

The New York Geographic Information Gateway

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Services / Expertise

ArcGIS Online
ArcGIS Story Maps
Web AppBuilder for ArcGIS
ArcGIS Experience Builder
Customization
Web Hosting

Markets

State Government
Climate Resilience
Regional & Statewide Planning
Infrastructure Risk Assessment
Policy Development

Project Location

State of New York

Date Completed

2013–Present

Project Owner

New York Department of State, Office of
Planning, Development and Community
Infrastructure (OPDCI)

Project Team

Nick Floersch (Project Manager), Barbara
Patterson, Paige Gebhardt, GISP, Mary Haley

Awards & Recognition



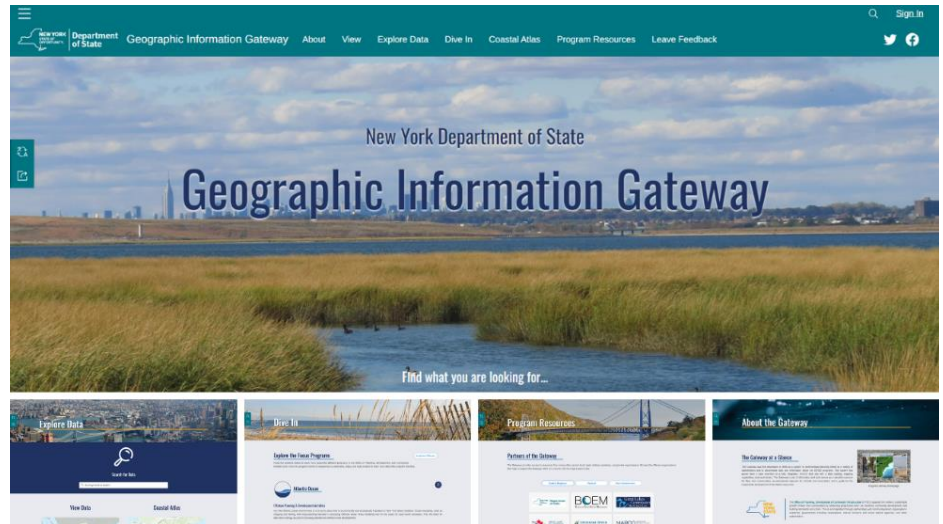
**2017 NY GIS Association GIS
Application Award**



**Special Achievement in GIS
2016 Award Winner**



**Exemplary Systems in Government
Distinguished System 2017 Award**



The New York Geographic Information Gateway serves as a public communication tool, offering access to over 700 datasets and information about OPD's programs, including climate change & resilience planning activities.

SINCE 2005, Stone has collaborated with the New York Department of State, Office of Planning, Development & Community Infrastructure (OPDCI), formerly known as the Office of Planning and Development, to establish an effective system for distributing program data and communicating planning initiatives to a diverse range of stakeholders. Over the years, the New York Geographic Information Gateway has evolved from a simple data inventory to a fully integrated web-based mapping system with a data catalog, mapping tools, stories, and other features. The Gateway hosts over seven hundred datasets for planning activities and as a communication tool for the public.

In 2022, Stone began a two-year project to migrate the Gateway to ArcGIS Hub, which is more secure, easier to maintain, and frequently updated to meet diverse needs. The Hub site was launched in April 2023, and the team continues to add functionality. The ArcGIS Hub platform includes all existing functionality of the current Gateway, and new tools and technology allow New Yorkers to explore data relevant to their community's growth and development, recreational opportunities, immersive learning experiences, resources connecting state and national planning efforts, and unique and approachable mapping tools.

Data was hosted and managed on Amazon Web Services infrastructure. Stone migrated over 700 datasets and associated metadata to ArcGIS Online using Python and ArcGIS Notebooks. Stone introduced Web AppBuilder and ArcGIS Experience Builder as replacements for the old website's outdated tools. Since Esri's out-of-the-box tools could not perform all the functions of the old Gateway, Stone customized ArcGIS Experience Builder widgets.



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In its current and future form, the Gateway serves as a “one-stop, state-of-the-art website to find data, information, tools, and expert knowledge relevant to New York’s existing uses and resources.” The Gateway website allows users to view datasets related to OPDCI’s programs, including the Ocean & Great Lakes Program, among five others. The full site includes functionality to browse, search, download, and view datasets. Users can explore data through the web map viewer, add datasets to their own web maps, or review metadata. There is also extensive information on the various programs at the OPDCI presented as ArcGIS Story Maps.

The Gateway development process began in 2013, with a visioning session to more fully understand the purpose of the application. The visioning session involved program managers, data developers, and professionals within the OPDCI and incorporated exercises to capture the full breadth of potential scope. Following the visioning session, we worked with the OPDCI and various stakeholders to collect “user stories” to understand specific functionality that may be needed to realize the vision.



The original DOS Risk Area Story illustrating how extreme weather events may impact coastal communities and what the Office of Planning and Development is doing to improve resilience in these areas.

Story mapping is an integral part of the Gateway website so that the OPDCI can convey how data can inform decision-making and planning processes (<https://new-york-opd-geographic-information-gateway-nysdos.hub.arcgis.com/apps/8174c66ee307450fa392756a9918c46d/explore>). One example is a story about how geospatial data can be used to understand the risks communities may face during extreme weather events and how they can implement resilience planning in their area. This story has been updated from its original release. It includes interactive maps, infographics, images, and videos to illustrate issues such as sea-level rise, flood impacts, and susceptible natural shoreline features. The story also highlights solutions and how the OPDCI works with communities to improve resilience to extreme events.

The Gateway site has been developed with the client in mind. The site’s various elements, such as stories, metadata, and data records, can be added and configured by administrative users at OPDCI. Additionally, partnerships are in place so that data from outside agencies can be accessed through the Gateway and vice versa. Partners include the New York State ITS GIS Program Office (GPO) and the National Oceanic and Atmospheric Administration (NOAA). The New York Geographic Information Gateway received the GIS Spatial Application Award from the New York GIS Association in 2023, the URISA Exemplary Systems in Government Distinguished System 2017 award, 2017 NY GIS Association GIS Application Award, and the 2016 Esri Special Achievement in GIS award. In addition, the Gateway’s DOS Coastal Risk Areas map was selected for publication within Esri’s Map Book (Volume 33).

Link to Online Application

<https://new-york-opd-geographic-information-gateway-nysdos.hub.arcgis.com/>

