



Storytelling with Esri Story Maps

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Education GIS

Ways of Communicating with ArcGIS Online

- ❖ **Presentation Mode in ArcGIS Online**
- ❖ **Embedding maps in web pages.**
- ❖ **Multimedia via Map Notes.**
- ❖ **Web Mapping Applications, including Story Maps, multi-panel maps, and via other methods.**

Examples of Communicating with Storymaps

Why GIS In Education? This is an ArcGIS presentation that I have given:

❖ <http://www.arcgis.com/apps/presentation/index.html?webmap=6e06d858c1ea4888859c03494c9df6ad>

Converging Forces in GIS In Education: This is a story map that I have given as a presentation:

❖ <http://denverro.maps.arcgis.com/apps/MapJournal/?appid=b55fb50a2cef41b8908baa4c376088b8>

Story Maps

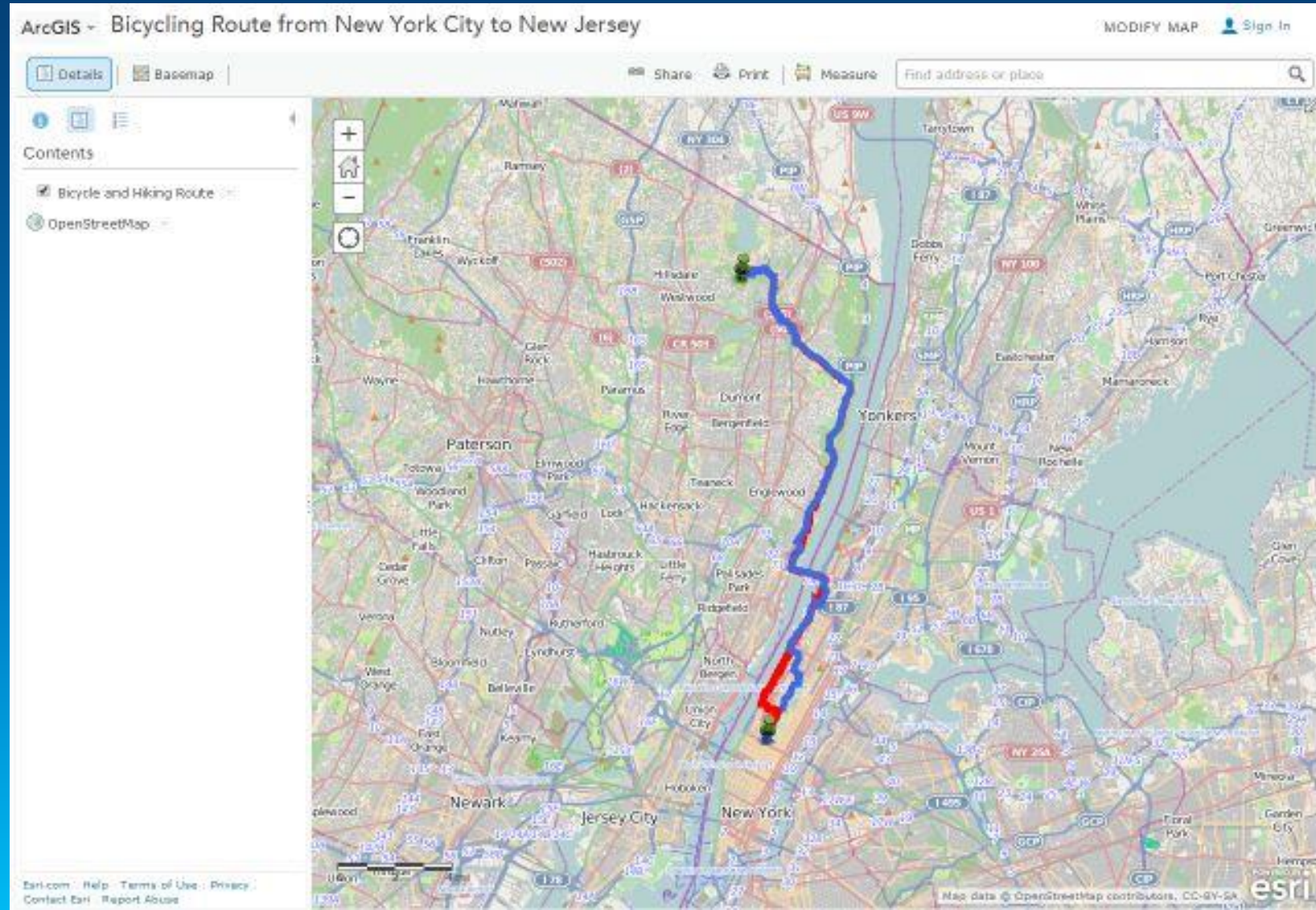
- ❖ Maps have been used to tell stories for thousands of years.
- ❖ Story maps are powerful and compelling.
- ❖ Story maps are easy to create.
- ❖ Story maps are accessible, multi-platform, and serve many purposes in education and beyond.

Story Maps

- ❖ Story maps provide good ways to teach content.
- ❖ Story maps provide good ways to teach GIS, data, computer, multimedia, and other technical skills.
- ❖ Story maps provide good ways to teach critical thinking, organizational skills, and other skills.
- ❖ Story maps provide good ways to assess student work.
- ❖ Story maps provide good ways for students to build skills in communications, and even art!
- ❖ Begin: <http://storymaps.arcgis.com>

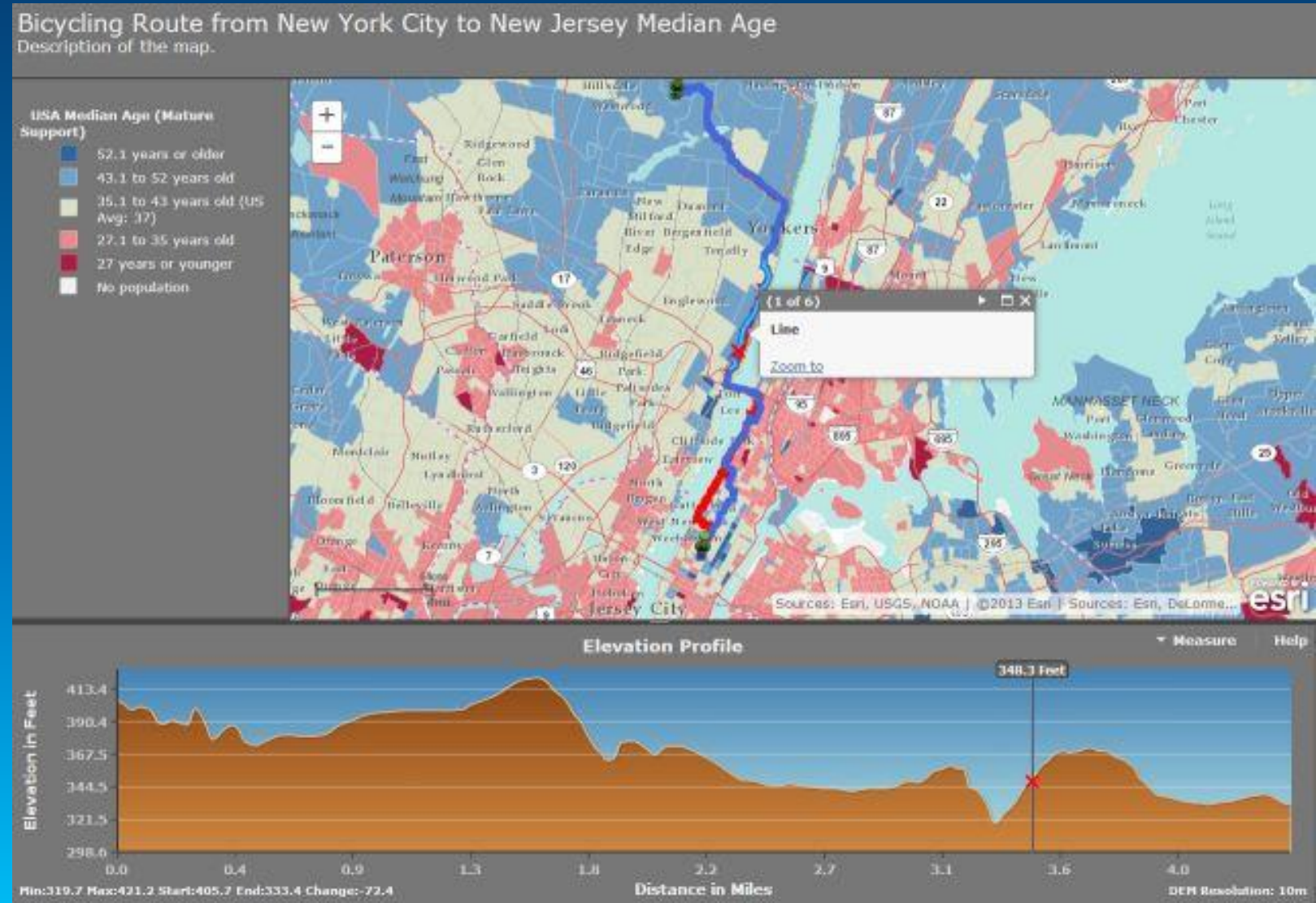
Maps vs. Applications: Maps

- A web **map** is stored in the ArcGIS Online cloud and contains the full interface and set of tools with which the map users can interact.
- At right is a web map for a bicycling route I took from New York City to New Jersey.



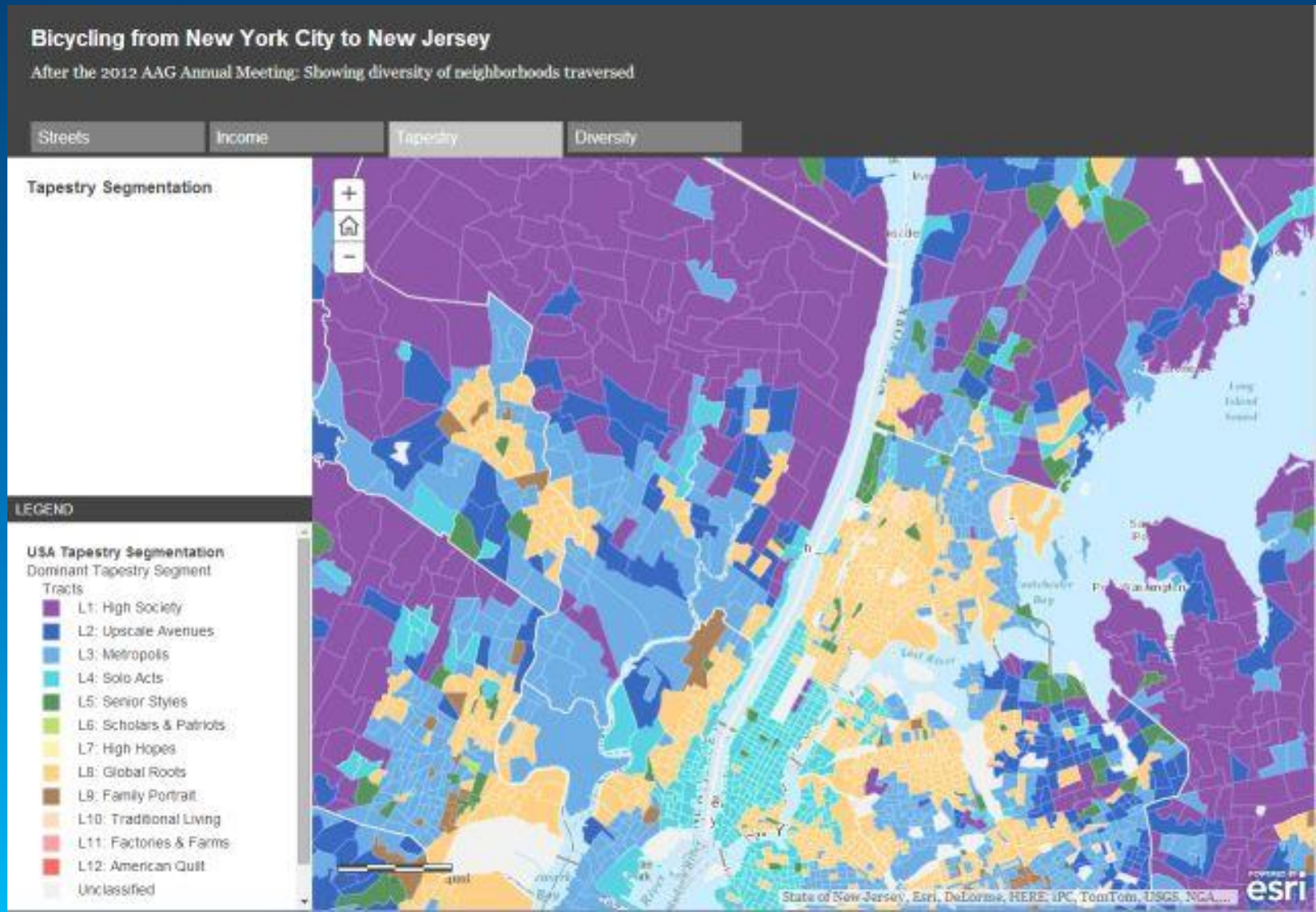
Maps vs. Applications: Applications

- A web mapping **application** is stored in the ArcGIS Online cloud as well, but contains a specialized or reduced set of tools for the map user to interact with.
- At right is a web mapping application for the same bicycling route I took from New York City to New Jersey.



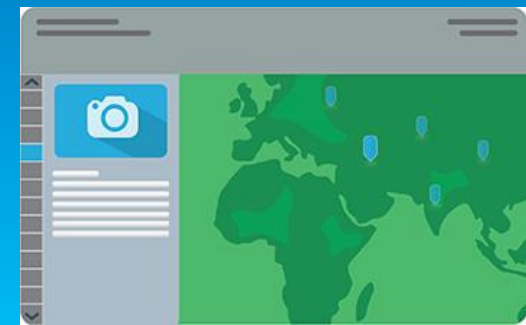
Maps vs. Applications: Story Maps are Applications!

- A story map is a type of mapping **application** that is stored in the ArcGIS Online cloud, and has a specific set of tabs, text, photographs, video, and audio capabilities presented to the map user.
- At right is a web story map application for the same bicycling route I took from New York City to New Jersey.



Major Types of Story Maps

- ❖ Story Map Tour
- ❖ Story Map Journal
- ❖ Story Map Shortlist
- ❖ Story Map Countdown
- ❖ Story Map Playlist
- ❖ Story Map Basic
- ❖ Story Map Series – Tabbed, Side Accordion, Bulleted'
- ❖ Story Map Swipe and Spyglass
- ❖ Custom



2 Main Ways to Create Story Maps

1. Publish ArcGIS Online map to a web application. Choose story map for the application type. These are stored on the Esri-hosted server.
2. Download and customize story map templates for your own use. Upload story maps and related files to your own server.

For both methods:

- Story maps are based on ArcGIS Online maps!
- If you change the map, the story map (and other) applications change as well!

3 Key Points about Story Maps

1. The story maps available for use in education are rapidly expanding.
2. The tools to create story maps are rapidly evolving and becoming more varied and easier to use.
3. Good planning makes for a good story map.

Method 1: Story Maps as Web Applications

- Upload and organize your multimedia: Photos and videos.
- Start with an existing map or new map.
- Share and publish to a web application.

Method 1: Story Maps as Web Applications: Examples 1 of 2

Titanic:

<http://storymaps.esri.com/stories/titanic/>

HJ Andrews Experimental Forest Dashboard with links to 100 + sensors

<http://esripm.maps.arcgis.com/apps/MapTour/index.html?appid=d3163266472c4e14946e16e2e5ca8353&webmap=d778f1a64cf3410c808f2ac57d023dd4>

BioBlitz 2015 Hawai'i Volcanoes:

<http://story.maps.arcgis.com/apps/MapJournal/?appid=45867f2ae46e4587afb8e7c7b343b9b8>

Anchorage Urban Bears

<http://www.adfg.alaska.gov/index.cfm%3Fadfg%3Dlivingwithbears.anchorageurbanbearsstorymap>

Method 1: Story Maps as Web Applications: Examples 2 of 2

Lakota Language Story Map:

<http://denverro.maps.arcgis.com/apps/MapTour/?appid=60ac74d36ae34ce181e88fbееeb56831>

Young Scholars:

<http://denverro.maps.arcgis.com/apps/MapTour/index.html?appid=a383612f79354488929beabcd266cd77>

International Perspectives on Teaching and Learning with GIS in Secondary Schools:

<http://denverro.maps.arcgis.com/apps/MapTour/?appid=5f86647b1e8e491aadaece6345927f2a>

The new Atlas for a Changing Planet storymap:

<http://storymaps.esri.com/stories/2015/atlas-for-a-changing-planet/>

Other examples on <http://www.josephkerski.com>

- Texas A&M University, Lost Detroit, Brugge Belgium



Hands-On Activities

1. Exploring Story Maps.
2. Creating a web map and a story map web application.
3. Creating a map tour story map.
4. Adding content to a map tour story map.
5. Using the downloadable story map templates: Demo.

Hands-on Activity 1: Exploring Story Maps

- Examine the story maps gallery:
- <http://storymaps.arcgis.com>
- 1. Browse the gallery and select one map that you like or find useful in education.
- 2. Discuss with your neighbor what you found interesting or useful about your chosen story map.

Hands-on Activity 2: Creating a web map and a story map web application.

1. Start new map.
2. Add layer from ArcGIS Online: **state_high_points owner:jjkerski**
3. Symbolize and classify differently; change layer name; create bookmarks.
4. Save map as ArcGIS Online map. Share map.
5. Share map again and this time, create web application: Storytelling Basic.

Hands-on Activity 3: Creating a web map and a story map web application.

1. Go to www.arcgis.com – ArcGIS Online.
2. Search for and open map: **USA Demographics for Schools v2**
3. Examine median age and median income.
4. Save map as ArcGIS Online map. Share map.
5. Share map again and this time, create web application: Storytelling Swipe. Use median age and median income as your 2 swipe layers.

Hands-on Activity 4: Creating a Map Tour Story Map

1. Go to <http://storymaps.arcgis.com> and “Browse the story map applications”
→ sequential based narratives → Build a Tour.
2. Images are on: Picasaweb/Google Plus under jkerski@esri.com in album: “A Walk To the San Diego Airport Geotagged.”
3. Add captions, title, subtitle, metadata. Save and share.
4. Examine settings, add, organize, import.

Hands-on Activity 5: Adding Content to a Map Tour Story Map

1. Change one of the tour points from a photograph to a video. Access the “tall masts” tour point. In a separate browser tab or window, access video: Star of India Ship, San Diego harbor, at:
<https://www.youtube.com/watch?v=Q2ZhfvfaD1g>
2. Share, Embed, copy source code URL. On map tour: Change media to video, paste URL. Make sure http:// appears at beginning of URL. Apply. Test.
3. Go to My Content. Open web map. Add Layer from File: GPX file. Symbolize. Save web map.
4. Open your story map app. Make sure GPX file has been added.

Method 2: Using the Downloadable Story Map Templates

- Examine templates and “how to” documents and videos.
- Describe how to download and modify templates to create Story Maps.
- Show examples of Story Map template:
- Brugge and West Flanders, Colorado History and Geography, and others on: <http://www.josephkerski.com/resources/web-maps/>



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Understanding our world.