# GFauna CYFlora

**Saving Nature Together** 





# Communicating with StoryMaps

**Showcasing conservation impact** with interactive material

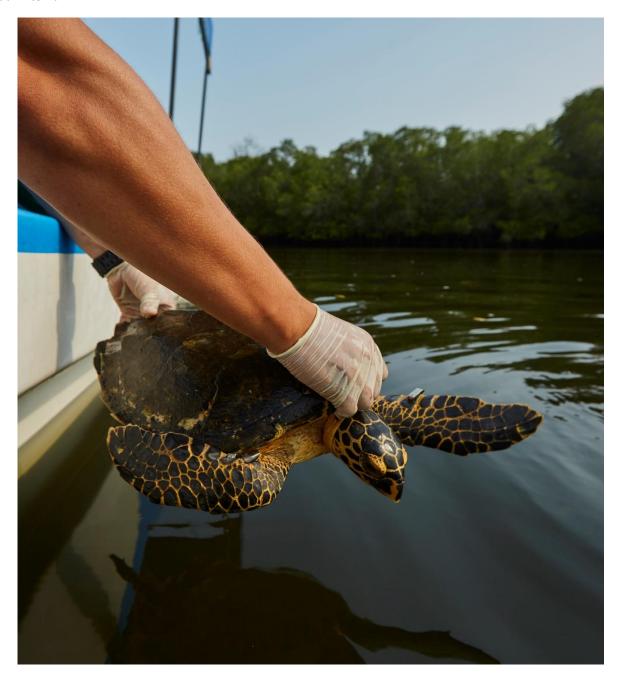
CHELSEA SMITH, FAUNA & FLORA

#### Fauna & Flora

Fauna & Flora is a nature conservation charity protecting the diversity of life on Earth. For the survival of species and habitats, the **planet and people**.

Fauna & Flora supports, sustains, and strengthens local nature conservation action around the world.

We work closely with **local conservation** partners to protect habitats, revive the ocean, stop extinctions, stop illegal wildlife trade, combat climate change and more. We use our collective expertise to inspire positive change globally.



#### How we work

We work alongside partners and local communities to develop conservation projects.

We have a lot of external communication needs, including reporting to donors, running community workshops etc.

We work globally with a wide range of people and skill-levels

Word, Slides, PDFs are the usual format but hard to make engaging.



# **Conservation Technology at Fauna** & Flora

**Conservation is inherently spatial.** 

The conservation technology team support our incountry staff and partners to collect, analyse and communicate data.

Visualising our analysis is what makes it impactful and accessible to the people who need it.

ArcGIS's powerful tools allow us to produce highquality publication-ready maps alongside engaging interactive online maps to reach every audience we have.



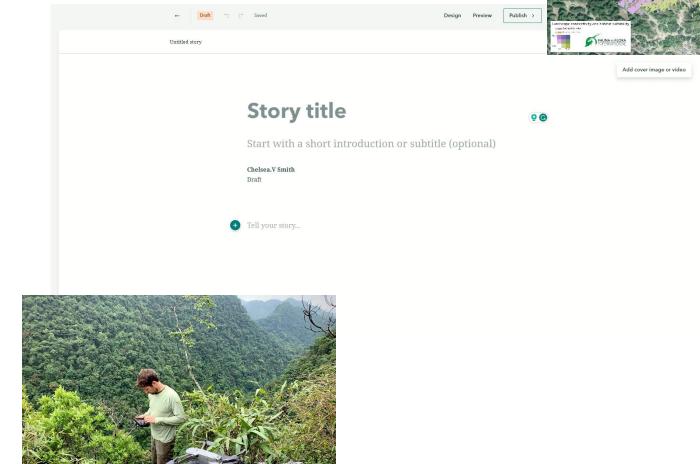
## **ArcGIS StoryMaps**

Communicating our work is fundamental to what we do

ArcGIS StoryMaps are a valuable communication tool

Easy to use drag & drop functionality promotes collaborative working

Immersive and dynamic mixed media helps break down the barriers to understanding our work







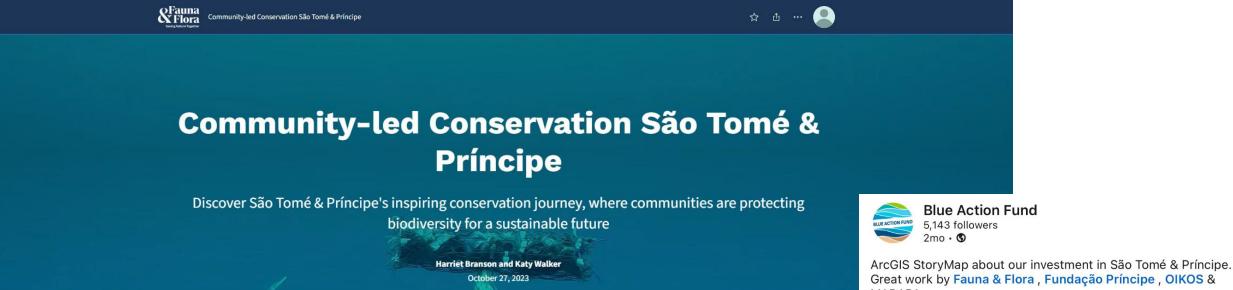


We have been wrestling with how to present all of this information so it is accessible to build on for practical conservation efforts rather than languishing in dust-gathering reports.

Enters ArcGIS' Storymap which we have recently used to present crime script data and provide a very visual step by step account of commercial snaring and gun hunting in this area....

Field teams involved in patrols and government partners in Pu Mat seem to **engage more actively** with the crime scripting information when it is displayed on maps and not just presented as a narrative. I'm noticing that there are more questions and remarks following presentations or during workshops involving maps

Laure Joanny, Senior Technical Specialist, Wildlife Trade



MARAPA.

https://lnkd.in/eHMs\_5bG

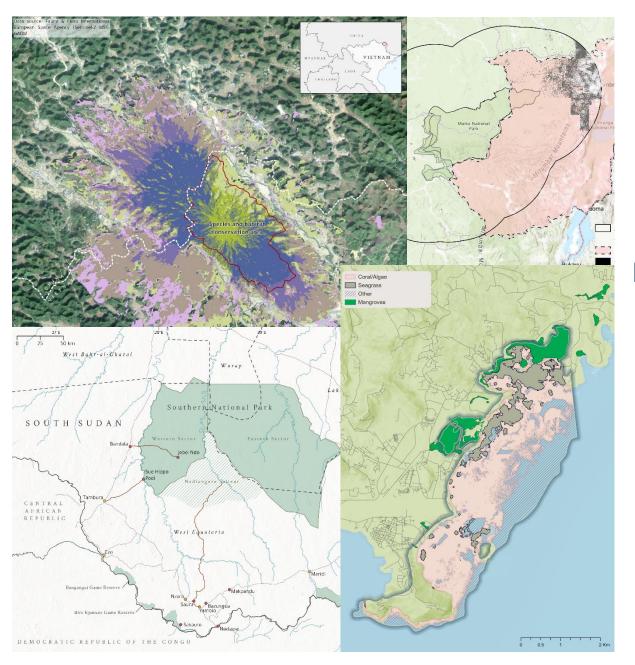


Community-led Conservation São Tomé & Príncipe

storymaps.arcgis.com · 1 min read

Story maps have helped engage local communities in our work and boost support of our projects

Story maps have helped us report to donors in new ways, which has been widely welcomed



# Conservation Technology at Fauna & Flora

Supporting designation and design of marine protected areas in Sao Tome & Principe and Saint Lucia



Identifying mining threats in Maiko National Park in DRC



Identifying suitable sites for restoration to increase the movement of Cao Vit Gibbons



Modelling connectivity between game reserves in South Sudan

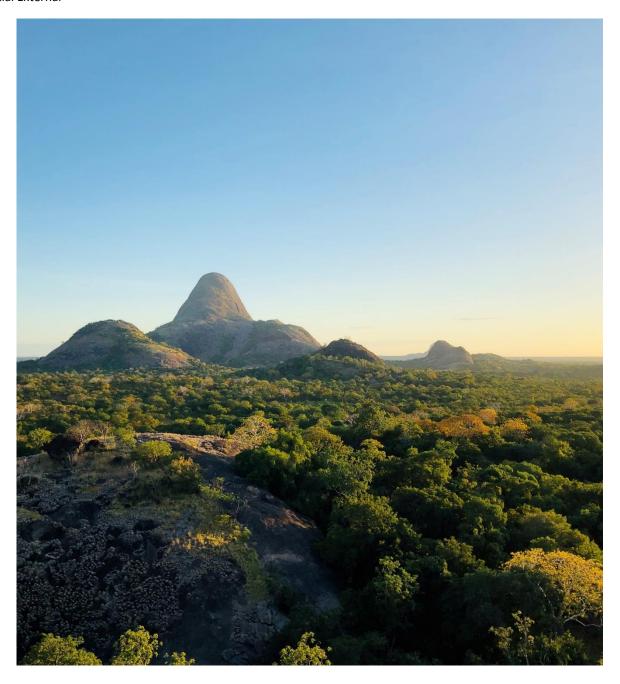


Internal and external capacity building, specific courses for GIS related to conservation

# Thank you!

CHELSEA.V.SMITH@FAUNA-FLORA.ORG







# Preparing young people with skills for life.



## **Oliver Eadsforth**

Senior Data Manager

The Scout Association





- Scouts is where young people make new friends, have amazing adventures and learn new skills.
- Every week we give almost half a million 4-25 year olds the skills they need for school, college, university, job interviews, giving presentations, overcoming challenges and achieving their dreams: the skills they need for life.
- Supported by over 150,000 dedicated volunteers, Scouts is currently undergoing its biggest digital transformation to date – enhancing the experience of our current volunteers and potential new recruits.

Scouts – Data and Insights team **Overview** 

- Part of the Data Team, formed in 2022.
   The Data and Insights Team was set up as part of our Digital Transformation
   Strategy
- A core element of Digital Transformation across Scouts is to make data more accessible and visible to our colleagues and volunteers – to use the power of our data
- With our new Volunteer Experience system – we aim to make it easier for new volunteers to sign up and to capture data throughout the volunteer journey



# Understanding our Inclusive Growth **Challenges - the story**

- COVID pandemic saw a significant drop in engagement numbers of young people were down by more than 15% and adult volunteers dropped by 11%
- We launched a campaign to attract new volunteers to open and run sections for young people in Scouts
- Scouts' census data indicated that the demographic composition of our members' ethnicities was disproportionately low compared to representation in local populations across numerous areas of the UK
- As a first step, we launched Squirrels new sections aimed at children aged 3-4 enabling young children to join Scouts at earlier ages



#### Understanding our Inclusive Growth

#### **Understanding our data**

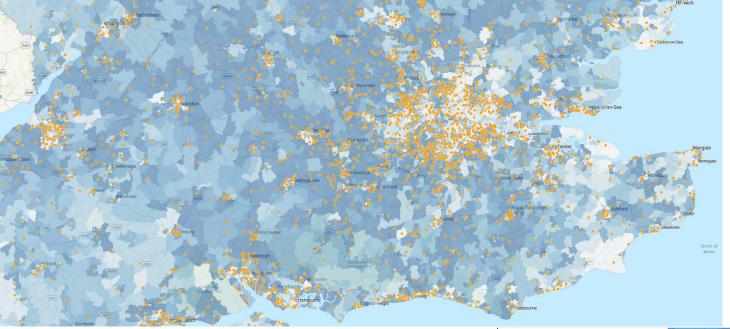
As early development, we started mapping out the data across our PowerBI suite – allowing us understand what our data is telling us.

#### We looked at:

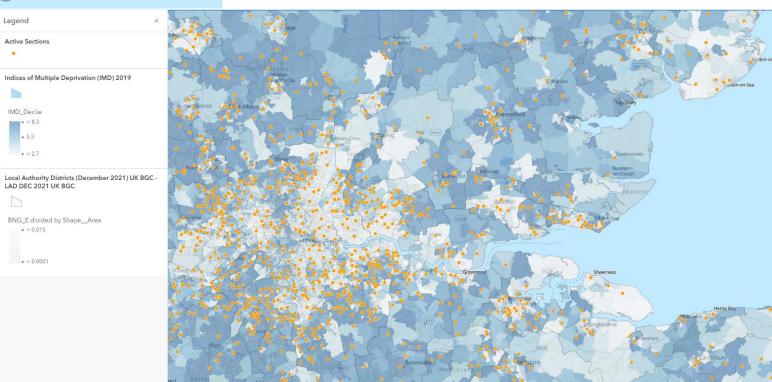
- Demographics
- IMD (Index of Multiple Deprivation)
- Where we are opening sections
- Number of sections types within areas
- Sections which are missing Squirrels







	0.1.1.1.1.5
County	Gt. London North East
District	Barking, Dagenham & Newham
District ID	10,001,013
IMD	4249
IMD Decile	2
Latitude	51.53





Visualisation tool supporting our Growth & Communities team identifying potential areas for growth and opening new sections.

We are continuing evolving the map and customising the data needed to be visible for our stakeholders to enable them to prioritise potential growth opportunities across their area.

We have used ArcGIS here at Scouts for less than a year – we want to ascertain and evolve our ArcGIS Services to reach out wider audience across Scouts.

Build on tapping into external data – including and not limited to: education data, schools data and free school meals.

- The number of children joining Squirrels has increased by more than 150% since 2022
- We are reaching and attracting more diverse communities of young people to Scouts
- Our new tools use data to identify and target recruitment
- We equip our Growth and Communities team with data to target potential areas of growth

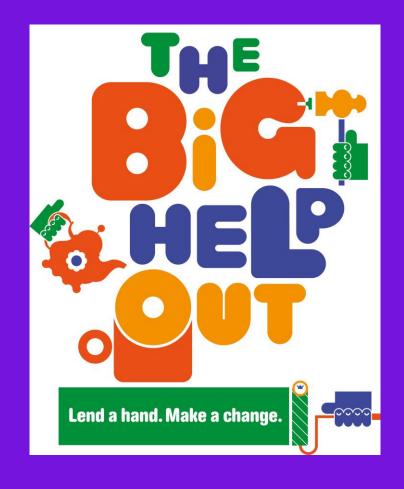


# Make all the difference.

Help young people across UK step up and dream big.









**#Skills for Life – Opportunities for Young People** 



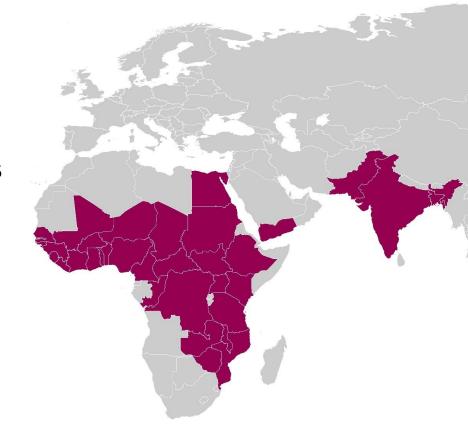
Using GIS to help eliminate eye diseases, Kenya

Alex Chailloux



# **Introduction to Sightsavers**

- Founded in 1950, Sightsavers works in over 30 countries
- Our vision is of a world where no one is blind from avoidable causes, and where people with disabilities can participate equally in society



**Protecting sight** 



Fighting disease



**Disability rights** 





## Trachoma disease

 Trachoma caused by the bacteria chlamydia trachomatis, is spread by infected flies or contact with an infected person. Left untreated repeated infection causes scarring & inward growing eyelashes. With every blink the eyelashes scrape against the ball of the eye and can slowly and excruciatingly lead to blindness

More than 40 countries count trachoma as a public health problem

125 Million people are at risk of going blind from trachoma 1.9 Million
people are blind
or visually
impaired from
trachoma

affecting millions

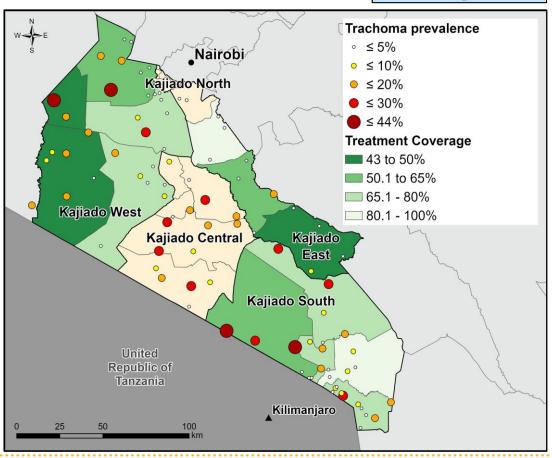


# Trachoma in Kajiado County- Kenya

#### The challenge

- Treatments provided during annual Mass
   Drug Administration and executed by
   Community Drug Distributors
- Trachoma is endemic in Kajiado
- Maasai Community (pastoralism, seminomadic Tanzania and Kenya corridor, Bomas)
- Trend in Kajiado: Population based prevalence surveys is high in 2021 and the coverage is poor compared 80% recommended (WHO)





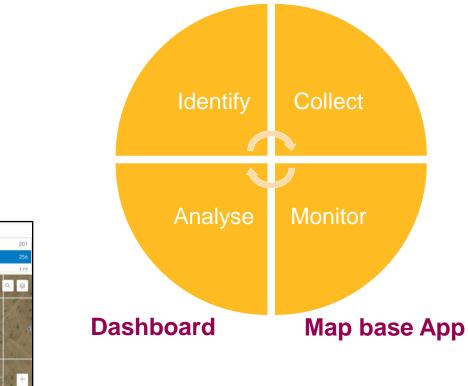


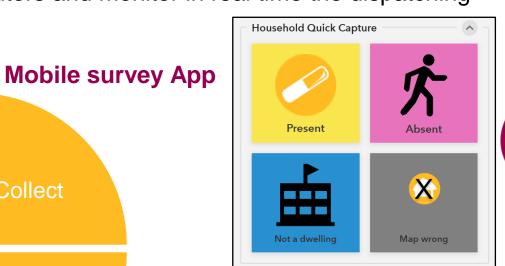
# GIS to monitor in real time the drug distribution

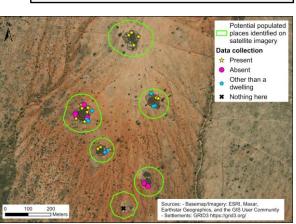
**Satellite imagery** 

New in 2022: geographical analysis to identify all potential inhabited areas on satellite imagery and collect GPS location of all the places visited by the drug distributors and monitor in real time the dispatching











# Measurables

Improvements in the data collection 2022 to 2023

GPS points collected	From 2022 to 2023
Dwelling visited	41.6%
Other building mapped	958%
Grand total	191%

Drug distribution Effectiveness : Coverage Evaluation Survey

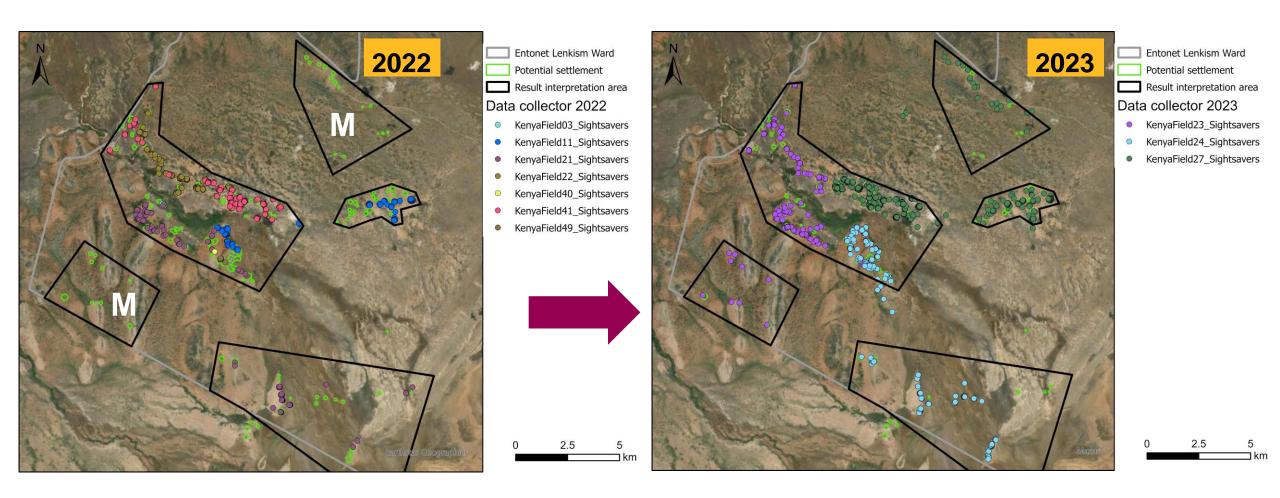
Year	Reference	CES results
2021	No technology	60%
2022	Year 1: GIS use	90%
2023	Year 2: GIS use	93.9%



James and Elizabeth, Community Drug Distributor, are photographed preparing azithromycin drug activity

➤ Digital tools supporting enhanced supervision and accountability of supervisors & timely oversight of the campaign, resulting in improvements in decision-making and ultimately improved MDA coverage

# Improve the efficiency in the field





# **Benefits & Challenges**





Investment in digital tools is worth it



GIS increased drug distribution coverage



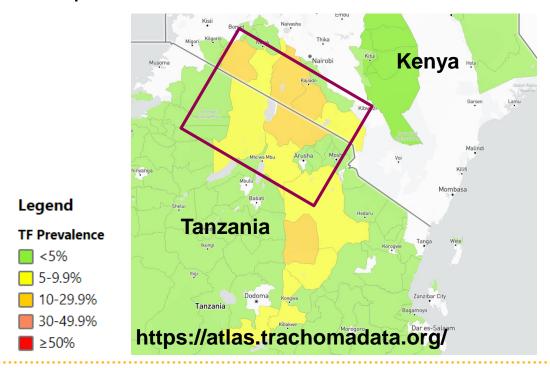
Accelerated disease elimination results in better life opportunities for those affected



# **Next Steps: Cross border collaboration**

- Ministry of Health drug distribution coordination across full Maasai territory (Tanzania / Kenya)
- Map the migratory patterns of the Maasai Communities to link with the epidemiology challenges and the annual distribution schedule
- Access to high resolution satellite imagery to extract and update new settlement locations







# Thankyou!

https://www.sightsavers.org/

achailloux@sightsavers.org

- SightsaversUK
- @Sightsavers
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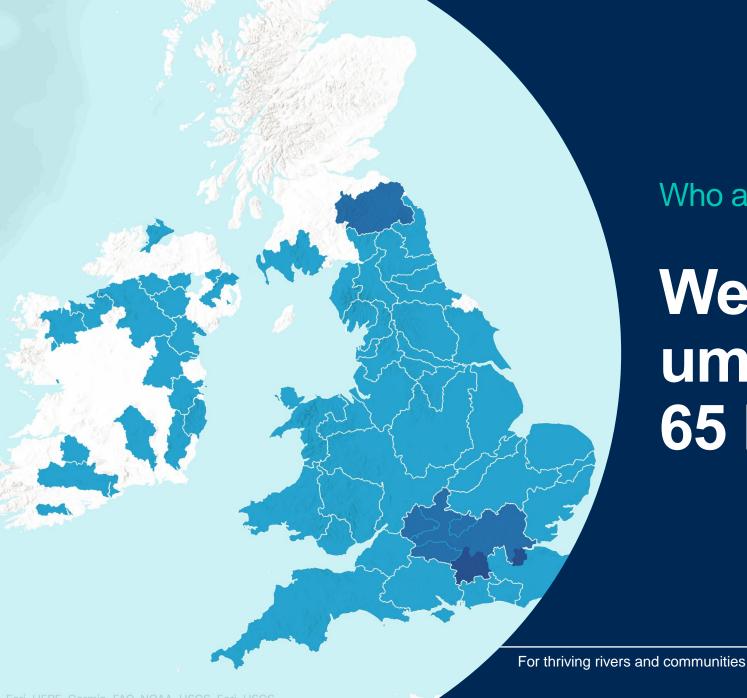


# Measuring your impact

Using Esri's digital mapping tools to collect citizen science data

Presented by: Anneka France, The Rivers Trust (anneka.france@theriverstrust.org)

Date: 29th February 2024





Who are The Rivers Trust?

# We are the umbrella body for 65 local Trusts

# Each member Trust carries out fantastic work to help our rivers in their local area

In 2022-23, the Rivers Trust movement...

Inspired 26,326 school children

Created or restored

hectares of wetlands

619

**Engaged** with 21,443 volunteers

Planted 340,623 trees



Installed

904

natural flood management measures



Delivered 496

river cleans

Opened up 1,329

kilometres of river for fish passage



Erased, passed, or removed

Completed

SUDS projects

fish barriers

# **Our priorities**





Mainstream nature-based solutions

#### **BRINGING LIFE BACK**

into rivers and protecting communities from the impacts of climate change



Research and expose

#### **POLLUTION SOURCES**

and use targeted, expert-led advice to enable change



Grow our monitoring programme and

#### STANDARDISE DATA

on a national scale



Apply pressure and work with government and businesses to

#### **ACCELERATE ACTION**

to improve rivers

# Plastic pollution in rivers – an evidence gap



As much as **80%** of marine plastics come from rivers

But over the past few decades data collection has typically been focused on beaches







Communities are more aware than ever about the issues with plastic pollution

and there are already lots of Rivers Trusts and community groups who are cleaning up their local rivers

# But the litter keeps flowing...







# The power of data

The Rivers Trust

Data driven campaigns can help to change business practice and government policy at a national level.

We needed to bring communities together to adopt a standardised approach to recording and reporting litter in rivers.



# Why did we choose ArcGIS software?



- We needed a collaborative solution our pilot project involved 18 organisations across 8 river catchments
- Being able to map the data and identify potential sources was important for advocacy and targeted action
- Working with large numbers of volunteers so we needed a user-friendly interface
- We wanted to empower our local communities and give them full access to their data





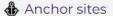






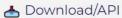










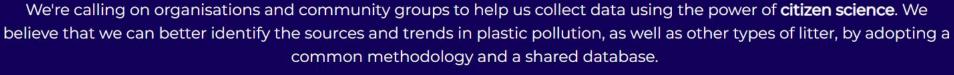




















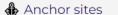




















Introduction

Select a location

Health & safety

Equipment

Data collection

Data upload

Share

#### Risk assessment



You must have an appropriate risk assessment for litter picking in place, as in normal circumstances. You can download an example risk assessment from The Rivers Trust, for your reference only.

#### **Example risk assessment**

This is generic to cover riverside litter picking activities for community groups. Events will need a further risk assessment for activities on the water or requiring...

https://preventingplasticpollution.com

#### **Public liability insurance**

Your group should have public liability insurance and it is your

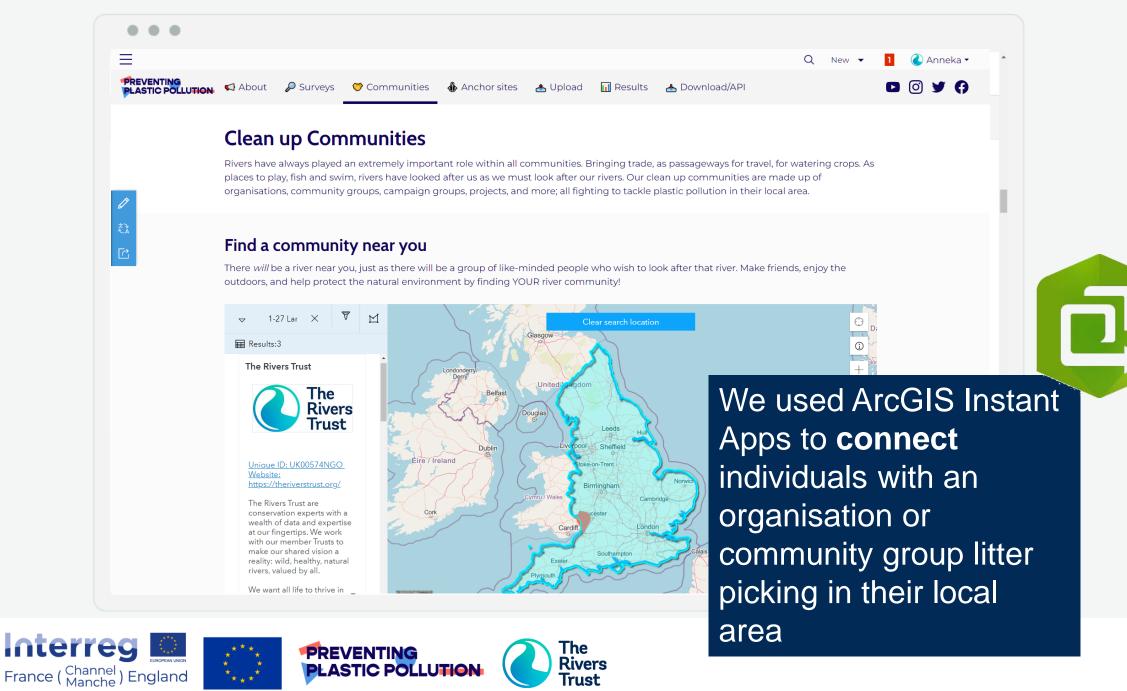
ArcGIS StoryMaps allowed us to share up to date guidance and instructions for volunteer coordinators



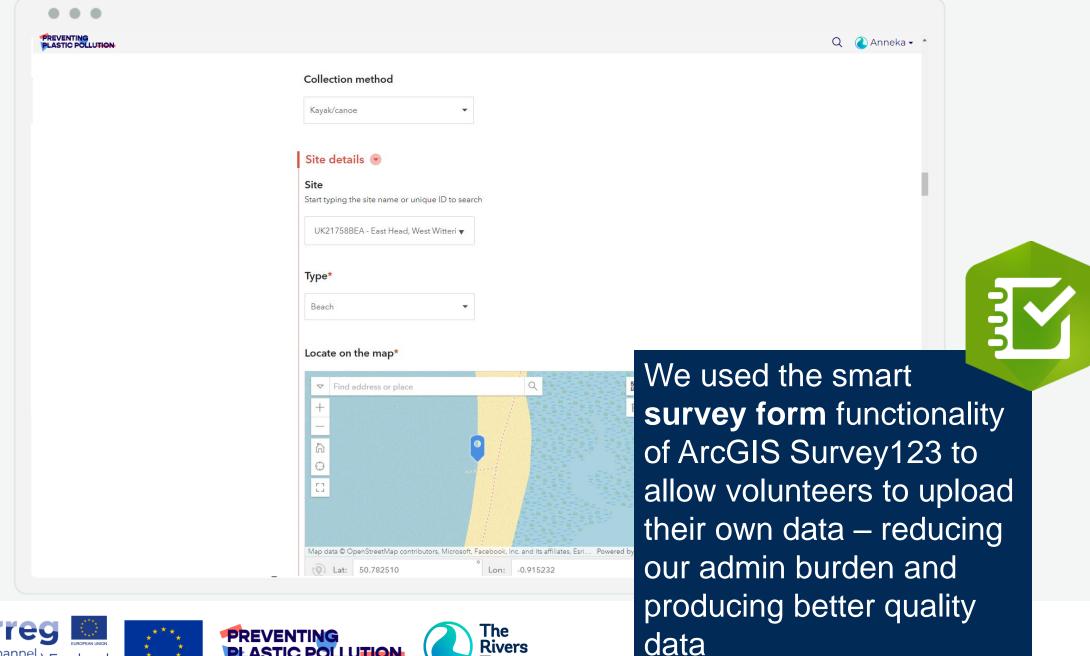










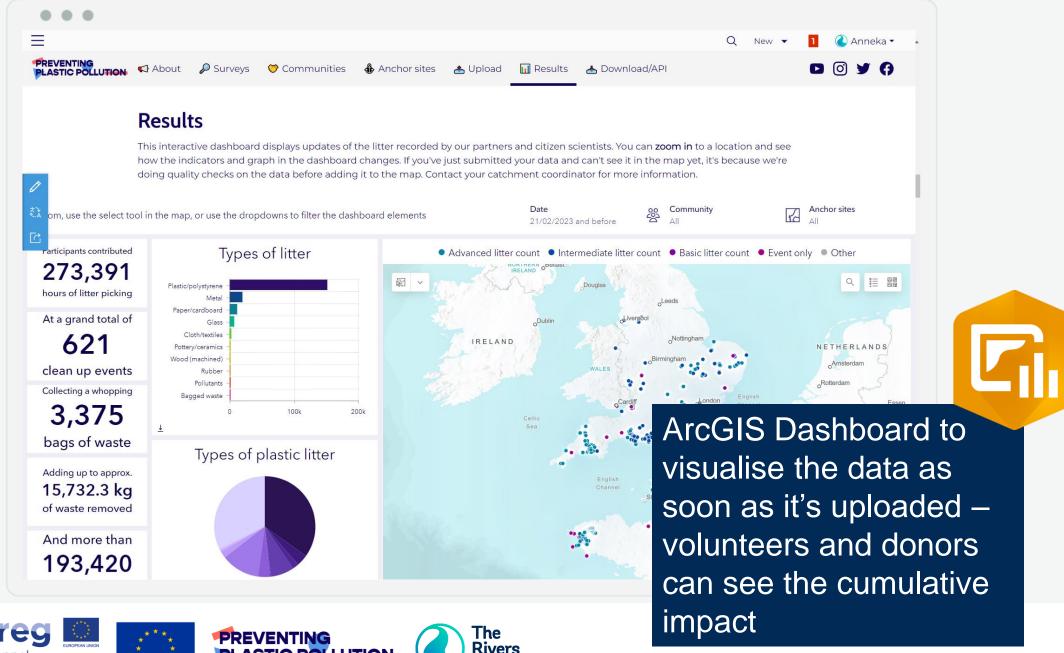










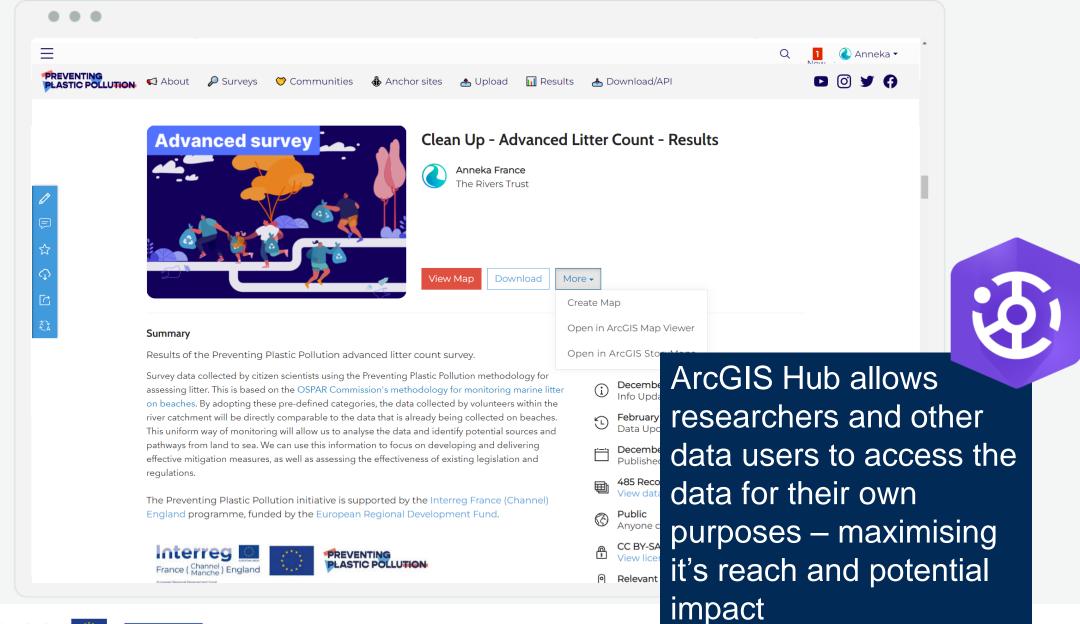




















More than

1,100 clean up events

A total of

380k items categorised

A whopping

41,000 kg of litter removed



## What's next?

- Continue to grow our database our pilot project has now come to an end, but many organisations and community groups are still uploading to our ArcGIS Hub site, and we're rolling out across more river catchments.
- Seeking funding to continue supporting the platform and collaborating with other organisations.
- We have a wider programme working on developing a standardised framework for freshwater
   Citizen Science and will be exploring how to maximise the impact of the data.

# Thank you.

Find out more at theriverstrust.org





