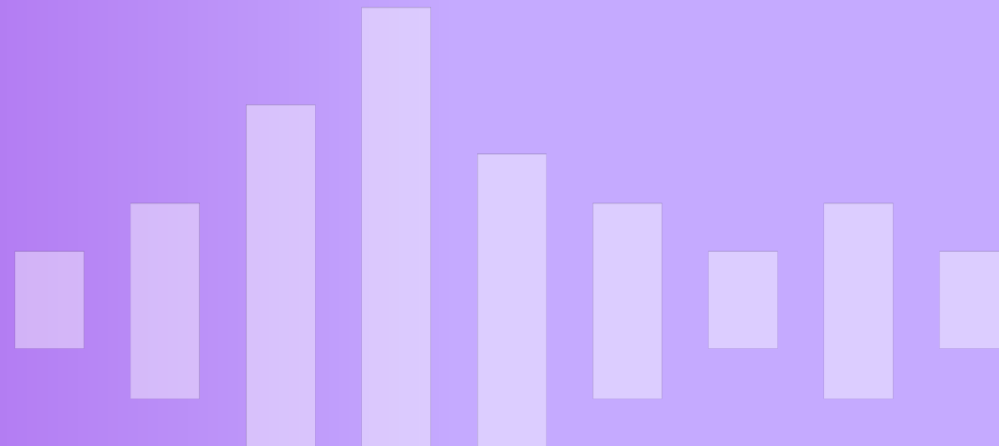


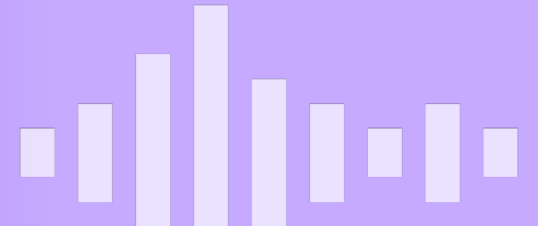
ArcGIS Online & Data Collection Workshop

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Department of Geography & Environmental Management
University of the West of England, Bristol



GIS in the Curriculum



- GIS is a key skill for our young geographers:

"interpret a range of sources of geographical information, including maps, diagrams, globes, aerial photographs and Geographical Information Systems (GIS)"

*"use Geographical Information Systems (GIS) to view, **analyse** and interpret places and data"*

Key Stage 3

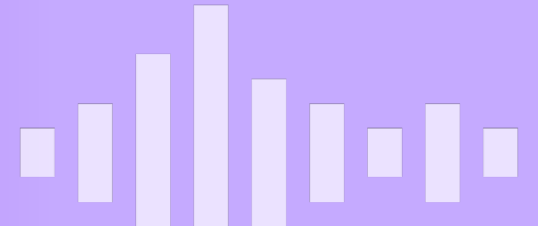
*"**geo-spatial data** presented in a geographical information system (**GIS**) framework"*

*"**satellite imagery**"*

*"written and **digital** sources"*

AQA 'Skills'

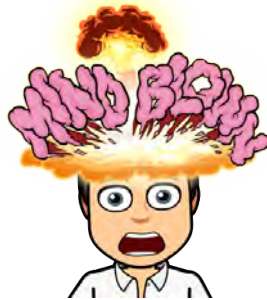
Challenges...



THINKING...



"I don't have the time to develop new skills"



"I don't know enough about GIS to include it"



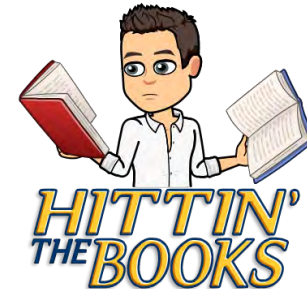
"I can't mark GIS work"



"I don't know who can help"



"I don't want to change"



"I need all the time for content"



"Its just too complex"

if you say so...

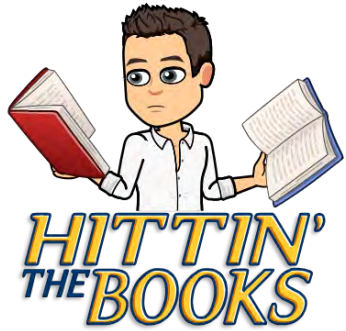
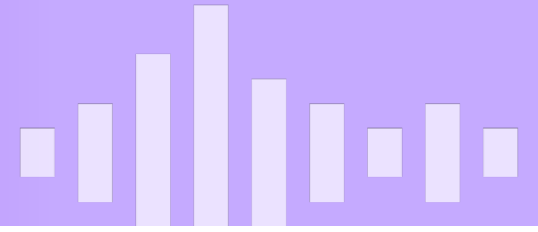


"We have coped without it so far..."



"I'm retiring soon anyway"

GIS Undercover



"I need all the time
for content"

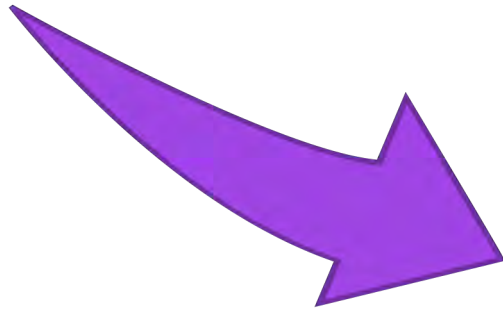
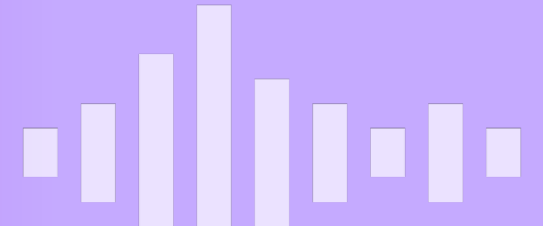
"I wish a politician with no teaching
experience would just come in and
tell me how to
teach," said no
teacher ever.



someecards
user card

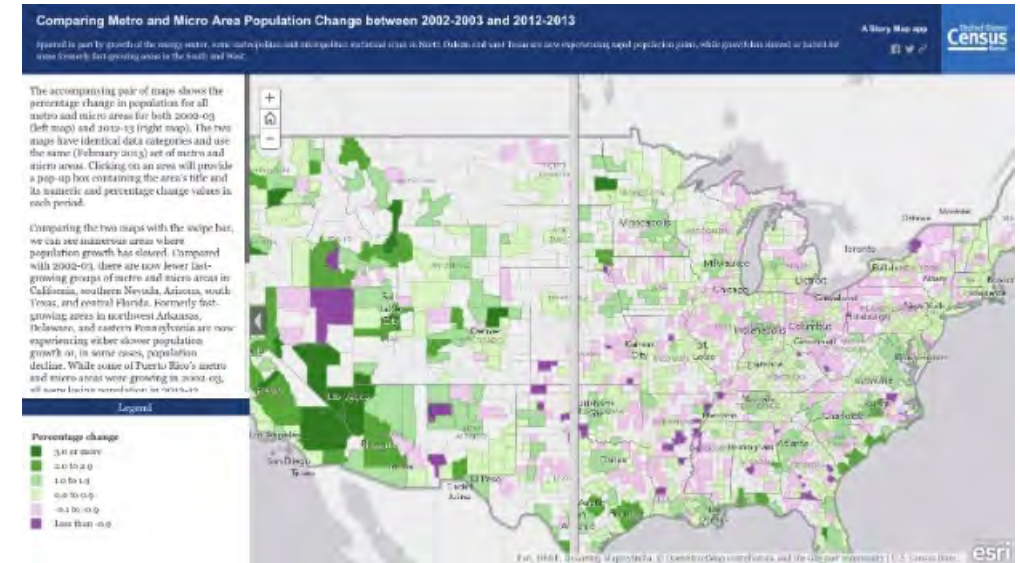
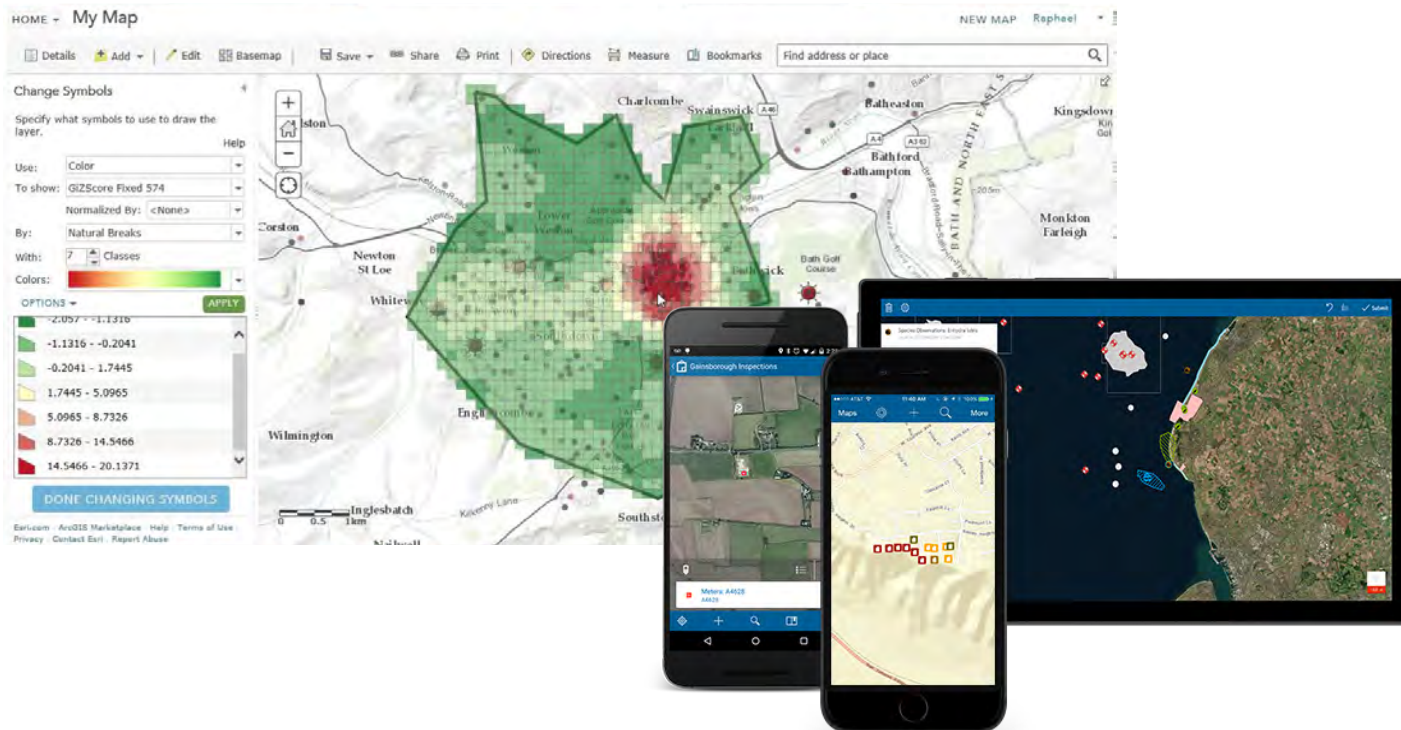
- Don't try and teach GIS – you don't have the time or space in the curriculum
- GIS undercover.... Students can experience content through GIS
- Look for fun applications to enhance your lessons

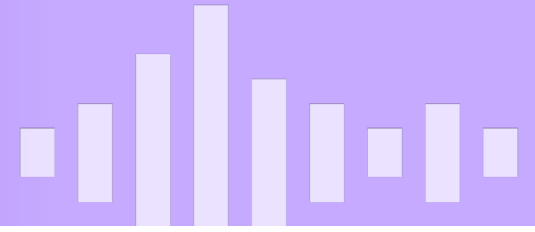
A Brave New World of GIS



ArcGIS Online – Schools Programme

- ArcGIS Online platform for UK Secondary schools is now FREE!
- Includes Web Maps/Apps, ArcCollector, Story Maps, etc.
- Full support from Esri UK



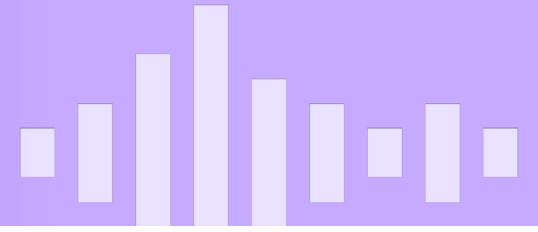


Almost....

100,000

**Individual student and teacher accounts
signed up to ArcGIS Online in the UK**

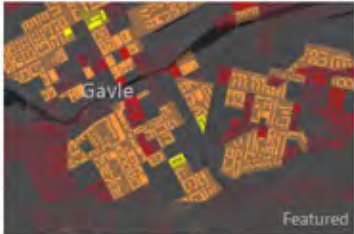
AGOL - The Living Atlas



Living Atlas of the World


Themes

- All
- Basemaps
- Imagery
- Demographics
- Lifestyles
- Landscape
- Earth Observations
- Urban Systems
- Transportation
- Boundaries and Places
- Historical Maps
- Story Maps




Gavle Population Density
By UOdocent

Featured




Gavle Roadspeed
By UOdocent

Featured



Fifty Largest Malls
By StoryMaps

Featured




USA Congressional Districts
By esri_dm

Featured




An Intro to Basemaps
By esri_basemaps

Featured




Comparing the San Jacinto Battleground a ...
By nancy.heger_TPWD

Featured




2014 Median Age in the United States
By esri

Featured



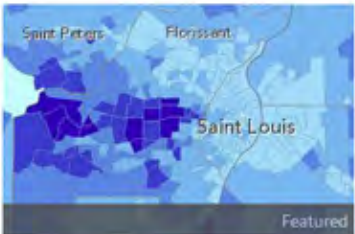
2014 Unemployment Rate in the United Sta ...
By esri

Featured




2014 Diversity in the United States
By esri

Featured




2014 Health Insurance Spending in the Un ...
By esri

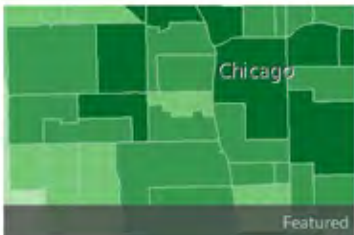
Featured




Featured




Featured




Featured



Featured

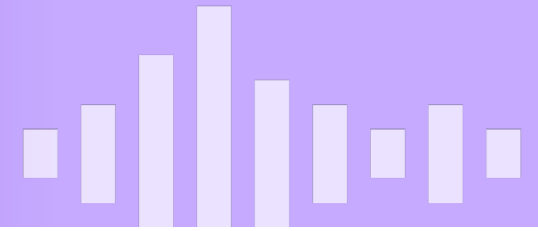


Featured



Featured

AGOL – OS Maps



Home ▾ My Map

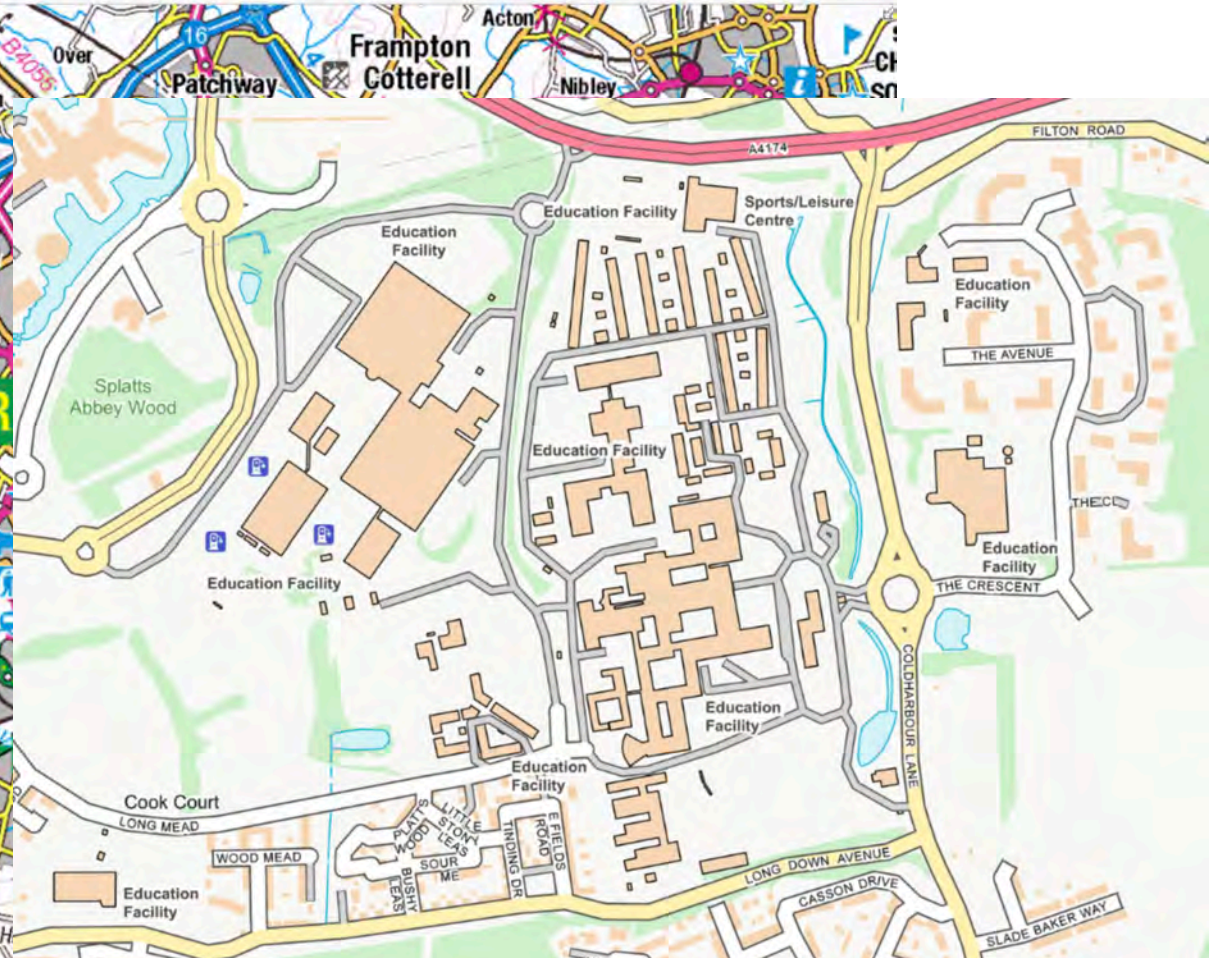
Details Add ▾ Basemap Analysis

About Content Legend

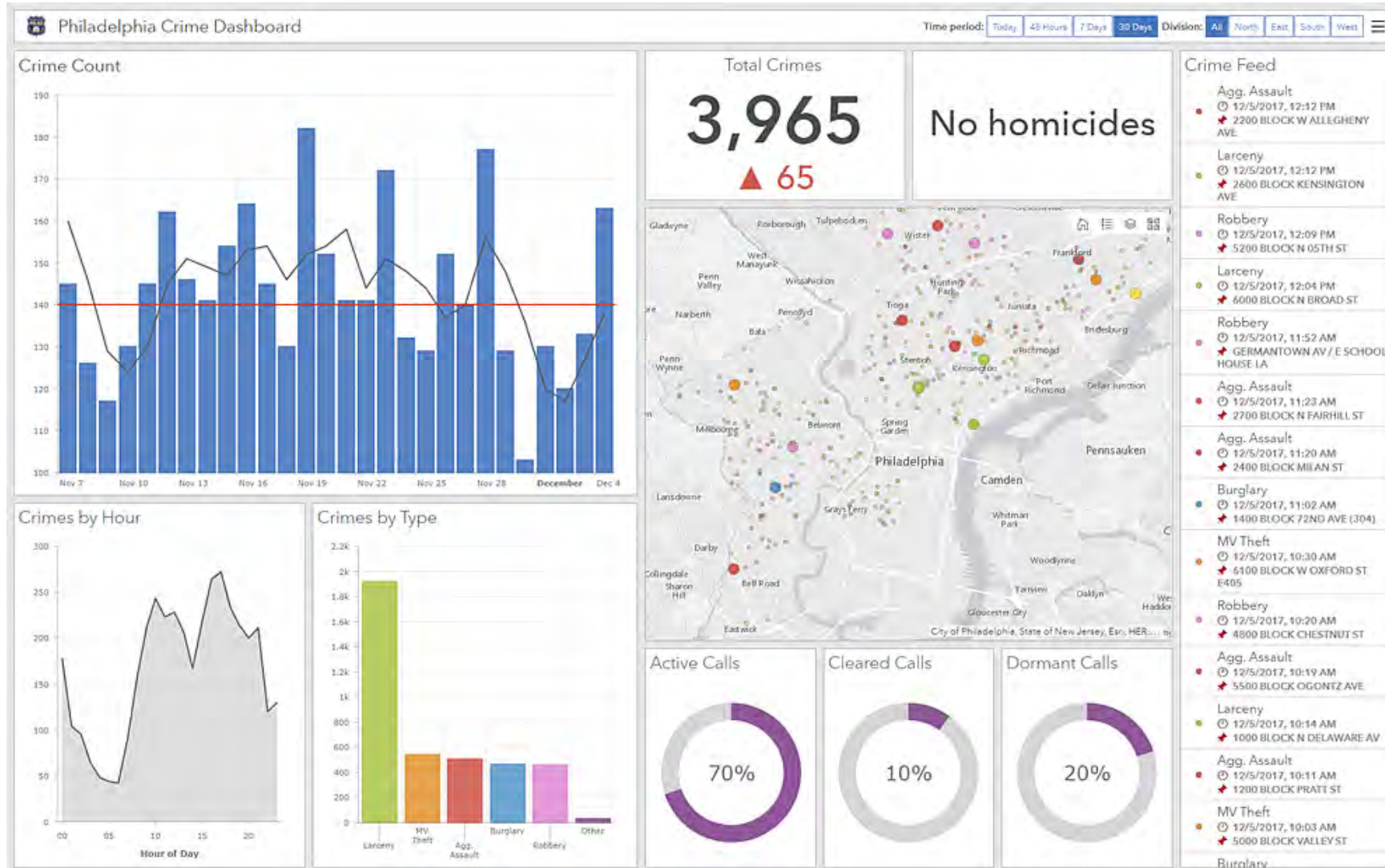
Make your own map

It's easy to make your own map. Just follow these steps:

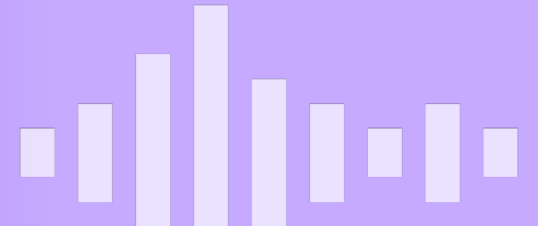
1. Choose an area.
Pan and zoom the map to an area or search by its name or address.
2. Decide what to show.
Choose a Basemap then Add layers on top of it.
3. Add more to your map.
Add map notes to draw features on the map.
Display descriptive text, images, and charts for map features in a pop-up.
4. Save and share your map.
Give your map a name and description then share it with other people.



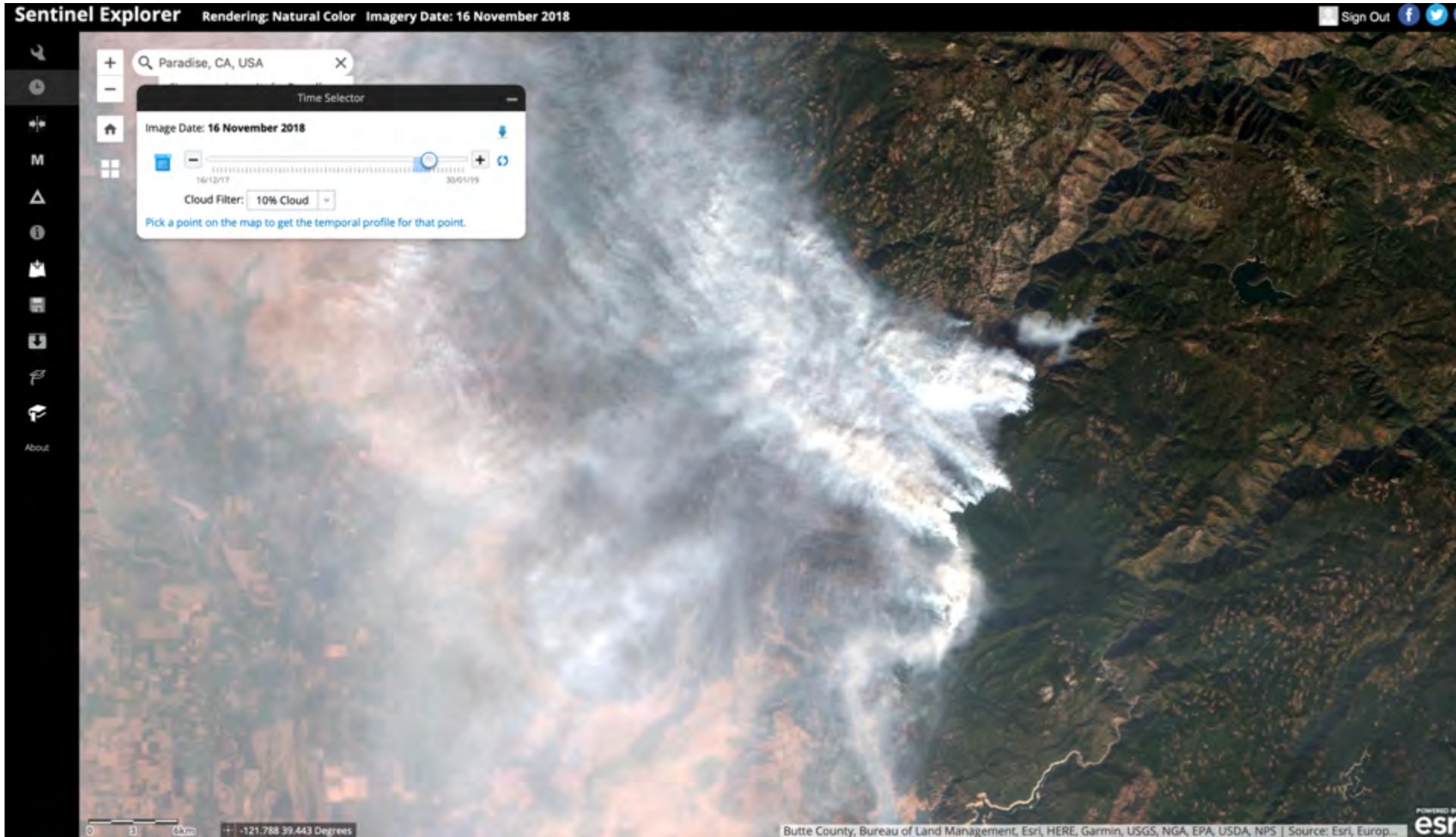
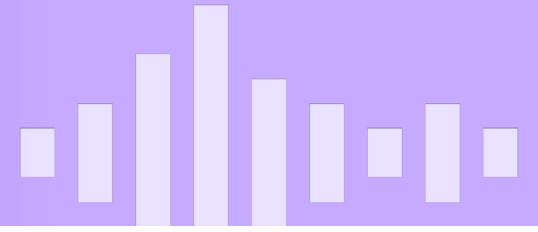
AGOL - Dashboards



AGOL – Story Maps



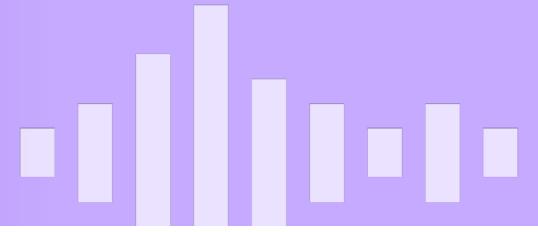
Online Apps



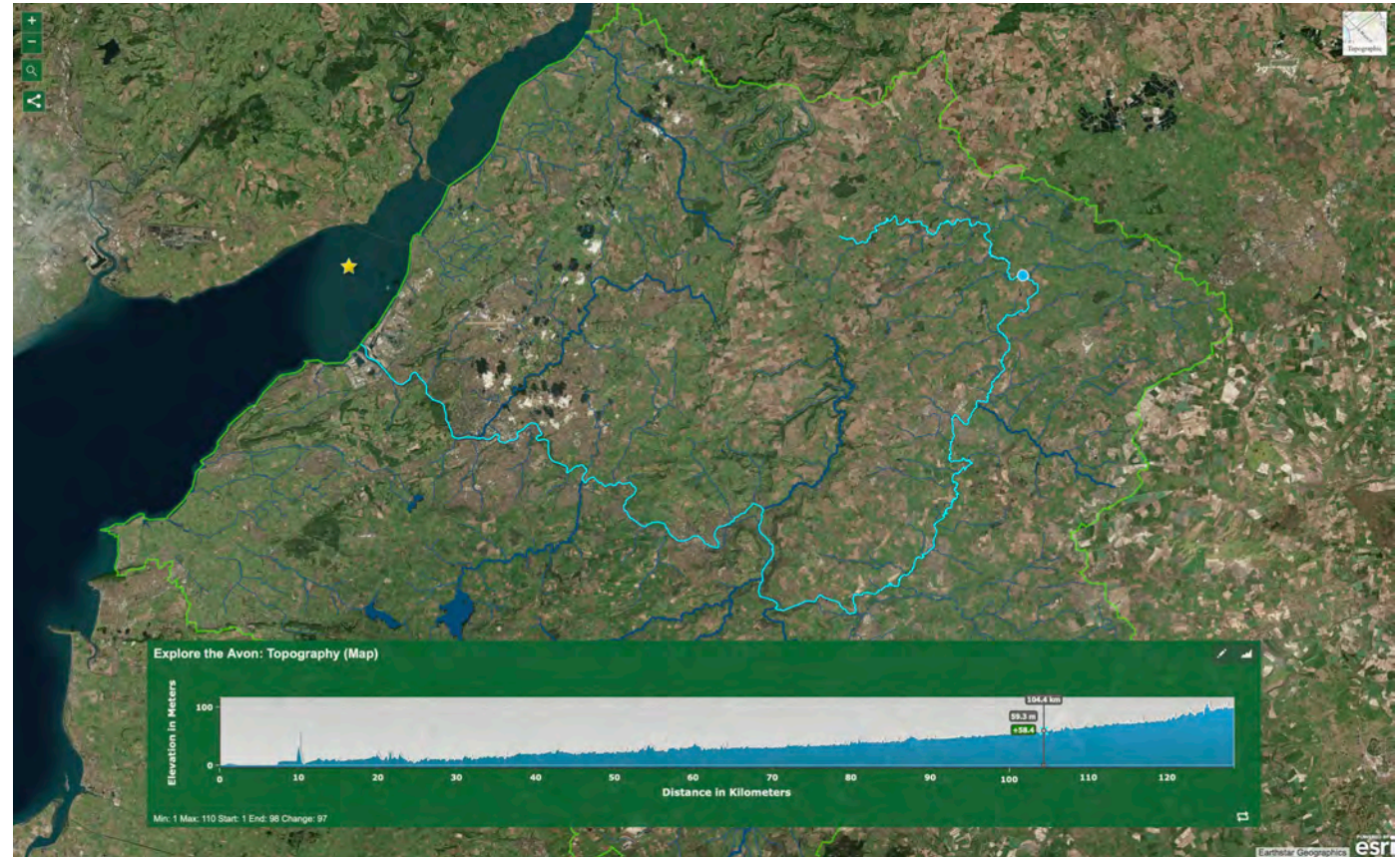
Esri Sentinel-2
Data Explorer

Paradise Fire
2018

Online Apps



- <https://edenriverstrust.org.uk/secondary-schools/>
- <https://arcg.is/oHee19>



AGOL - Free Lesson Activities




[Home](#) [Teaching Resources](#) [GeoMentor](#) [Contact](#)

 Search 

I Want To

 Learn GIS

 Teach From Front


 Give to Students


 Conduct Fieldwork

 Select All

Resource Type

 Lesson

 Maps and Tools

 Home and Revision

 Data

 Select All

Displaying **99** of **164** available resources



Mapping Our Shores



In 1965 the National Trust carried out a mapping survey of the entire coastline of England, Wales & Northern Ireland. This Neptune Coastline Campaign data, including the original hand-annotated maps, is compared to 2014 data prepared by the University of Leicester. An absolutely essential resource for examining coastal change over the last 50 years.

Also [...]


 [View Resource](#)



Taming Open Data



Sources of free data for schools, and how to use them.

 [View Resource](#)



Demographic Data II: Adding data to ArcGIS Online



This storymap looks at how to add data into ArcGIS Online. A step by step guide for extracting data from the Office of National Statistics NOMIS portal is included, along with instructions on how to add this to a map using the 'Join Features' function. Recommended for A Level students wanting to use GIS in their Independent Investigation (NEA).

 [View Resource](#)



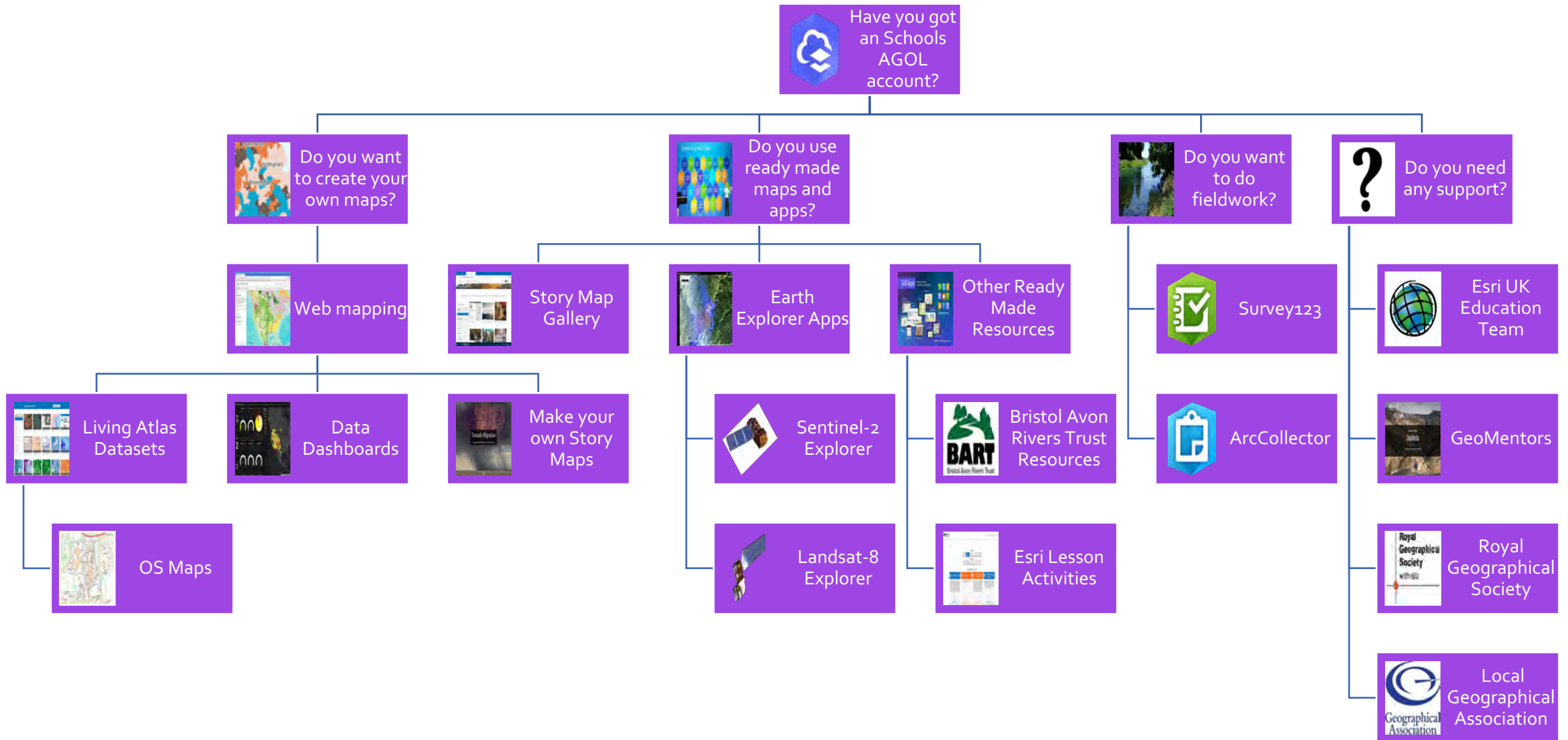
Tropical Cyclone Exposure in the United States



MarineCadastré's storymap looking at the exposure of the United States to tropical cyclones over the past 100 years. How this data is used to inform the planning and construction of maritime infrastructure is also outlined.

 [View Resource](#)

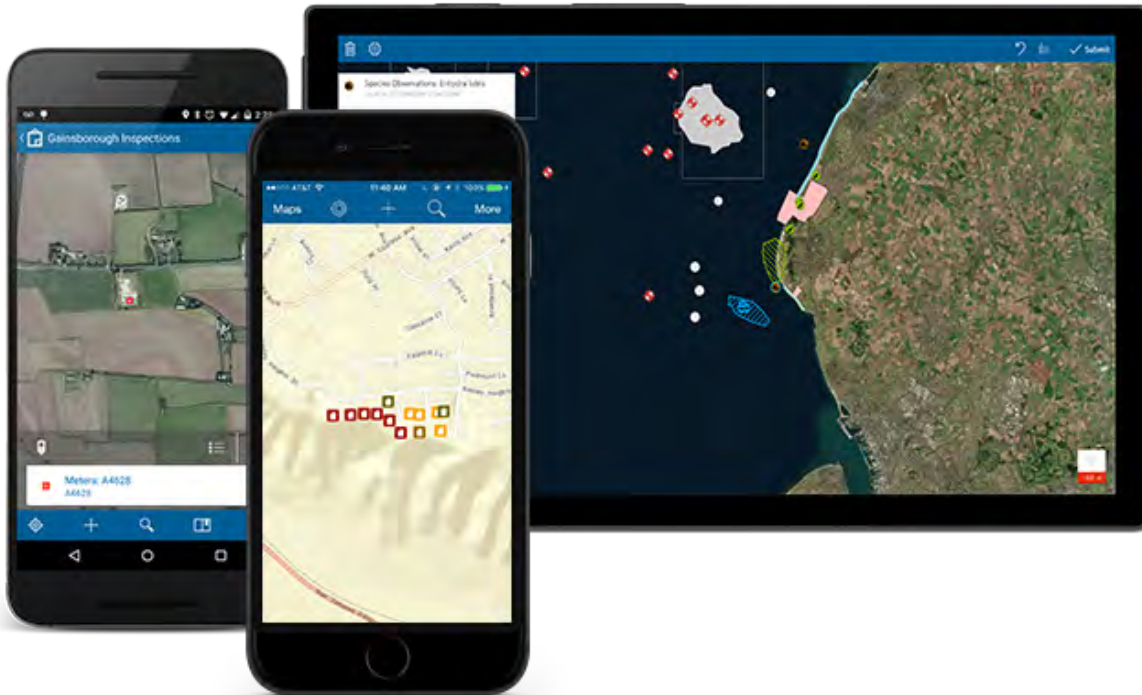
Bringing it Together...



AGOL – Fieldwork Apps



ArcCollector



Survey123



My Survey

What's your name? *

How old are you?

Do you have any pets?

☐ Yes

☐ No

Are you having a good time at Ozri?

☐ 1 Star

☐ 2 Stars

☐ 3 Stars

☐ 4 Stars

☒ 5 Stars

Where did you travel from?

GPS coordinates can only be collected when outside.

Survey123 Workshop

Harry West
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Department of Geography & Environmental Management
University of the West of England, Bristol



What is Survey123?



- Survey123 is a powerful data collection app part of the ArcGIS Online suite of products.
- Its not only for "surveys". It can be used for any data collection activity:
 - River measurements
 - Population questionnaires
 - Photo collecting
 - Ecology surveys
 - Traffic counts
 - Etc...



Designing a Survey



Survey123 for ArcGIS ▾ My Surveys Help Harry ▾

test1234 Overview **Design** Collaborate Analyze Data Settings

test1234

Description content for the survey

Please drag from or press on the right panel to add your first question.

Submit

Powered by Survey123 for ArcGIS

Add Edit Appearance Settings

Singleline Text	Multiline Text
Single Choice	Single Choice Grid
Multiple Choice	Dropdown
Rating	Likert
Number	Date
Time	Date/Time
Image	File Upload
Signature	GeoPoint
Email	Website
Note	Group
Page	

Designing a Survey



test1234

Description content for the survey

1 How did you travel here today?

☐ Car

☐ Walk

☐ Bike

2 What were the biscuits like?

☐ Rubbish... ☐ Eh... ☐ Neutral ☐ Pretty Good ☐ Best part of the day

3 How many stars would you give the Survey123 workshop?

4 Take a selfie :)

Press here to choose image file. (<10MB)

Submit

Collecting Data



11:00

test1234

By h5_west
Created: 22/06/2019
Last modified: 22/06/2019

Collect

11:00

test1234

Description content for the survey

How did you travel here today?

☐ Car
☐ Walk
☐ Bike

What were the biscuits like?

Rubbish. Eh... Neutral Pretty Good Best part of the day

How many stars would you give the Survey123 workshop?

★ 1 ★ 2 ★ 3 ★ 4 ★ 5

Take a selfie :)

Camera icon Folder icon

11:01

test1234

Description content for the survey

How did you travel here today?

☒ Car
☐ Walk
☐ Bike

Survey Completed

Your device is online

Would you like to send the survey now?

Send Later

Send Now

Continue this survey

Data Analysis



test1234

Overview

Design

Collaborate

Analyze

Data

Settings

Owner: h5_west, created: Jun 22, 2019, updated: Jun 22, 2019

The survey is **private now**. No one except you can submit data to the survey.



Total Records



Total Participants



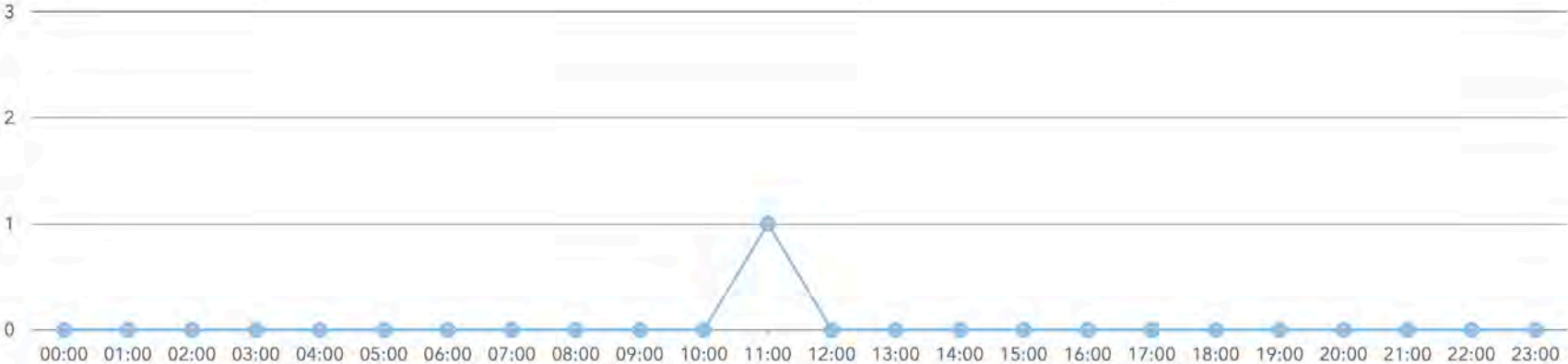
First Submitted On



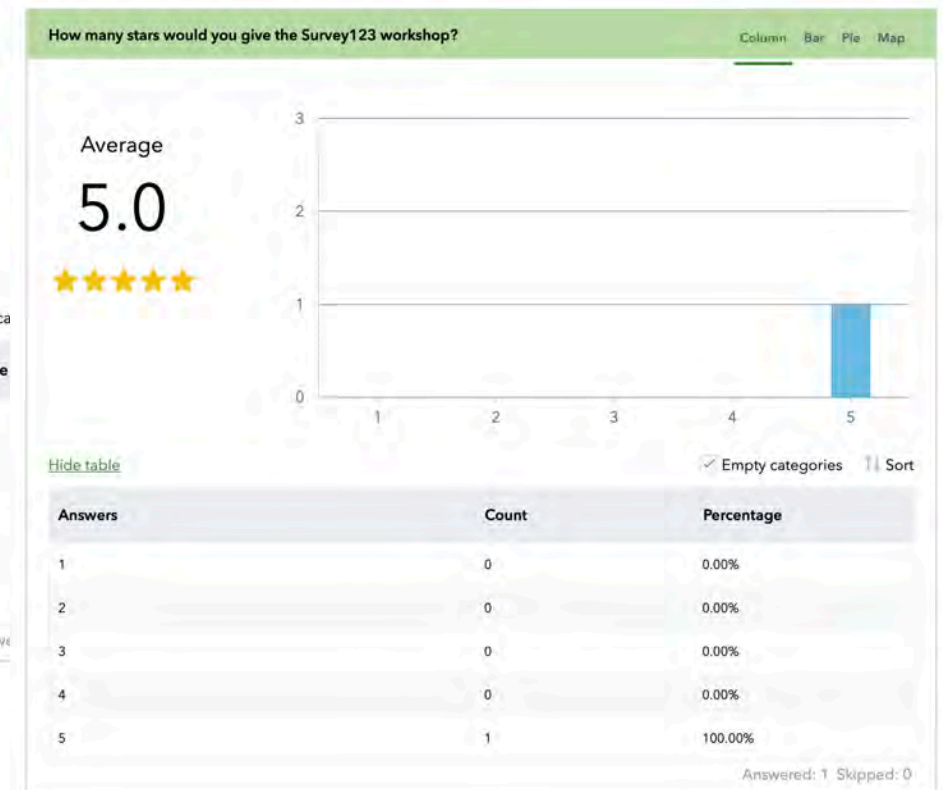
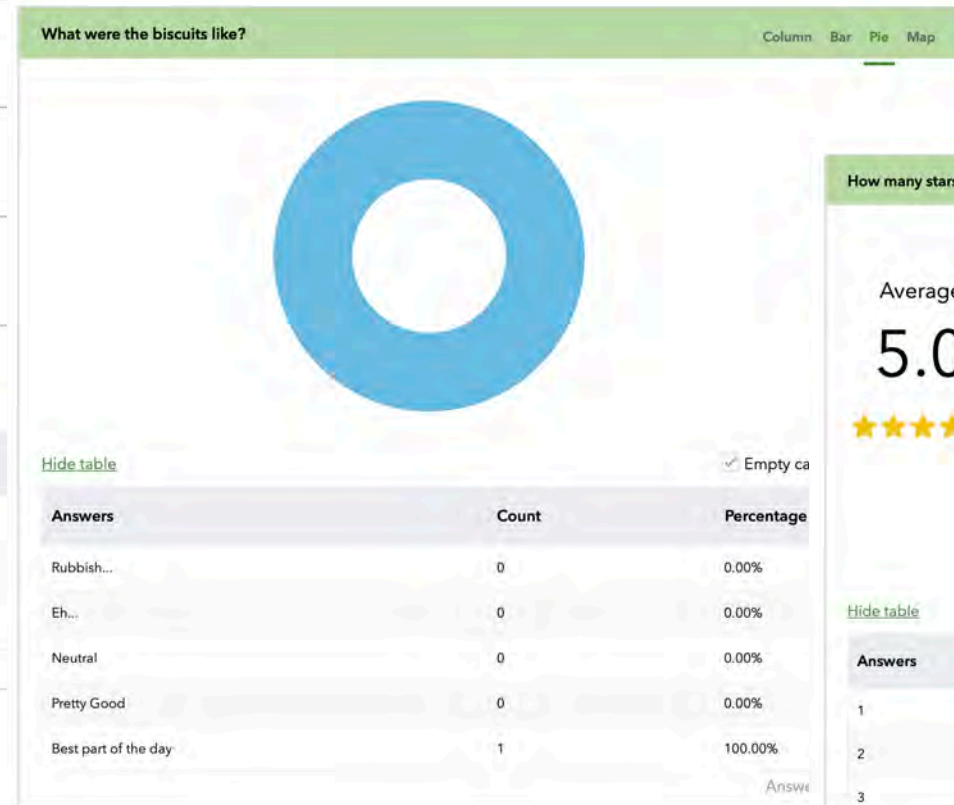
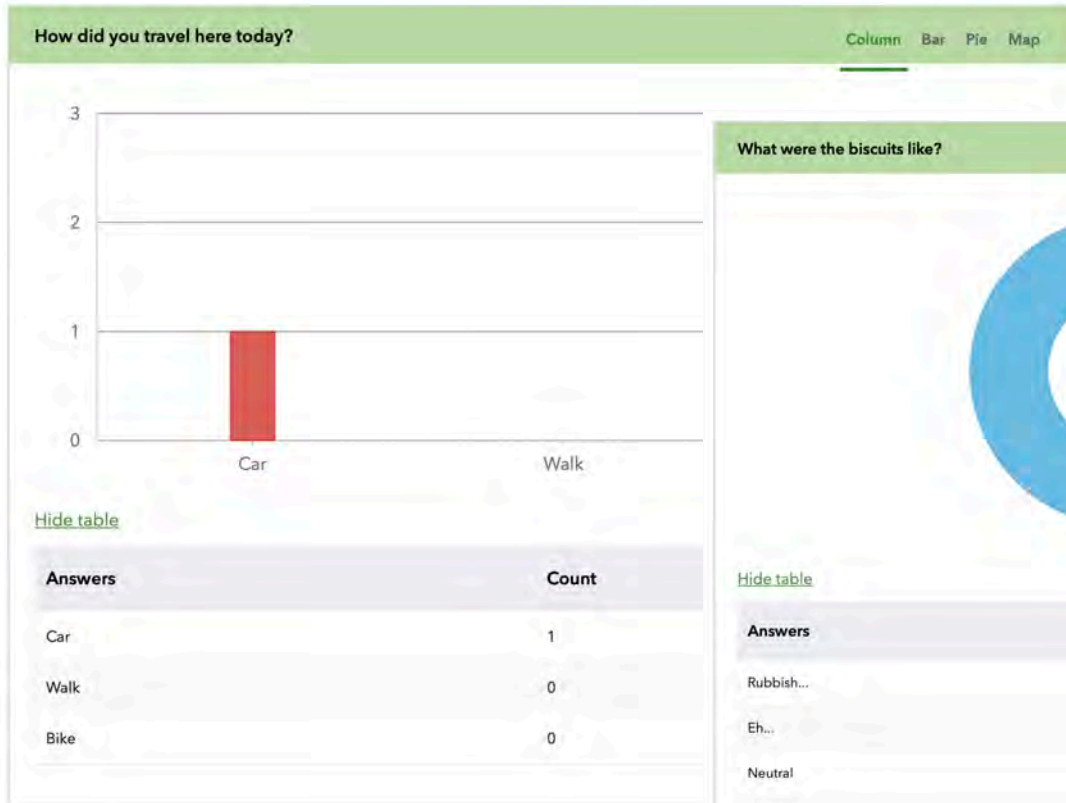
Last Submitted On ⓘ

Surveys Count: 1 (Total: 1)

6/22/19 - 6/22/19



Data Analysis – Chart View



Data Analysis – Map View



Survey123 for ArcGIS

My Surveys

Help

Harry

test1234

OverviewDesignCollaborateAnalyzeDataSettings

6/22/19 - 6/22/19FilterReport (Beta)ExportOpen in Map ViewerShow individual response

surveyPoint (Features: 1, Selected: 1)

How did you travel here today?	What were the biscuits like?	How many stars would you give the Survey123 workshop?
Car	Best part of the day	5

test1234

Submitted by: h5_west
Submitted time: Jun 22, 2019, 11:01:48 AM

How did you travel here today?
Car

What were the biscuits like?
Best part of the day

How many stars would you give the Survey123 workshop?
★★★★★

Take a selfie :)

take_a_selfie_fc13ea29818b44958ffd24a4e407512a.JPG

Collaborating



Survey123 for ArcGIS ▾ My Surveys Help

test1234 Overview Design **Collaborate** Analyze Data Settings <

Submitter
Viewer
Group Settings

Choose who can submit data to this survey:

☐ Everyone (Public)

☐ Members of my organization (UWE Spatial)

☐ Following groups:




- ☐ [Group Name] Details
- ☐ [Group Name] Details
- ☐ [Group Name] Details
- ☐ [Group Name] Details

Currently, no one except you can submit data to the survey.

Save

Link Embed

Link to this survey

☒ Open the survey in browser directly

☐ Ask the user how to open the survey, in browser or in the Survey123 field app

☐ Open the survey in the Survey123 field app directly. ([Learn more about this option](#))