

OnTheMap for Emergency Management: Technical Overview

Local Employment Dynamics

OnTheMap for Emergency Management is a public data tool that provides an intuitive web-based interface for viewing the potential effects of disasters on the U.S. workforce and population. Users can easily retrieve reports containing detailed workforce, population, and housing characteristics for hurricanes, floods, wildfires, winter storms, and federal disaster declaration areas.

To provide users this information for rapidly changing hazard event areas, OnTheMap for Emergency Management automatically incorporates real time data updates from the National Weather Service's (NWS) National Hurricane Center, Department of Interior (DOI), Department of Agriculture (DOA), and the Federal Emergency Management Agency (FEMA).

- **Real Time Data Updates-**
Hurricanes, Floods,
Wildfires, & Winter Storms.

- **Comprehensive Demographics-** Detailed population, social, economic, housing characteristics from the Decennial Census and ACS.

- **Detailed Workforce Data-** Detailed characteristics about the affected workforce from LODES.

- **Flexible Analyses & Visualizations-** Examine regional or local impacts and make comparative analyses.

- **Historical Event Archive-** Quickly locate and analyze past disaster events.

- **Interoperability-** Share maps and reports and export data and event boundaries for use in other applications.

- **Intuitive Dashboard Interface-** Integrated interactive reports, maps, and charts with easy-to-use controls.

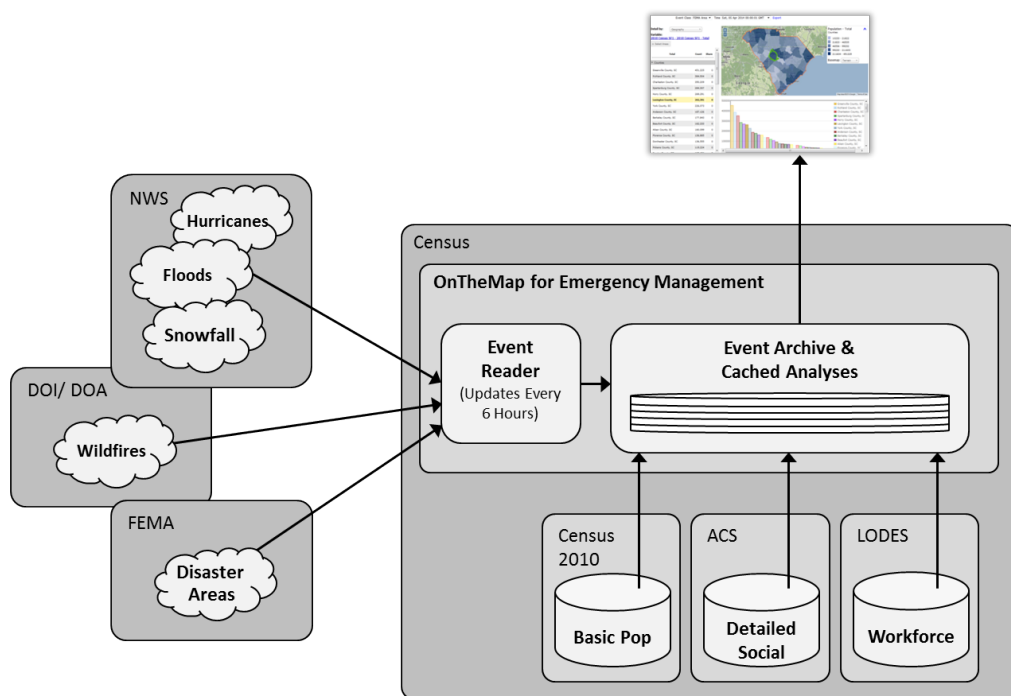


Diagram depicts a conceptual overview of OnTheMap for Emergency Management's application and data architecture. The system utilizes Services Oriented Architectures (SOA) and approaches to achieving data integration and scalability requirements. The application and environment rely on a combination of COTS Open Source software technologies.

OnTheMap for Emergency Management is supported by the state Labor Market Information agencies under the Local Employment Dynamics (LED) partnership with the U.S. Census Bureau. The tool can be accessed directly via <https://onthemap.ces.census.gov/em.html>. Please send questions or comments to CES.OnTheMap.Feedback@census.gov.