Minutes

ENTERPRISE GEOGRAPHIC INFORMATION SYSTEMS STEERING COMMITTEE
Friday, February 8, 2019
Administrative Services III, Room 101
3:00PM – 4:00PM

1. Welcome and introductions

Members present: Allen Boyette, Lisa Johnson, Doug Morton, Wade Davis, Andy Snead, Ken Kretchman *[attended for Dave Rainer],* Lauren Cook *[attended for Jeff Bandini]*. Hosts: Sally Rau, Andy Belcher, Dave Wynne. Guests: Heath Huovinen, Stan Martin, Tom Skolnicki.

S. Rau, Facilities Information Systems Manager, Office of the University Architect, opened the fifth meeting of this committee *[meeting previously scheduled for August 2018 was canceled].* Then the others introduced themselves.

2. Utilities Implementation:

Schedule

D. Wynne, GIS Project Manager, Office of the University Architect, began the presentation with a timeline and explained how the initial Functional Requirements project was important in determining the subsequent priority of utilities and the implementation schedule. There was a question and discussion as to whether Electrical should move up in priority ahead of Chilled Water and Steam. The current momentum of implementing water-based utilities is good because the Enterprise GIS will be helpful and have a positive impact on the actual operation of those systems, whereas the enterprise systems that operate Electrical will not be changing. System complexity is one reason why Electrical was scheduled after the water-based systems. There is an upcoming master planning project for Electrical which would likely require a more in-depth revision of its functional requirements relative to the Enterprise GIS, so everyone agreed to maintain the current priority and implementation schedule.

There was discussion highlighting that once a utility is converted from being managed in CAD to the Enterprise GIS, there remains a lot of work to do and it will take time to populate the data fields associated with each feature.

Stormwater status

A. Belcher, GIS Manager, Office of the University Architect, continued the presentation showing how members of the Stormwater Working Group are now collaborating to populate the data fields following the conclusion of the Enterprise GIS Stormwater Utility project. This process of forming a working group to populate and maintain the data following implementation will recur for each subsequent utility.

H. Huovinen, University Surveyor, Office of the University Architect, gave a demonstration of the Stormwater Data Viewer *[see a link to the browser-based application in the presentation].* This is a real-time, read-only data viewer that is accessible through desktop and mobile devices. The Enterprise GIS is now the system of record for Stormwater data. To make this data available for use by traditional CAD designers, it is converted back to CAD on a quarterly basis and included in the overall CAD utility map and retains the data fields from GIS. This will be the standard for subsequent utilities, also.

A. Belcher continued with statistics regarding the converted Stormwater data and highlighted that approximately 26% of the data fields have been populated to date.

FY 2018-2019 projects – Water Distribution and Sanitary Sewer

D. Wynne continued with a status update on these conversion projects currently underway. Water Distribution is currently under final review. Next steps are editor training and project close-out in March. Sanitary Sewer data design has been completed. Next steps include test migration in March, full migration in April, editor training and project close-out in May.

During the status update, the committee asked about access to the data and does it need to be restricted. This is to be determined on a case-by-case basis after each project completion. There are likely to be some restrictions on data access.

There was a question about seeing all the utilities in one place. The Redline utilities application allows a user to see all utilities in one place. All utilities will be added with interactive functionality to Redline Utilities as we progress through the implementation schedule.

The committee asked how the Stormwater Data Viewer is different from the data shown in Wake County GIS's iMaps application. The University's shares stormwater data with the City of Raleigh's stormwater department on an annual basis. The University's stormwater data model is structured with additional functionality to address specific internal business needs and processes.

There was an additional question about water distribution inside buildings. Current priorities for the Enterprise GIS have been utilities outside buildings. 3D utilities inside buildings gets into the integration of BIM technology. The University does not currently have the data to utilize this technology.

3. Developing Initiatives:

Parcel data progress to date

H. Huovinen continued the presentation with a summary of the parcel data within the Wolf Tracts application *[see presentation].* A statewide inventory of all properties is expected to continue through the end of calendar-year 2020.

A question was asked as to what kind of demographics will be associated with the map content. Any publicly available demographic data set can be intersected with the parcel data as needed.

Online Campus Map

A. Belcher continued the presentation and explained that the Online Campus Map, which is public-facing and linked from the University homepage, has moved fully to Enterprise GIS administration and is ready for further enhancements. Discussion included that data currently used in existing applications, such as the interactive Construction Zone Impacts map, is already available and could be incorporated into the Online Campus Map. OIT also wants to consume and use this data within the On Campus application and has been working with the Enterprise GIS group on this effort.

[Link to Construction Zone Impacts - http://go.ncsu.edu/constructionzoneimpacts]

A question was asked about consuming the data layers from the Online Campus Map into other applications. Data services found within the Online Campus Map are consumable via REST services directory.

Then there was a long, wide-ranging discussion that started with the possibility of using Enterprise GIS capabilities in a “virtual campus” type application where the user could keep touching and drilling down into the map to pull up current information. Is that where we’re heading? The technology is in place and operational, but the data is not. We are building the foundational data to get to that level. The priority to this point has been utilities outside and in-between the buildings. OIT is working on interior wayfinding within buildings. There are also security and public relations issues to consider. The Enterprise GIS is structured toward each group owning and maintaining their own data within the system. It was pointed out that populating the utility data fields that have already been converted and loaded to the Enterprise GIS may require consultant assistance to keep up. One person maintaining that data will be difficult to sustain. We now need to generate a vision statement of what comes next.

Planimetric mapping data update

Although time did not allow for review of this slide, the intended topics were covered in prior meeting discussion; development of CAD standards to facilitate a comprehensive and consistent CAD Campus Planimetric Map, integration of CAD Planimetric Map features with Enterprise GIS, and cross-platform data sharing between Enterprise GIS and existing Enterprise Asset Management Systems.

4. Other Business

5. Next Meeting: August 2019