

ENTERPRISE GEOGRAPHIC INFORMATION SYSTEMS STEERING COMMITTEE
Monday, February 26, 2018
Administrative Services III, Room 101
10:30AM – 11:30 AM

1. Welcome and introductions

2. Action items:

Enterprise GIS – Utilities: Pilot project – Stormwater model

Suggested order of next Utilities systems for GIS model development (see Attachment A)

3. Review Fiscal Year 2017-2018 Enterprise GIS implementation projects based on goals:

Parcel data progress

Online Campus Map

Campus Existing Basemap CAD/GIS integration

4. Other Business

5. Next Meeting: August 2018

Attachment A

Written by: Joshua Knight, Senior Geospatial Consultant, eGIS Associates - February 16, 2018

Recommended order of Utilities integration into the Enterprise GIS

- 1) Stormwater – previously selected to be the first utility to be integrated, Stormwater had the highest “Feasibility” and “Priority” ranking in the Functional Requirements project. Pilot project in progress by ESP Associates has already resulted in a comprehensive GIS data model for all of campus.
- 2) Sanitary Sewer– ranked second highest in “Feasibility” and “Priority” scoring. Primary reason for integrating after Stormwater is the similarities between the two systems. Both have many of the same features, geometry, and reporting/permitting requirements. Lessons learned from Stormwater will logically carry over.
- 3) Water Distribution – “Feasibility” and “Priority” for this and following utilities are close enough to make recommendations discretionary. Selected third based on potentially critical infrastructure related to safety and opportunity to demonstrate how large amounts of tabular data not currently in an enterprise database, such as test data in spreadsheets, could be loaded into AIM and linked with the Enterprise GIS.
- 4) Chilled Water and Steam – recommended fourth based on potentially critical infrastructure related to safety; opportunity to explore integrating GIS and BIM (Building Information Management) technology to provide cutting edge facilities maintenance.
- 5) Electric Distribution – presents the most difficult integration project of all utilities reviewed due to native complexity. Recommended fifth based on the following considerations:
 - a. Centralizing spatial data and integrating into SCADA, Synergy, EDNA, etc., would provide a powerful tool for solving current issues and planning for the future.
 - b. Greater operational effectiveness through data visualization, integration into AIM, and improving efficiency of work crews and fields inspections.
 - c. May not be possible to determine a single system of record (Enterprise GIS or AutoCAD based maps). With proprietary systems that are critical to business functions, it’s possible a hybrid type design would work best.
- 6) Telecommunications - recommended sixth because of the department’s preference of managing spatial data with AutoCAD and no external enterprise data sources available. Consolidating AutoCAD drawings into a centralized environment with other utilities and linking to AIM would provide a common asset management tool. Adopting CAD Standards would allow data maintained by the department to be consumed into the Enterprise GIS and utilized by other departments.
- 7) Natural Gas - recommended seventh because a large portion of utility assets are owned by PSNC. However, there is important infrastructure related to safety and emergency response. Spreadsheets for tracking, maintenance, and inspections could be loaded into AIM and linked with the Enterprise GIS.