Opening Plenary – Geospatial Platform Empowering Workflows and System Integration

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From the session description ...

“The plenary shall discuss why system integration and solutions portfolio will be the dominating trend across the industry in the next five years”

... a perspective from the view of surveying and mapping professionals
1. Evolution toward solutions to address industry trends
2. The role of cloud computing in enabling field-to-office (F20) solutions
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Diversification into new technology ... enabling the offering of new services
We need to collectively move beyond point clouds to delivering answers ... providing more value to customers
Industry trends driving to solutions ... part II

Surveying and mapping professionals are *diversifying* their offering to include scanning, mobile mapping and airborne data capture.

Surveying and mapping professionals are increasingly involved in *domain-specific activities* that require specific workflows and solutions.
Diversification into new industries ... same technology as a solution enables expansion
Diversification into new industries ... solutions enable moving upstream or downstream
Diversification into new industries ... solutions will bring us to completely new customers
... and finally we need new solutions to bring other non-traditional professionals into “Geospatial”
Field to office (F20) via the cloud – enabling solutions for those of us in the field
F2O workflows via the cloud ... why?

- Collecting and moving data from F2O2C (field-to-office-to-customer aka “collection to answer”) more efficiently can improve business results for geospatial organizations (whether serving internal or external customers)
F2O workflows via the cloud ...

- Using the cloud for your F2O workflow can provide benefits in terms of productivity and quality of data. Getting data to cloud means:
  - Captured data can be auto-synced to the cloud for validation before the crew leaves the site
  - Once data is in the cloud it can easily flow via customized workflow rules – saving time and money
  - Standardized data models tailored to the vertical means captured data can be integrated into connected workflows of your customers
F2O workflows ... an example

- Large surveying company operating across North America – large number of crews spread across a large geography

- Goals for the on-going project:
  - **More consistency** in end-to-end workflows (many different crews, field gear and processes)
  - Higher field collection efficiency – **need to reduce downtime, rework and travel time**
  - **Reduction in field errors** through consistent standards and processes
  - **Connection** to back-end systems such as CAD, GIS, ERP
F2O workflows ... anticipated benefits

- Field testing is underway
  - **Templates mean data is collected more consistently** – reduction in field errors, re-work and project transportation costs
  - Auto-syncing project data between field and office means **data is pre-validated before crew leaves the site**
  - **Consistent data standards** means data can be standardized regardless of field gear, crew type or collection method
  - Using **cloud workflow engine means less lag time** in waiting for data to be processed into deliverables
  - Because data is in the cloud and in standard formats, it is **available for all parts of the organization** to incorporate into their system (CAD, GIS, ERP)
I’ll let you know how it turns out at Geospatial World Forum 2017 ... thank you