Mid-Carolina Electric Cooperative (MCEC)

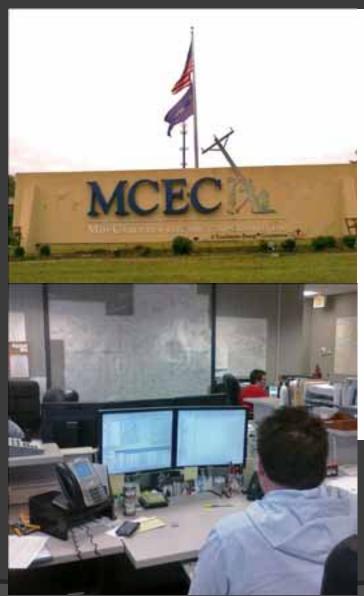


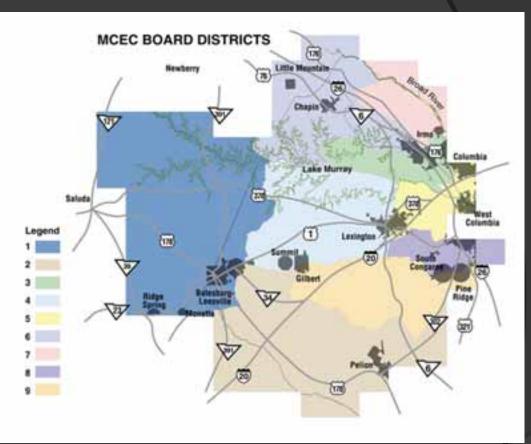
Mid-Carolina Electric distributes electricity in Lexington, Richland, Saluda, Aiken and Newberry counties of South Carolina.

MCEC is primarily an urban cooperative, comprised of 88% single family dwellings, and 12% commercial and industrial facilities.



Mid-Carolina Electric Cooperative (MCEC)





On average, MCEC receives approximately 22,000 tickets per year from the SC 811 call center. This amount varies year to year based on construction and excavation projects.



Mid-Carolina Electric Cooperative (MCEC)





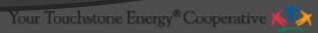




Looking out for you!



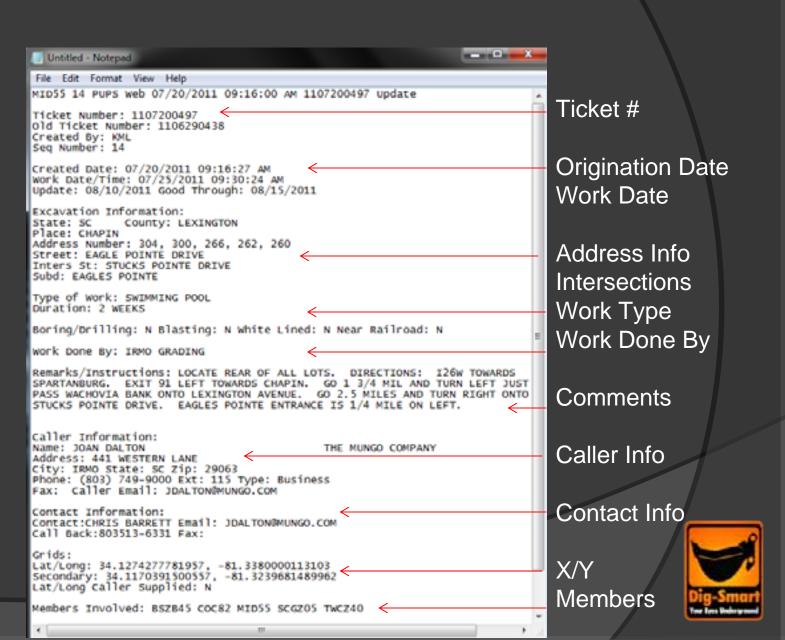
MID-CAROLINA ELECTRIC COOPERATIVE, INC.





Mid-Carolina Electric Cooperative (MCEC)

What is an Excavation or 811 Ticket?



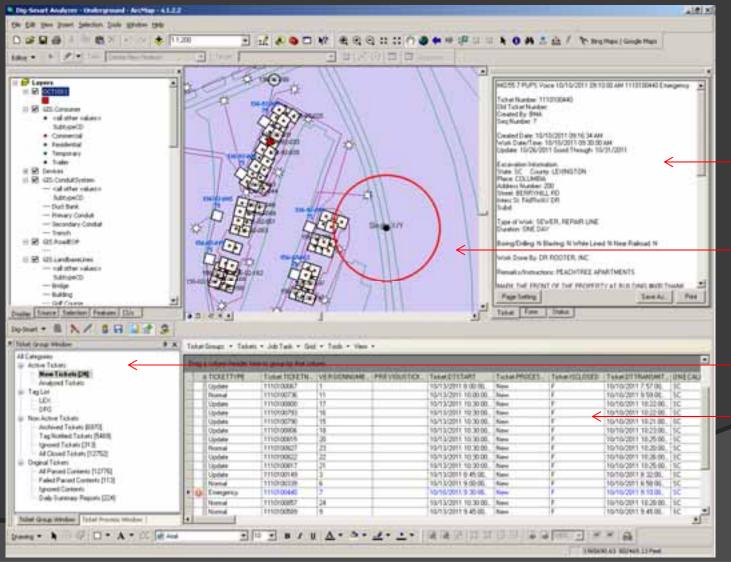
Mid-Carolina Electric Cooperative (MCEC)

- With a dedicated SC 811 email account, all tickets are emailed directly to MCEC
- Tickets arrive into a mail Exchange Server
- Using Dig-Smart Server, tickets are automatically moved into an Oracle database
- Using Dig-Smart Analyzer (running ArcGIS) each ticket is mapped
- The MCEC Enterprise Geodatabase is used for all data verification
- Additional geocoding services are used to refine the ticket address, if needed
- Heads up analysis is performed on each ticket
- Tickets are either assigned to field crews or cleared in the office
- No positive response required...yet, perhaps, we'll see...



Mid-Carolina Electric Cooperative (MCEC)

ArcGIS / ArcMap / Dig-Smart Analyzer Interface



Text View

Map View

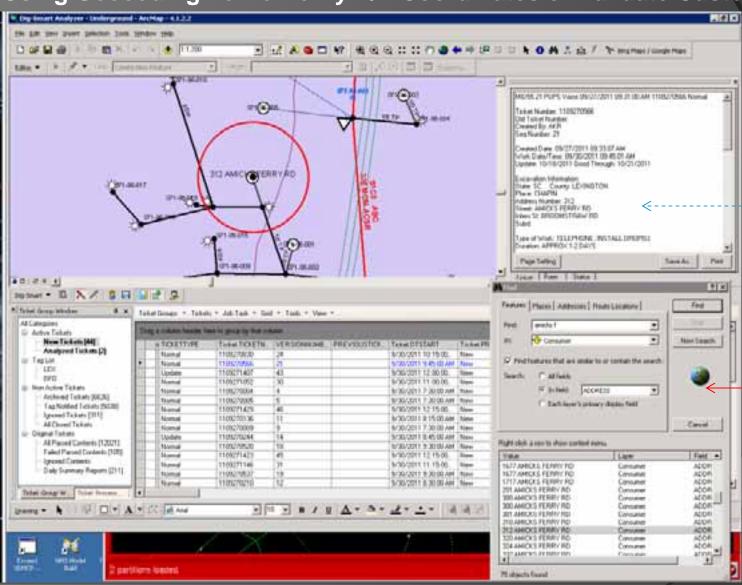
Tree View

Table View



Mid-Carolina Electric Cooperative (MCEC)

Using Geocoding To Re-Verify X/Y Coordinates or Validate Customer

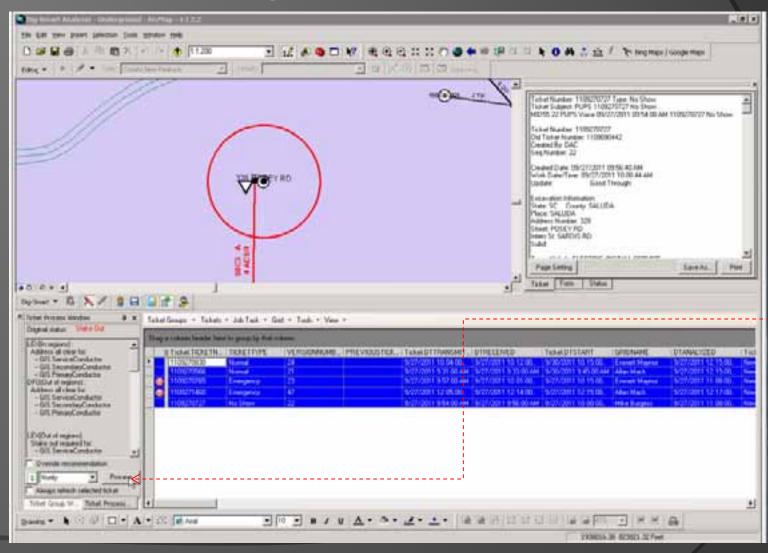


Geocoding Refinements From GIS and CIS Data



Mid-Carolina Electric Cooperative (MCEC)

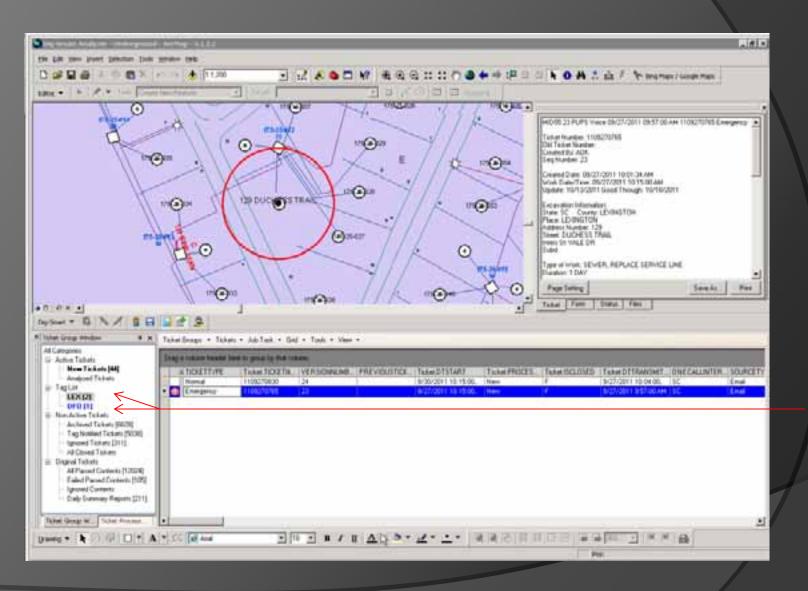
Multi-Ticket Processing With Batch Process Features



After
dispatch
review,
batch
processing
can occur



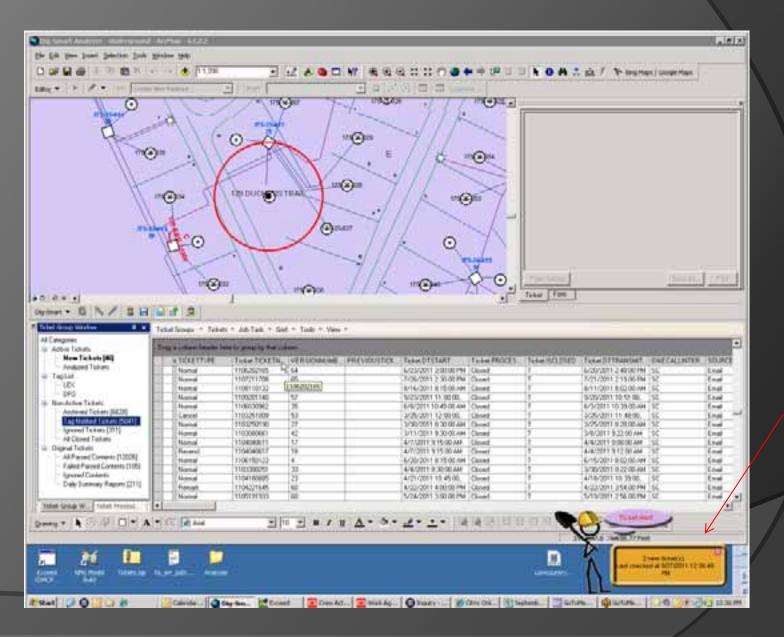
Mid-Carolina Electric Cooperative (MCEC)



Tickets successfully assigned to locators (Tags) or given allclear status



Mid-Carolina Electric Cooperative (MCEC)



New ticket alerts are audible and visual (SMS and mobile email)



Mid-Carolina Electric Cooperative (MCEC)

Current Mobile Workflow

- 1. Tickets assigned from Analyzer to Field
- 2. Auto-print function used to create paper record
- 3. Upon completion of field work, paper record is discarded
- 4. Dig-Smart database used for all damage & reporting investigations

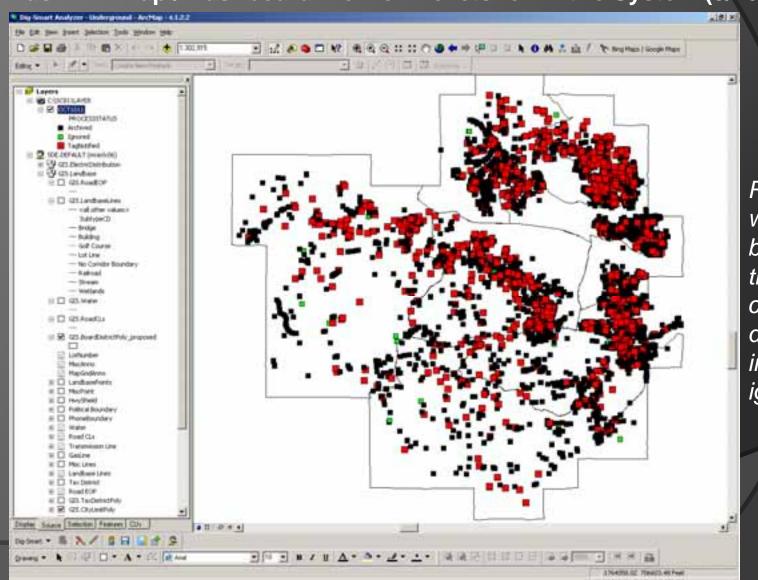
Future Mobile Workflow

- 1. Dig-Smart Field used to synchronize tickets to mobile device
- 2. Localized database to store all field data
- 3. Daily synchronization with enterprise database
- 4. Phase out of current hard-copy protocol



Mid-Carolina Electric Cooperative (MCEC)

Push-Pin Map / Dashboard View of Tickets for Entire System (3/2011-10/2011)

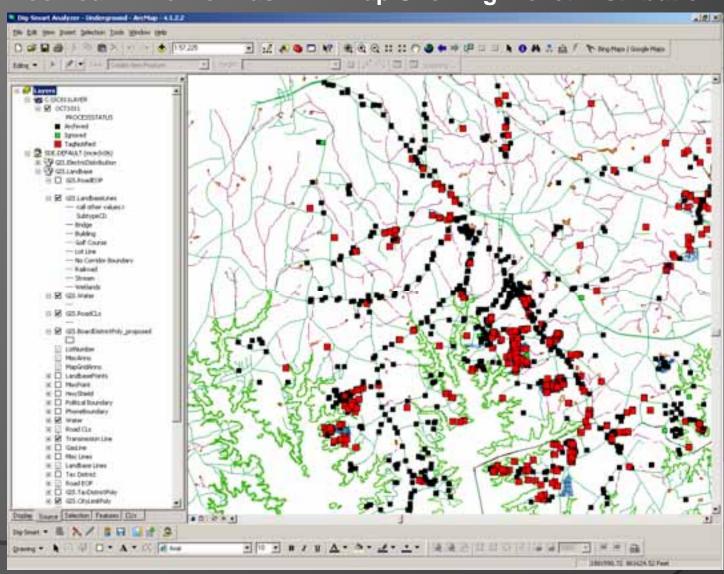


Red indicates work completed, black indicates ticket was allclear and green dots indicate an intentionally ignored request



GIS Centric One Call Ticket Management Mid-Carolina Electric Cooperative (MCEC)

Zoomed-In-View of Push-Pin Map Showing Ticket Distribution



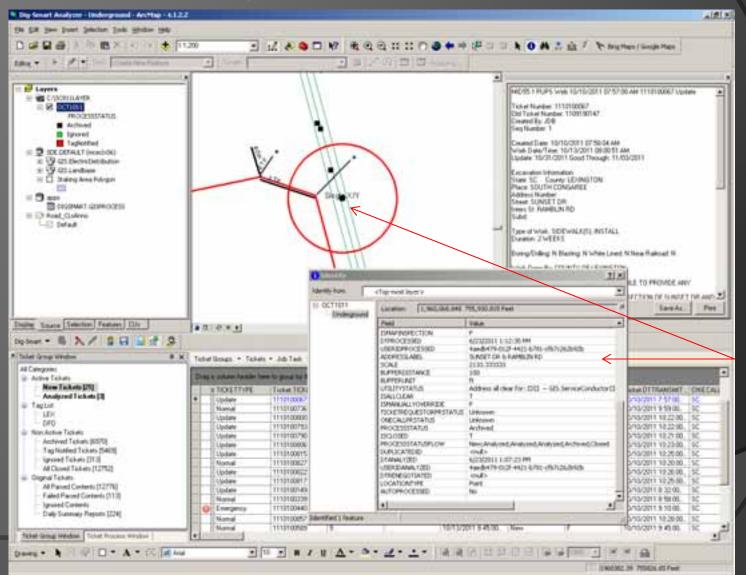
All ArcGIS thematic and cartographic elements can be used for map reporting

Thematic sorts can occur from any table in the schema and be joined to other schemas as necessary



Mid-Carolina Electric Cooperative (MCEC)

ArcMap Tool "Identify" Used To Research Previous Tickets



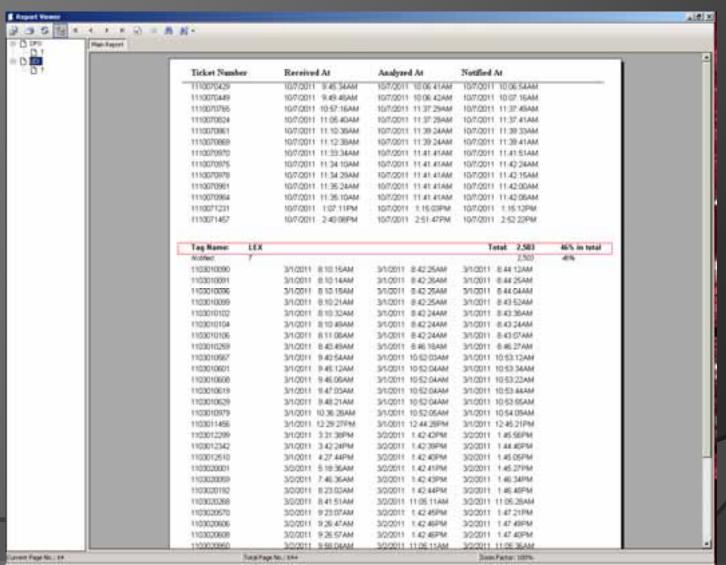
As long as table joins have occurred, clicking on a completed ticket from the past retrieves all historical information.

Useful for proximity searches and redundant ticket requests



Mid-Carolina Electric Cooperative (MCEC)

Dig-Smart Table Reports on Tickets by Tag Assignment

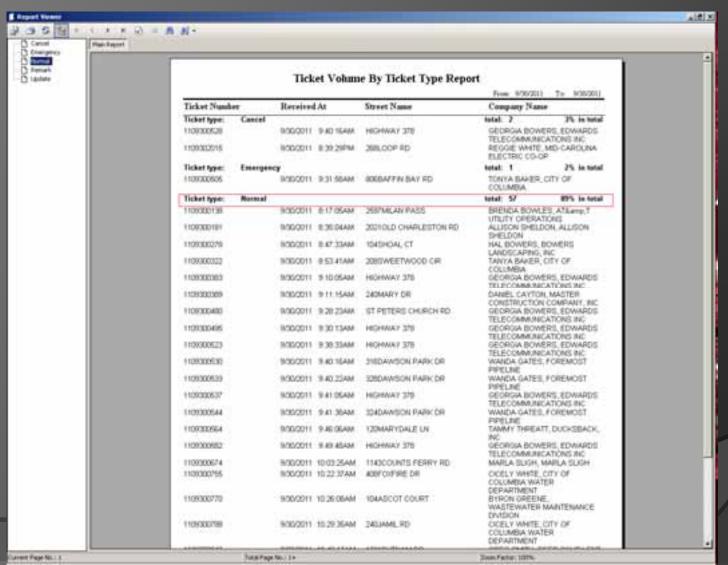


In addition to map reports, table reports can be created based on date/time variables



Mid-Carolina Electric Cooperative (MCEC)

Dig-Smart Table Reports on Tickets by Ticket Type



In addition to map reports, table reports can be created based on date/time variables



Mid-Carolina Electric Cooperative (MCEC)

Summary

- Dig-Smart Implemented in 2007 for One Call Ticket Management
- GIS Centric Being Core Element/Requirement With SDE Integration
- Small Deployment, Approximately 22,000 Tickets Annually
- Percent Requiring Staking Varies From 33%-66% On Average, Varied Per Month.
- Mobile Workforce Implementation in 2012 (i.e. GPS, AVL, etc)
- Dig-Smart Field Implementation 2012
- Objectives Achieved:
 - -Reduced Time Spent Completing Requests
 - -Historical Tickets Stored In-House, Oracle Database
 - -GIS Can Produce Maps Anytime
 - -Positive Response Compliance (Future SC811 Initiative)



Mid-Carolina Electric Cooperative (MCEC)

THANK YOU

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