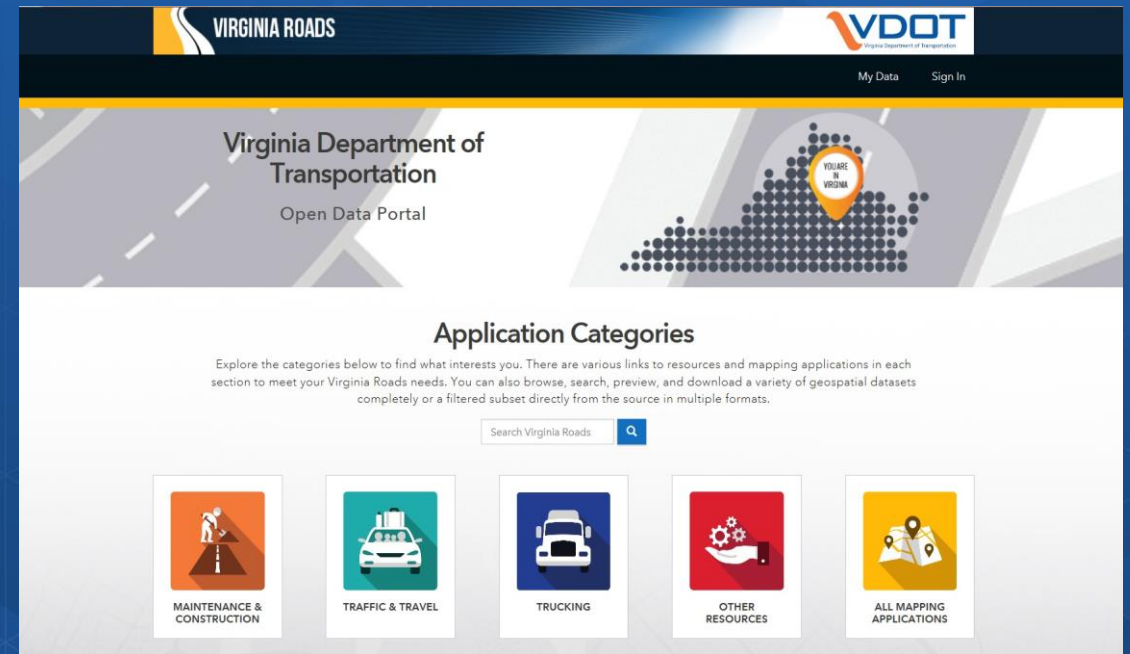




Esri Departments of Transportation Webinar Series

ArcGIS as a System of Engagement

ArcGIS as a System of Engagement



Terry Bills, Esri
Keith King, Esri

Data Driven Decisions

The four stages to becoming a data-centric organization

Many government agencies *want* to use data to improve their resource decisions, but may lack a clear roadmap for doing so. Our research shows that most agencies that transform themselves into data-centric organizations go through four stages. We call this the *mission analytics journey* (figure 4).

Figure 4. The mission analytics journey



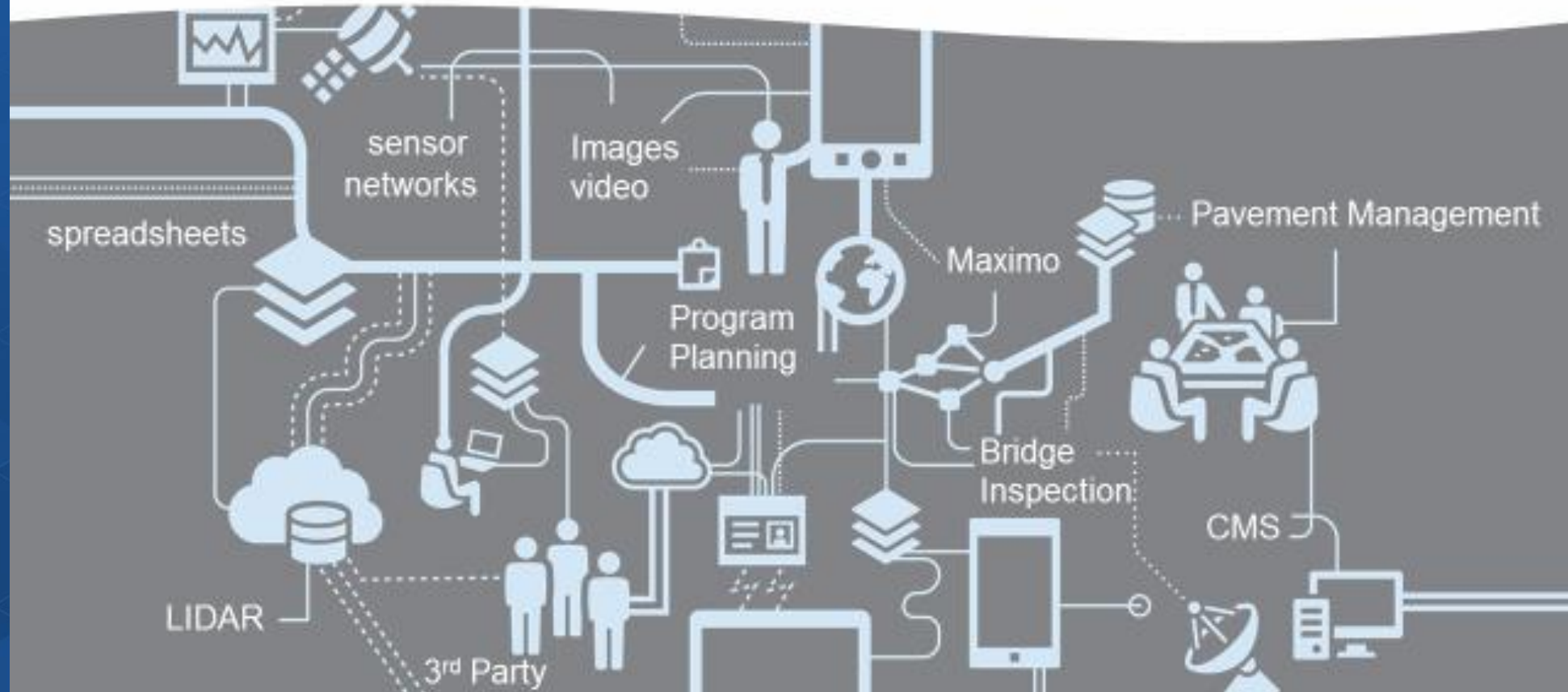
Source: Deloitte analysis.

Graphic: Deloitte University Press | DUPress.com

System of Record

GIS establishes a “System of Record”

▶ Integrate, display, analyze, and enrich information from many sources



System of Record

UDOT DATA PORTAL Sign In

UDOT Data Portal

This portal provides access to UDOT data. Data layers are available to view and download. Data is discoverable by searching a keyword or browsing by category. Applications are available for exploring many of UDOT's current and authoritative datasets.

Search our catalog:

[UDOT Home](#) [Utah AGRC](#) [Utah Data](#) [US Open Data](#) [Data Request](#) [Work Request](#) [Feedback](#)

Browse Data By Category

- ASSETS
- MAINTENANCE
- PLANNING
- PROJECTS
- TRAFFIC & SAFETY
- REFERENCE

Virginia Department of Transportation Open Data Portal

Application Categories

Explore the categories below to find what interests you. There are various links to resources and mapping applications in each section to meet your Virginia Roads needs. You can also browse, search, preview, and download a variety of geospatial datasets completely or a filtered subset directly from the source in multiple formats.

Search Virginia Roads:

- MAINTENANCE & CONSTRUCTION
- TRAFFIC & TRAVEL
- TRUCKING
- OTHER RESOURCES
- ALL MAPPING APPLICATIONS

[Explore Spatial Datasets](#)

IOWA DOT OPEN DATA

MANAGING IOWA'S TRANSPORTATION INFRASTRUCTURE

Sign In

Search for data:

Welcome to the Iowa Department of Transportation's public platform for exploring and downloading open data. The Iowa DOT is committed to providing the traveling public, lawmakers and partners with easy to understand information that demonstrates how we are managing the state's transportation infrastructure. We are working hard to maximize the performance of our existing structures, minimize costs and improve the public's experience when traveling in Iowa. We are continuously developing new tools to help our stakeholders clearly see how we are performing.

Normalized Criteria Values	
PCT	8
RII	7
Efficiency Rating	10
Passenger Traffic	10
Passenger Miles Traveled	10
Construction Spend	8
Operating Spend	8
Operating Revenue	8
Operating Expenses	8
Operating Income	8
Operating Margin	8

IOWA DOT OPEN DATA

Sign In

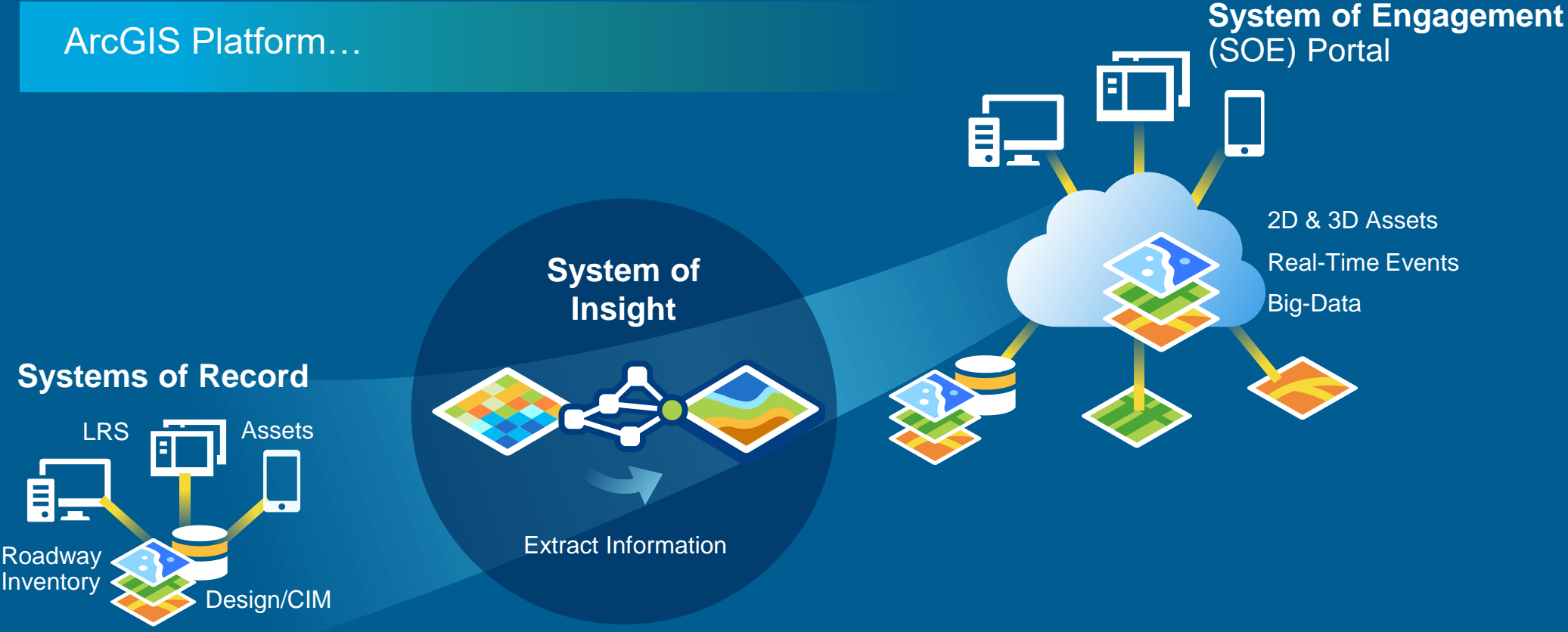
EXPLORE DATA CATEGORIES

- OPERATIONS**
View real-time data from our snowplow fleet, ITS devices (cameras and message signs), 511 events, surface/pavement, and more. Data in this category is updated at least once per day.
- CRASH**
Explore city and county crashes, intersection listings, and vehicle/person crash data.
- BOUNDARY AND REFERENCE**
View right of way data, LRS routes, district boundaries, and more.
- CLASSIFICATIONS**
Includes data that is broken down and displayed by specific classifications such as right of way and rest areas, and data maintained inside the Roadway Asset Management System (RAMS).
- IMPROVEMENT**
View data on assets that have been
- INVENTORY**
Includes data for assets that are
- AVIATION**
View runways, heliports, approach
- TRANSIT**
Includes regional transit areas and

Road Map

Transportation Practice

ArcGIS Platform...



System of Engagement

Freight Planning & Operations Map Series

Map series for freight planning and operations.

Search maps

Utah is the Crossroads of the West for freight. As a strategic hub for highway, railroad and pipeline networks, Utah is home to one of North America's largest concentrations of distribution warehouses. Utah also has the highest percentage of large truck traffic of all 50 states. UDOT's Freight Planning efforts focus on monitoring freight distribution through Utah, and determining needed improvements to maintain this vital segment of Utah's, and America's, economy.

Freight Fact Sheets:

- Coal Transportation
- Geography and Freight
- I-15 Truck Parking Facts
- Intermodal Freight
- Passing Lanes
- Pipelines
- Refrigerated Freight

VIRGINIA ROADS

MAINTENANCE & CONSTRUCTION

Make a selection to continue your experience. Links will take you to an external website away from Virginia Roads and Apps will launch Virginia Roads-hosted mapping applications. These Apps contain data that you can interact with and download.

Search maps

Sort by: Date | Title | Type | Settings | Avg. Rating | Comments | Views

- 2017 Pavement Project Status Application**
Web Mapping Application to 2017. Last Modified: May 2, 2017.
Application used to display the status of pavement projects across the Commonwealth of Virginia. Project status is tracked on a by project basis and color coded to indicate project status.
URL: [https://roads.virginia.gov/2017-Pavement-Project-Status](#)
- Pavement Condition Application**
Web Mapping Application to 2017. Last Modified: Apr 30, 2017.
Application used to display the condition of pavement on VDOT maintained roads. The pavement condition of a secondary road is generally every five years. The pavement condition is symbolized as: Excellent, Good, Fair, Poor, Very Poor, and Not Rated.
URL: [https://roads.virginia.gov/Pavement-Condition](#)
- Virginia Roads Projects Application**
Web Mapping Application to 2017. Last Modified: May 2, 2017.
Application used to display transportation projects across the Commonwealth for the next six years.
URL: [https://roads.virginia.gov/Virginia-Roads-Projects](#)

Traffic and Safety

This gallery contains maps, apps, and data specific to UDOT's Traffic and Safety Division.

Search maps

All activities and programs led by the Traffic & Safety Division share one ultimate objective – to improve safety. The division is responsible for overseeing the research and programs that help improve transportation safety statewide. These responsibilities include safety improvement programs for work zones, school zones, traffic signals, and pedestrians. Traffic & Safety personnel also supervise studies that determine the causes of crashes and other traffic hazards as well as discuss how these dangers can be minimized.

This gallery contains maps, apps, data, and information specific to UDOT's Traffic and Safety Division.

System of Engagement

LOS ANGELES 311

DATA L.A.

Data Catalog Developer Resources News & Updates My Activity

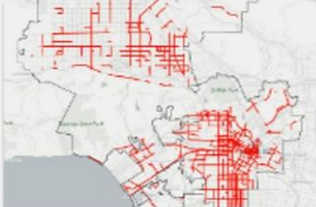
Los Angeles GeoHub

LA Metro Bus Routes

This screenshot shows the desktop version of the Los Angeles GeoHub website. The header includes the city logo, the number 311, and navigation links for Data Catalog, Developer Resources, News & Updates, and My Activity. The main content area features a map of Los Angeles with a semi-transparent blue box overlaid that reads "Los Angeles GeoHub". A legend for "LA Metro Bus Routes" is visible on the map.


LOS ANGELES 311

Vision Zero Maps & Applications

- 


High Injury Network

This Story Map explores the High Injury Network in relation to health outcomes and other ongoing strategic planning efforts.

[Open](#) [Details](#)
- 

Vision Zero: A Data-Driven Approach

A walk through of Los Angeles' data-driven approach to Vision Zero.

[Open](#) [Details](#)
- 

Vision Zero Los Angeles

The plan to eliminate traffic fatalities in the City of Los Angeles by 2025.

[Open](#) [Details](#)

This screenshot shows the mobile version of the Vision Zero Maps & Applications page. The header includes the city logo, the number 311, and navigation icons. The page title is "Vision Zero Maps & Applications". Below the title are three map thumbnails, each with a title, a short description, and "Open" and "Details" buttons.

System of Engagement Resources

- <http://go.esri.com/projectplanning-paper>
- <https://blogs.esri.com/esri/arcgis/2018/03/21/gis-more-than-a-system-of-record/>
- <https://blogs.esri.com/esri/arcgis/2017/04/19/three-themes-of-arcgis-enterprise-10-5/>

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