Dashboarding with the Iowa DOT

GOTUG MARCH 2019

David Runneals
GIS Developer
HNTB
What is a “Dashboard”

- View of geographic information that helps you monitor events or activities.
- Designed to display multiple visualizations that work together on a single screen.
Uses for Dashboards

• See all the data you need to be informed or make decisions
• Monitor day-to-day operations
• Ensure all colleagues are focused on the same goal by using the same information
• Monitor the health of a business, product, organizational team, campaign, or system
• Create a view of metrics that matter to you
Requirements for Dashboards

• Data
  • Must be a feature or map service (can be a table or feature class)
  • Appropriate field types are required (i.e. you can’t graph a number that is a char field)
Elements of Dashboards

- **Header**
  - Contains Title, Subtitle, and “selectors” for date, category, and number
- **Map**
  - Contains a web map and layers. Map extent can be used as a spatial filter for the other elements. Maps are OPTIONAL!
- **Charts**
  - Serial Charts (line/bar) or Pie Charts can show data trends.
- **Indicator**
- **Gauge**
- **List**
- **Details**
Technology Stack

• Aim to use COTS solutions
  • ArcGIS Online
    • Web App Builder
    • Arcade
    • Operations Dashboard
    • REST Services
  • FME
DEMO TIME!
Questions?

Thank You!
David.Runneals@iowadot.us