

Vermont Culverts Web Application

STONE
ENVIRONMENTAL
100% EMPLOYEE-OWNED

Services / Expertise

Geospatial and Data Solution
Web Application Development
ArcGIS Online
ArcGIS Hub Premium
ArcGIS Web App Builder
ArcGIS Dashboards
ArcGIS Field Maps

Markets

State Government
Local and Regional Planning

Project Location

Vermont—Statewide

Date Completed

2021–Present

Project Owner

Chittenden County Regional Planning
Commission

Project Manager

Paige Gebhardt, GISP
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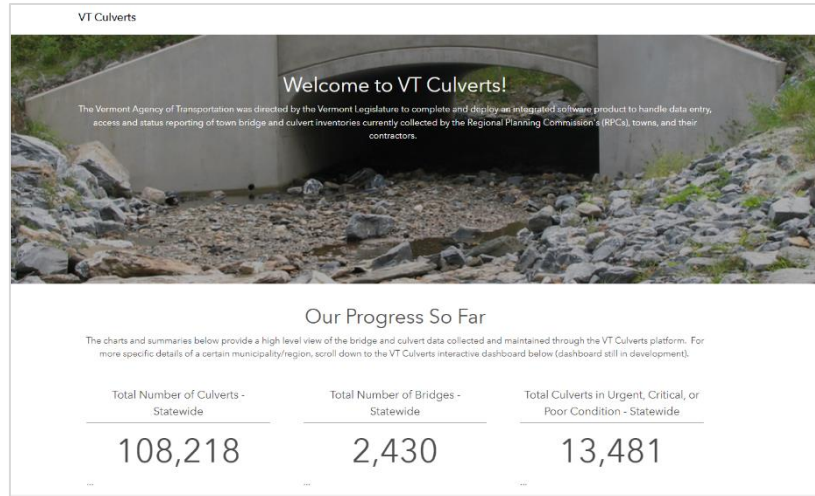
Link to Online Application

<https://www.vtculverts.org>

Awards & Recognition



2022 Special Achievement
in GIS Award, Esri



View of the home page for the VT Culverts Hub site, which includes a few high-level summary statistics.

VERMONT'S CULVERTS AND BRIDGES are essential to the state's transportation system and water quality. Regular maintenance and an overall understanding of the condition of these assets are critical for maintaining transportation resiliency and improving water quality. Vermont's Better Roads and Municipal Roads General Permit programs set standards for regular inspection and maintenance of municipal and state-owned culvert and bridge structures. Vermont's 11 regional planning commissions, which oversee this process, required a solution that encouraged collaboration while meeting each commission's unique needs as they coordinate compliance efforts of 251 towns and cities. The Chittenden County Regional Planning Commission (CCRPC) enlisted Stone to convert the existing VT Culverts website into an Esri-based solution that utilizes the ArcGIS Hub, Experience Builder, Dashboards, and Field Maps to complete and track state-mandated culvert inspections. This multi-faceted approach created a user-friendly interface for both stakeholders and the public.

Combining ArcGIS Online solutions with ArcGIS Hub Premium, Stone worked with the CCRPC and members from other regional planning commissions to recreate and improve the application within a standardized platform that provides ease of access and updated capabilities for anyone regardless of web development experience. ArcGIS Hub Premium provides users with editing capabilities, gives each town or regional planning commission a higher level of access than the public-facing Hub site and applications, and helps commissions collaborate on current and future initiatives. The platform helps break down information silos between local, regional, and state planners and provides transparency into the culvert inspections. For the VT Culverts application, Hub Premium offers access to essential datasets, web maps, and tools for regional planning, municipalities, and those collecting culvert and bridge inspection



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data. Check out the Hub site and public applications here: <https://www.vtculverts.org>.

In 2022, the project received the Special Achievement in GIS (SAG) Award from Esri. Paige Gebhardt, GISP, from Stone, and Pam Brangan, from the CCRPC, made a presentation on the project at the 2022 Esri User Conference in San Diego, California.

