

Public Private Partnership : Empowers Virtual Arctic Explorers



Pat Cummins, Esri

Elevation – explore, engage, compare

Alaska Revealed: High Resolution Elevation Data An Esri Story Map polar geospatial center

Introduction Digital Elevation Models Anchorage airport **Gulkana glacier** Koyukuk river Revealing the hidden landscape

The Gulkana glacier and river valley region is one of three long-term U.S. Geological Survey glacial monitoring sites. These new digital elevation model images will help anticipate future landscape-level changes, due to, for instance, erosion, extreme events, or climate change.

Key to the success of the ArcticDEM project is the use of optical satellite imagery. By using an orbiting sensor, stereo imagery is collected across the entire arctic - regardless of location.

This strategy also enables remote areas to be re-imaged in the future and compared to a circum-arctic elevation baseline that will be available by the end of the term of the

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Models Anchorage airport Gulkana glacier **Koyukuk river** Revealing the hidden landscape

Use the swipe bar to reveal how the new data exposes features that are invisible when viewing the older elevation data.

The winding Koyukuk river in western Alaska is a 425 mile-long tributary of the Yukon river. The digital elevation models show the unique boreal forest vegetation patterns that surround the river region in greater detail than ever before, bringing the unique Arctic landscape into focus.

Double-click to zoom in for even more detail.

Swipe right and notice how the scene looks blank at first, but that is due to its low resolution. Swipe to the left to see the high resolution details

<http://story.maps.arcgis.com/apps/MapSeries/index.html?appid=4608165489764f10b75f946e1b7cdc8c>

Arctic – Renewable Energy

A story map   

Renewable Energy in the Arctic

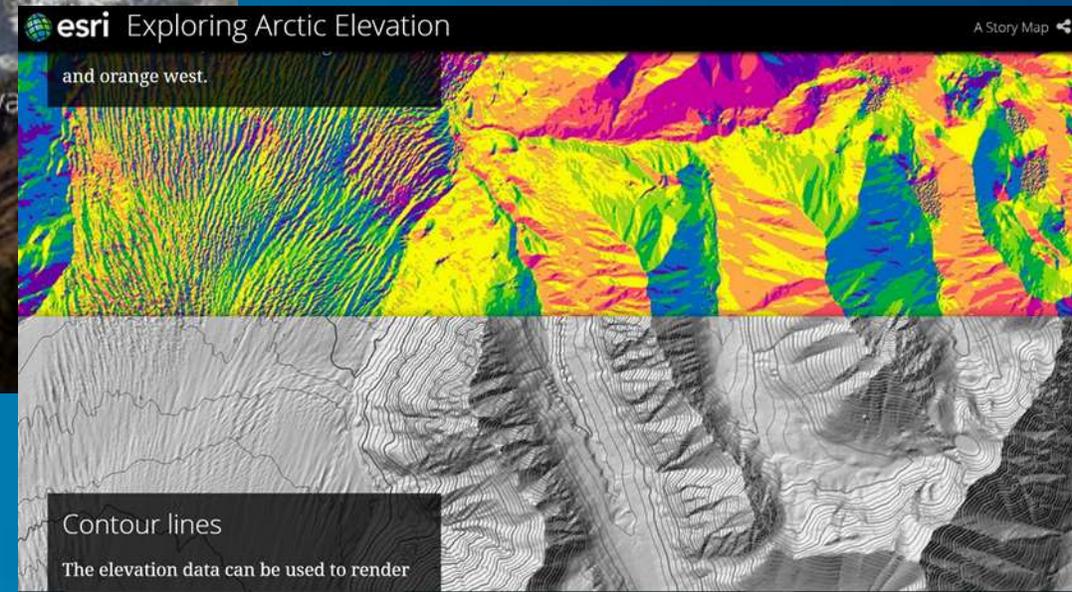
The Arctic is a place of tremendous natural beauty and economic potential. Many of the four million people that live in the Arctic are entirely dependent on imported, and expensive, diesel fuel for electricity, home heating, and transportation. Access to clean, reliable, and affordable energy is vital for the economic success of communities in this region.



The map, titled "The Arctic Region", shows the Arctic Ocean and surrounding landmasses. Countries labeled include Russia, Canada, United States, Alaska (United States), and Greenland (Denmark). Major cities like Moscow, Copenhagen, Reykjavik, and Anchorage are marked. The map also shows the Atlantic Ocean, Pacific Ocean, and various seas like the Bering Sea and Chukchi Sea. A US Department of Energy logo is visible in the bottom left corner of the map area.

<http://esrifederal.maps.arcgis.com/apps/MapJournal/index.html?appid=13864808676f44168934bcd014cf747c>

Become a Virtual Arctic Explorer -



Services driven, On-the-fly renderings, contour generation

<http://story.maps.arcgis.com/apps/Cascade/index.html?appid=9818145e51e94d09b61ccd51ac0ab5b0>

Interactive tools measure change

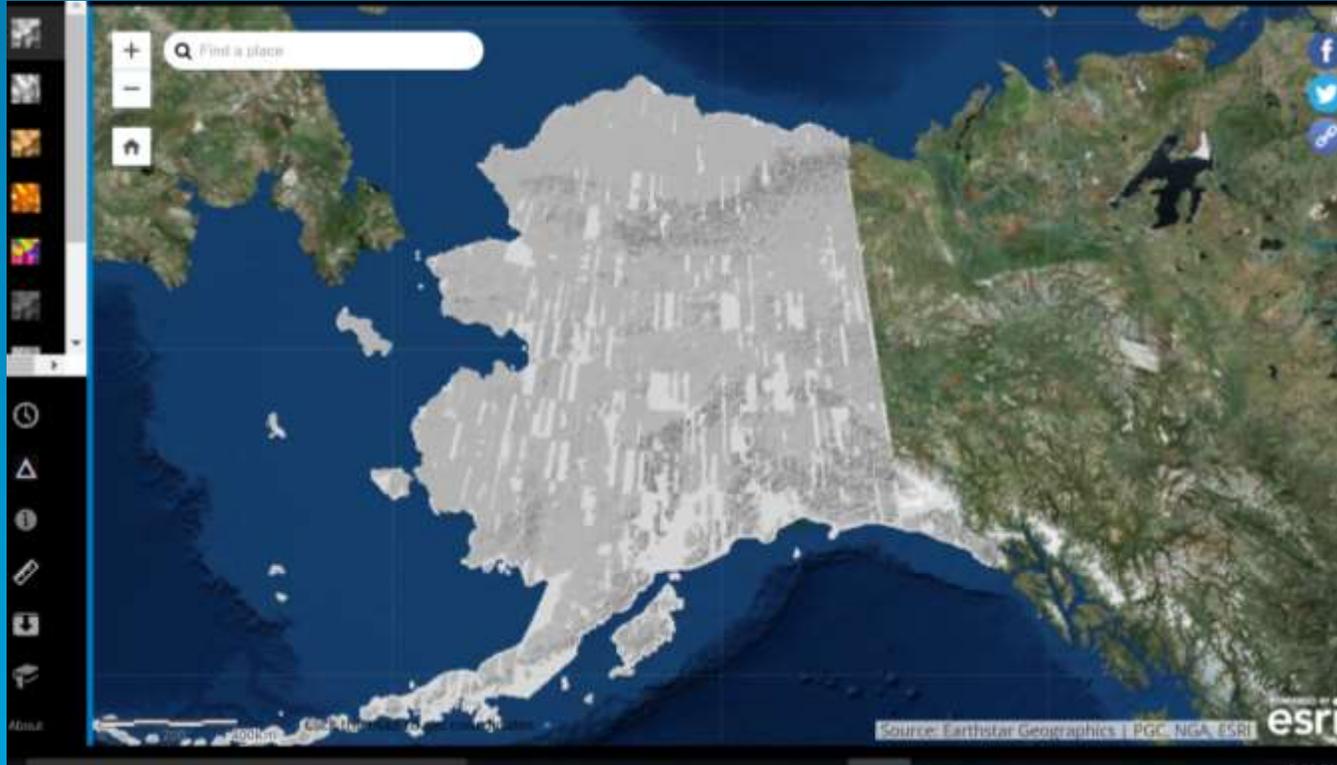


We can then sketch an area on the map calculate total volume lost in the drawn area between the scenes.



The Identify tool reveals the source information for the scene at a point you select on the map and gives you height measurements.

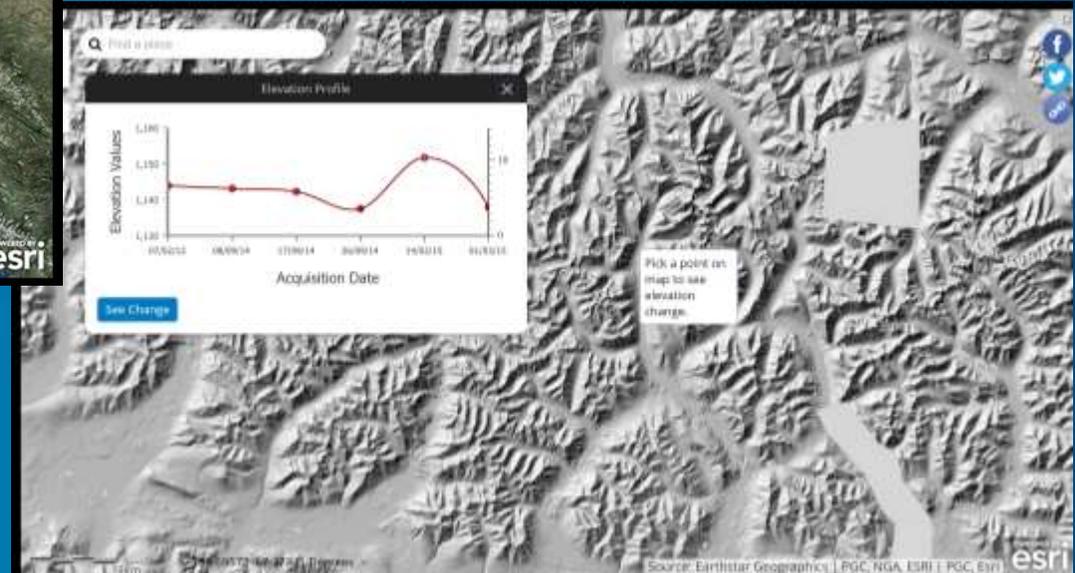
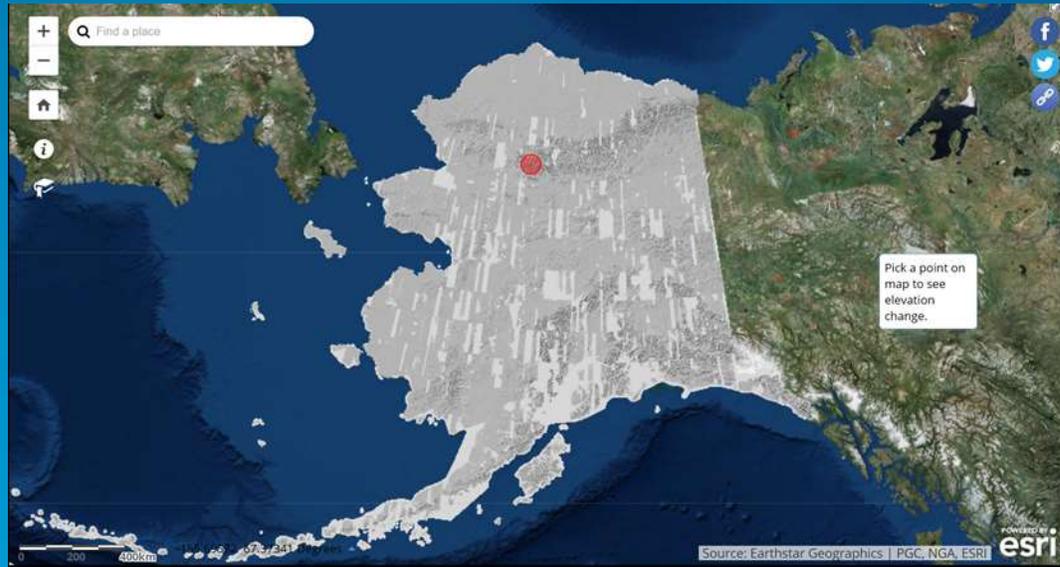
Arctic DEM Explorer



[Arctic DEM Explorer](http://arcticdemapp.s3-website-us-west-2.amazonaws.com/explorer) This web application enables the investigation into a collection of Arctic DEMs. Additionally large collections of Multispectral Landsat data collected for the Arctic are also accessible.

<http://arcticdemapp.s3-website-us-west-2.amazonaws.com/explorer>

Arctic DEM Change app



<http://arcticdemapp.s3-website-us-west-2.amazonaws.com/change>

Collaboration Community -

Arctic Resilience Gallery

A gallery of maps and apps that provide elevation data and in-depth geospatial analyses for the state of Alaska.

Search maps   



Exploring Arctic Elevation
Web Mapping Application by rsloughrin_Resilience. Last Modified Sep 1, 2016.
An innovative partnership has produced dramatically-improved elevation data for Arctic regions.





Arctic DEM Mosaic Image Service
Web Mapping Application by rsloughrin_Resilience. Last Modified Aug 30, 2016.





Arctic DEM Mosaic Feature Service
Web Mapping Application by rsloughrin_Resilience. Last Modified Aug 30, 2016.



When President Obama visited Kotzebue, Alaska on Sept. 3, 2015, he was the first sitting President to travel inside the Arctic Circle. Raising awareness about climate change was the reason for the visit, and effort continues with the first ever released two-meter resolution DEMs of the entire state of Alaska. The data collected, including elevation data and in-depth geospatial analyses, is accessible to the public, government and scientific communities through several story maps and apps that are available on ArcGIS Online.

New Orleans Crowdsourced Property Survey



CITY OF NEW ORLEANS
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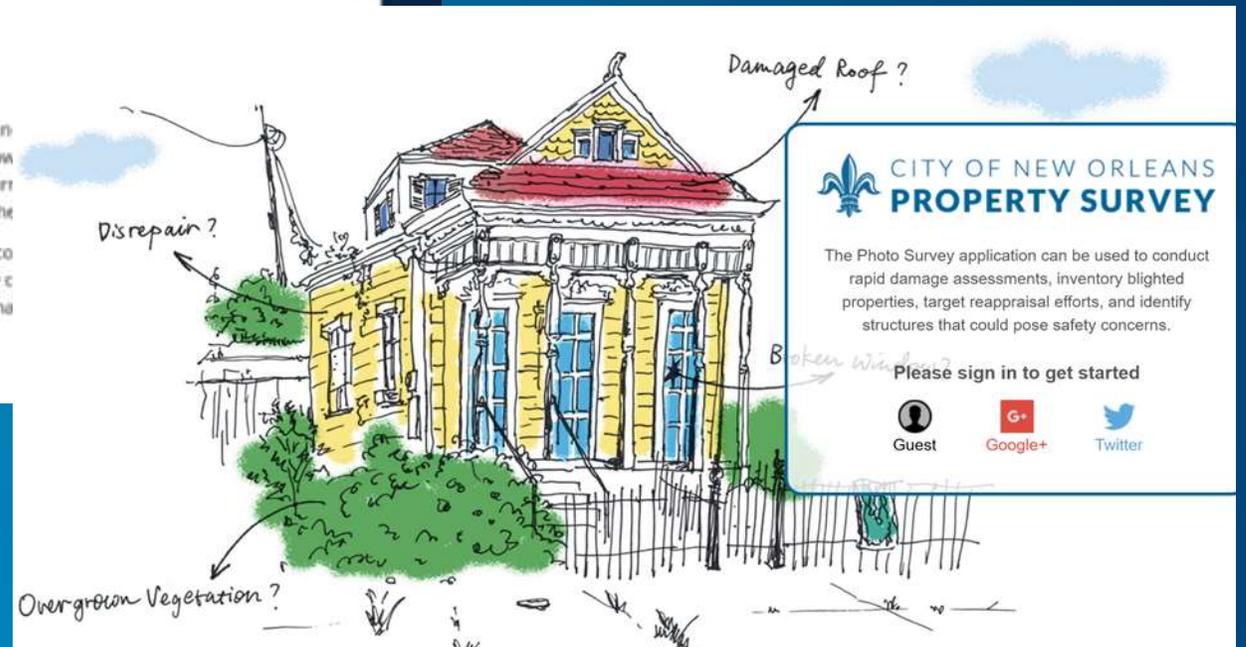
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New Orleans Rapid Property Survey

The Need for a Survey

New Orleans has found itself the target of various natural and man-made disasters. Since the city has turned the corner on Hurricane Katrina recovery, it now faces the challenge of preparing for future disasters. A prerequisite for resiliency is knowing the current properties, city assets, and their condition. However, this is data that is difficult to collect. An important initiative was launched to collect baseline property data to help in designing a specialized system in January 2013 such that property can be surveyed quickly and inexpensively after a disaster. New Orleans poses a unique challenge with its unique character, narrow streets and short setbacks.



Damaged Roof?

Disrepair?

Overgrown Vegetation?

Broken Windows?

CITY OF NEW ORLEANS
PROPERTY SURVEY

The Photo Survey application can be used to conduct rapid damage assessments, inventory blighted properties, target reappraisal efforts, and identify structures that could pose safety concerns.

Please sign in to get started

Guest Google+ Twitter

<http://propertysurvey.nola.gov/photosurvey/>

Crowd sourcing massive data collection - anywhere, anytime

