Data Life-Cycle Meeting Minutes 05/12/16

1 message

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Attendees: Dr. David Jeong, Dr. Kristen Cetin, Tuyen Le, Dr. Jennifer Shane, Thomas (Design Automation - MicroStation Support), Brad (Traffic and
Safety GIS Coordinator), Jim Galliart (Location and Environment - Design engineer/GIS Integrator), Lee (Construction - econstruction), Cedric
(Davenport Construction - Survey/Construction Inspection), Shawn (Maintenance GIS Coordinator), Chad (IT - Bentley Support)

Developing a guide to Data and Information Sharing Workflows

Five work tasks:
Task 1: Literature review - look at what is happening in the vertical infrastructure world - Information delivery manual (Process map / Exchange
environment) - Dr Cetin will take the lead on this task and see what we can learn from this area - a technical memorandum will be the deliverable.

Task 2: Identify business use case narratives and develop process maps - Dr Jeong and Dr Shane will take the lead on this area - Will be working
heavily with Iowa DOT in this area, as well as the software vendors (InfoTech, Bentley, etc.) - involve the people who create, process and consume the
data throughout the life-cycle - identity who creates the data, what data is created, what data is handed off, and what data is not through the life-cycle

Task 3: Identify data exchange requirement and develop data maps - continuation of task 2 - identify what certain data gets handed off, and what data
format data is needed in - what functions do the computer applications perform?

Task 4 and 5: Develop a guide and prepare final report – Dr. Jeong and Dr. Jahren will lead this - they will have several workshops with the DOT

Task 6 (outside the scope): DOT Implementation changes

Official project start is July 1st - but Tuyen has time now so can start. Will complete by the end of next year

Process Map:
Tasks to be performed, what order tasks occur, and who performs the task - HVAC / Structural engineer example - shows data transfer points between
different personnel in the project

ER table:
Maps the data tables, table fields, definitions, examples

Need to make sure we capture the current workflow processes and identify with the future processes should look like.

Vertical construction industry - Building Smart Alliance - a non-profit organization working to develop process manuals for data transfer (IDM - Information Delivery Manual), COBIE standard (what information must be gathered and delivered before construction is considered complete)

Construction expectations - would like to identity the data we need to capture, as well as identity the data we don't need to be capturing because it isn't being used. Would also like to identify potential software that will allow construction inspectors to update asset information, etc. Interest in tying payment to data collection.

Design expectations - getting out of the plan sheet mentality, migrating to a project corridor based delivery system at letting

Identify a list of tools the DOT are using, Identify stakeholders in each DOT office, establishing a data dictionary of terms, what specifications/bid items do we need to change?

Software Vendors:
InfoTech: field manager, doc express (temporary file storage), AASHTOware
ESRI: transportation solutions guys
Bentley: transportation solutions guys
Trimble / Topcon / Leica: on the construction side

Construction industry - what do they need, and what do we need from them? What vendors do we need to involve? Bigger and smaller contractors.
 Stringless pavement, stringless grading.

We have done one pilot project - Sac County - digital records
Also, doing paperless plan management

Shawn will work with the bureau directors to get a note out to all the office directors about the project and Identify stakeholders for each office to participate with us.

Action Items:
- Dr. Cetin will start with the lit review.
- Start with guardrail? (had a later request to start with signs?) Shawn will work to identify any data being collected currently, software being used, identify stake holders and report back to ISU team
- Shawn will email contact information for the team to Dr Jeong (below)
- Chad will set up a ProjectWise folder for the project rather than Dropbox
- Next meeting – maybe second week in June – proposed dates(works for most of the group): June 2nd all day open, June 8th (8-12 or 2pm), June 7 (11-12, 2-3), June 6th (10 – 3pm), June 9 (8 – 10, 1:30 – 3), June 21 (8-1)

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ISU Team
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*Tuyen Le ttle@iastate.edu – PhD Student
*Dr. Kristen Cetin kcetin@iastate.edu
*Dr. Jennifer Shane jsshane@iastate.edu
*Attended first team meeting