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The proposed Unified Roadway Data Model (URDM) for Colorado builds upon CDOT's Highway Users Tax Fund (HUTF) data collection processes and tools to meet reporting requirements of the Federal Highway Administration (FHWA) for the Highway Performance Monitoring System (HPMS), while also recognizing the need to satisfy other safety and non-transportation roadway data requirements in the state, such as those of the Colorado Department of Public Safety (CDPS). The Governor's Office of Information Technology (OIT) is providing coordination and data management support for the unified road layer, working in close collaboration with CDOT and CDPS. The URDM is intended to accommodate the best available road data from multiple sources, which needs additional value-added processing in order to satisfy the needs of all data consumers and use cases. This presentation will describe the functional use cases that were used to design the logical data model, including: (1) Basemap Creation and Simple Cartography; (2) Spatial Analysis; (3) Linear Referencing; (4) Addressing and Geolocation; and (5) Routing and Response.

Bio(s):

Mr. Grady's 30 year career includes GIS strategic planning, application and data projects for federal and state government, including US DOT, Colorado DOT, and emergency management, defense, broadband, GIS, IT and homeland security agencies.

Mr. Johnson has served 12 years at CDOT in positions of increasing responsibility, and is currently focused on budget, strategic management, and operations as Manager of the GIS Data Management Section. He holds an MS in Management from CSU.