Managing an Enterprise GIS Project: Key Things You Need Right from the Start

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ArcGIS Supports the Enterprise

Making mapping and GIS available across your organization
WHO are the USERS

Its all about business objectives
THE most important part of a project

Managing an Enterprise GIS Project: Key things to know from the start

- Model business workflow
- Move from general to specific
- WHAT not HOW
- Not a long list….
- Provide Traceability

Best Practices for Collecting User Requirements
Thursday 10:15-11:30
Room 5B

Requirements, Requirements
Use COTS as Much as Possible

Reduce risk, accelerate deployment

Configure Apps → Deploy → Custom
Use an Iterative Methodology

Iterative and incremental method for your projects

Envision

Plan & Requirements

Test / Feedback

Design

Configure / Code

Iteration 1

Iteration 2

Iteration 3

Next?

Next?

Done

Each iteration should result in customer feedback

Managing an Enterprise GIS Project: Key things to know from the start
Design Components Together

Databases, application, infrastructure, governance
Enterprise Systems Require Prototyping

Identify key components that are failure points or non-traditional

Prototype → Prove → Implement → Review

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Stay Focused on What is Important

Why do you need it...
What business value does it bring…
Get the right people at the table

- Key business users/end users
- IT staff
- Your champion
- Database architect
- Systems Architect

……early
Change

It will happen…plan for it
Impact on scope, schedule and budget

New Team Lead

Need a Mobile App as well

Different icons

Add these fields

That's not our workflow!

Organizational Change

Staff Resistant to change

Green vs Red

Move to new OS

New Release date

Update the data daily rather than monthly

New database design

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What is your Planning and Communication Strategy

Timely, clear, complete
1. Who are the users
2. Requirements, requirements, requirements
3. Use COTS as much as possible
4. Use an iterative methodology
5. Design components together
6. Enterprise systems require prototyping
7. Stay focused on what is important
8. Get the right people engaged
9. Manage Change
10. Planning and Communication Strategy
• **ESRI project methodology**
  - http://www.esri.com/services/professional-services/methodology

• **Business case resources**
  - *The Business Benefits of GIS: an ROI Approach*—Outlines case studies and general methodology for doing cost-benefit analysis
  - *Thinking About GIS*—Roger Tomlinson
  - esri.com/getting-started/executives/

• **Project Management Body of Knowledge (PMBOK)**
  - pmi.org
- **Software Requirements (2nd Edition)** by Karl Wiegers, Microsoft Press, 2003
- **Agile and Iterative Development: A Managers Guide** by Craig Larman, 2004
- **The One-Page Project Manager: Communicate and Manage Any Project With a Single Sheet of Paper** by Clark A Campbell, 2006
- **Agile Development with ICONIX Process** by Doug Rosenberg, Matt Stephens, and Mark Collins, Apress, 2005
  - iconixsw.com
- **Software Project Survival Guide** by Steve McConnell, Microsoft Press, 1997
- **Writing Effective Use Cases** by Alistair Cockburn, Addison-Wesley, 2001
Thank you…

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