Oklahoma DOT:
An Agency in Transition

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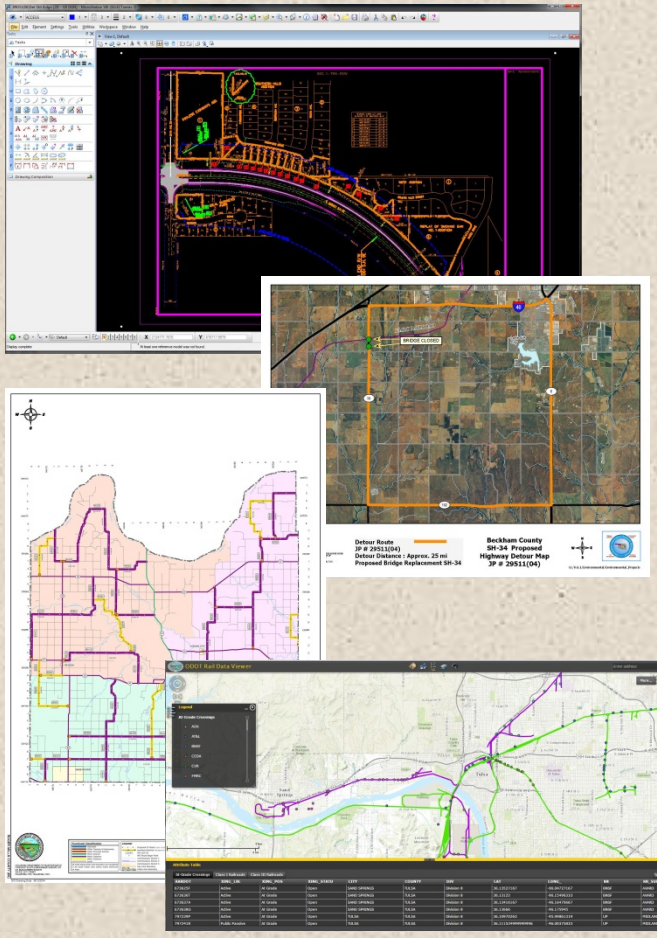
Background

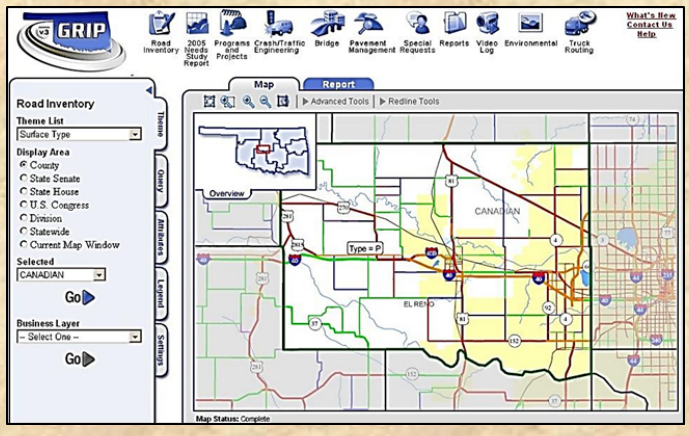


- GIS Development, part of GIS Mgmt. Branch
- Strategic Asset and Performance Mgmt.
- Custom maps
- On-demand web mapping applications
- CAD Integration
- Mobile data collection
- Training
- Other services as needed

“Enterprise Solutions?”

- Applicable to everybody
- Answers a question, solves a problem
- Cross-platform compatibility
- Ease of use
- Agile, maintainable, upgradeable
- “makes sense” to all users

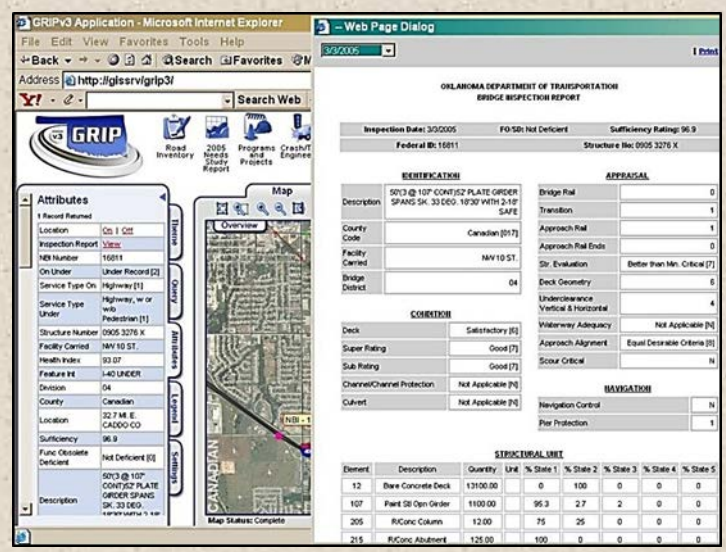
Past Efforts



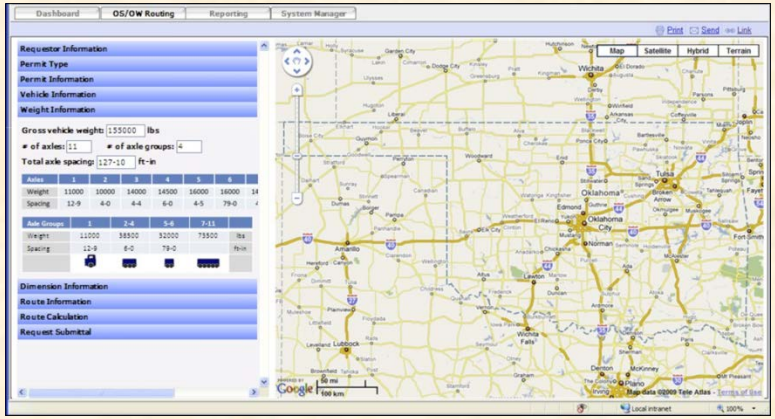
- GRIP
- ‘Geographical Resource Intranet Portal’
- Planning & Design in 1999
- Launched in 2000
- Several minor redesigns

Past Efforts

- Public-facing ‘GRIPLite’
- In service through 2013
- Ultimately limited by SVG Support
- Served as a baseline for the design and implementation of new application



Past Efforts



- OSOW (OkiePros)
- Permitting system & route planner for Oversize/Overweight vehicles
- Dramatically increased efficiency
- Paid for itself in the first year of operation
- Leveraging GIS technology to tackle a real-world problem for non-GIS people

The Transportation Asset Browser (TAB)

- Framework for this effort was to ‘build a replacement for GRIP’
- What does that mean?
- What do we need?
- Is this a tool for our internal users?
- Is the public using this?
- How do we meet these goals?

The Transportation Asset Browser (TAB)

- Early discussions 2010/2011
- RFP put out mid-2013
- Awarded Sept. 2013
- Intergraph selected
- Work began March 2014

The Transportation Asset Browser (TAB)

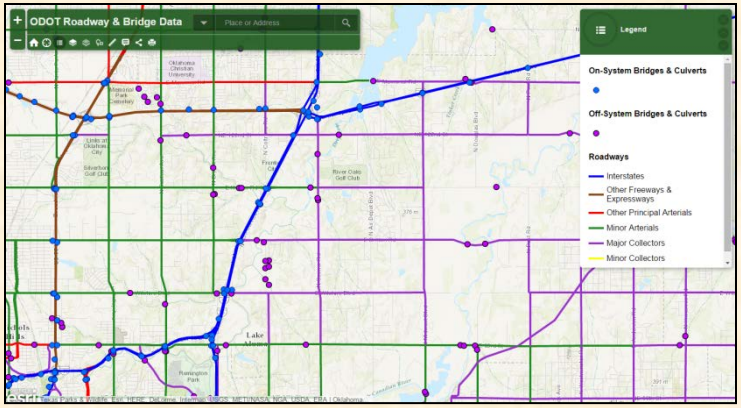
- Fully custom product
- Pros – Tailored to our requirements, customization options
- Cons – Slow dev time, expensive, no COTS-type support after the fact
- Centered around specific hypthetical use cases

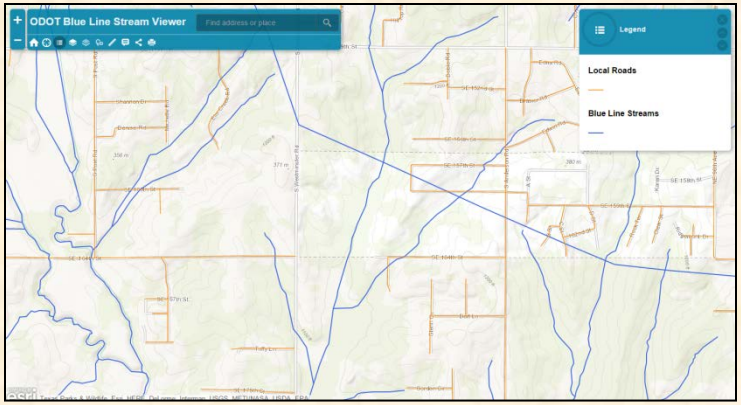
ArcGIS Online

- Simple, easily integrated with rest of agency
- Early on, some light usage
- Initially held back because integration issues with existing software
- Transition to ESRI platform agency-wide

ArcGIS Online

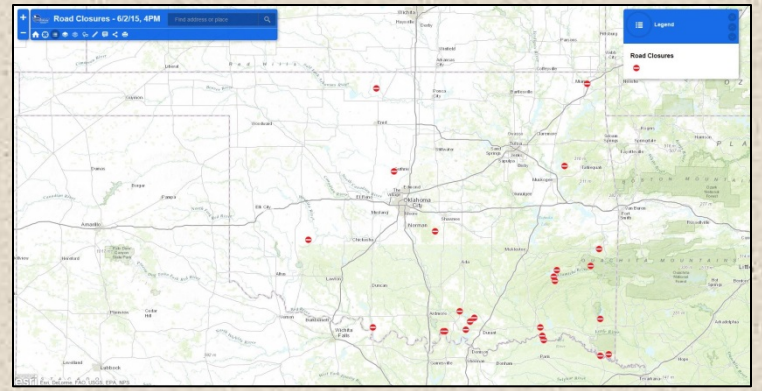
- Roadway and Bridge Data Viewer
- Blue line stream viewer
- Redlining tools
- Construction project maps for the public



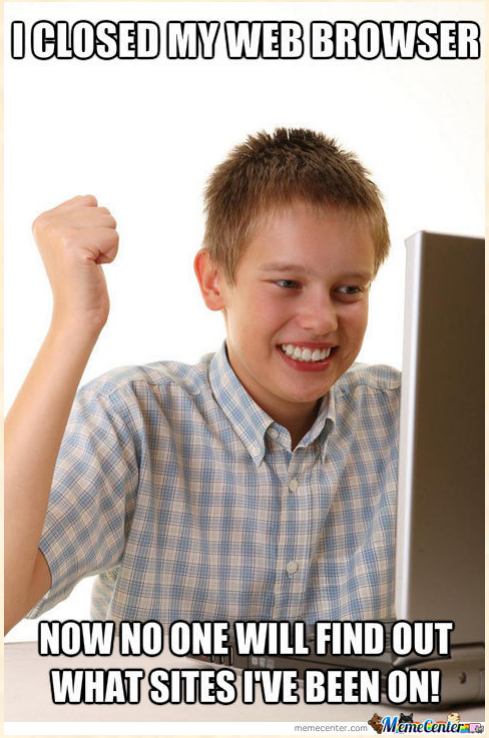


ArcGIS Online

- Flooding map
- Late May/Early June
- Our main line of communication to the public and our internal people
- ~18,000 views per day at peak
- Drove home the need for the product



ArcGIS Online



- What does this mean for our users?
- How has the dynamic, on-demand environment changed how we do things?
- What does that mean for the GIS people?
- What does the custom application process look like in the future?

Managing Expectations

- Who is ‘selling’ the project to senior staff?
- What are the underlying expectations?
- What is getting promised?
- What can be delivered?
- Do the expectations match the agreed upon scope of work?
- If not, now what?

Understanding Your Users

- We think this is cool, does anybody else?
- What is really getting used?
- Are current workflows better or worse?
- Does this design fit with current tech and expected usability?
- Is the ‘obvious’ functionality really all that obvious?

Understanding Your Users

- GRIP offered very little in the way of understanding who was using what and why
- Importance for usage and unique IP logging in TAB and AGO maps
- Better handle on who is using what
- Critical for design, important for ROI metrics