HydroWeb

TETRA TECH

Creating smart water dashboards for data driven decisions

complex world | CLEAR SOLUTIONS™

Keep Afloat of Big Data with Hydroweb

Water professionals and infrastructure operators collect data from many different sources and often feel flooded with information. Extracting clear insights and decision-making intelligence can sometimes be a challenging and time-consuming task. HydroWeb solves these challenges by automating the data collection process from different sources and drives the information into a central and intuitive web interface. By providing visualization tools such as GIS, time series charts, schema views and dashboards, HydroWeb allows water professionals to focus on decision making, rather than the collection and management of data. Decision support dashboards are accessible on a computer or through mobile and tablet-friendly interfaces.
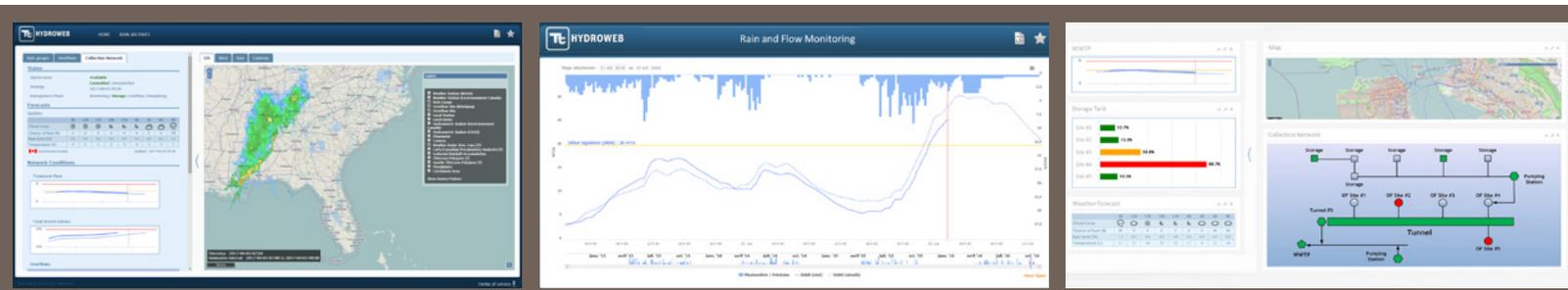
Hydroweb provides an intuitive web platform to collect, analyze and manage water systems data, gain insights, and make smart decisions.

- **Dashboards**—monitor rain, levels, flow and pressure on a visual interface
- **Optimization**—increase efficiency and performance for management, engineering, operations and maintenance in the field
- **Decision support**—track Key Performance Indicators (KPIs) for clear decision support
- **Reporting**—generate automatic reports for regulatory compliance

HydroWeb On-Boarding Approach

Discovery: In close collaboration with you, we will learn about your water systems management needs and priorities in order to customize the application and maximize your work process efficiency.

Configuration and customization: HydroWeb is adapted to deliver a robust and scalable tool that will give you the autonomy and freedom to manage your water systems data. New functionalities and dashboards can be added to suit your requirements.

Go-live and gain insights: Our step-by-step deployment provides quick feedback and enhances the HydroWeb experience. As your goals and objectives evolve over time, the solution adapts to provide tools for continuous improvement.

Engineering and support: Tetra Tech provides responsible resource management and sustainable infrastructure services that encompass the full life cycle of solutions. We use our broad base of expert resources to dedicate ourselves to our clients' needs, offering innovative and cost effective solutions to complex problems.
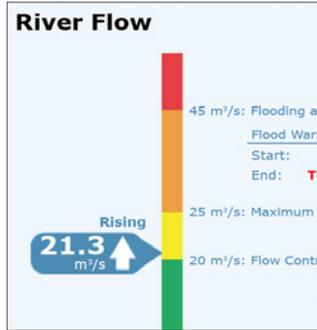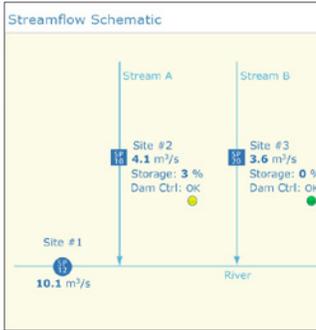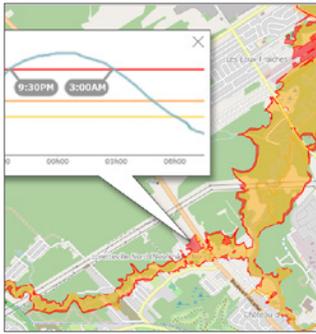
Hydroweb Key Features

- Automatic data collection from your SCADA and RTU systems in the field
- Import data from any csv, xml, or text files
- Exploit your data stored in historian tools such as PI OSISoft and Proficy Hystorian
- Multiple GIS layers from both public and private data sources displayed on web maps
- Automatic Key Performance Indicator calculations and views of the latest updates on the dashboard
- Automatic rainfall analysis, event detection, rain distribution, and return period calculation
- Email or SMS warnings and alerts for flood risk and other time-sensitive situations
- Live webcam surveillance

HydroWeb Applications

Climate and Rainfall
- Live updates and integrated graphic display of radar images, rain gauges, Thiessen polygons and Isohyetal, network status and video feeds
- Automated analysis of rainfall return periods and other data analytics
  — *Reduces engineering time and provides information for insurance claims*
- Real time hydrologic and hydraulic model simulation for flow prediction and flood probability
  — *Allows early warnings of flood risk for civil security*
- GIS display of measuring instrument locations
  — *Provides easy access to data on a point-and-click interface*

Water Systems
- Dashboards for KPIs and network schematic views
  — *provide operational decision support to improve system performance and O&M efficiency*
- Time series data management for level, flow, equipment status, ground and surface water
  — *Delivers insights on water system trends*
- Drinking water system live monitoring
  — *Allows the detection of leaks and abnormal consumption by sector and industry*
- Automated overflow reporting
  — *Provides efficient regulatory compliance*

"Tetra Tech has worked closely with our staff and City operator in meeting our objectives. We rely on their great knowledge of wet weather solutions as well as excellent resources to provide objective, well thought-through recommendations which they then helped implement."

Bryan Lennon, Assistant Water Division Director, Public Works, City of Wilmington, DE

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Tetra Tech's innovative, sustainable solutions help our clients address their water, environment, infrastructure, resource management, energy, and international development challenges. We are proud to be home to leading technical experts in every sector and to use that expertise throughout the project life cycle. Our commitment to safety is ingrained in our culture and at the forefront of every project. We combine the resources of a global, multibillion dollar company with local, client-focused delivery. **tetratech.com**