

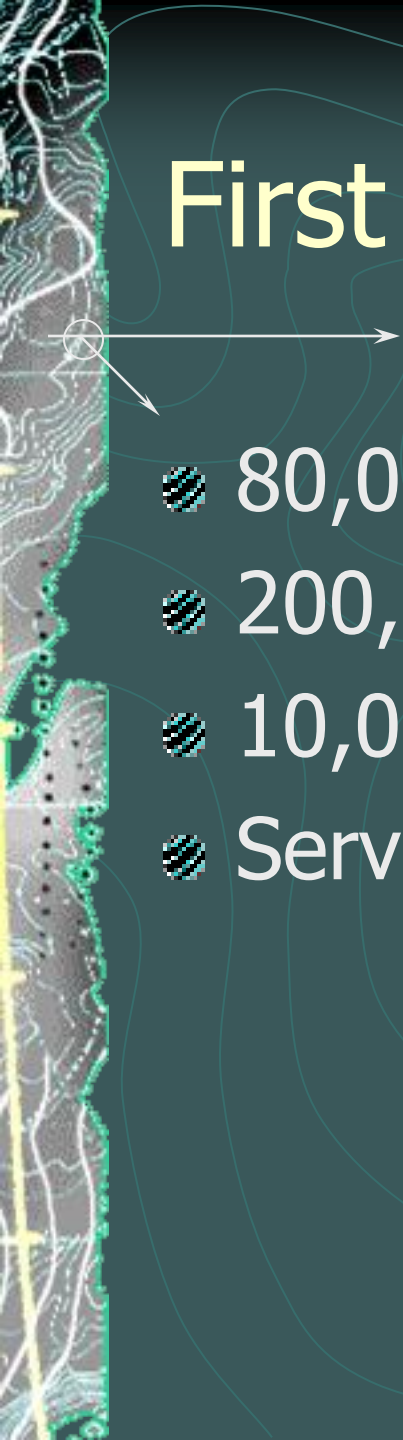


Integration Technology Case Study

Automating The Staking To Mapping Process
In An Electrical Utility

by
Randy Everett
GIS Supervisor
First Electric Cooperative
Jacksonville, AR
randy.everett@firstelectric.coop

First Electric Cooperative

- 
- 80,000 Members
 - 200,000 Poles
 - 10,000 Miles Of Line
 - Serve Members In 17 Counties



First Electric Cooperative

- 3688 Square Miles
- 5 Offices
- 238 Employees



Issues Involved In Automation

- Large Database
- Limited Bandwidth Between Offices
- 40 Stakers
- Timely Map Updates
 - Subdivision Plats
 - As Built Facilities Added To Map
 - Daily Updates For All Offices




Issues (continued)

● Connectivity

● Existing Assemblies

Software Utilized By FECC

- 
- Partner Staking Software
 - NISC (Mapping-ESRI-SDE-Oracle)
 - NISC (CIS & Financial)
 - Milsoft (OMS, IVR, EA)
 - Cooperative Response Center (CRC)
 - ACLARA (AMR System) Formerly TWACS
 - Electrical Systems Consultants ESC



Development Of Staking To GIS

● Partner Staking Application

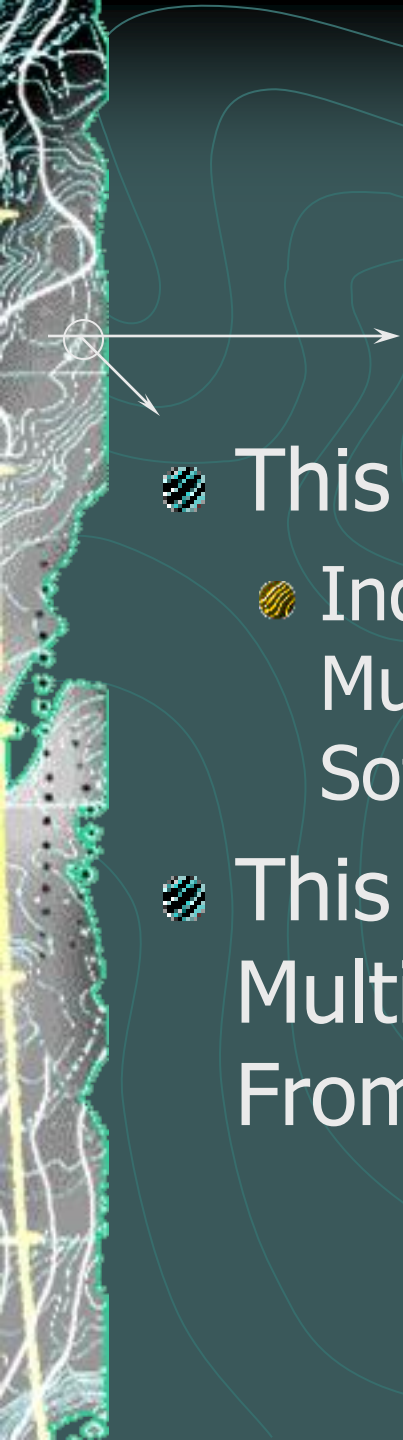
- Started Developing a MultiSpeak Staking To GIS Interface in 2003
- Later In 2003 Partner Implemented That Interface With Origin Geosystems
- Multiple GIS Systems Are Now Supported Including ArcFM and WindMilMap



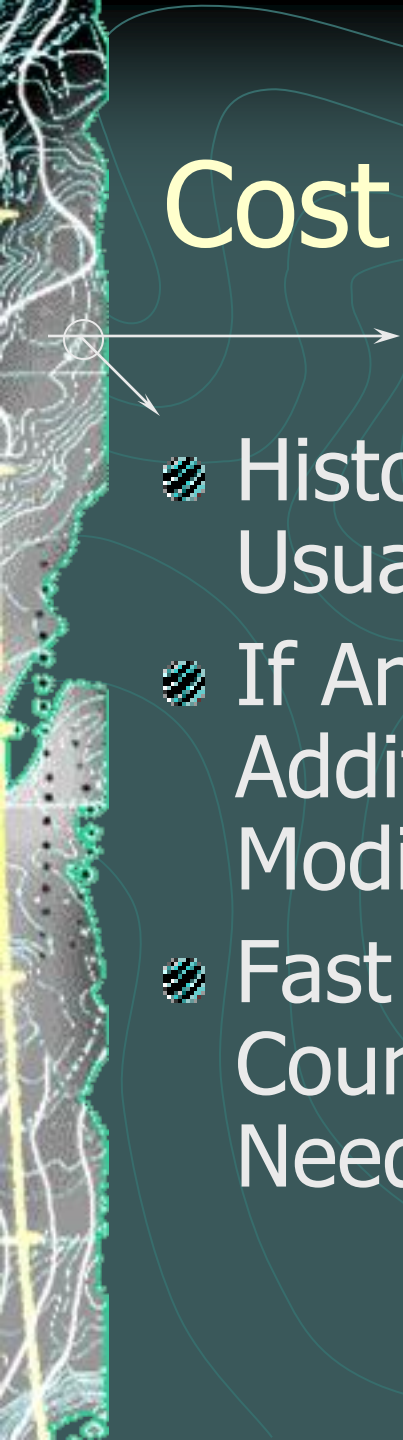
Development Of Staking To GIS

- 2007 FECC Purchased Partner Staking
 - Partner Adapted Their Staking Application To Interact With The NISC Data Model
 - Partner Invited ESC To Develop A MultiSpeak Add-On To ESRI
- 2008 FECC Implemented Partner Staking Solution With Staking To GIS MultiSpeak Compatibility

Integration Points

- 
- This Was A Very Unusual Integration
 - Independent ESRI Partner Developing A MultiSpeak Interface For Two Separate Software Packages
 - This Opens The Door For Other MultiSpeak Integrations Independent From The Software Provider

Cost Savings Scenario

- 
- Historically Software Interfaces Were Usually Around \$5000.00
 - If Any Part Of The Software Changed Additional Costs Were Incurred For Modifying The Interface
 - Fast Forward To Today's World And Count The Number Of Application That Need To Interface With Each Other

A vertical strip on the left side of the slide shows a topographic map of a coastline. A yellow line runs vertically along the coast. A white circle with a crosshair is positioned on the map, with a white arrow pointing horizontally to the right and another white arrow pointing diagonally down and to the right.

Cost Savings Scenario (continued)

- Savings In Interface Development Alone Could Be In The Thousands \$\$\$\$\$
- In House Personnel Can Devote Time & Resources To Other Projects



Cost Scenario Without MultiSpeak

- GIS Technician avg. \$18.00\hr
- Avg. of 15 minutes per job without MultiSpeak interface
- 6.5 hours per day of actual work time
- 26 jobs entered per day
- 130 jobs entered per week
- 520 jobs entered per month



Cost Scenario With MultiSpeak

- Avg. 7 minutes per job
- Time savings of 8 minutes per job
- Productivity doubles to 55 jobs per day
- 275 jobs per week
- 1100 jobs per month

A vertical strip on the left side of the slide shows a topographic map with contour lines. A yellow line is drawn vertically across the map. A white circle with a crosshair is positioned on the map, with two white arrows pointing to the right and downwards from it.

Cost Scenario With MultiSpeak

- Difference of 29 jobs per day
- 3.8 hours savings X \$18.00 = \$68.40 per day
- \$342.00 per week or \$17,784.00 per year for 1 employee
- Staking to GIS interface automates detailed processes at no extra time



Closing Remarks

- Integration Does Not Have To Come At The Cost Of A One Stop Shop
- Take Time To Fully Understand The MultiSpeak File Structure
- MultiSpeak is a viable alternative to custom interfaces

Questions??

Randy Everett

GIS Supervisor

First Electric Cooperative

Jacksonville, AR 72076

501-985-4534

randy.everett@firstelectric.coop

