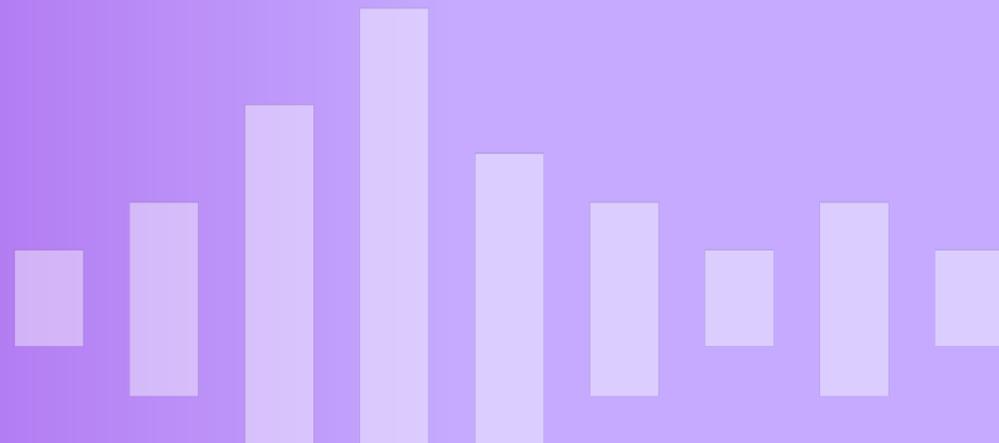


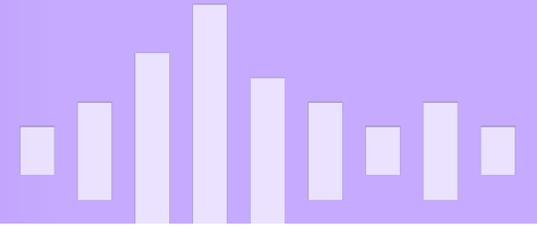
ArcGIS Online & Data Collection Workshop

Harry West
harry.west@uwe.ac.uk

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"*

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

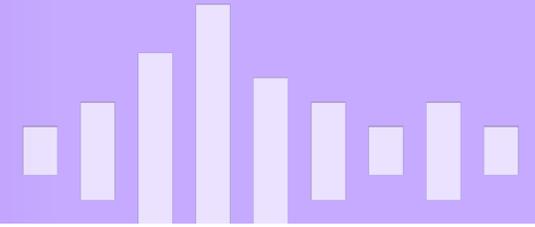
*"**satellite imagery**"*

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

Key Stage 3

AQA 'Skills'

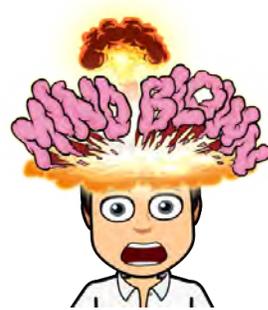
Challenges...



THINKING...



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



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



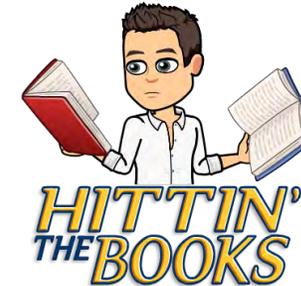
"I can't mark GIS work"



"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...

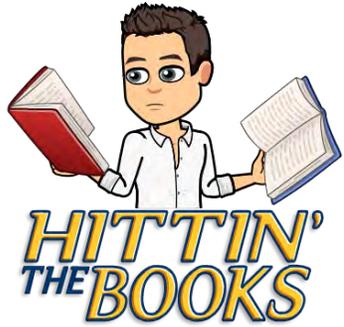
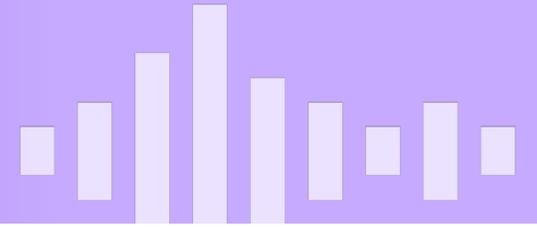


"We have coped without it so far..."



"I'm retiring soon anyway"

GIS Undercover



"I need all the time for content"

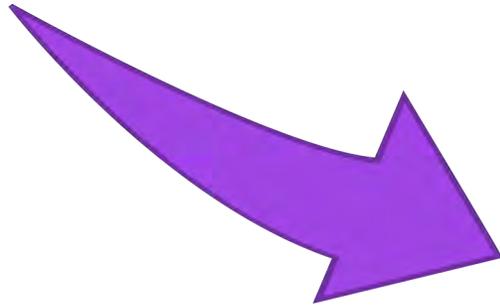
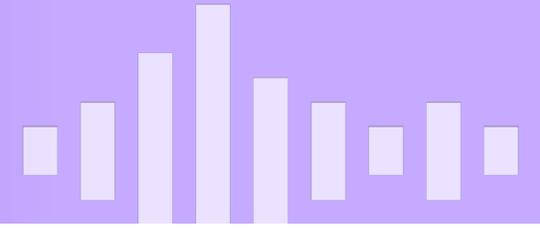
"I wish a politician with no teaching experience would just come in and tell me how to teach," said no teacher ever.



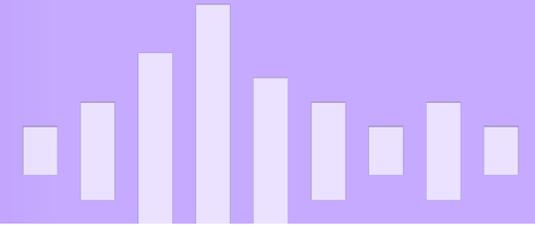
someecards
user card

- 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

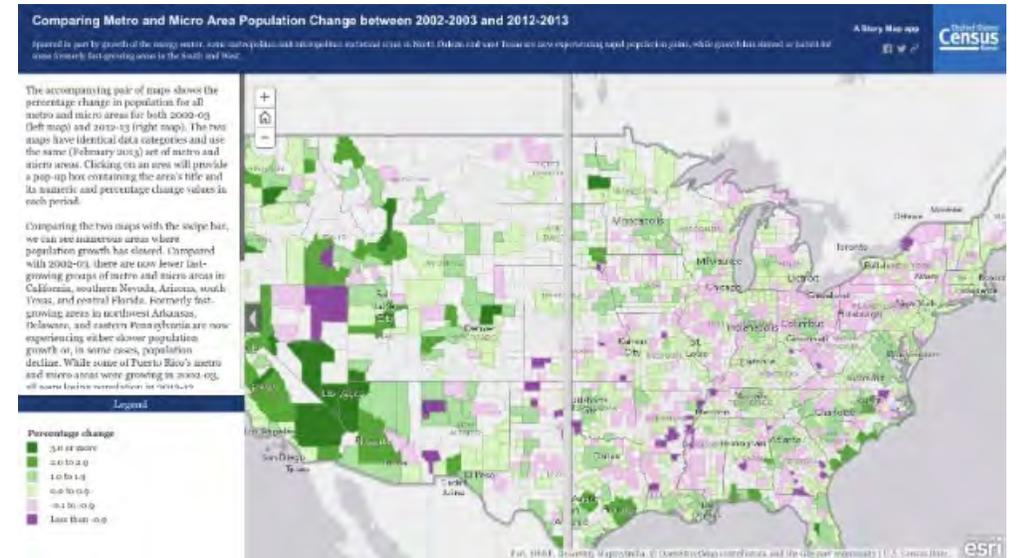
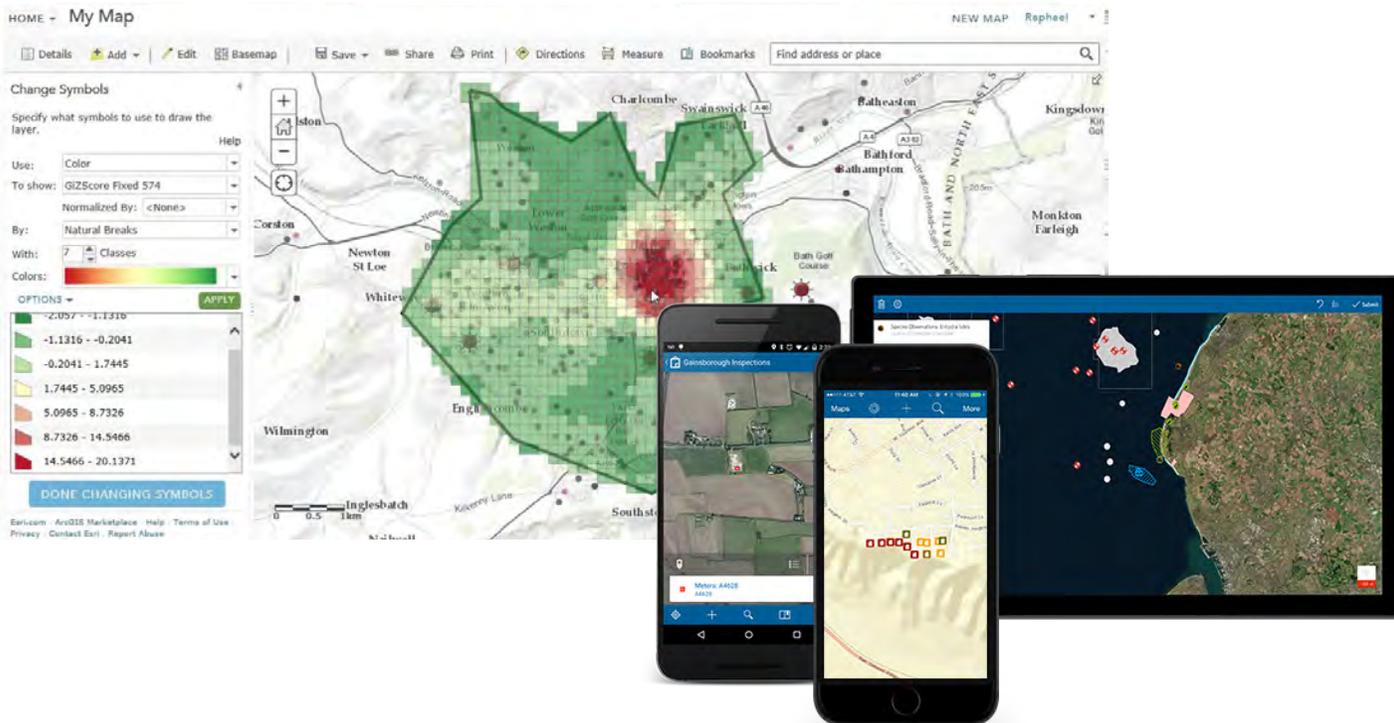
A Brave New World of GIS

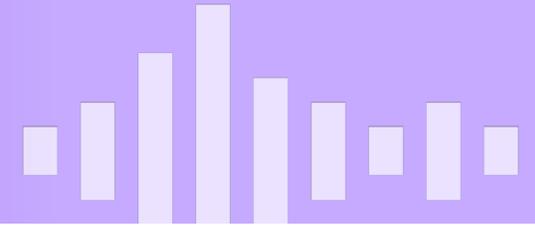


ArcGIS Online – Schools Programme



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



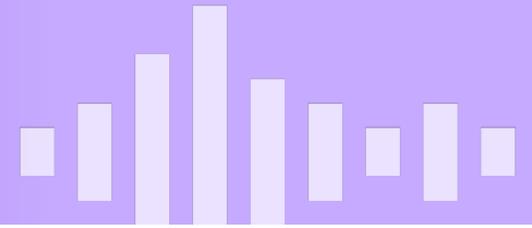


Almost....

100,000

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

AGOL - The Living Atlas



Living Atlas of the World

Search Living Atlas Gallery

Themes

All

Basemaps

Imagery

Demographics

Lifestyles

Landscape

Earth Observations

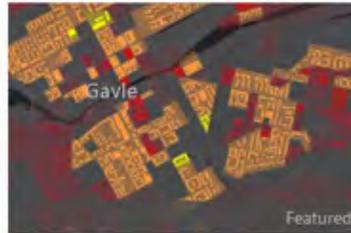
Urban Systems

Transportation

Boundaries and Places

Historical Maps

Story Maps



Gavle Population Density

By UOdocent



Gavle Roadspeed

By UOdocent



Fifty Largest Malls

By StoryMaps



USA Congressional Districts

By esri_dm



An Intro to Basemaps

By esri_basemaps



Comparing the San Jacinto Battleground a ...

By nancy.heger_TPWD



2014 Median Age in the United States

By esri



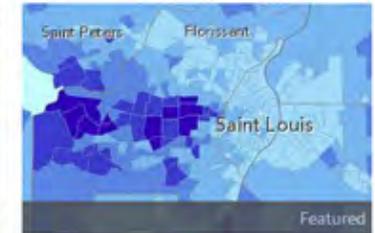
2014 Unemployment Rate in the United Sta ...

By esri



2014 Diversity in the United States

By esri



2014 Health Insurance Spending in the Un ...

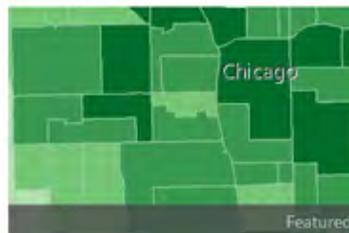
By esri



Featured



Featured



Featured



Featured

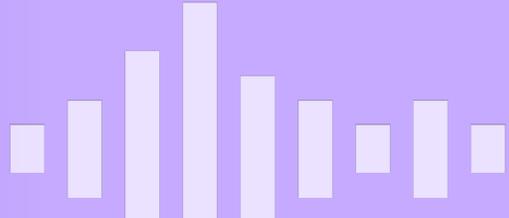


Featured



Featured

AGOL – OS Maps



Home ▾ My Map New Map ▾ Harry ▾

Details Add Basemap Analysis

About Content Legend

Make your own map

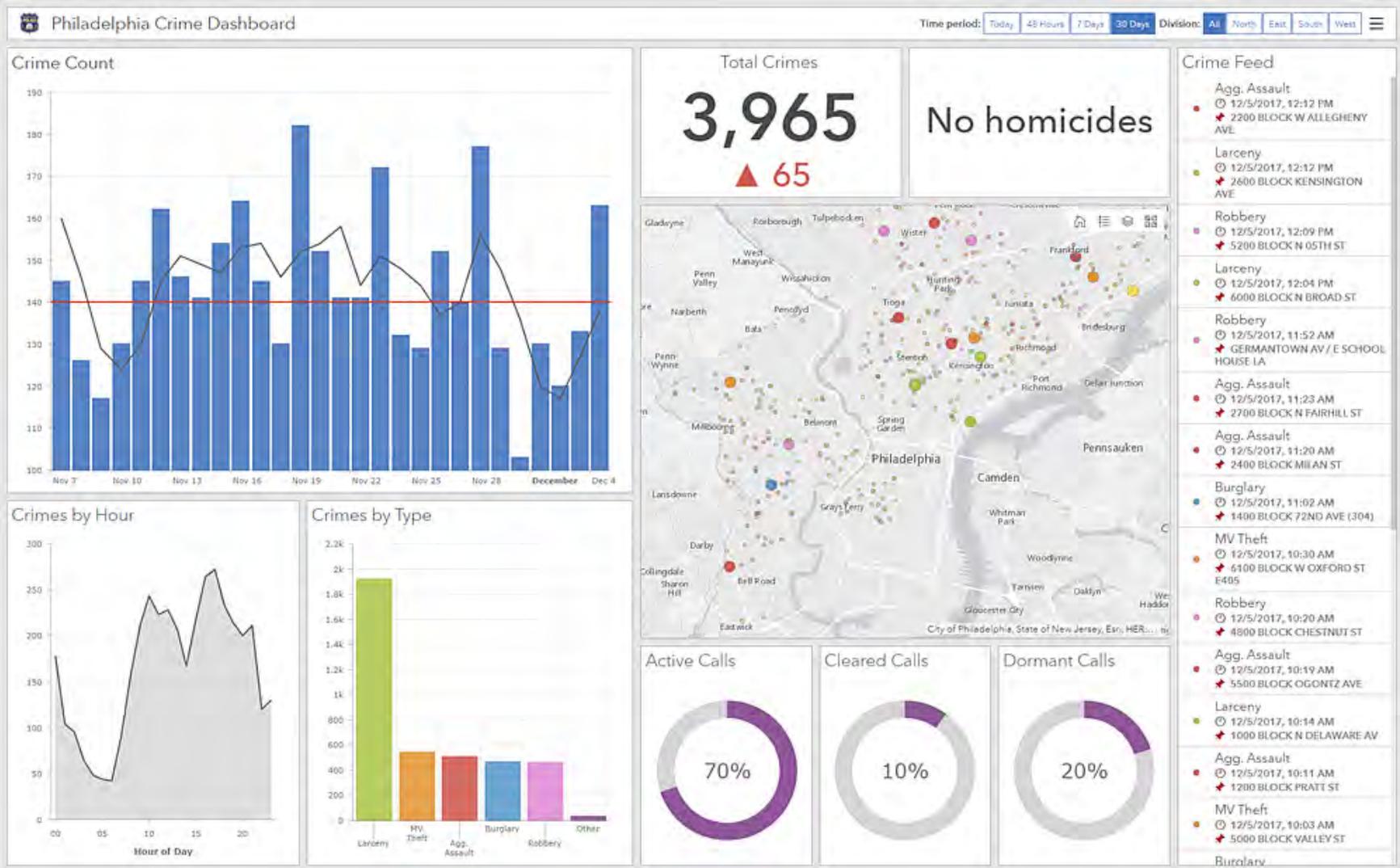
It's easy to make your own map. Just follow these steps:

- 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.

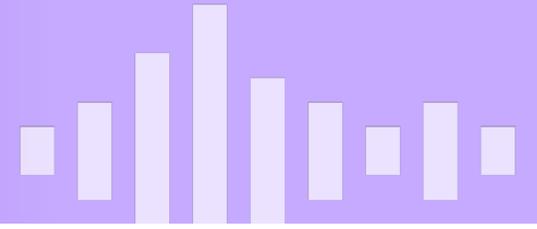
0 2km

Esri.com | ArcGIS Marketplace | Help | Terms of Use | Privacy | Contact Esri | Report Abuse | Contact Us

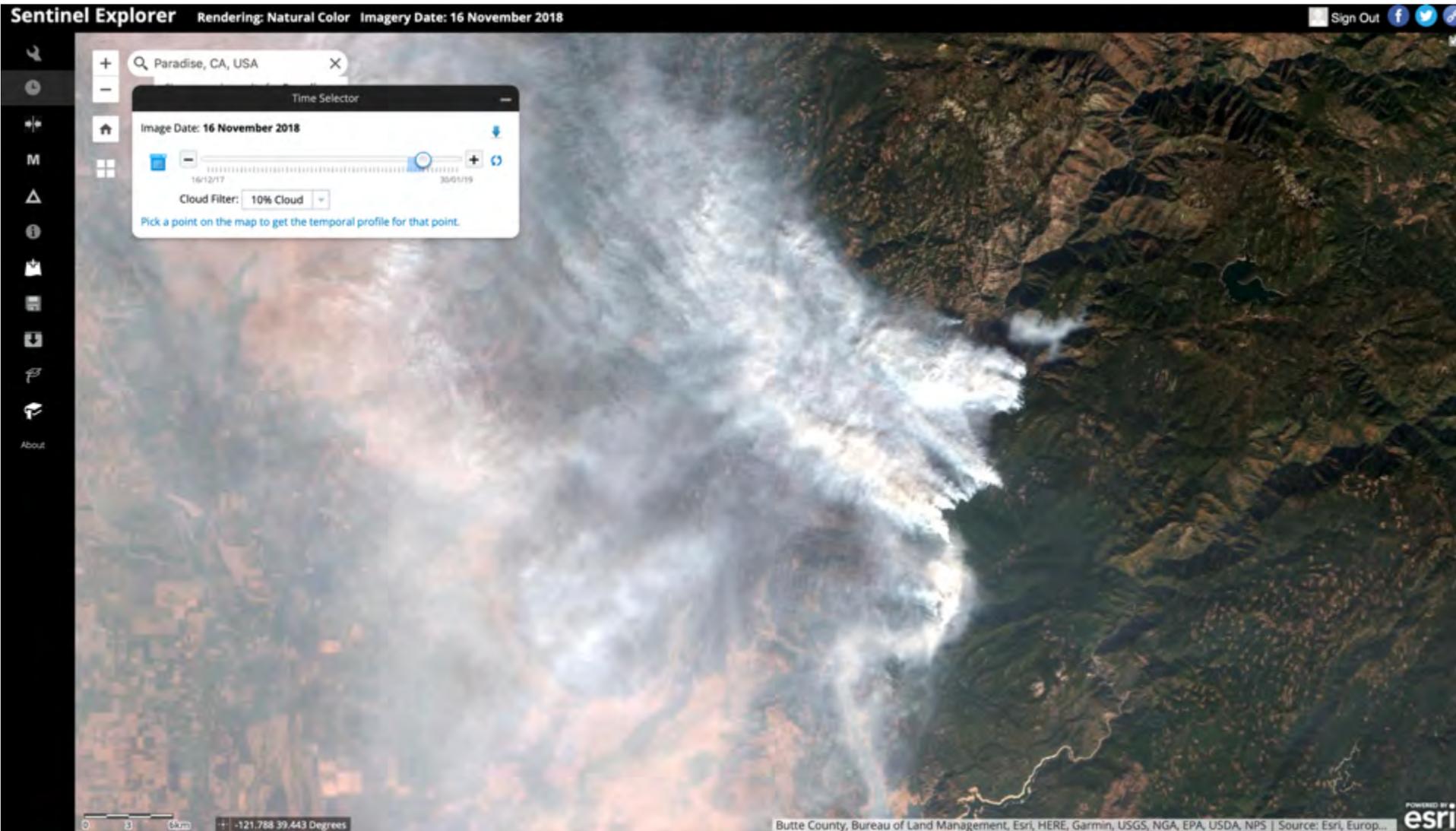
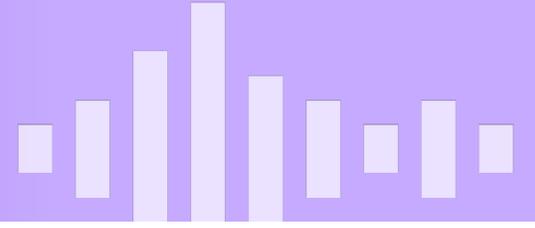
AGOL - Dashboards



AGOL – Story Maps



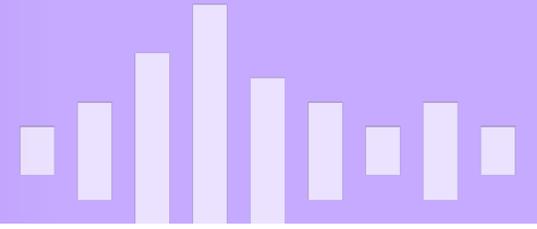
Online Apps



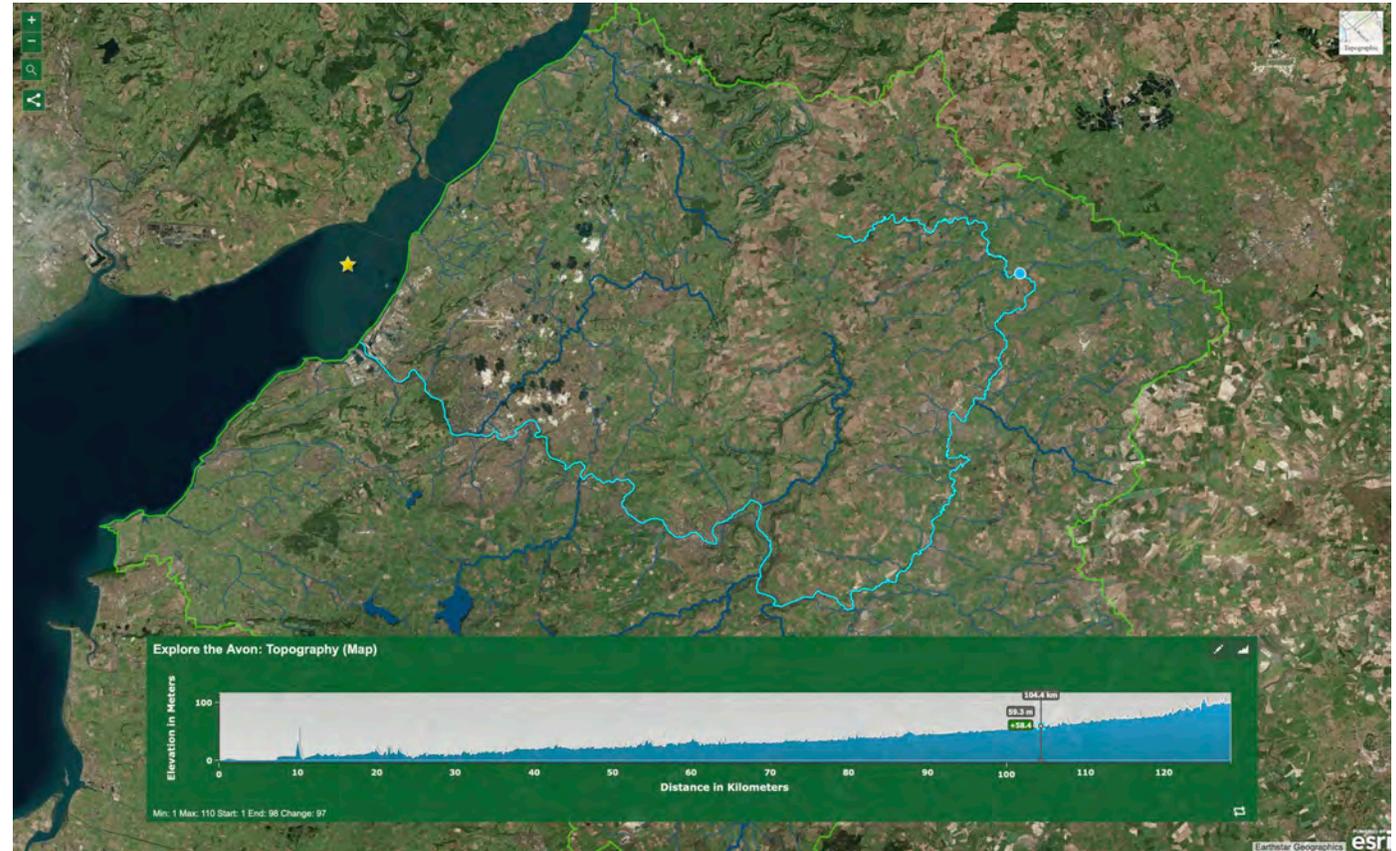
Esri Sentinel-2
Data Explorer

Paradise Fire
2018

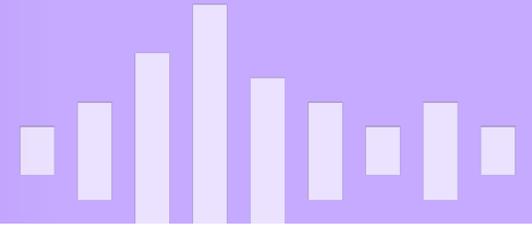
Online Apps



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



AGOL - Free Lesson Activities



Q Search ✕

I Want To

[Learn GIS](#) [Teach From Front](#) [Give to Students](#) [Conduct Fieldwork](#) [Select All](#)

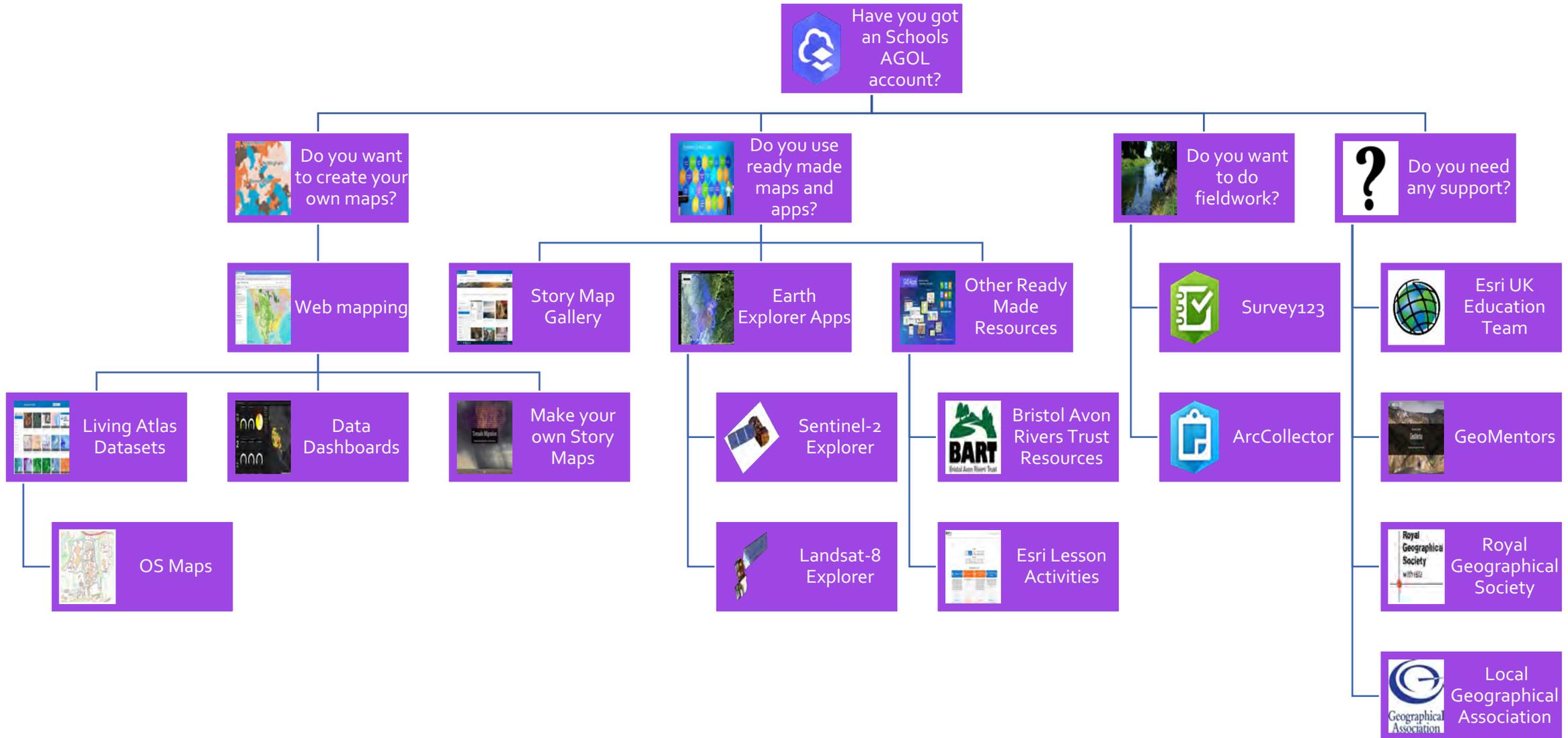
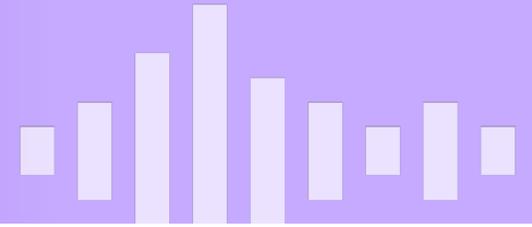
Resource Type

[Lesson](#) [Maps and Tools](#) [Home and Revision](#) [Data](#) [Select All](#)

Displaying 99 of 164 available resources

 Mapping Our Shores  <p>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 [...]</p> <p>View Resource</p>	 Taming Open Data  <p>Sources of free data for schools, and how to use them.</p> <p>View Resource</p>	 Demographic Data II: Adding data to ArcGIS Online  <p>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).</p> <p>View Resource</p>	 Tropical Cyclone Exposure in the United States  <p>MarineCadastre'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.</p> <p>View Resource</p>
--	--	---	---

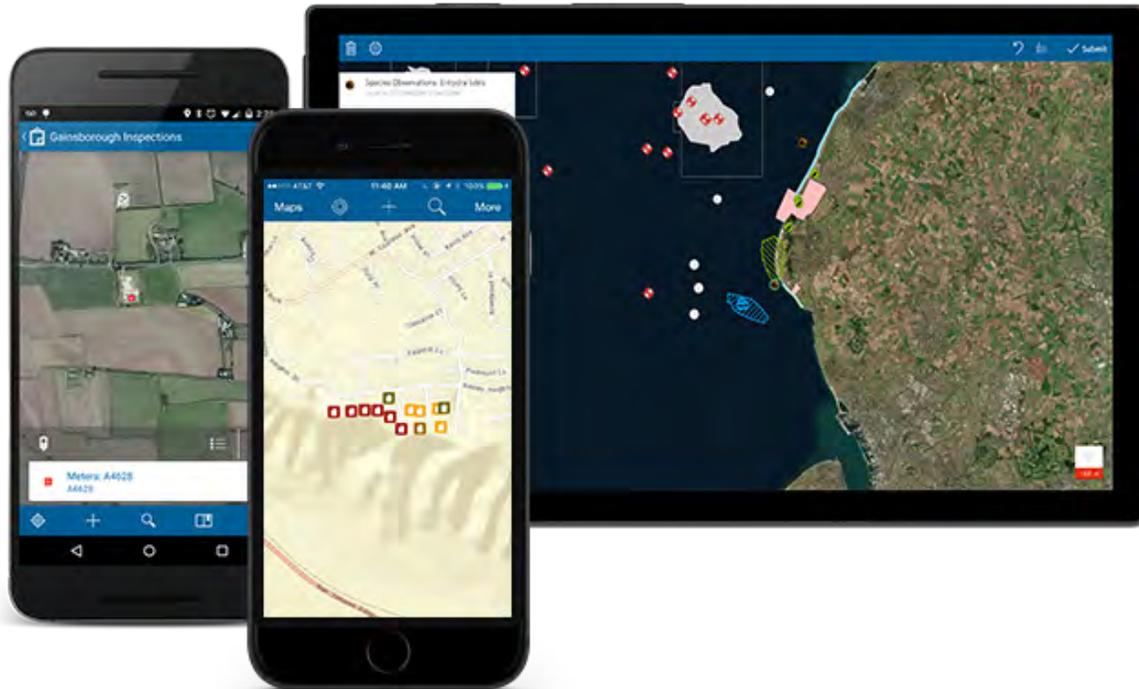
Bringing it Together...



AGOL – Fieldwork Apps



ArcCollector



Survey123

A screenshot of the Survey123 app interface. The title bar is green and says 'My Survey'. The form contains several questions: 'What's your name?' with a text input field; 'How old are you?' with a text input field; 'Do you have any pets?' with radio buttons for 'Yes' and 'No'; 'Are you having a god time at Ozri?' with radio buttons for '1 Star', '2 Stars', '3 Stars', '4 Stars', and '5 Stars' (the '5 Stars' option is selected); and 'Where did you travel from?' with a text input field. A note below the last question says 'GPS coordinates can only be collected when outside.' The bottom of the screen has a green bar with a white checkmark icon.

Survey123 Workshop

Harry West
harry.west@uwe.ac.uk

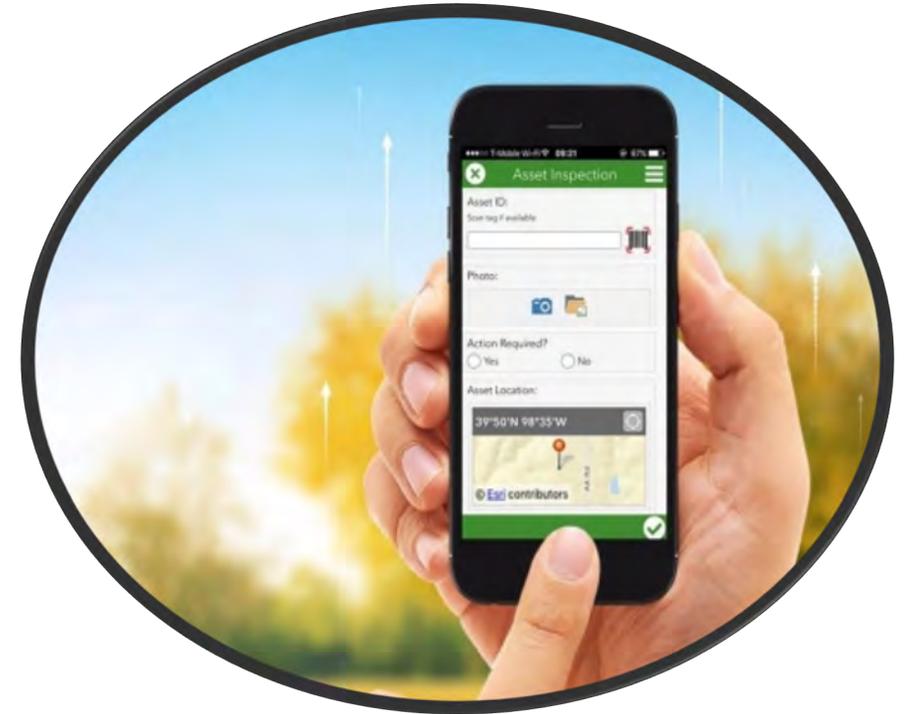
Department of Geography & Environmental Management
University of the West of England, Bristol



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

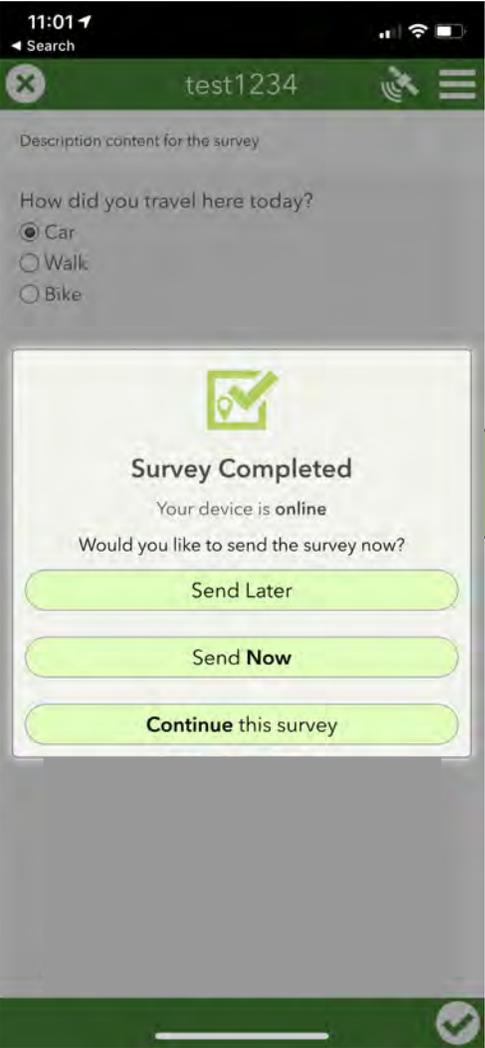
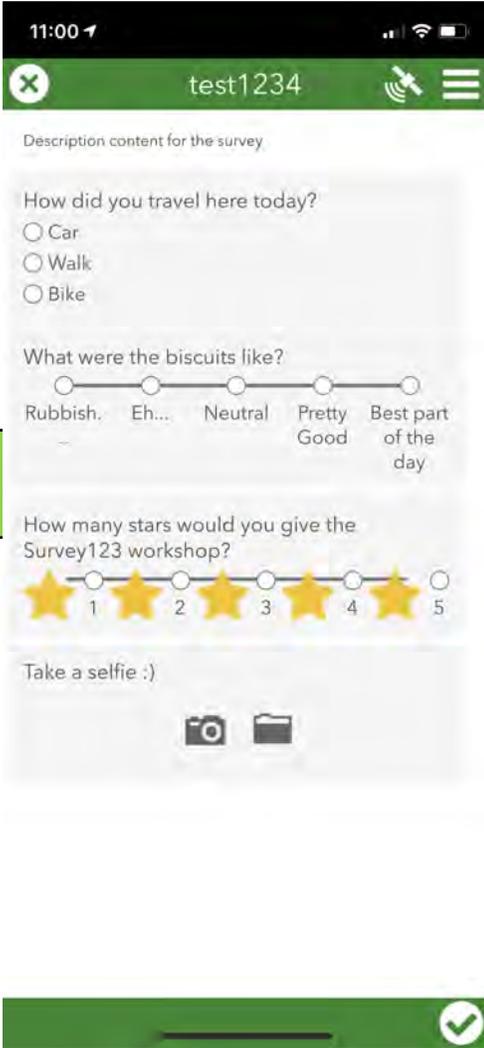
3 How many stars would you give the Survey123 workshop?

4 Take a selfie :)

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

Submit

Collecting Data



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



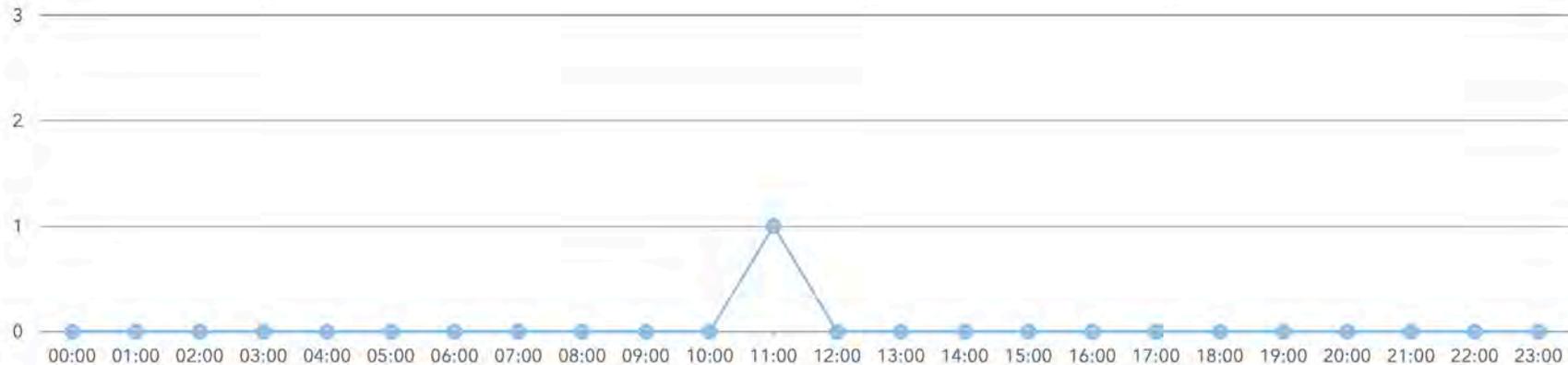
First Submitted On



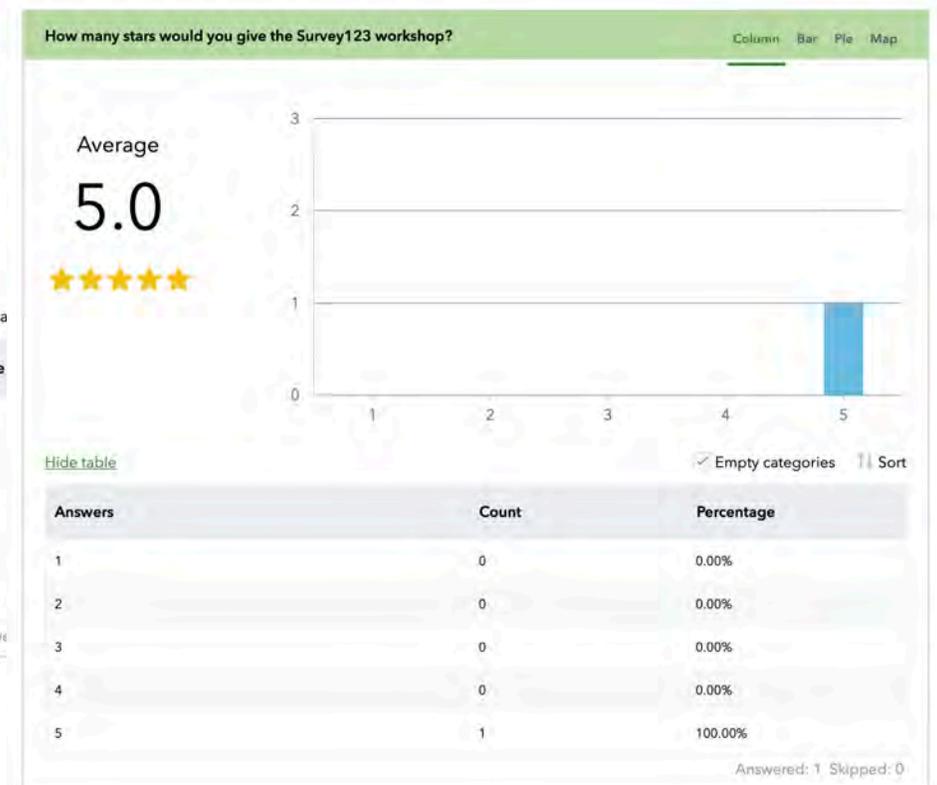
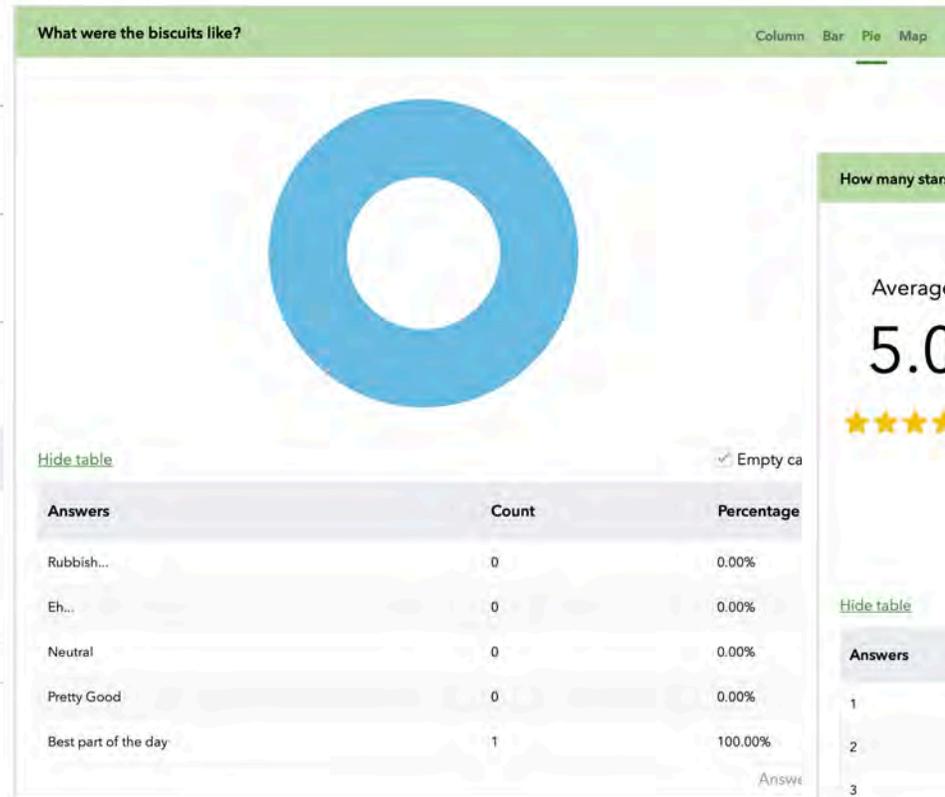
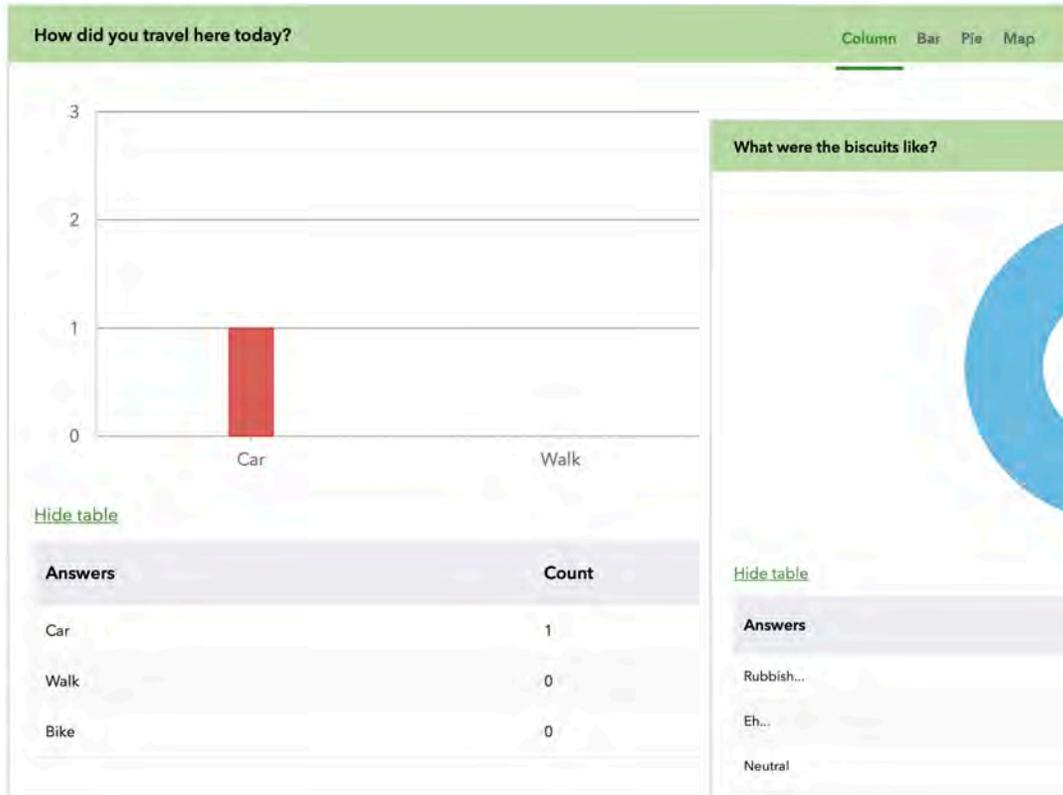
Last Submitted On ¹

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 Overview Design Collaborate Analyze **Data** Settings

6/22/19 - 6/22/19 Filter Report (Beta) Export Open in Map Viewer Show individual response 1/1

University Of The West Of England Frenchay Campus

Esri UK, Esri, HERE, Garmin, INCREMENT P, USGS

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



- 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. [\(Learn more about this option\)](#)