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 - 20+ years of programming and GIS implementation experience

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The Red Oak Communities of Practice

- Information Technology
- Organizational Effectiveness
- Outsourcing/Regionalization
- Financial Services
- Security Services

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Pathways to Lasting Solutions

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Presentation Outline Introductions GIS Components What can GIS do for your Community? Needs Assessment Overview Needs vs. Plans Questions & Answers





GIS Allows Us to Query Spatial and Attribute Data

- What exists at or near a particular location?
- · What areas meet certain criteria?
- · What is adjacent to this location?
- · What has changed since?
- What spatial patterns exist?
- What if?

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Needs Assessment Study Purpose A requirement study allows an organization to assess: what they need what they have what they can afford how they should proceed Educational opportunity Enhances success through ownership

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Needs Assessment Components	5
Educational Seminars	
Questionnaires	
Interviews	
 Group / Department 	
 Individual 	
 Compilation / Report Documents 	
 Application Descriptions 	
 Master Data List / Data Dictionary 	
 Prioritization and Use Matrices 	
 Cost Spreadsheet 	
 Master Application List 	
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Who should be interviewed?

- Choose people with a clear understanding of department job roles and responsibilities
- Choose people you trust and respect their opinions
- Choose someone who is not afraid of computers or change
- Apply the 10-80-10 rule

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10-80-10 - Who should define the needs?

Inhibitors (10%)

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- fight against change
- unwilling to adapt even if the arguments are compelling
- unwilling to provide information for applications
- seem to rise to positions of power

10-80-10 - Who should define the needs? So what do you do ??? Educate Management when they select the team for interviews Be prepared to deal with difficult people Try to find common interests, likes, dislikes, etc.

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Traditional Needs Assessment Asks: What departments could use GIS? How are maps and databases used in these departments? What map products or functions (applications) are needed? What data is required to feed those applications? · How is data shared between departments? What data exists and in what form? ICMA CORPORATE REDAK CONSULT

Plan-centric Needs Assessment Asks:

- Which applications are most important?
- How often would the GIS be used or accessed?
- · What time / cost savings would be realized for each use?
- How critical is the data required to feed those applications?
- How should costs be shared between departments?
- What will it cost to convert the critical data?

Plan-centric Questions **Prioritized** applications? - High, medium, low • Anticipated use by user? - Daily, weekly, monthly, quarterly, yearly Estimated cost savings per use? - Seconds, minutes, hours, days PARTNERSHIP PROGRAM

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- Example:
 - User accesses the GIS 2 times / day
 - User saves approximately 20 minutes looking for documents, paper records and maps.

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What defines a Successful **GIS Implementation?**

- How are maps and databases currently used?
- How much time and effort
 How the organization is devoted to map maintenance activities?
- · Organizationally, who is responsible for maintaining digital data?
- What GIS functions are required?
- How will GIS blend into the overall workflow of divisions?
- addresses staffing/training needs
- How does the GIS fit in the computing framework?
- How do organizational processes support data management?

Plan-centric Approach **Prioritized** applications Anticipated use by department Estimated cost savings Cost sharing between departments? · Cost estimates for - hardware & software - data conversion - application development training

· Prioritized implementation schedule

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