

New Mexico Environment Department

Woolpert has developed a Continuous Change Detection Platform that monitors key water indicators, such as soil moisture, vegetation health, and temperature. The system finds anomalies, many of which will not be apparent to human observers.

The challenge

In some New Mexican water systems, 40% to 70% of treated water is lost from leaks, primarily due to aging infrastructure. These leaks are often extremely difficult to locate and fix, especially in small, rural communities with limited staffing and resources.

The solution

Hydro Delta, a new initiative, utilizes Woolpert services, Google Earth Engine, and cloud AI technology is helping improve the overall sustainability and quality of the state's water systems. Hydro Delta plays a crucial role informing the inspection strategies for leaking systems, and will minimize cost and search times.

The result

NMED and its partners envision Hydro Delta as a catalyst for identifying and solving New Mexico's water leak issues, and a blueprint for water security and sustainability solutions across the nation. NMED estimates it will save New Mexican water systems up to \$154 million. The Hydro Delta project advances Gov. Michelle Lujan Grisham's 50 Year Water Action Plan.

“Hydro Delta is a game-changer for New Mexico's drinking water, especially those systems serving rural New Mexicans. Thanks to the guidance of Gov. Michelle Lujan Grisham's 50-Year Water Action Plan, our state is taking the lead in protecting our most precious resource in the face of climate impacts that threaten our water security.”

James Kenney, Environment Secretary, State of New Mexico



About NMED

The New Mexico Environment Department was created by the 40th New Mexico Legislature in 1991 under the “Department of Environment Act” (Chapter 25). As a regulatory agency, NMED enforces state regulations and federal laws relating to protection of the environment, resources, and public health and safety.

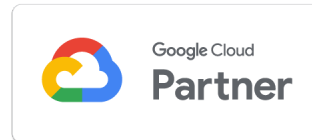
Vertical/horizontal solution: Government

Primary project location: United States



About Woolpert, Inc.

Woolpert Digital Innovations accelerates digital transformation. We help modernize applications, optimize workflows, and unlock location insights.



Products

Google Cloud Platform

Google Maps Platform