GIS IN STATE GOVERNMENT

ITMC Meeting – 10/4/2017

Geographic Information Systems (GIS)

A geographic information system (GIS) lets us visualize, question, analyze, and interpret data to understand relationships, patterns, and trends.
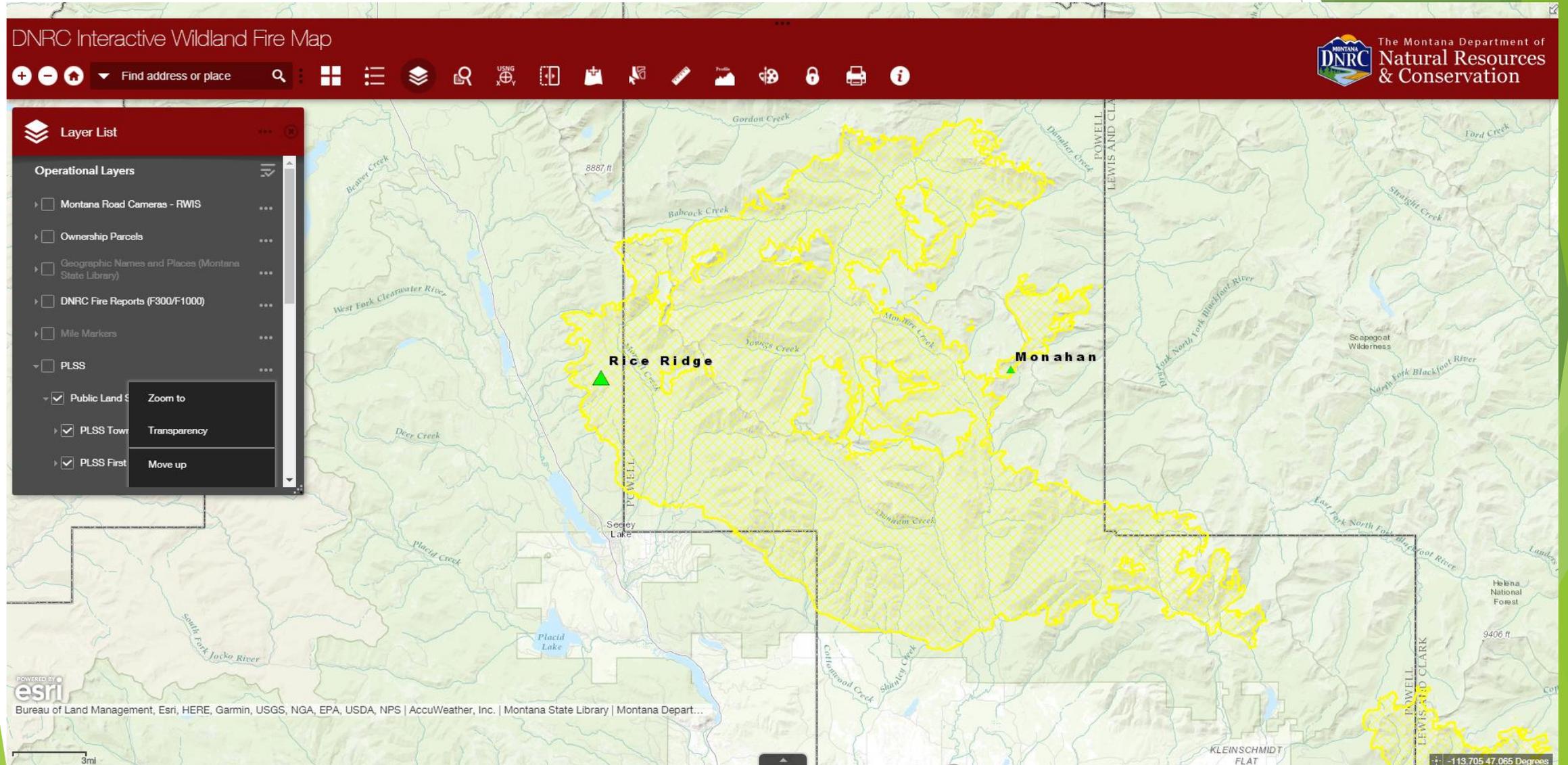
5 Components of a GIS:

▶ People

▶ Data

▶ Methods

▶ Hardware

▶ Software

GIS in State Government

▶ GIS Software deployed across 18 state agencies

▶ State of Montana GIS Coordination: Montana State Library

  ▶ Montana Land Information Advisory Council

  ▶ Land Plan

  ▶ Grant Program

  ▶ Montana Spatial Data Infrastructure - Authoritative Statewide Geographic Data Sources

▶ GIS Community of Interest

  ▶ Meets Monthly – review best practices, information sharing, coordinate trainings, research the implementation of new technology

▶ Esri Enterprise License Agreement for software

  ▶ Esri Enterprise Advantage Program – Framework for training and implementing GIS activities

Examples of Utilizing GIS

▶ http://gis.dnrc.mt.gov/apps/firemap/

How is this possible?

- State Esri Enterprise License Agreement
  - Available to all State Agencies
  - Esri Developer Support
- Staff – Geographic Information System Professionals
  - Analysts, developers, database administrators
- Existing IT Infrastructure
  - Servers/databases hosted at SITSD
  - ArcGIS Online Subscription Accounts
- Federated Data Sources:
  - Federal – USFS, USGS
  - State – DNRC Data, Montana Spatial Data Infrastructure Data
  - Private – Accu Weather, Esri Basemaps

Who is using this?

- State Agencies
  - DNRC – tactical & operations, leadership briefings, social media outreach and communications to public,
    - Deployed through mobile technology
    - Secured authentication for real-time field data collection.
  - GOV – Information Resources
  - MSL – Public Reference Requests
  - DES – Information Resource
- Made publically available

What is the benefit?

- Improve information required for tactical response decision making

- Provide consistency in data collection and delivery

- Standardized real-time data collection and delivery

- Resource for informing leadership

- Resource for informing the public

- Leveraging existing data sources provided across private, local, state, tribal, and federal entities
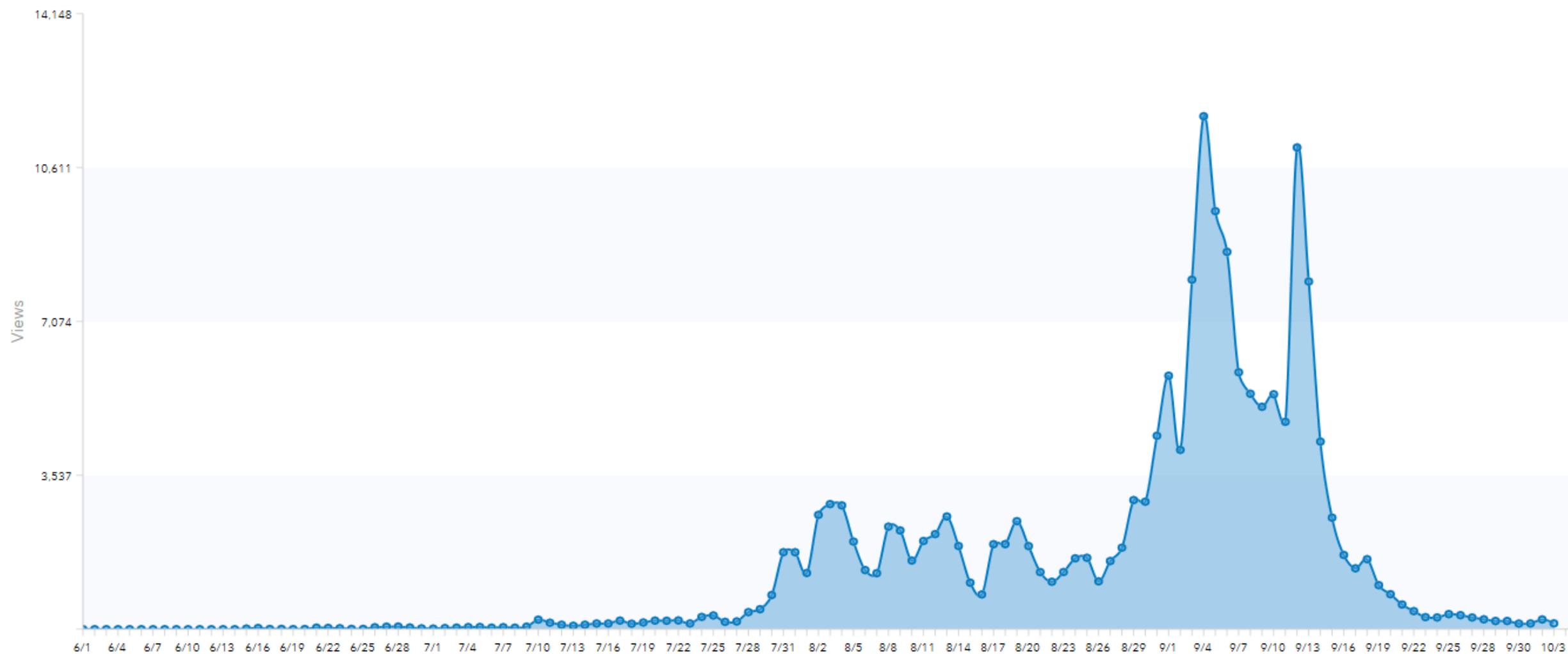
- Utilization of scalable IT resources

Views this Period	Avg Views Per Day
181,035	1,459.96

Usage Time Series

Views

14,148

10,611

7,074

3,537

6/1 6/4 6/7 6/10 6/13 6/16 6/19 6/22 6/25 6/28 7/1 7/4 7/7 7/10 7/13 7/16 7/19 7/22 7/25 7/28 7/31 8/2 8/5 8/8 8/11 8/14 8/17 8/20 8/23 8/26 8/29 9/1 9/4 9/7 9/10 9/13 9/16 9/19 9/22 9/25 9/28 9/30 10/3

Usage activity is based on GMT time reporting. Your local time zone is GMT -6 hours

What's Next ?

▶ Continued work with ITMC

▶ Mobile Technology Working Group

▶ Research and development of the cutting edge geographic information and technology

▶ Improving efficiencies and reducing cost in state government through GIS implementation

▶ Continued training for state employees on spatial information and technology
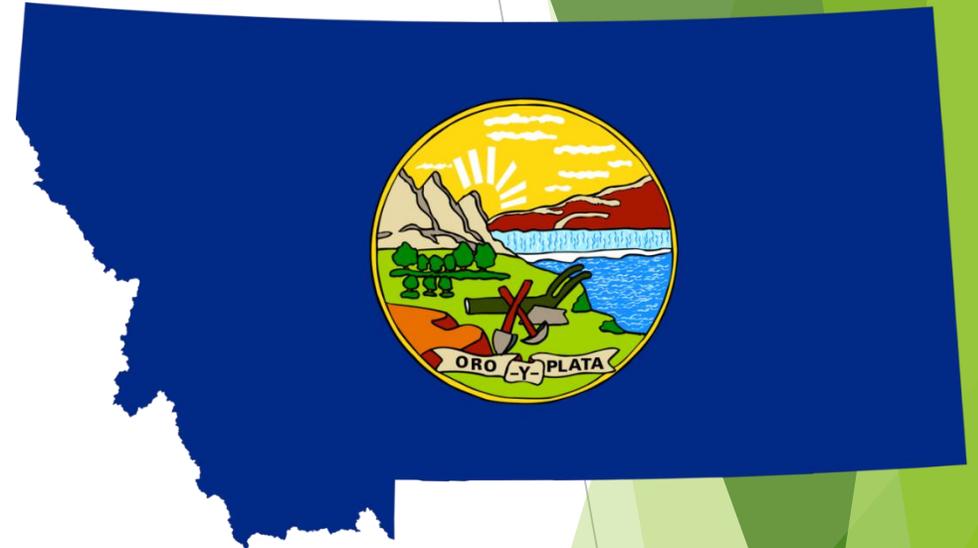
Need to know more?

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MONTANA
State
Library

Story Maps – if there is more time

- DEPT. OF PUBLIC HEALTH & HUMAN SERVICES

  - http://mtdphhs.maps.arcgis.com/apps/Cascade/index.html?appid=ce0431b84f414183a92618fc3d07297a

- COMMERCE

  - http://mtdoc.maps.arcgis.com/apps/Cascade/index.html?appid=cc09d9f8497841d2b9315c601135641e