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H<sub>2</sub>O Map

H<sub>2</sub>O Map: Innovative learning by hydraulic heritage mapping

# E-LEARNING COURSE FOR TEACHERS: *Innovative Educational Tools for Assessment of the Hydraulic Heritage with by ICT Tools.*

## PART I: GIS ON THE WEB

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# General Structure

## Module VIII: Web applications

- 8.1 Type of geographic applications
- 8.2 Creating an app according with the audiences
- 8.3 Basics concepts of storymaps



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# 8.1 TYPE OF GEOGRAPHIC APPLICATIONS

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You can create a web app with a map using a variety of app builders. You can choose an app template with minimal to no configuration required, use one of the available builders to customize an app before publishing, or use other platforms to create a website. Each of these options offers various functionality, such as query and edit tools, social media feeds, side-by-side map viewers, and layouts and color schemes.

When a published web app is based on a map, any changes made to the map, including its extent, layers, description, and so on, are reflected in the web app. If a map that was available to everyone in the organization is made private (or deleted), the map no longer appears in the app.



# 8.1 TYPE OF GEOGRAPHIC APPLICATIONS

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- **Configurable Apps Template:** ArcGIS Configurable Apps provides a suite of app templates that allow you to create web apps from maps, from scenes, and from groups without having to write code. By leveraging an app template and choosing a few options, you can offer your users a focused experience for interacting with your maps and data. Being clear about who your audience is and how they will use the app can help you select the best template to convey your intended message.
- **Dashboards:** A dashboard is a view of geographic information and data that allows you to monitor events, make decisions, inform others, and see trends. Dashboards are designed to display multiple visualizations that work together on a single screen. They offer a comprehensive view of your data and provide key insights for at-a-glance decision-making. Similar to web maps and web layers, dashboards are part of the ArcGIS geoinformation model. They are items within your organization that can be identified by their icon Dashboard when browsing and searching for content.



# 8.1 TYPE OF GEOGRAPHIC APPLICATIONS

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- **Web AppBuilder:** ArcGIS Web AppBuilder allows you to build web apps without writing any code. It includes tools to configure fully featured HTML apps, connect a 2D web map or a 3D web scene, widgets such as charts, tables, filters, and analysis. Customize the look, feel, and framework of your app by choosing a theme depending on the goal itself.
- **Storymaps:** ArcGIS StoryMaps is a story authoring web-based application that allows you to share your maps in the context of narrative text and other multimedia content. You can use ArcGIS StoryMaps to publish and share your stories. In addition, published stories each have their own URL, and you can use these URLs to share your stories within your organization, to specific groups, or with everyone.



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## 8.2 CREATING AN APP ACCORDING WITH THE AUDIENCES

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The theme of a web application can help drastically change the emotions your reader may feel while reading. In the use of storymaps, it demonstrates how stories can be just as impactful, if not more so, when they contain less text and more graphics to emphasize their message. There is no question that maps are a central part of the storymap experience. But knowing how to direct the presentation of those maps and adjust what they will show will help take your stories to the next level. Map actions allow your readers to control what the map displays and elevate them from passive to interactive readers. Map actions engage your readers and reward their curiosity, for example, by allowing them to turn layers on and off to reveal additional map details. Map actions can also be configured to allow readers to change the extent of the map, such as by clicking a button and zooming in on a city or moving to a different country.



# 8.3 BASICS CONCEPTS OF STORYMAPS

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In July 2019, Esri launched ArcGIS StoryMaps —a new, modern platform for telling stories with maps. This means everyone in the Esri community has access to two storytelling tools:

- The current-generation platform, ArcGIS StoryMaps
- The classic Esri Story Maps templates (now in extended support)

One major advantage of ArcGIS StoryMaps is flexibility. Since there is a single-story builder, you can for example, combine several type of elements in the same story or drop a tour in the middle of a scrolling. Thus, you are not limited to one layout, so you can mix 'n' match your favorite classic storytelling patterns in new and creative ways.

On top of the flexibility of combining story patterns, ArcGIS StoryMaps have many new features never before available in Esri's storytelling tools. These include a theme builder , autosave, timelines, the ability to duplicate a story or make private changes to stories you have already published, enhanced performance, previews of how your story will look on different devices, 3D map tours, and much more.



# ONLINE SOURCES

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<https://www.esri.com/training/catalog/57630434851d31e02a43ef4d/creating-and-sharing-gis-content-using-arcgis-online/>

<https://doc.arcgis.com/en/arcgis-online/create-maps/choose-configurable-app.htm>

<https://doc.arcgis.com/en/arcgis-online/share-maps/share-apps.htm>

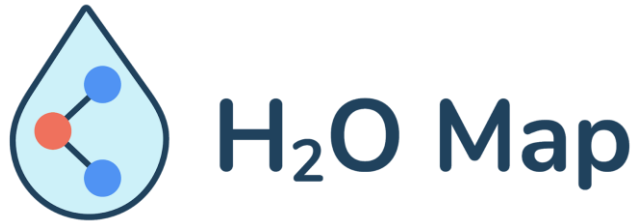


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