Minutes

ENTERPRISE GEOGRAPHIC INFORMATION SYSTEMS STEERING COMMITTEE
Friday, March 10, 2017
Administrative Services III, Room 101
10:00AM – 11:00AM

1. Welcome and introductions
Present: Wade Davis, Jim Semple (for Dave Rainer), Lisa Johnson, Jeff Bandini, Andy Snead, Jack Colby, Sally Rau, Andy Belcher, Dave Wynne, Jenny Korreck

S. Rau started presentation and reviewed GIS goals:
> One master central source of data for use across university faculty, staff, students, and with outside agencies

> Allow multiple users to edit the same data sets concurrently

> Decrease duplication and foster communication

> Create lean, efficient business processes to enhance campus environment and culture

2. Review Action Items from previous meeting
S. Rau continued with presentation and reviewed action items:
> Send Committee Members Data Matrix, Presentation, and Video

> Add Lauren Joyner to working group

> Add Wade Davis, Director HR Systems, to Steering Committee

> Explore collaborative options with GIS Working Group, such as listserv, google group, forum, to share information with Steering Committee

> Begin projects
> [All of these action items have been completed]

3. Review of Project list for Fiscal Year 2016-2017
General projects:
> **Work on implementing Shibboleth**
A. Belcher presented on Shibboleth. Explained that Shibboleth is NC State's authentication protocol and the benefits of using it. Talked about the project currently in progress with ESP in regards to Shibboleth authentication and possible other options. Explained that we are currently able to put applications under Shibboleth and are working on passing attributes to the test application for use.
> **Continue to develop and enhance standards**
A. Belcher presented on standards that have been developed and are available for download on the GIS website (https://facilities.ofa.ncsu.edu/gis/). Project managers and vendors are encouraged to download and use the standards. Standards will be updated as needed per feedback. Standards

will also be evolving as industry and technology changes. Discussed $1.5 million LED project that is currently in design and that the standards are being used on that project. J. Colby asked do we know enough about what is needed for standards in regards to the LED lighting project. Concern is costs of having to survey all this data if it needs to be done more than once, and that efforts in the past have captured more data than realistically usable. Are we capturing everything we need so it only has to be done once? A. Belcher replied that standards are more about the framework of the data and how it is submitted. J. Colby also asked if the standards are clean enough to pass on to vendors. A. Belcher replied that they are. A. Belcher stated we have a new training server which will allow us to test the standards on new versions of the software and make sure they remain effective.

Parcel Fabric project:
> **Provide viewer of Parcel Fabric for Real Estate**
> **Work to collect additional Parcel data**

A. Belcher presented on Parcel Fabric viewer and stated a web based app has been created by Heath Huovinen, University Surveyor, and that Heath is currently collecting and verifying documents and adding it to parcels as he goes. L. Johnson asked if Real Estate is using the app yet. A. Belcher replied that it is still in beta. L. Johnson asked if we will we restrict who has access to the app. A. Belcher replied yes and we are planning to release the app when Heath is comfortable with the quality of the data. A. Belcher stated that Heath is considered the subject matter expert, he is a licensed surveyor, and that we are at the mercy of his workload as to how quickly this will include data statewide. L. Johnson stated that Heath is working with Jessie Askew [from Real Estate] to go statewide and suggests finishing Wake county first. L. Johnson stated her boss is very interested in statewide parcel data. J. Bandini stated that State Property Office has a GIS system and they have provided data and that it is not always correct. A. Belcher stated we are looking at the SPO map also. J. Bandini stated Jessie is working on verifying parcels across the state. They are not getting into foundation properties. L. Johnson stated she is interested in all properties NC State owns. A. Belcher stated that Heath plans to give data back to Wake County so they can update their data. J. Bandini suggested that Jessie be part of the GIS Technical Working Group. D. Wynne stated that she is listed as a guest for the next meeting.

Campus Map project:
> **Move to using Enterprise GIS data within current campus map**
> **Work with iTECs to transition to GIS group having more control of map**

A. Belcher presented on Campus Map project and stated that right now OUA has limited ownership and doesn't know the backend framework of Campus Map. ITECS maintains the backend and Campus Map is at the bottom of their pecking order. Hoping to move to full ownership in GIS not Google. L. Johnson stated that anyone can add labels to the Google map and we then have to work to remove the labels if they are incorrect. A. Snead asked if the differences between Google and GIS can be explained. A. Belcher explained the difference between Google Maps and GIS: Google Maps is more aligned as a general web browser based map with spatial intelligence simplified to the user. L. Johnson stated she understood this [new map based in our GIS] would still work like a Google map. S. Rau stated we are at the mercy of Google if they change something. W. Davis asked if we will still allow people to create layer points such as Housing or Campus Enterprises. A. Belcher responded yes, this new process should make it more flexible once it is established and a standard basemap has been chosen for other layers to be added. L. Johnson asked how long this will take. A. Belcher stated the concept will be this fiscal year and then we will be working on it next fiscal year. It will be moving toward vector tile mapping. L. Johnson stated maybe it is something Real Estate

could use on Centennial Campus. J. Bandini stated they are mostly interested in parcel data and not maintaining a lot of other layers for Centennial Campus. J. Colby asked if the data is on our server. A. Belcher replied that yes, it is on our servers and S. Rau added that it is secured. A. Belcher stated that in the future hoping to be able to pass certain attributes to specific people/groups via shibboleth such as students etc.

ADA project
> **This project will be determined by the ADA Funds Advisory Committee**

A. Belcher stated there was no new information since last Steering Committee meeting 9/9/2016. Update is still unknown and will be determined by ADA Funds Advisory Committee.

Utilities project:
> **Determine the utilities to be maintained in GIS**
>
> **Define update workflow and attributes**
>
> **Provide web map for users to view utilities in the field**

D. Wynne presented on the enterprise utility project and stated that ESP is the vendor leading the efforts and that 8 discovery workshops were held consisting of 29 NC State personnel, 9 departments, 3 divisions, and 6 vender led experts. The 8 workshops covered: Storm Water, Water Distribution, Chilled Water/Steam, Sanitary Sewer, Electrical, Telecommunications, Natural Gas, and one workshop dedicated to Asset ID numbers across all utilities. D. Wynne took us through the project overview slide detailing Planning, Workshops, Functional Requirements and Future. J. Colby that stated AssetWorks procured ISES [a facilities condition assessment database company] and is in the process of integrating ISES into AiM [the Facilities work order system]. J. Colby asked if the workshop groups are going to establish the attribute data. D. Wynne stated the workshop groups were to establish the functional requirements and to capture current work flows and key attributes. L. Johnson stated that the consultants led the workshops with their expertise. D. Wynne stated the first part of each workshop was capturing work flows and what people are currently using. Second part was a look at what commercial industry uses, what models and processes we could use, and ideas to move forward. D. Wynne stated we need to capture a lot of knowledge that people have in their heads. J. Semple discussed how important it is to know about shut off valves. S. Rau stated this utility project focuses on the exterior of buildings. There is a separate project going on with Allen Boyette for shut off valve locations in the interior of the building. D. Wynne stated there was a workshop on asset ID numbers. L. Johnson asked if they are in AiM. D. Wynne replied that some are in AiM and some are in spreadsheets. Vendor will come back with a suggested asset ID standard. Deliverables will list groups that can implement their recommended standard and the groups that may have to be exceptions. L. Johnson asked if end users will get all the reports or just the ones that are useful to them. D. Wynne stated that the stakeholders will get everything. S. Rau asked if it would also be useful if we take the initiative to give people what we also think they will need. L. Johnson asked if we need some people to set priorities from what comes from the user stories. A. Snead stated that the results of the user stories may have to be triaged. D. Wynne stated that the user stories are graphical one-pagers that will serve well as Executive level summaries of the Functional Requirements. S. Rau stated there will also be another steering committee meeting in September and the results/deliverables can be discussed then. L. Johnson asked do we need to meet with each group with key people to go over the recommendations from the consultants. D. Wynne stated that there is value in seeing all the groups responses to establish relationships, common interests, communication, and ideas. D. Wynne presented the Resource Balance slide, determining the most valuable items and the problem of resource allocation where

there are financial and human constraints. A. Belcher then demo'd the Redline Utilities app version 2 which showed GIS spatial data joined to AiM. The demo utilized a sample of approximately 20 generators that Andrew Futrell had attached object data to in CAD. This is the field that allowed A. Belcher and Mike Lytle to join AiM data to the spatial feature and view it through the app. L. Johnson asked how is grounds using this. A. Belcher replied that Steve Ratzlaff [from Grounds] and Jeanette Powell [from EH&S] are using the current Redline Utilities app. A. Belcher stated it is going as quick as resources allow us. AiM is already able to be leveraged with GIS and this demonstrated application functionality was doing some legwork outside of the scope of current project in response to what people expressed a need for and the conversations that were already occurring as a result of the workshops.

4. Other Business

S. Rau concluded the presentation and opened it up for any questions. J. Colby asked if there is additional money needed to be spent by year end, is there any discussion on how funding could help accelerate any of this. L. Johnson stated we are about a year away from when additional funding could be needed. J. Colby stated we have a ton of data being collected from students and temps [in the FCAP group for the Utilities Asset Inventory project] and that he has hesitated putting it in AiM because we did not know where it should reside. S. Rau stated that once we have the Functional Requirements completed, we will have more guidance as to what we need and where temps or students could be useful. L. Johnson asked if we could ask the consultant what they would recommend we invest money in to accelerate some of these tasks and where they see the most value. J. Colby stated that he's not comfortable with continuing with some of the data that interns had collected because assumptions were made at the start that may not be needed. A. Belcher stated that attributes will be looked at from the group level and will be in the next phase for the database development piece of the project. J. Colby stated he wants it application driven and what we are going to use everyday through this tool and not data overload; some people like data a lot, but how will they use it and maintain it. D. Wynne stated that leveraging the current work order process to keep the data fresh would be a key focus. D. Wynne emphasized that Mike Lytle had attended all of the workshops and had expressed that he felt current FCAP asset ID's could still be used going forward. D. Wynne stated we will have a much clearer picture once we receive functional requirements. Referring to the app demo, A. Belcher stated again this is just a handful of generators (approx. 20) that Andrew had already added object data to in CAD.

5. Next Meeting: September 2017