

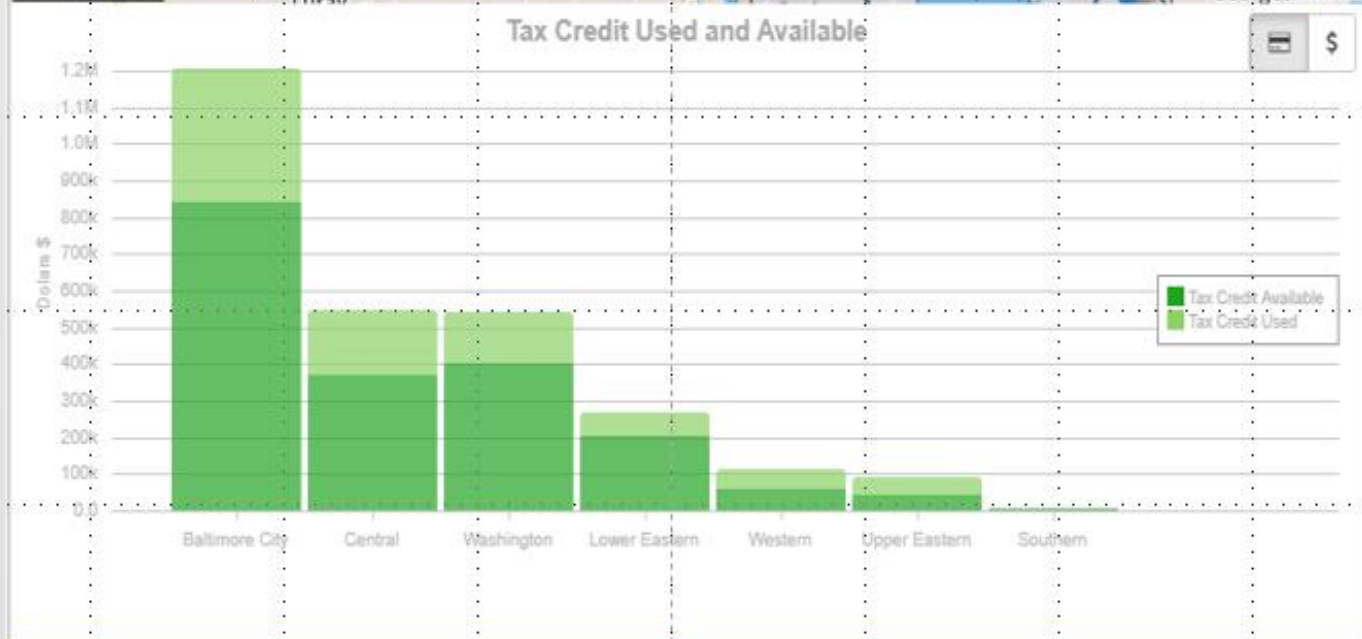
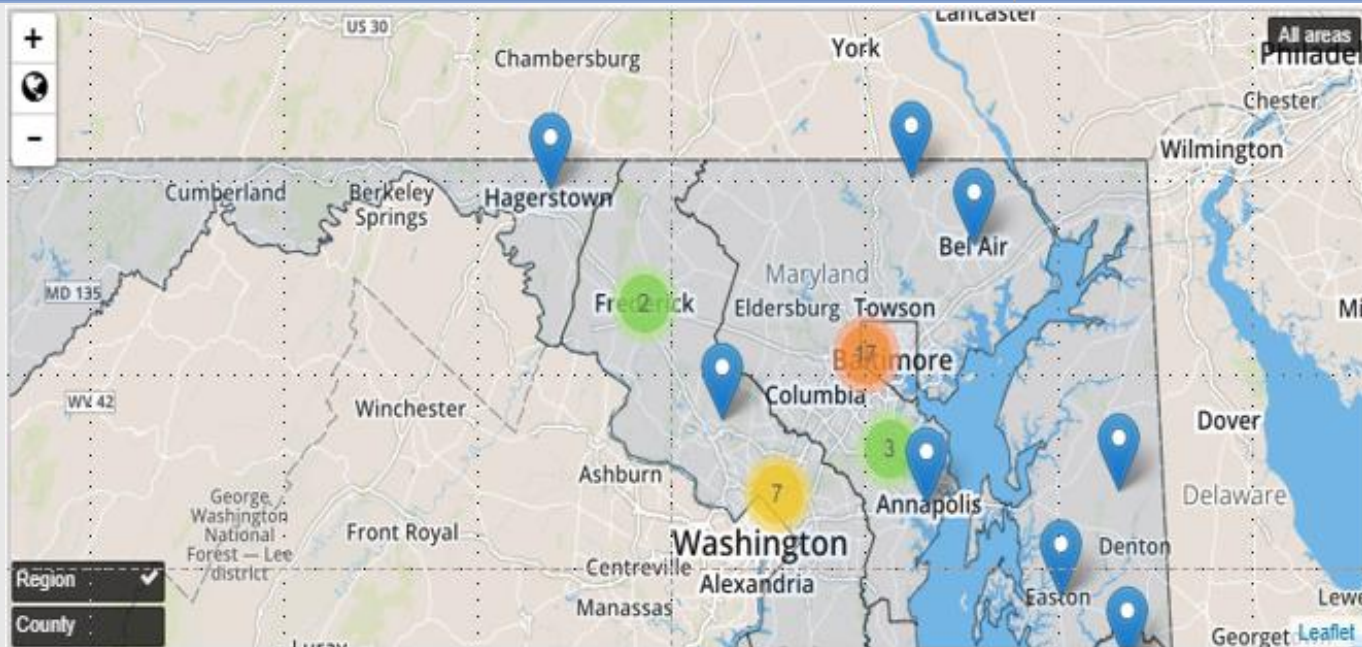


# Geographic Information Systems

Navigating the utility, impact and necessity of GIS  
in tech advancements and development







Map Locations

Participating Nonprofits	96
Total Projects	107
Tax Credit Available	\$ 1,926,026

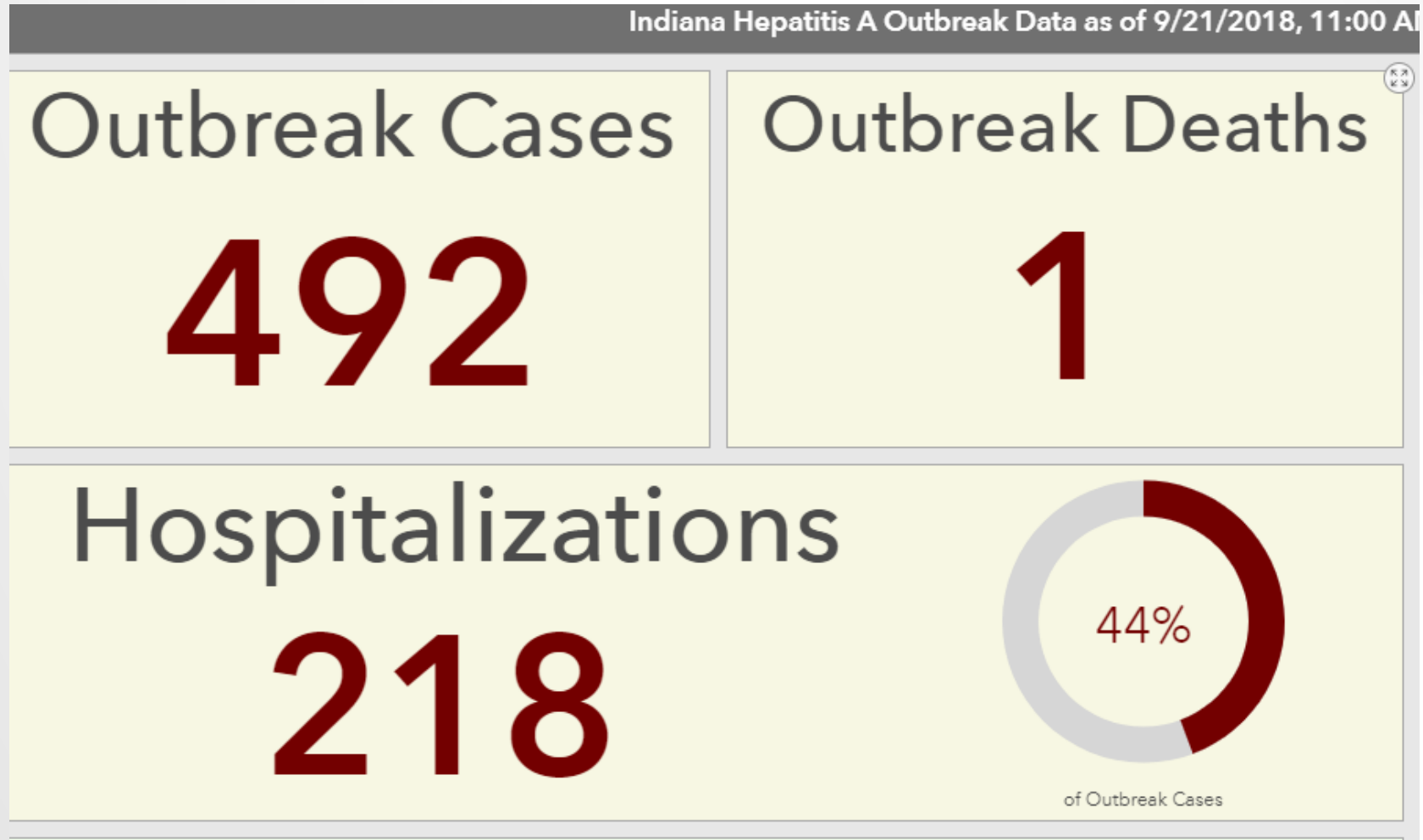
Program Types

All

Project Types

All

# INDIANA HEP-A

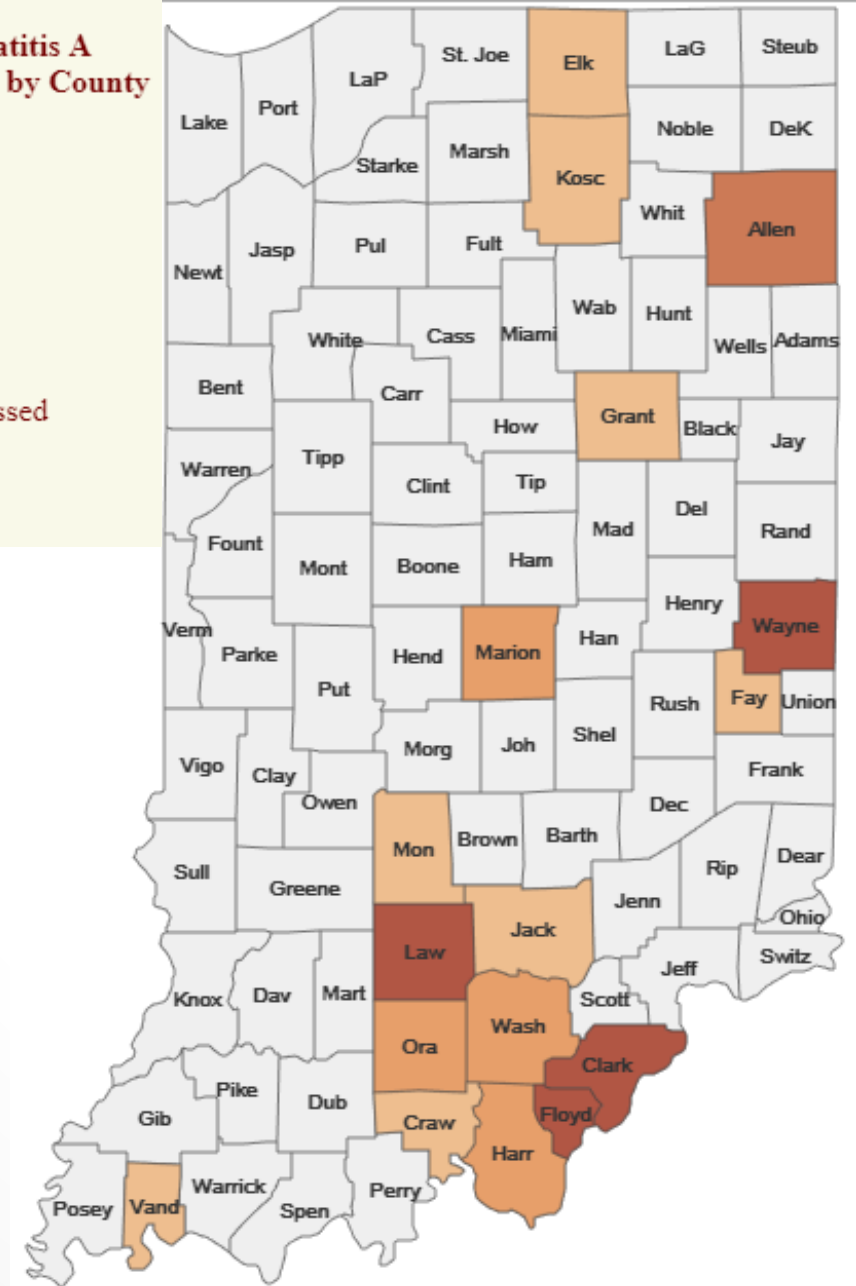


### Outbreaks Cases by County

Counties with less than 5 cases are suppressed.

County	Number of Cases
Allen	30
Clark	74
Crawford	8
Elkhart	8
Fayette	9
Floyd	47
Grant	9
Harrison	14
Jackson	9
Kosciusko	6
Lawrence	52
Marion	11
Monroe	5
Orange	16

### Number of Hepatitis A Outbreak Cases by County





### Leadership Team on Homelessness

In July 2015 the Leadership Team on Homelessness was formed so that the state, city and federal governments can work together to address homelessness in Hawai'i. This team includes Gov. Ige, state legislators, Congressional designees and city leaders. A month later Scott Morishige was appointed as the Governor's Coordinator on Homelessness. With a wealth of experience in social service, Scott is committed to strengthening human services in Hawai'i.

Together the Leadership Team on Homelessness identified and assigned parcels of land to be used for the creation of temporary shelters in one or two communities; implemented measures to transfer residents of homeless encampments to shelters; worked with service providers to establish protocols to assess shelter residents for financial, physical, mental health and other needs; and determined costs and obtained funding to meet these objectives. Law enforcement leaders, non-profit organizations and other interested parties were consulted in working together to find solutions.



### esri Kīlauea: Fountains of Fire



Natural color satellite imagery hints at the the extent of lava as it seeps out of the new fissures.

Home » Story Map Gallery

# HAWAI'I UTILIZES GIS

## STORY MAP GALLERY-COMMUNICATION TOOLS

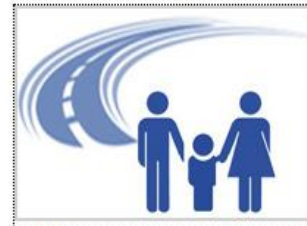
<https://governor.hawaii.gov/story-map-gallery/>



STORY MAP BIOGRAPHY OF DAVID Y. IGE



HAWAI'I'S SUSTAINABILITY INITIATIVES



HOW HAWAI'I IS REDUCING HOMELESSNESS



BLUEPRINT FOR PUBLIC EDUCATION IN HAWAI'I



GOVERNOR IGE'S ACCOMPLISHMENTS IN 2017



TEN WAYS WE MADE PROGRESS IN 2016

Keauau, Kurtistown, Hawaiian Paradise Park, Mountain View, Ainaloa, Hawaiian Beaches, Koa'e, Glenwood, Fern Forest, Wao Kele O Pūhā Forest Reserve, Leilani Estates, Pohoiki, Kehena

Evacuation zone and lava flows near Leilani Estates, County of Hawaii. Source: Hawaii County GIS.

Explore Map

POWERED BY esri

Esri, HERE, Garmin, METI/NASA, USGS, EPA, USDA | Esri

No fatal injuries have been reported; dozens of structures have been consumed by flowing lava.



Home > Blogs > Technology behind the Thailand cave rescue

**BLOGS**

## Technology behind the Thailand cave rescue

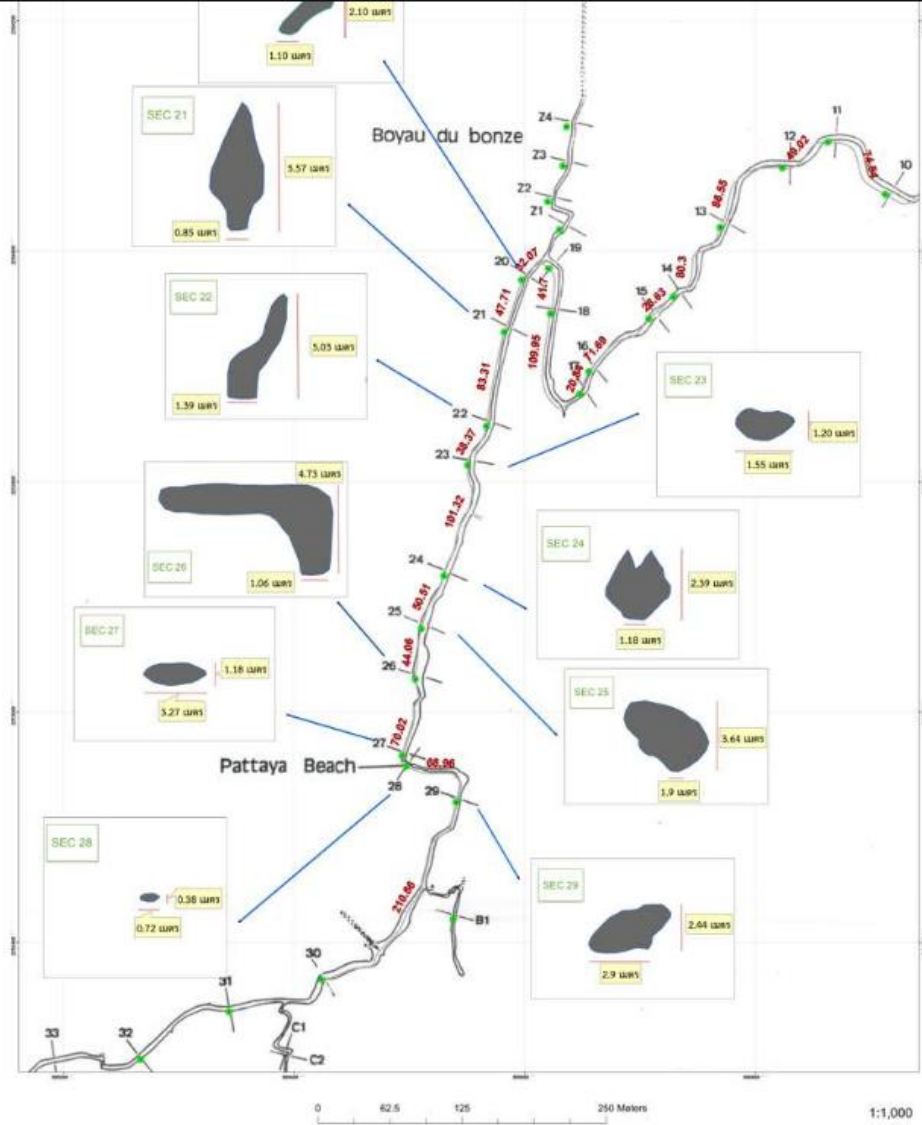
By Brett Dixon - 08/15/2018



A 3D map showing the extent and direction of water flow on the hill in relation to the cave below helped to pinpoint the placement of dams and pipes that greatly reduced the rise of water.



The war room at the Geohazard Operation Center became the epicenter for map cre



arrêté APS, Expéditions Thai 47 - Thai 88, Accroissement spéléologique et scientifique, April 1988, Toulouse, France  
 กรมทรัพยากรธรณี กรมป้องกันและบรรเทาสาธารณภัย กรมโยธาธิการและผังเมือง กรมการขนส่งทางบก กรมการขนส่งทางน้ำและพาณิชยกรรม กรมการขนส่งทางอากาศ กรมการขนส่งทางบก กรมการขนส่งทางน้ำและพาณิชยกรรม กรมการขนส่งทางอากาศ กรมการขนส่งทางบก กรมการขนส่งทางน้ำและพาณิชยกรรม กรมการขนส่งทางอากาศ



Finding the Team

Diverting Water

Planning the Rescue



*“Having accurate land parcels, road centerlines and other data already integrated in statewide data layers before the event saved a lot of time in a situation in which every minute was critical.”* - Vicky Kent Haire, Clark County Assessor regarding the emergency response to the 2012 tornadoes that devastated parts of southern Indiana.





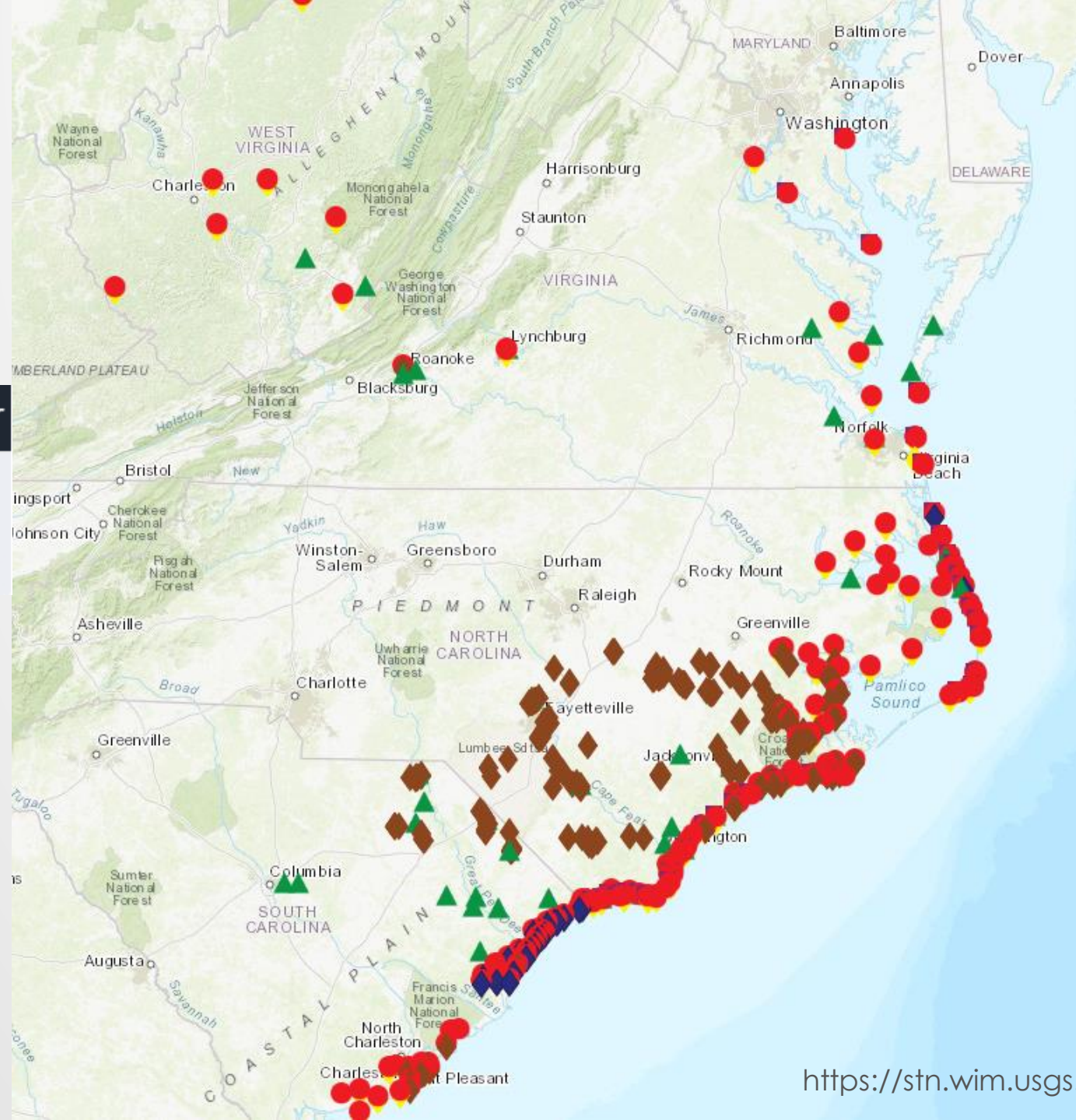


# Flood Event Viewer

EVENT:

## Florence Sep 2018

7 Sep 2018 thru 7 Oct 2018



### MAP LAYERS

#### Real-Time Data

Real-time stream gage layer only available at zoom level 9 and above. Please zoom in to view.

- ▲ Real-time Stream Gage
- ▲ Rapid Deployment Gage

#### Observed Data

- ◆ Barometric Pressure Sensor
- Storm Tide Sensor
- Meteorological Sensor
- Wave Height Sensor
- ◆ High Water Mark

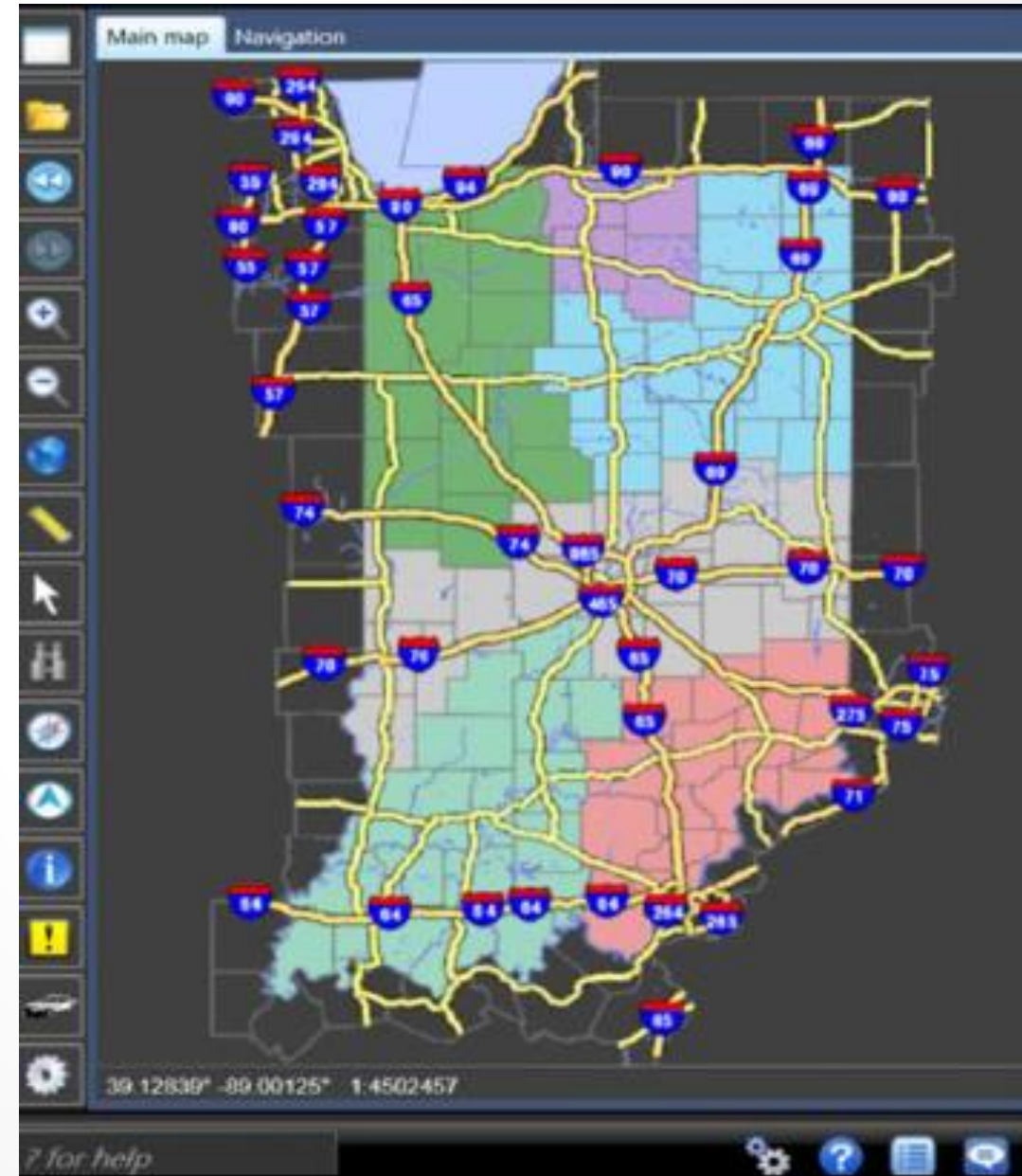
#### Interpreted Data

- ◆ Peak Summary

# PUBLIC SAFETY

“When agencies share data, lives are saved and public offices become more efficient. Sharing data encourages collaboration among agencies, provides for informed decision-making and reduces redundancy of data production. Further, planning and policy groups become better informed, particularly in terms of emergency calls and disaster response. We can be proud that all 92 counties are now sharing their map data, a major milestone that will benefit all of Indiana taxpayers.”

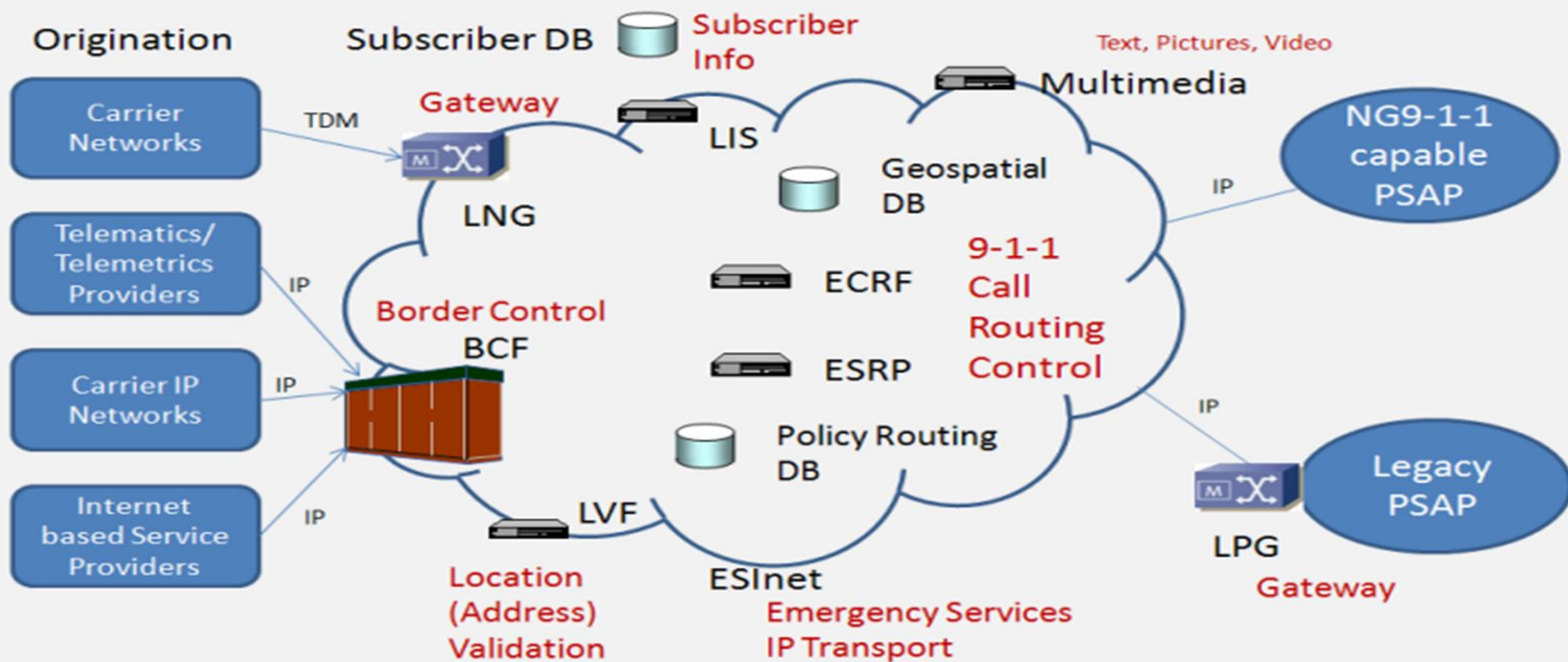
*~David Vice, Executive Director of the Indiana Integrated Public Safety Commission*





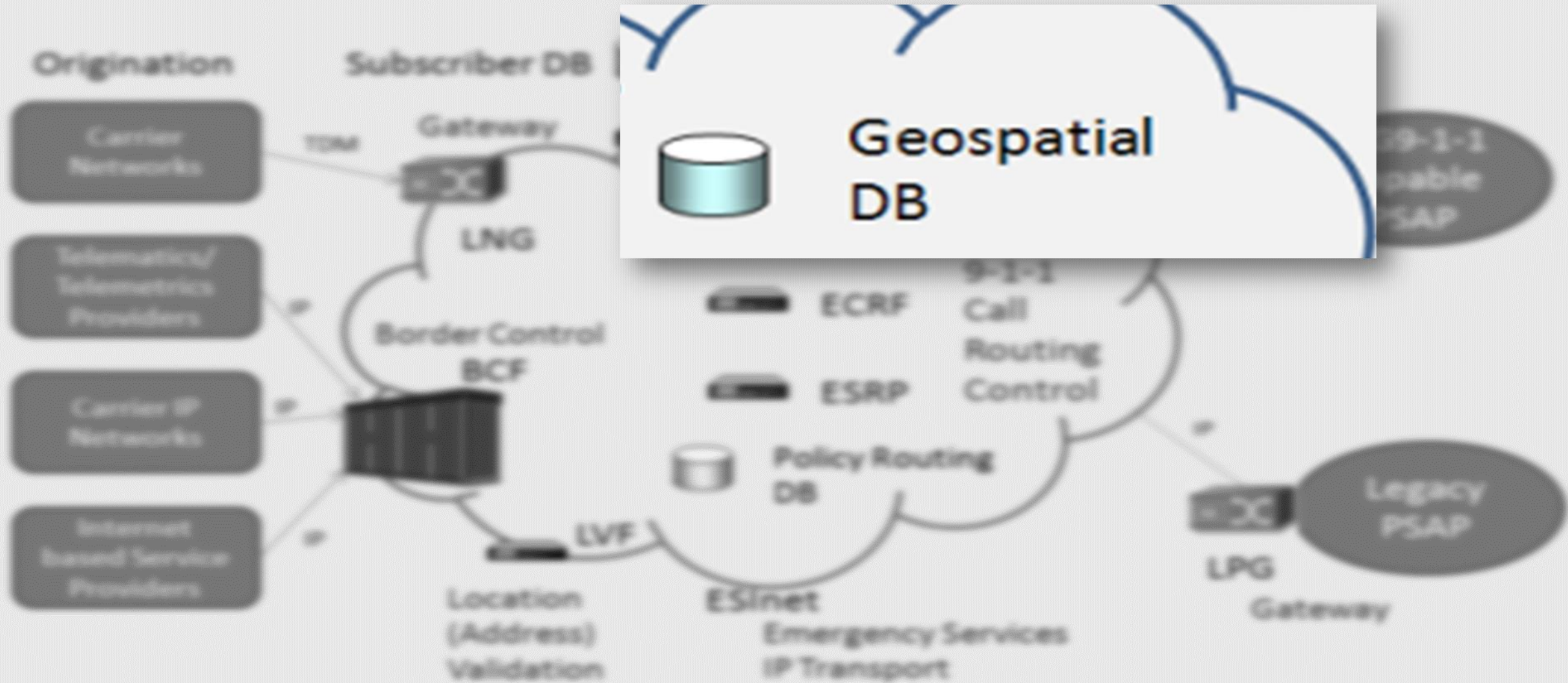
# NENA NG9-1-1 – i3 Elements

## Simplified Diagram



# NENA NG9-1-1 – i3 Elements

## Simplified Diagram





# HOW WE DO OUR GIS MATTERS



“Our standards are very high. We even have high double standards.”

- Data standards
- Addressing authority within counties
- Who makes the decisions?
- Who bends first?

# AERIAL IMAGERY





# GIS DATA SHARING COULD NET \$15M FOR STATE



## **GIS efforts net \$15M for state, municipalities & counties**

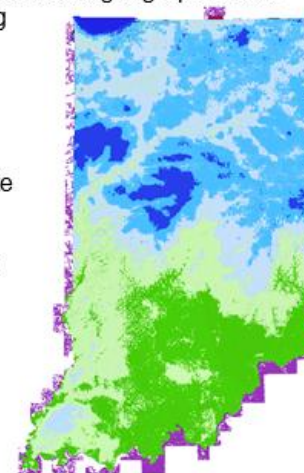
Each decade the United States conducts a census and the next one will be taken in 2020. With more than 300 million people counted, there is a lot of preparation work to be completed. The Geographic Information Systems (GIS) Office, which facilitates the development, maintenance, distribution, and use of comprehensive statewide geographic data and geospatial technology, helps coordinate the State's data collection efforts in preparing for the census.

This year one of the milestones of the census process is the calculation of the Local Update of Census Addresses (LUCA), which is the only opportunity offered to state and local governments to review and adjust the U.S. Census Bureau's residential address list prior to the 2020 Census. This is an important process because an accurate count helps the federal government allocate more than \$675 billion across 26 federal agencies for state and local government programs.

The Indiana Business Research Center (IBRC) is the Governor's designee to coordinate the LUCA effort for Indiana. The IBRC utilized the state's GIS and parcel data and worked with local governments to ensure there was an accurate count of all addresses within Indiana. Through the review of federal records, the IBRC was able to identify many more addresses within the state, meaning Indiana and local governments would be eligible for additional federal funding after the census.

The early estimates show that Indiana communities may receive nearly \$15 million in additional federal funding because of the capture of all the new addresses.

Learn more about GIS at [www.IN.gov/GIS](http://www.IN.gov/GIS).



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