

Federal GIS Conference

February 9–10, 2015 | Washington, DC

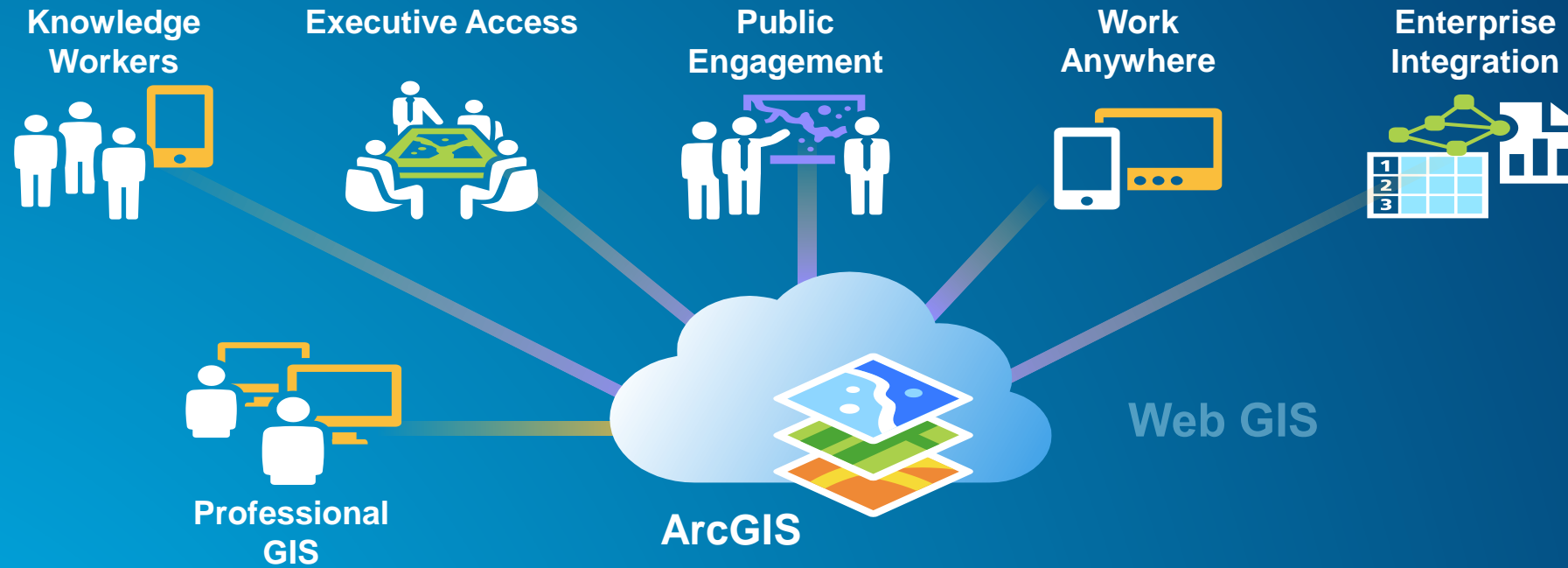


Managing an Enterprise GIS Project: Key Things You Need Right from the Start

Gerry Clancy

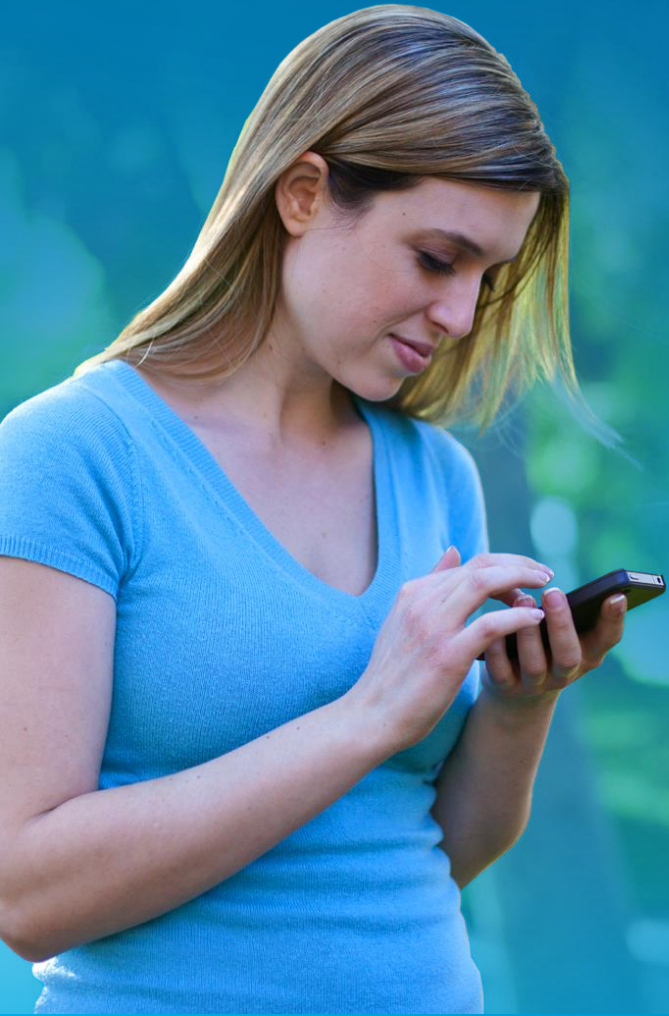
Glenn Berger

Tracy Toutant, National Geospatial-Intelligence Agency



ArcGIS Supports the Enterprise

Making mapping and GIS available across your organization



Create a Service

Tell a Story



Publish a Web Map



View Asset Information



Executive Dashboard

1

WHO are the USERS

Its all about business objectives



2

Use COTS as Much as Possible

Reduce risk, accelerate deployment



NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
Know the Earth... Show the Way... Understand the World

Enabling Mission Partners

– a success story

Tracy Toutant





The Self-Service GEOINT Initiative

- Enable advanced analysis
- Transcend organizations and hierarchy
- Create a user community
- Provide tec



Drop by drop fills the river...

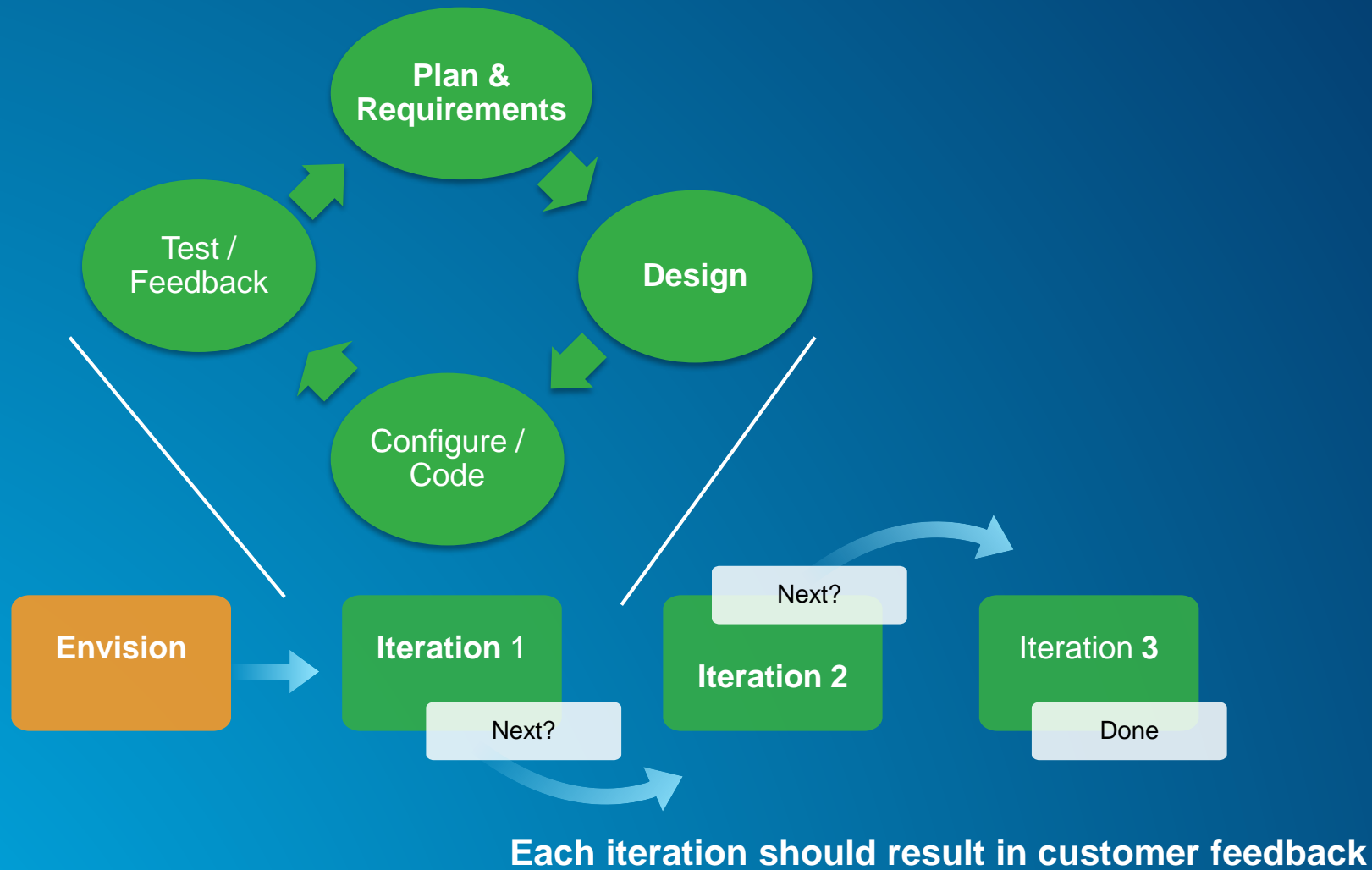


The Self-Service GEOINT Initiative

- Tool Development
 - Support and automate complex workflows
 - Toolbars and scripts to simplify steps
 - Enable sharing of workflows
 - Promote server geoprocessing

A journey of a thousand miles begins with a single step...

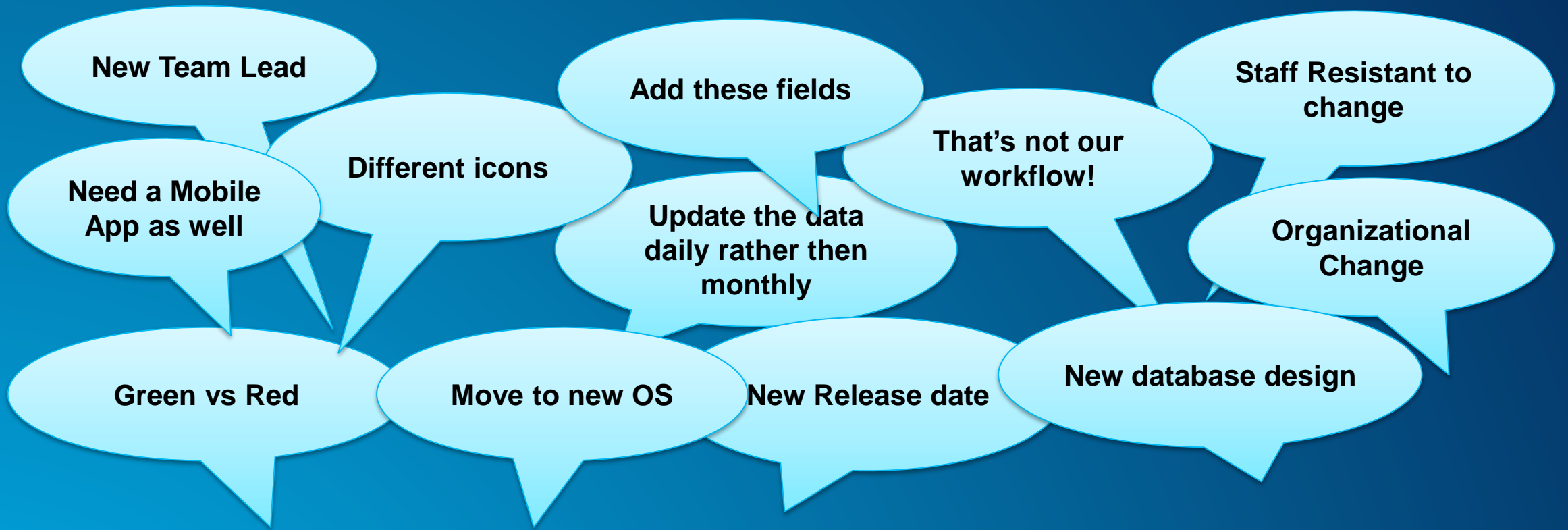
- Model business workflow
- Move from general to specific
- WHAT not HOW
- Not a long list....
- Provide Traceability



4

Use an Iterative Methodology

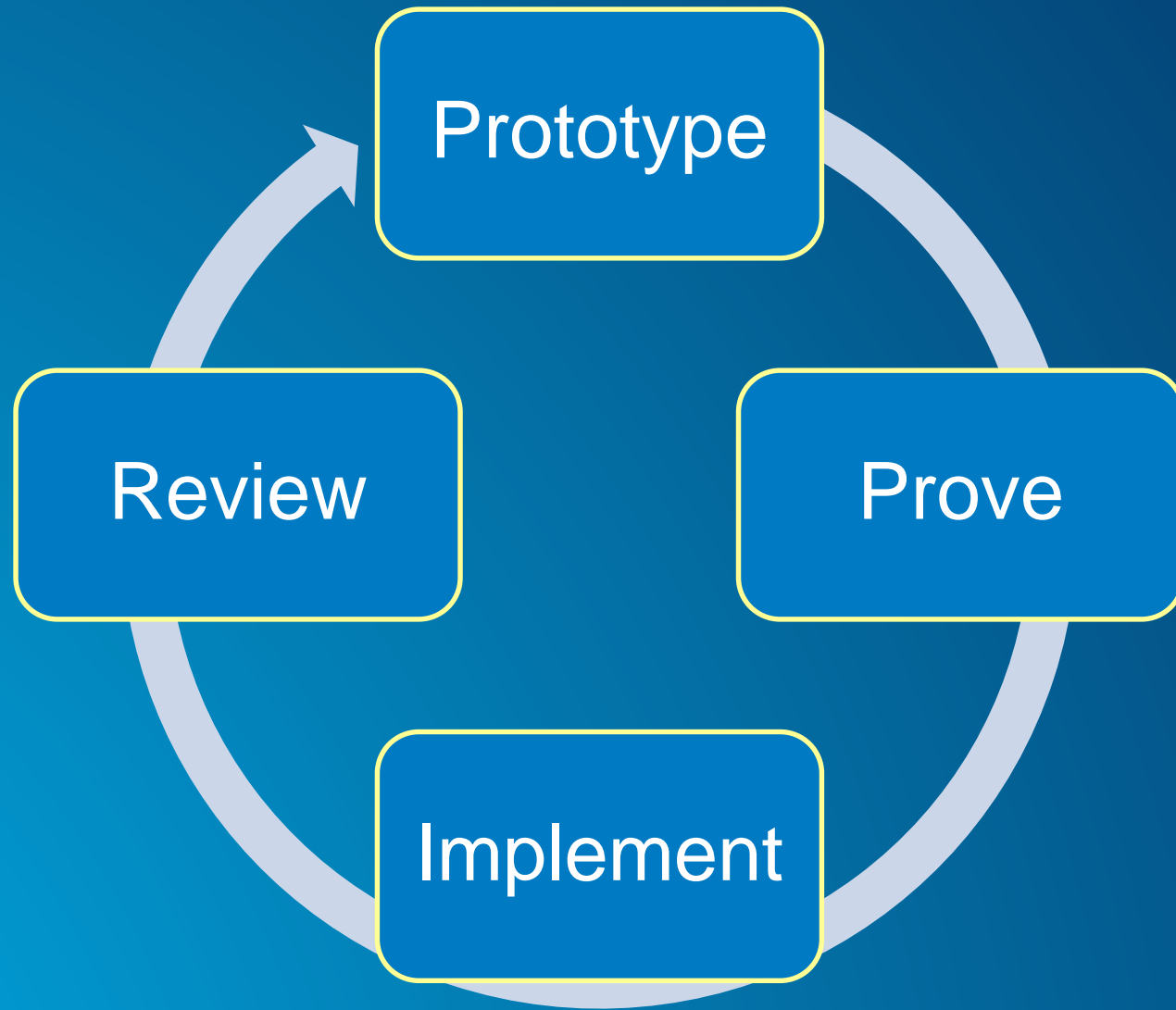
Iterative and incremental method for your projects



5

Change

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



6

Enterprise Systems Require Prototyping

Identify key components that are fail points or non-traditional



7

Design Components Together

Databases, application, infrastructure, governance



8

Stay Focused on What is Important

Why do you need it...
What business value does it bring...

1. Who are the users
2. Use COTS as much as possible
3. Requirements, requirements, requirements
4. Use an iterative methodology
5. Manage Change
6. Enterprise systems require prototyping
7. Design Components together
8. Stay focused on what's important



- **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

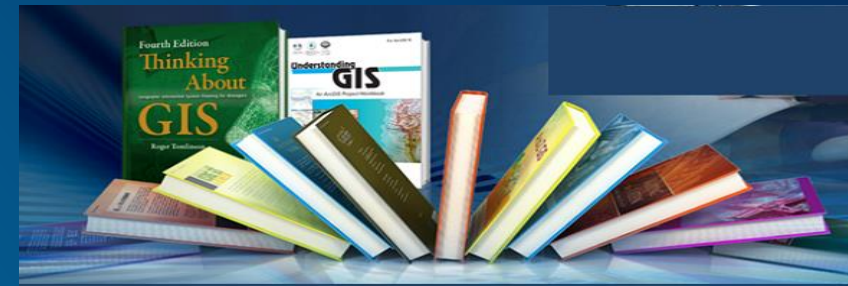
- *Thinking About GIS*—Roger Tomlinson

- esri.com/getting-started/executives/

- **Project Management Body of Knowledge (PMBOK)**

- pmi.org

Additional Resources |



- ***Software Requirements (2nd Edition)*** by Karl Wieggers, 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
- ***Applying UML and Patterns (2nd Edition)*** by Craig Larman, Prentice-Hall, 2001
- ***Use Case Driven Object Modeling with UML*** by Doug Rosenberg and Matt Stephens, Apress, 2008
- ***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