



Conference Room #3

10:00 am – 10:45am

GIS:

How to utilize and make it work for your campus.

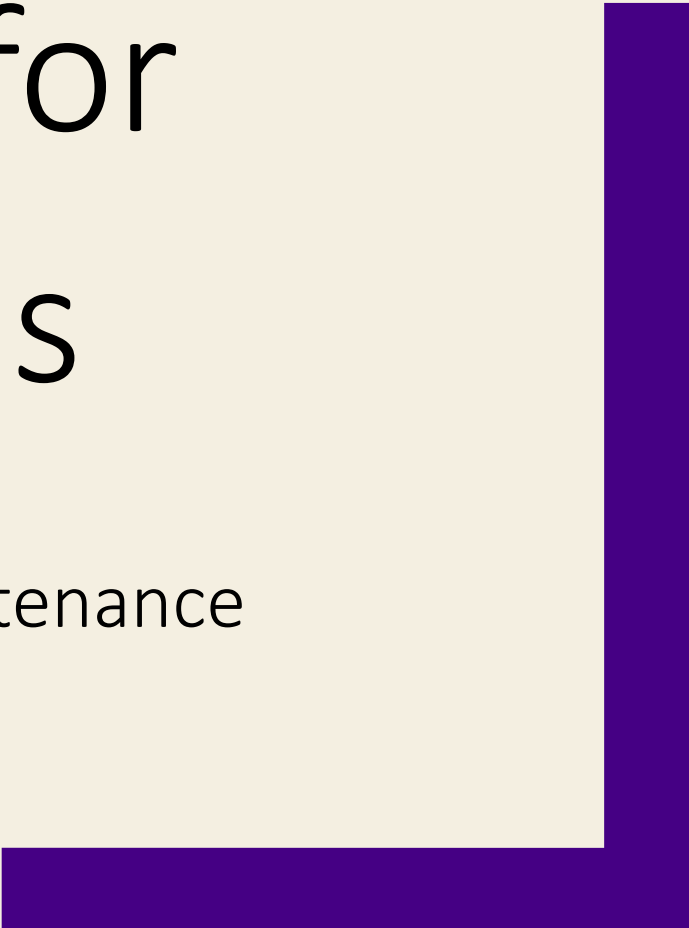


Building a GIS for JMU's Campus

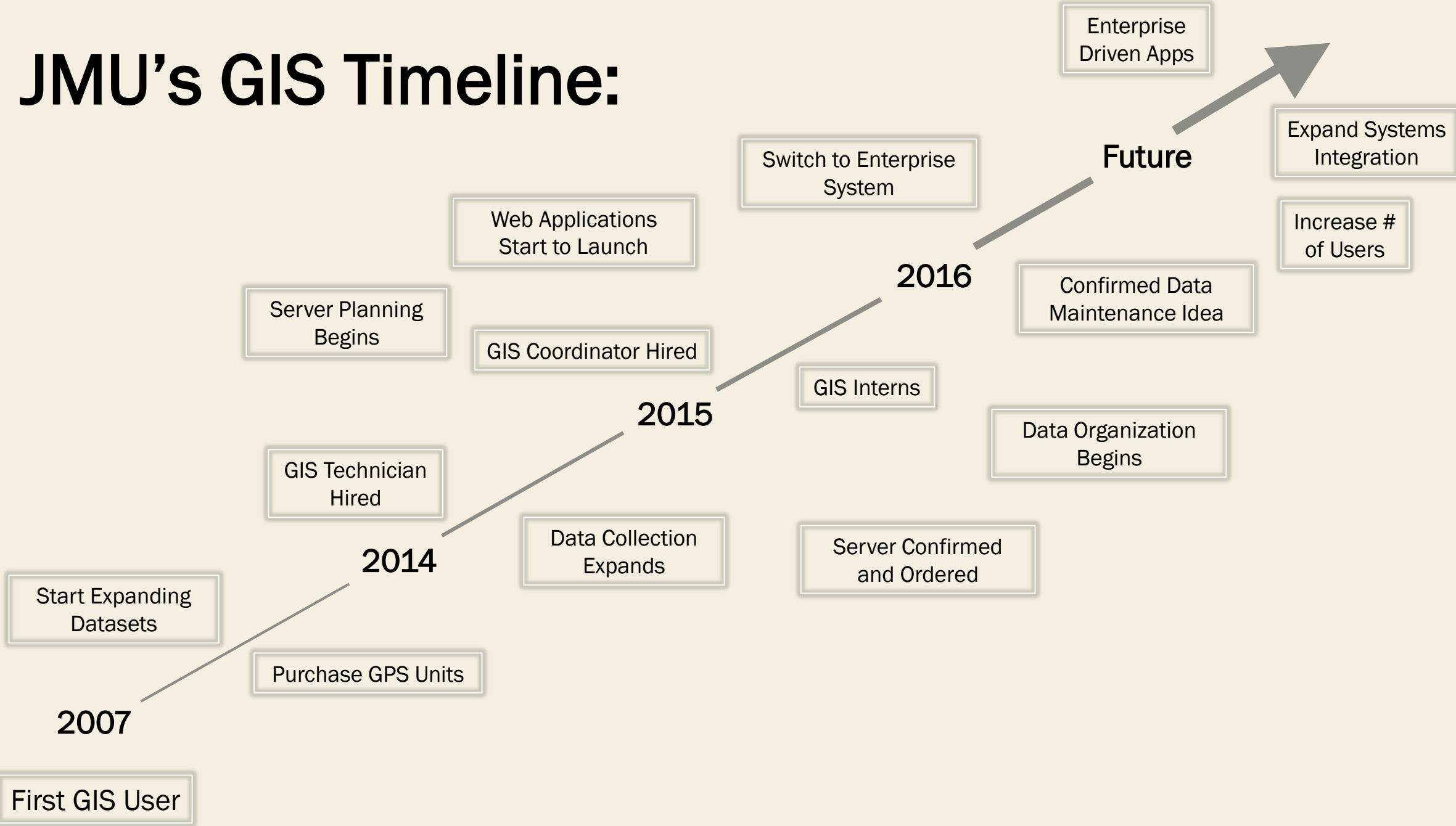
Planning, Development, and Maintenance

Brad Andrick

GIS Coordinator – JMU Facilities Engineering

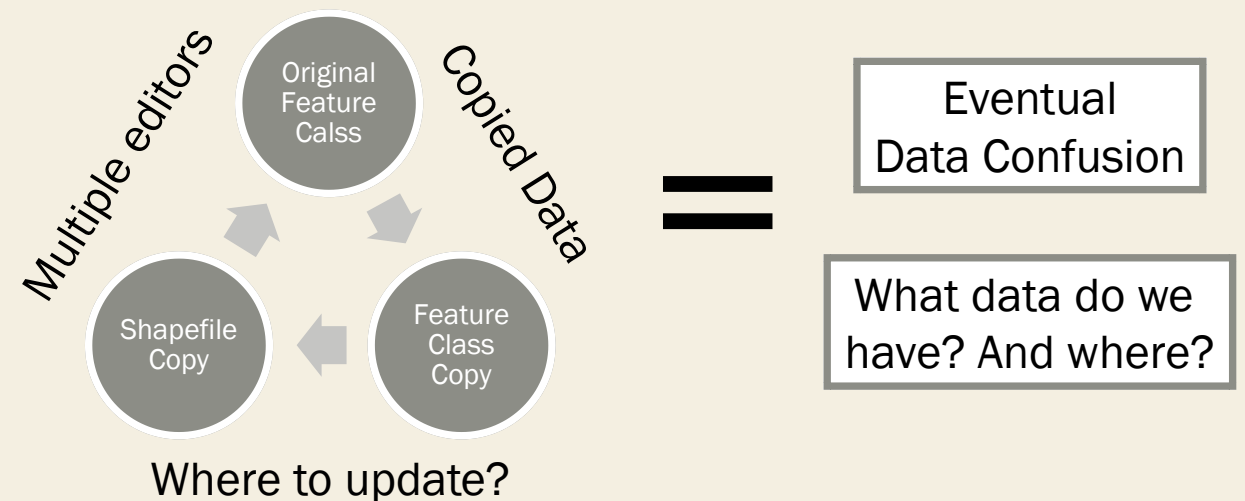


JMU's GIS Timeline:



Beginning Stage (2007 – 2014)

- Initial GPS data collected by a contractor in 2007
- First desktop user took over by the end of that year (Stormwater Coordinator)
- Primarily used for MS4 stormwater data
- Slowly expanded to track more utilities, boundaries and features
- Hired dedicated GIS position in 2014



Technical Stage (2014 - 2015)

- Need had grown to require a dedicated staff member
- Expected to
 - *Collect campus data*
 - *Create basic maps*
 - *Assist engineering staff with mapping requests*
- Quickly identified expanding role of GIS and it's capabilities
- Expansion planning began in early 2015



Evaluation/Design Stage (2015 – 2016)

- Started exploring where we would like our system to end up
 - *Decision to migrate to Enterprise*
 - Permanent GIS Coordinator Position Created
 - Server was spec'd out and equipment was ordered
 - First Web Applications
 - Data re-organization begins and planning for server migration gets underway
 - Maintenance strategy developed
- Continued to maintain previous role:
 - *MS4*
 - *Utilities*
 - *Map Requests*
 - Developed Internship positions for support

Deployment Stage (2016 - 2017)

**Current stage

- Finalize data structure and organization
- Install and setup ArcGIS for Server and Enterprise Geodatabase Configuration
- Start systematic update of all final datasets to get a baseline of maintained data
- Implement data update procedure for new construction
- Initiate expansion of GIS users

Future of JMU's Facilities GIS

- Sub-surface utilities collection
- Create commonly updated print maps for general infrastructure
- Expand Web Mapping Applications for use by Facilities Staff and/or general public
- Research GPS-to-Geodatabase data collection automation
- UAV (drone) quadcopter mapping updates for imagery mosaic
- Possible integration with additional JMU Building/Maintenance Systems
- Cloud resources and open data services portal

What are we doing differently?

- Slow start but rapid recent expansion – advantageous
- Increasing our web presence and dynamic mapping capabilities

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- Student volunteers and Internships
 - Working with classroom projects
 - UAV mapping
 - Mobile phone data collection
 - ArcGIS Online Web apps



ArcGIS Online



Questions?

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