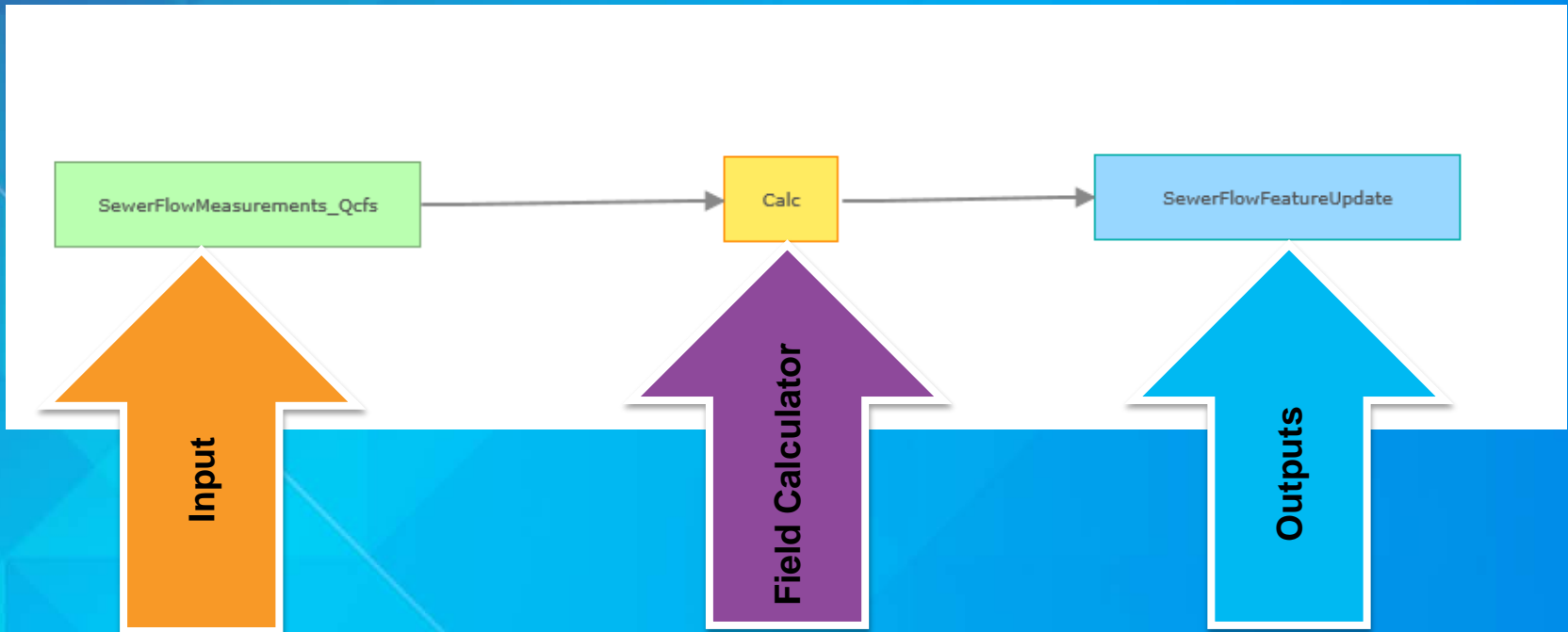
Leak Logger Notifications

Demonstration

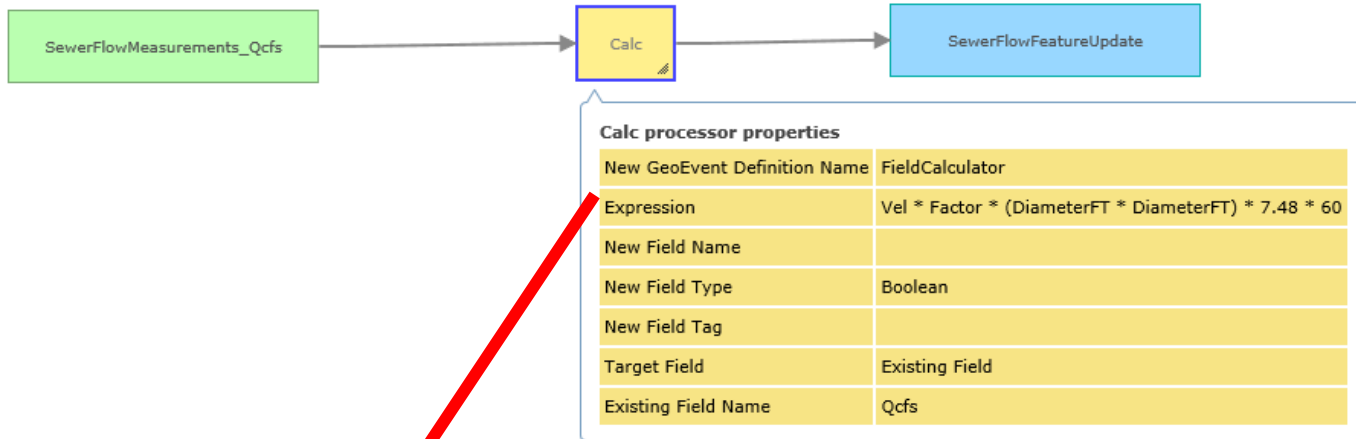
I & I Sewer loggers

- **Consultants use Collector to input information collected after large rain events**
- **GeoEvent Processor does the math to calculate the flow in GPM**
- **Data is now stored in GIS and staff can quickly see where issues are**

I & I Sewer loggers



I & I Sewer loggers



Vel * Factor * (DiameterFT * DiameterFT) * 7.48 * 60

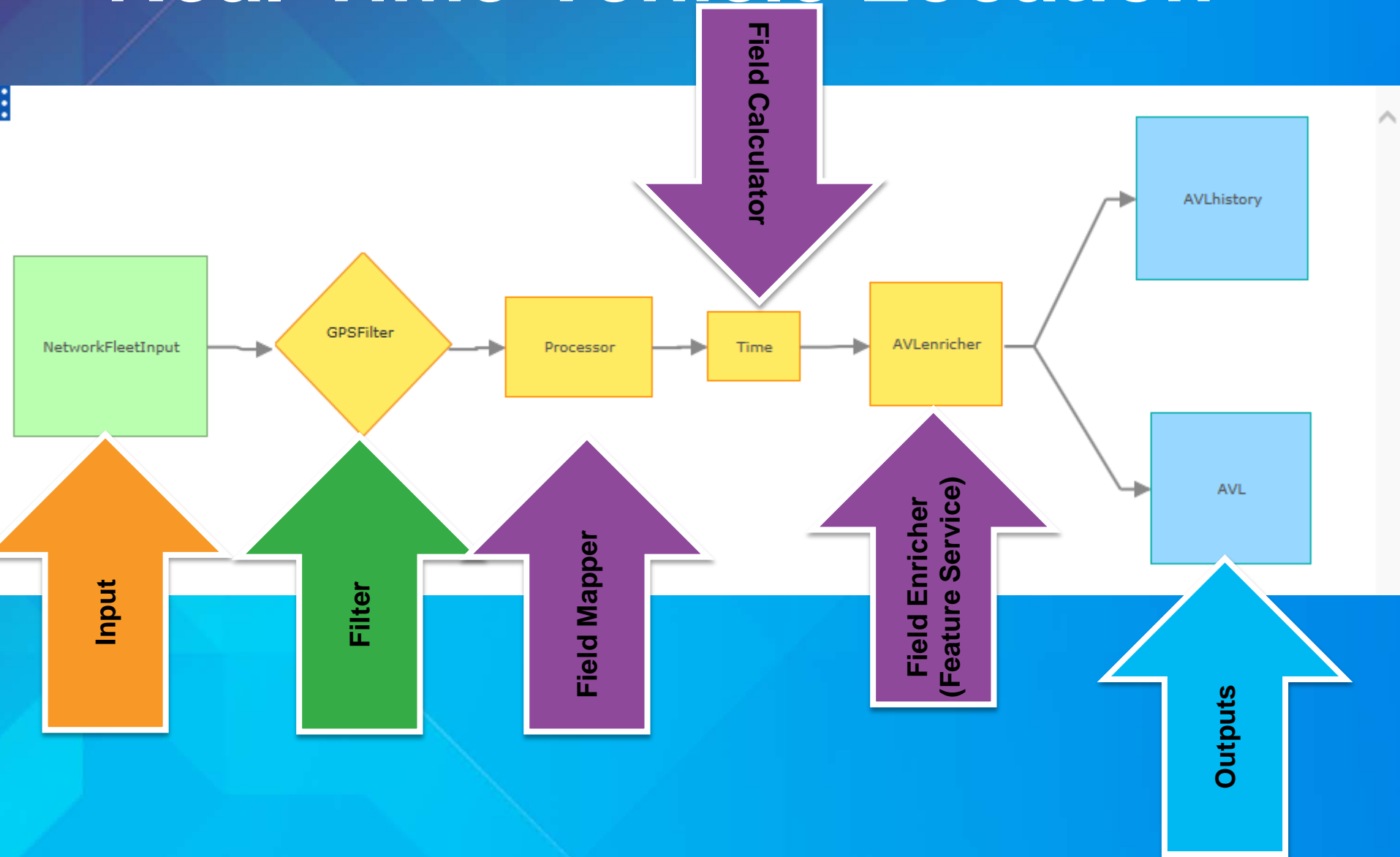
I & I Sewer loggers

Demonstration

Real-Time Vehicle Location

- **Piloted 3 different vendors in 2013**
- **Networkfleet in 50 vehicles**
- **2 - 1 minute report frequency depending on need**
- **1 Input and 2 Outputs**
 - **NetworkFleet has own Input**
 - **Current AVL Feature (Update a Feature Output)**
 - **Historical AVL Feature (Add a Feature Output)**
- **Vehicle Locations now accessed across the Platform**

Real-Time Vehicle Location



Real-Time Vehicle Location

Demonstration 1

Demonstration 2

Real-Time SCADA Data

- **Esri Workshop / Use GeoEvent Processor**
- **Application created that pulled data from SCADA and was easily inputted into GEP**
- **Phase 1 (Water and Remote Sites)**
 - **- 16 Water Tanks**
 - **- 17 Flow Meters**
 - **- 12 Pump Stations**
- **Current and Historical Feature in SDE**

Real-Time SCADA Data

Demonstration

GEP Value

- See quick value from notifications, calculations, updating features, and other simpler process
- Seeing Data in Real-time helps staff make better decisions on day to day operations
- Having GEP update features for historical purposes help in current issues and planning

Future

- **Water Loss**
- **More SCADA Information with Notifications**
- **Geofences with AVL**

Questions

