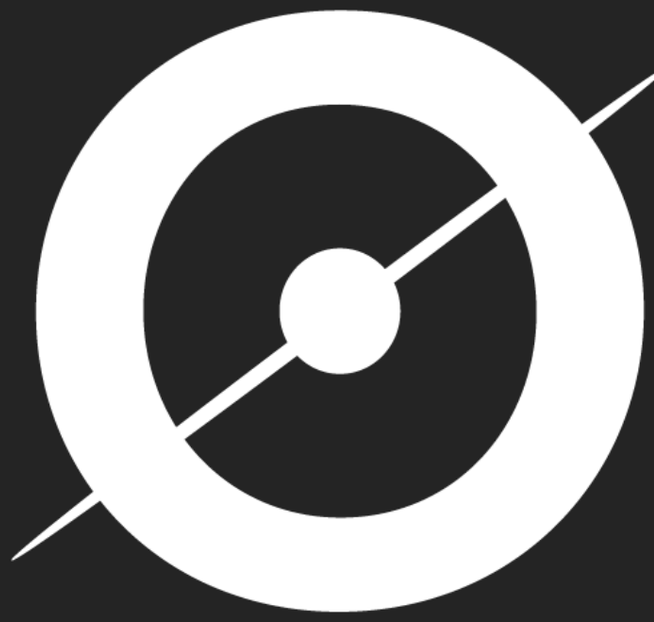
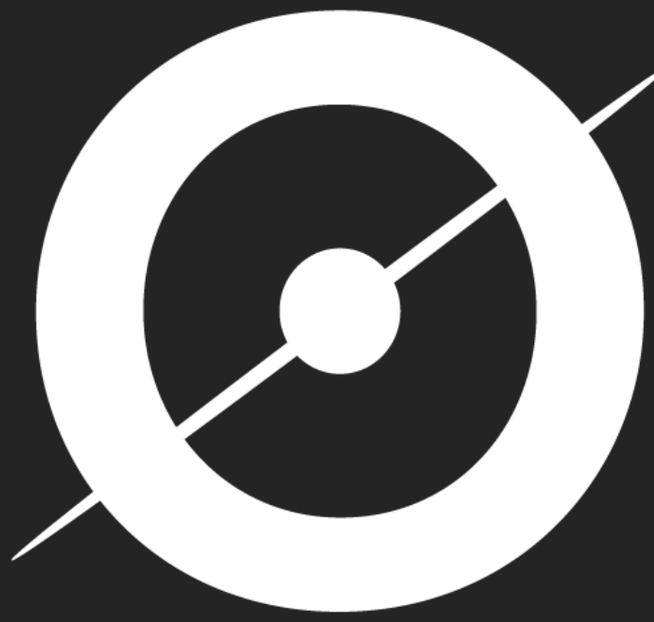
EO and Citizen Science with 1.4 million volunteers



Brooke Simmons

Zooniverse
University of Oxford

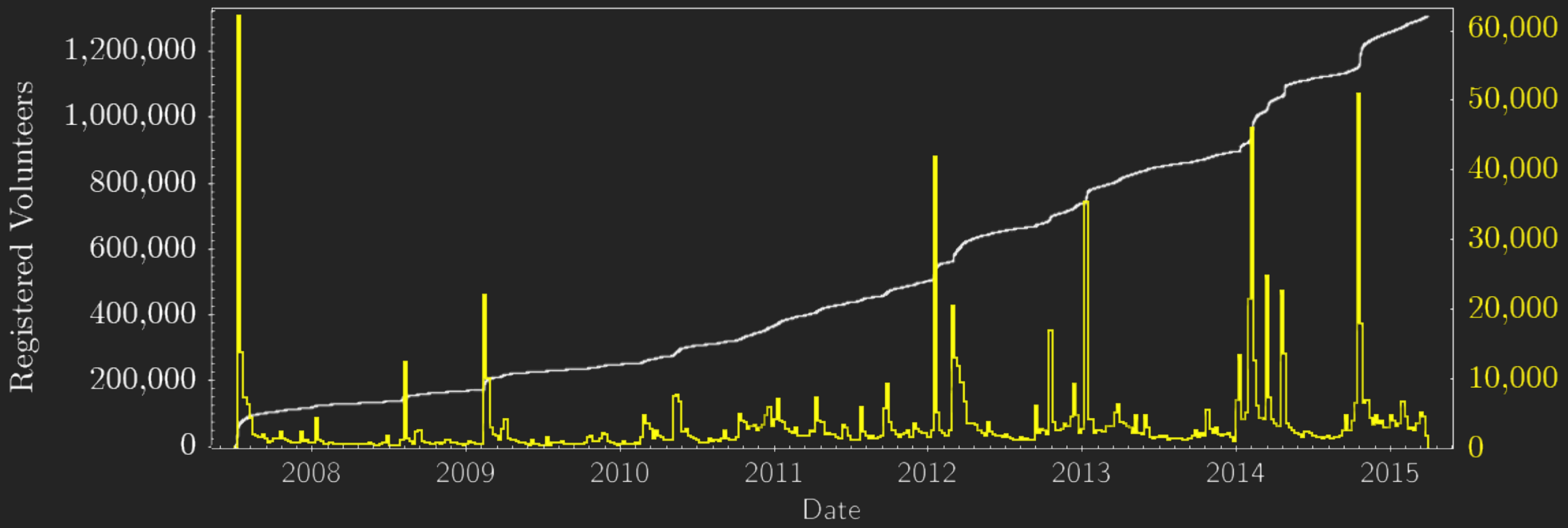
EO and Citizen Science with 1.4 million volunteers



Brooke Simmons

Zooniverse
University of Oxford

ZOONIVERSE


Registered Volunteers
1,200,000
1,000,000
800,000
600,000
400,000
200,000
0
60,000
50,000
40,000
30,000
20,000
10,000
0
2008
2009
2010
2011
2012
2013
2014
2015
Date

Brooke Simmons

ZOONIVERSE

PENGUIN WATCH

vrooje SIGN OUT 1

HOME CLASSIFY PROFILE SCIENCE TEAM DISCUSS BLOG

Monitor Penguins in Remote Regions

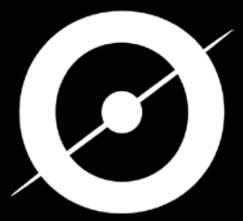
Scientists have travelled to some of the coldest areas on the planet to learn more about penguin populations. Help annotate their images of wildlife in Antarctica and the Southern Ocean.

11375 IMAGES CLASSIFIED

Get started!

434 VOLUNTEERS PARTICIPATING

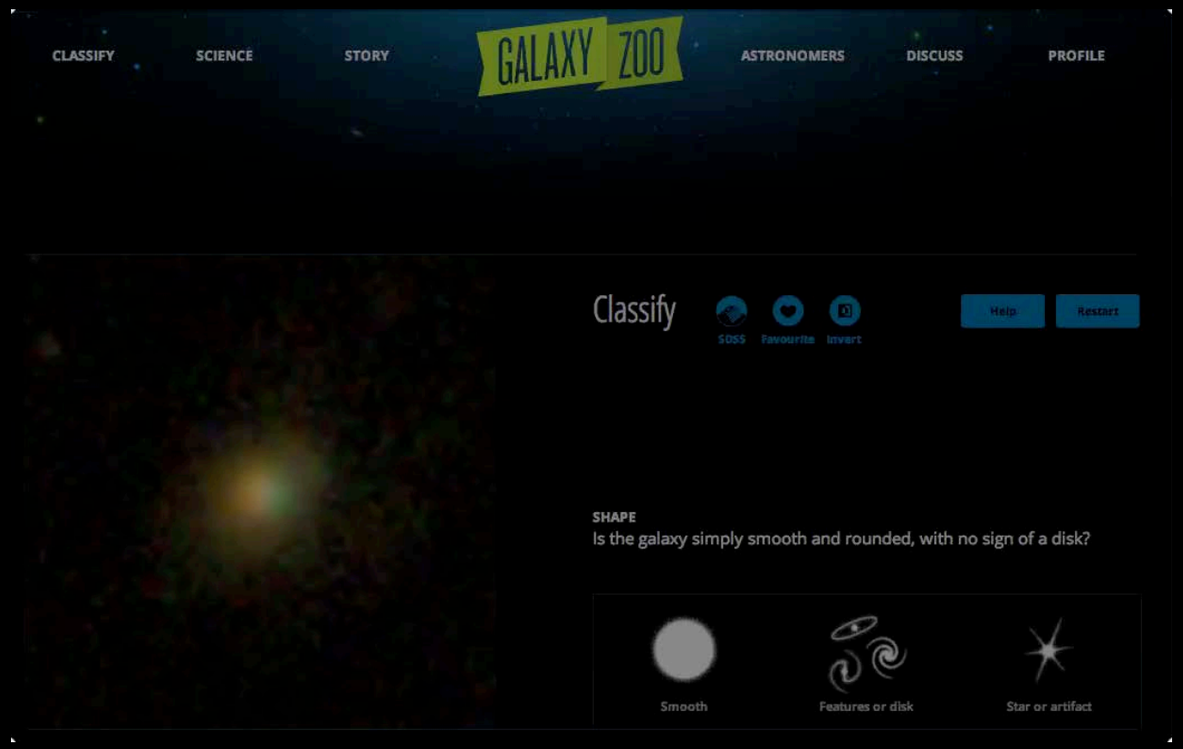
Brooke Simmons

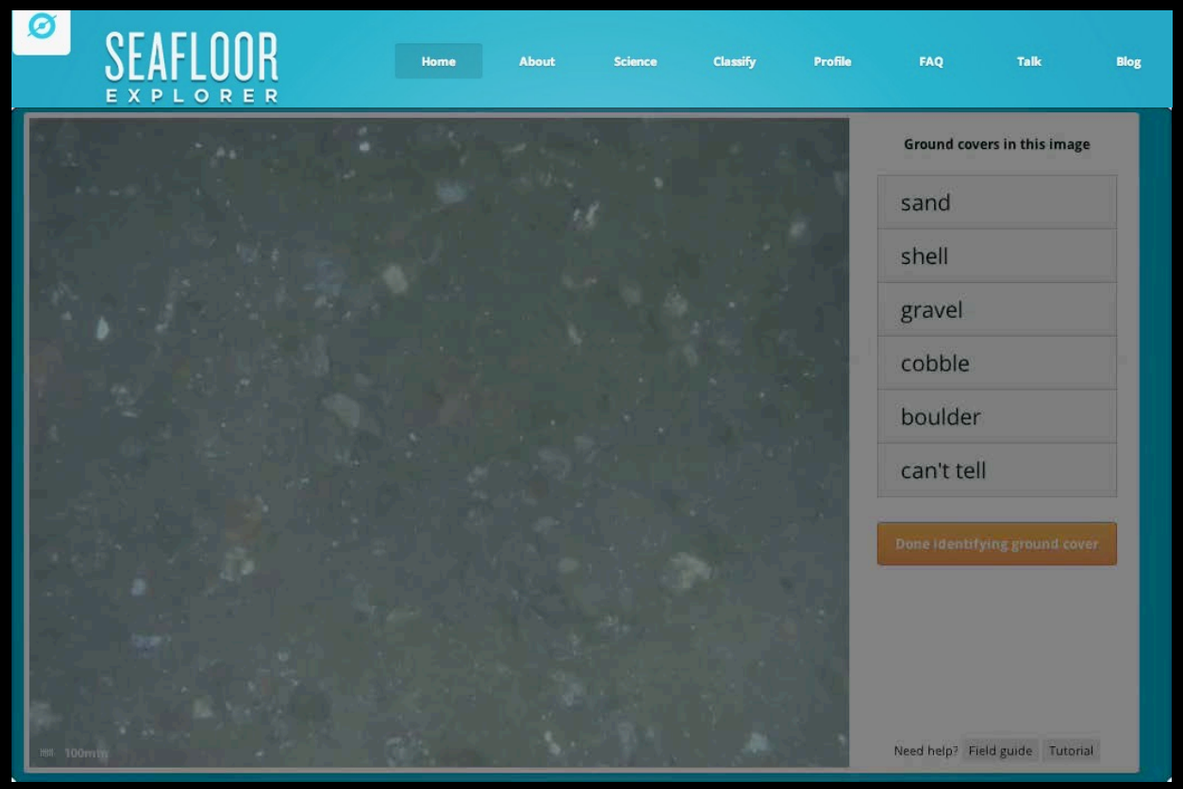


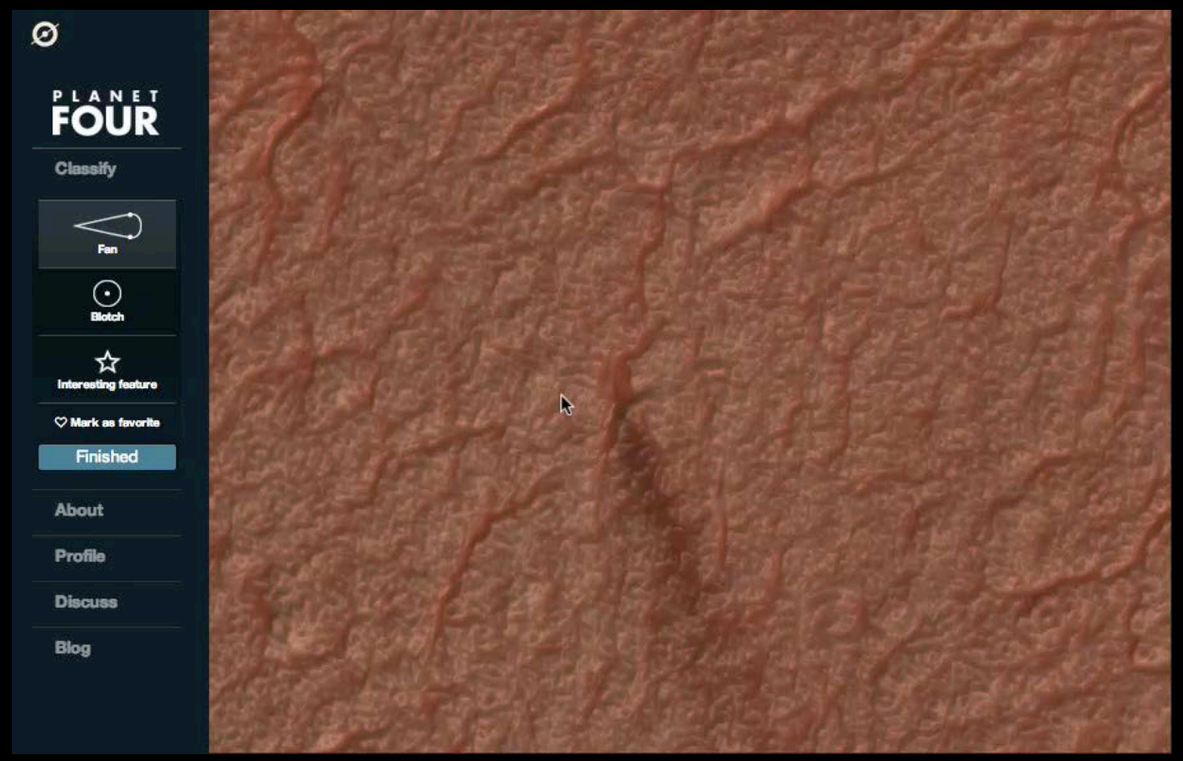
ZOONIVERSE

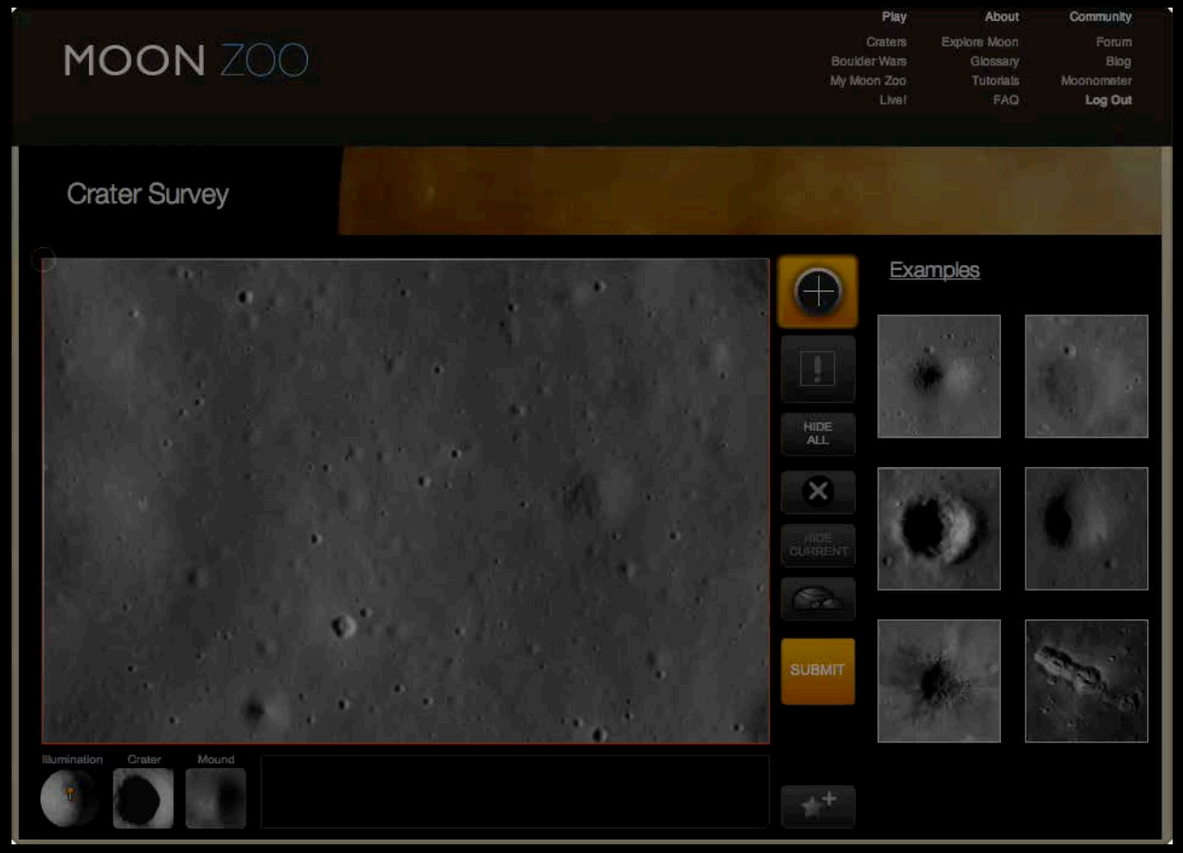
Do the simplest thing that works.

Design


CLASSIFY
SCIENCE
STORY
GALAXY ZOO
ASTRONOMERS
DISCUSS
PROFILE
Classify
SDSS
Favourite
Invert
Help
Restart
SHAPE
Is the galaxy simply smooth and rounded, with no sign of a disk?
Smooth
Features or disk
Star or artifact

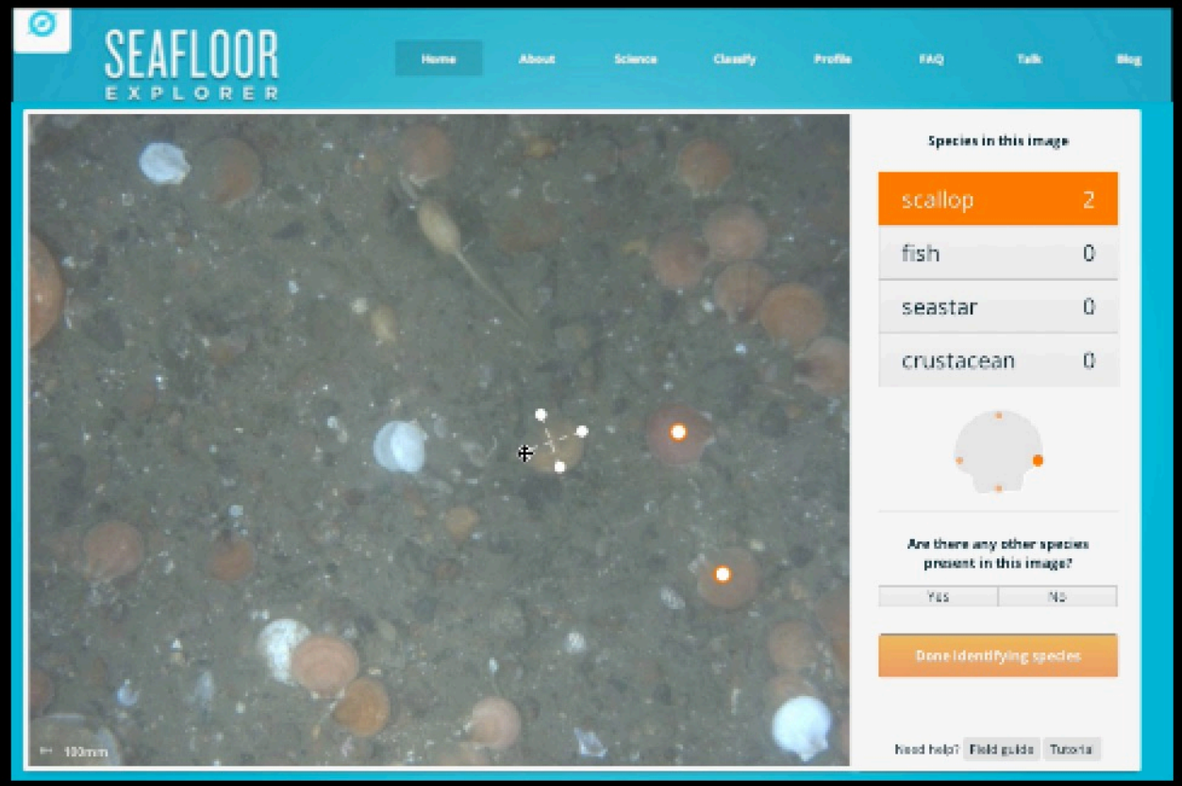

SEAFLOOR
EXPLORER
Home
About
Science
Classify
Profile
FAQ
Talk
Blog
Ground covers in this image
sand
shell
gravel
cobble
boulder
can't tell
Done identifying ground cover
100mm
Need help?
Field guide
Tutorial

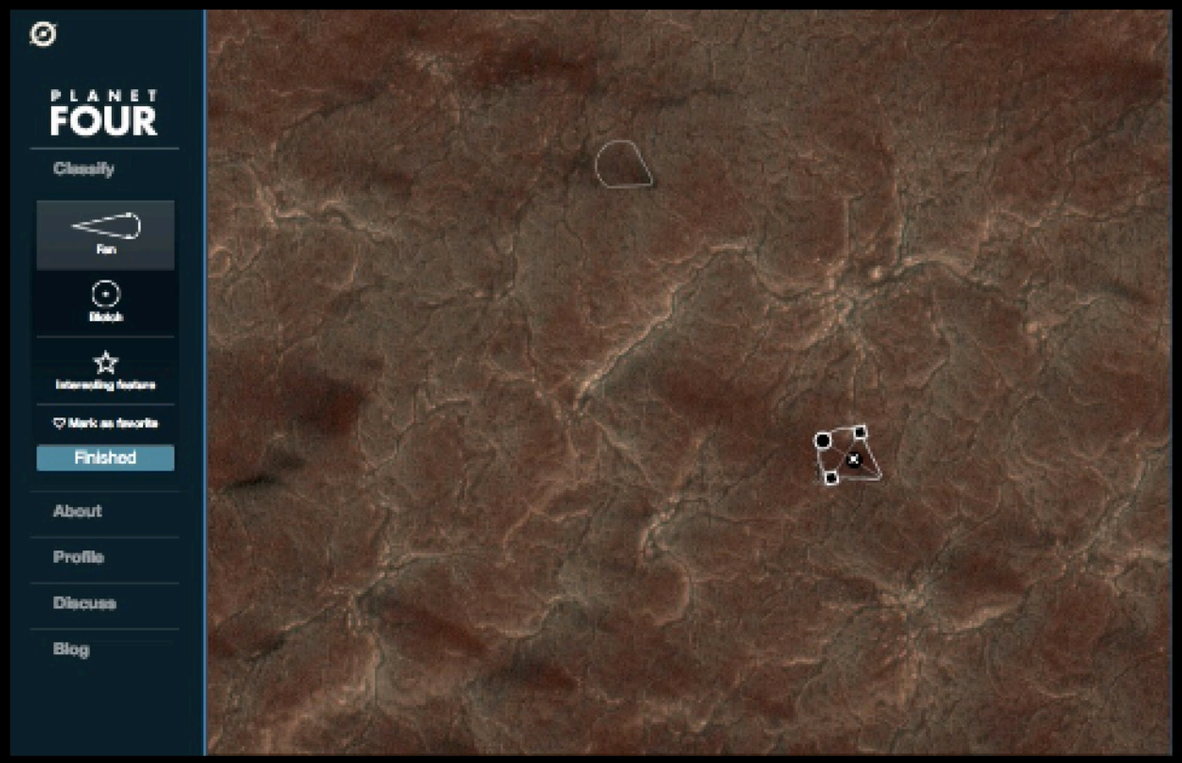

PLANET
FOUR
Classify
Fan
Blotch
Interesting feature
Mark as favorite
Finished
About
Profile
Discuss
Blog

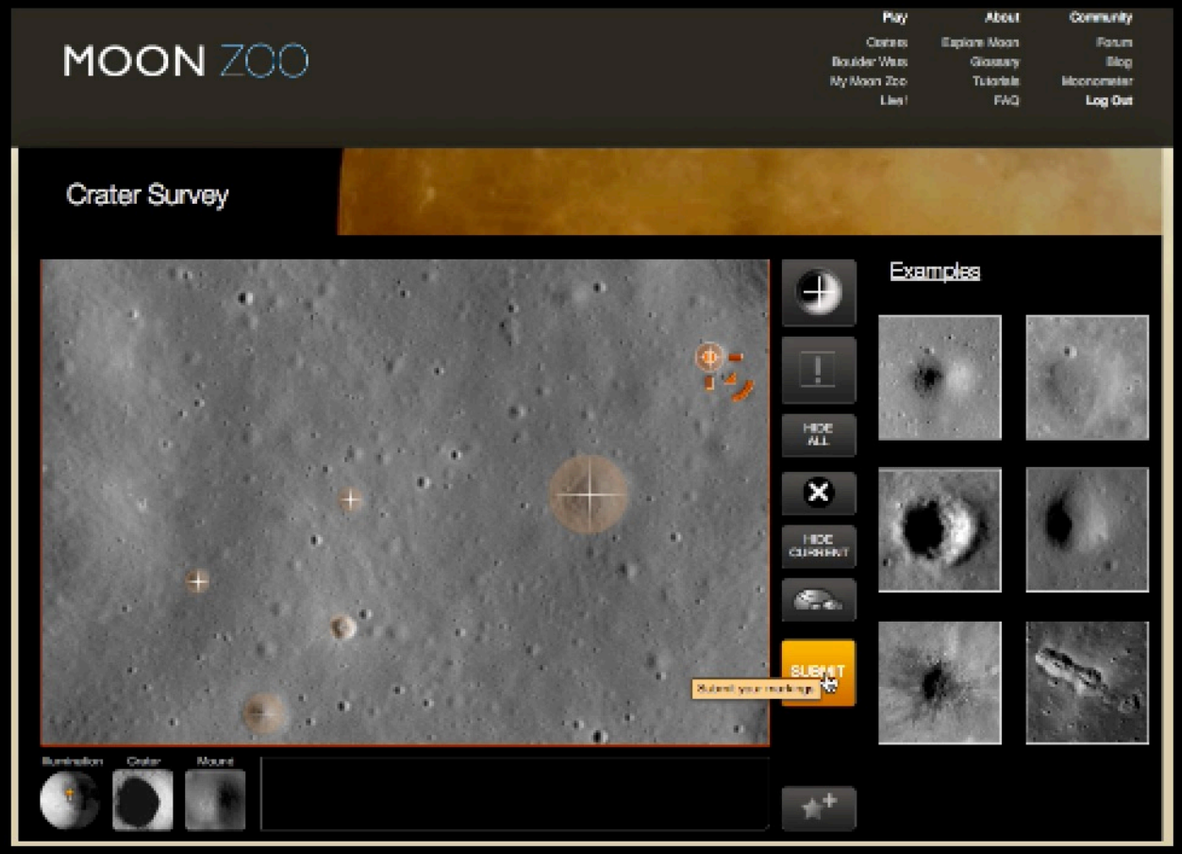

MOON ZOO
Play
Craters
Boulder Wars
My Moon Zoo
Live!
About
Explore Moon
Glossary
Tutorials
FAQ
Community
Forum
Blog
Moonometer
Log Out
Crater Survey
Examples
HIDE ALL
HIDE CURRENT
SUBMIT
Illumination
Crater
Mound

Design

CLASSIFY
SCIENCE
STORY
GALAXY ZOO
ASTRONOMERS
DISCUSS
PROFILE
Classify
SDSS
Favourite
Invert
Help
Restart
BULGE
How prominent is the central bulge, compared with the rest of the galaxy?
No bulge
Just noticeable
Obvious
Dominant


SEAFLOOR
EXPLORER
Home
About
Science
Classify
Profile
FAQ
Talk
Blog
Species in this image
scallop 2
fish 0
seastar 0
crustacean 0
Are there any other species present in this image?
Yes
No
Done identifying species
Need help? Field guide Tutorial

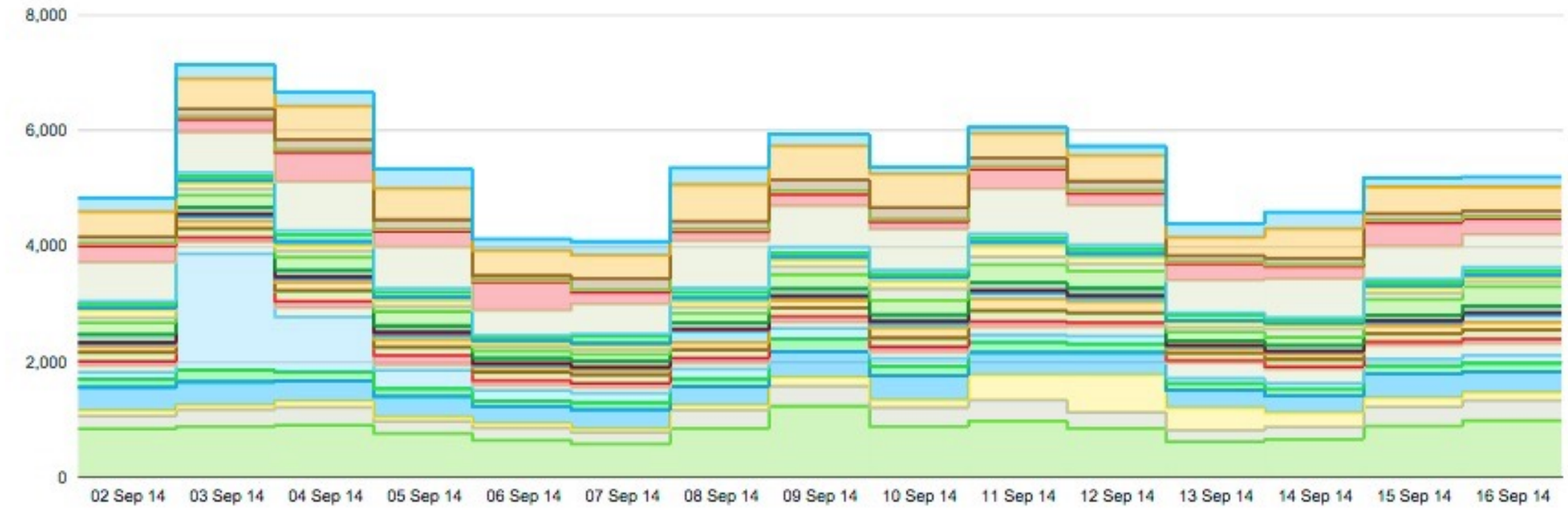

PLANET
FOUR
Classify
Fan
Blotch
Interesting feature
Mark as favorite
Finished
About
Profile
Discuss
Blog


MOON ZOO
Play
Comms
Boulder Wars
My Moon Zoo
Live!
About
Explore Moon
Glossary
Tutorials
FAQ
Community
Forum
Blog
Moonometer
Log Out
Crater Survey
Examples
HIDE ALL
HIDE CURRENT
SUBMIT
Illumination
Crater
Mound

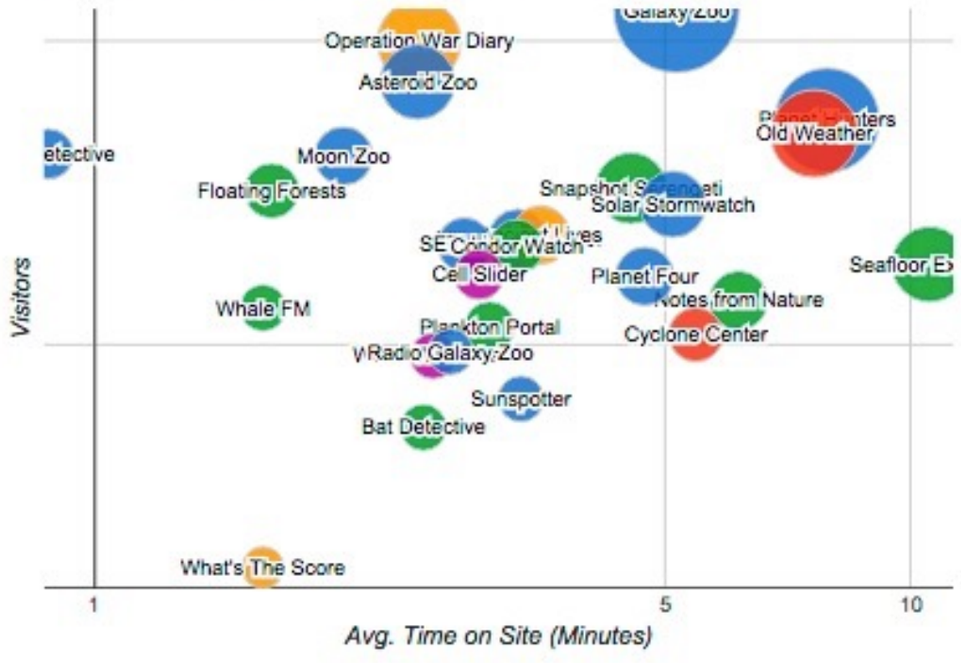
ZOONIVERSE

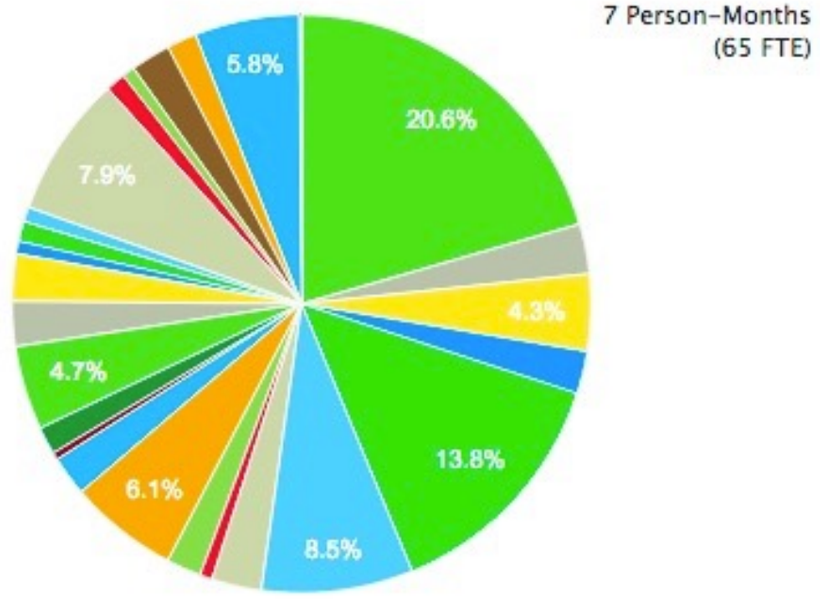
396,234 Pageviews (28,302 pageviews-per-day)
80,001 Visitors (4 pages-per-visit)
2 hours page load time

Daily Visits Across Projects



Human Attention Across The Zooniverse



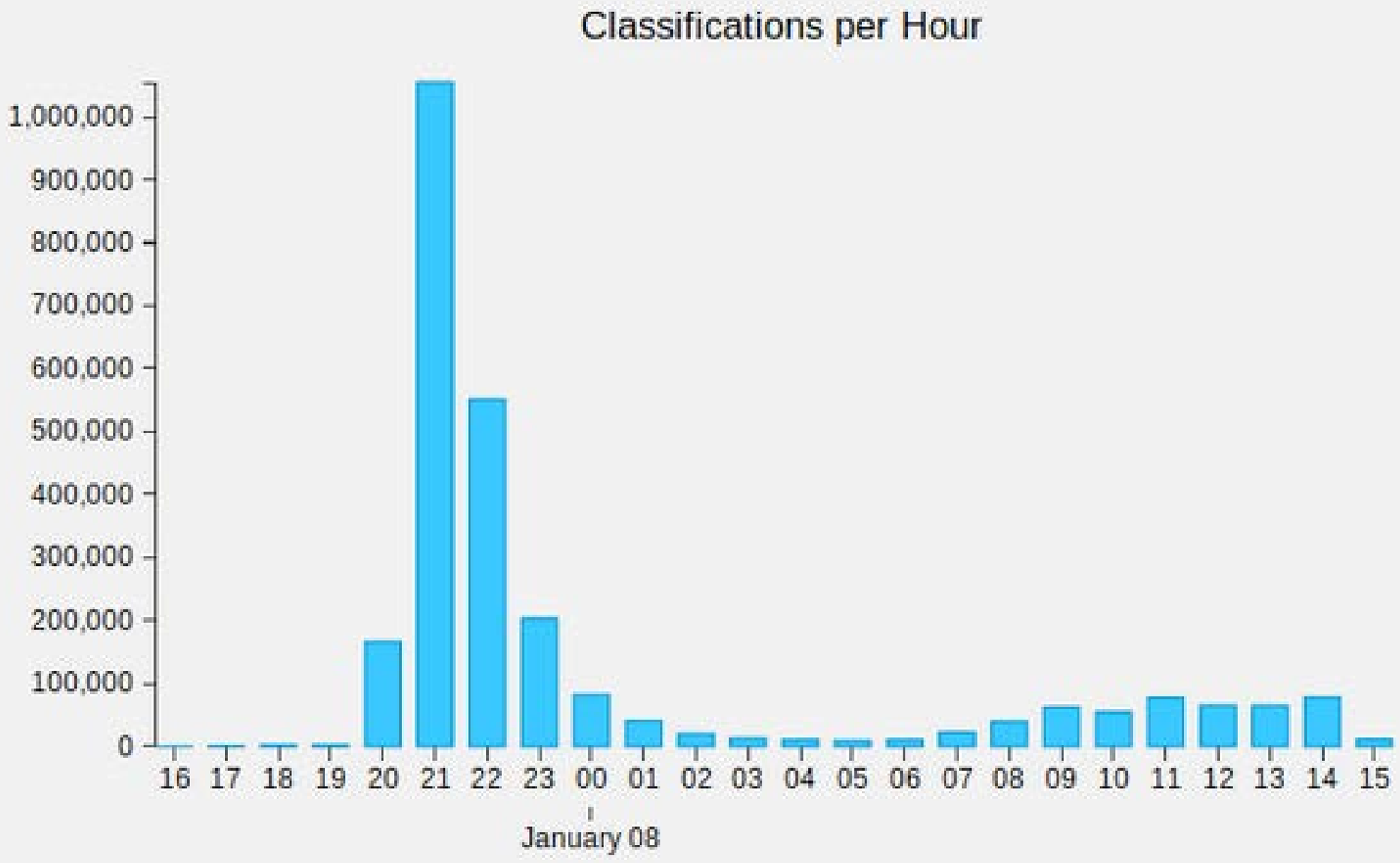


Space Warps

CLASSIFICATIONS

13,556,711

Total



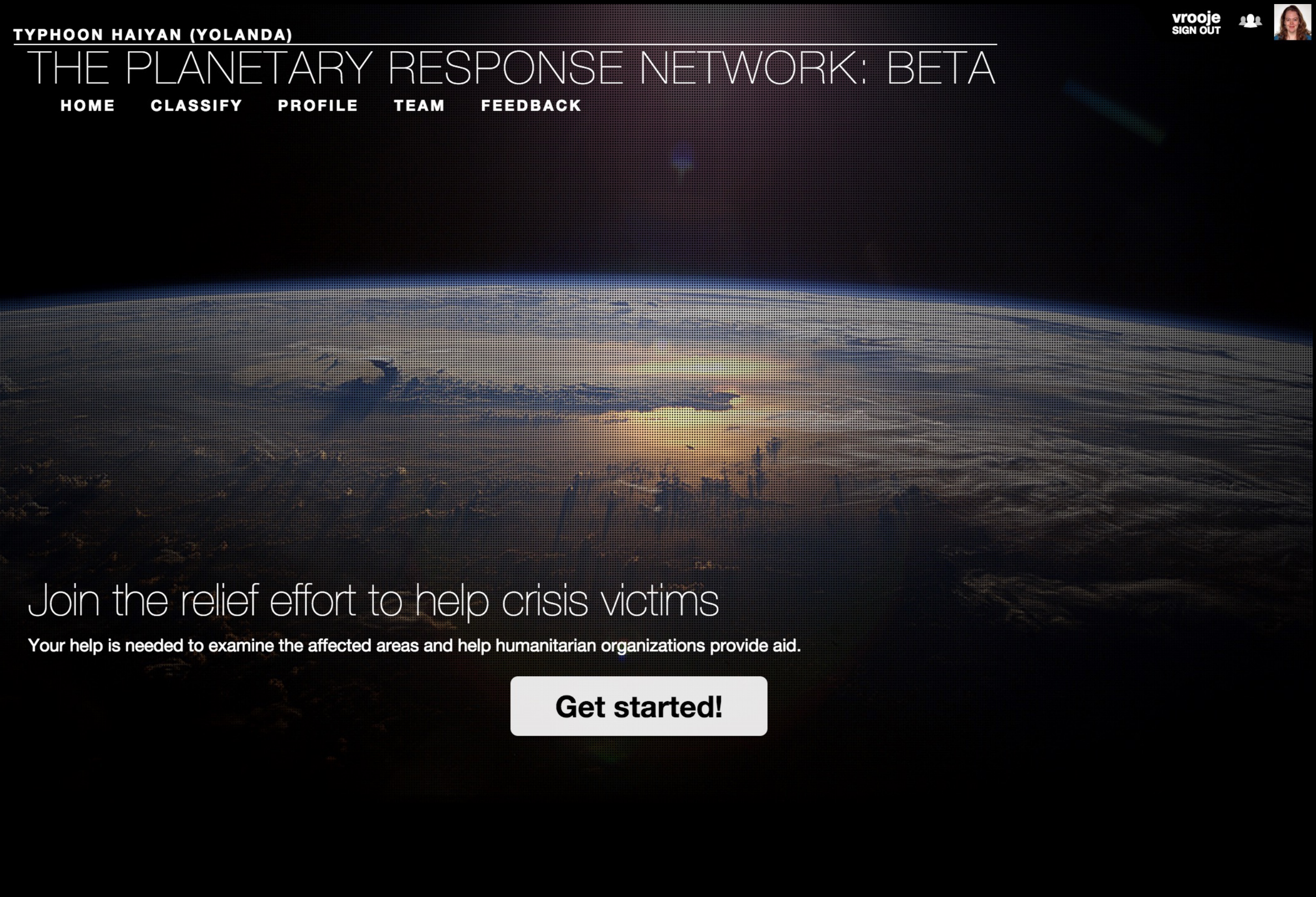
Design • Scale • Results

vrooje
SIGN OUT

TYPHOON HAIYAN (YOLANDA)

THE PLANETARY RESPONSE NETWORK: BETA

HOME CLASSIFY PROFILE TEAM FEEDBACK



Join the relief effort to help crisis victims

Your help is needed to examine the affected areas and help humanitarian organizations provide aid.

Get started!

TYPHOON HAIYAN (YOLANDA)

THE PLANETARY RESPONSE NETWORK: BETA

☆ Save | Hide old marks | Restart tutorial

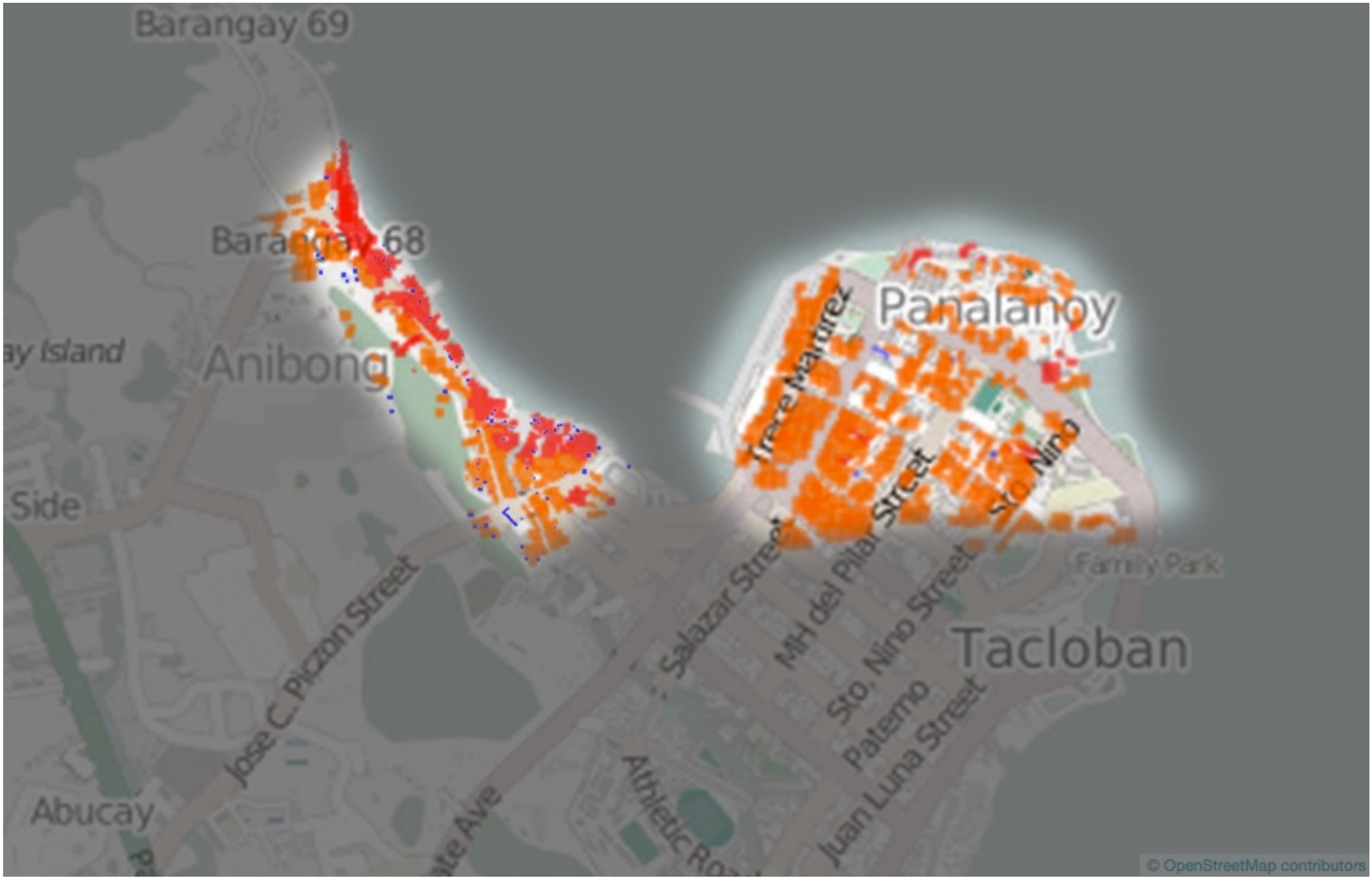
SHOW BEFORE

Select and mark any of the following features.

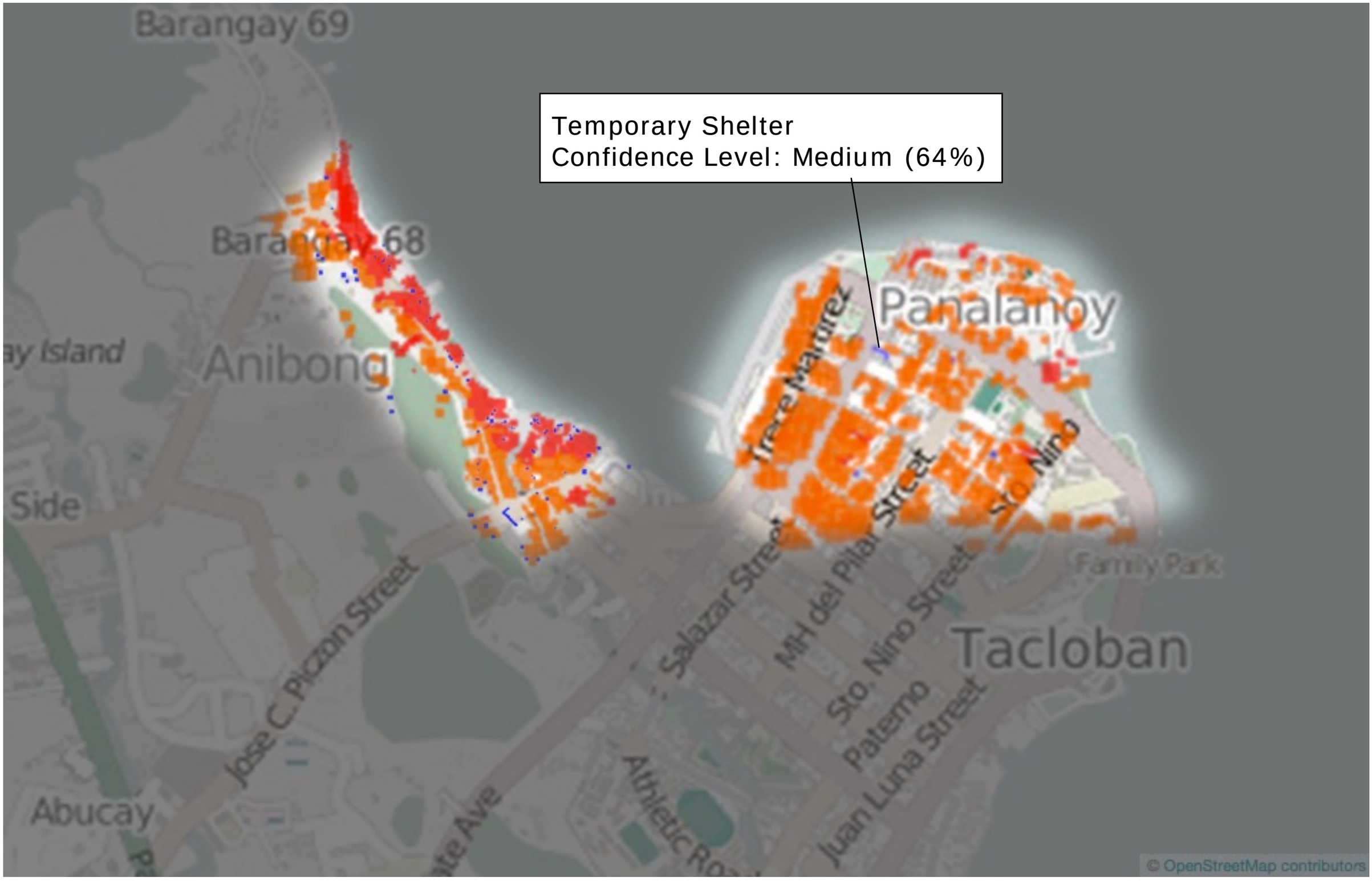
- Crowd of People
- Blocked Road
- Tarp/Shelter
- Flooding
- Structural damage

OK

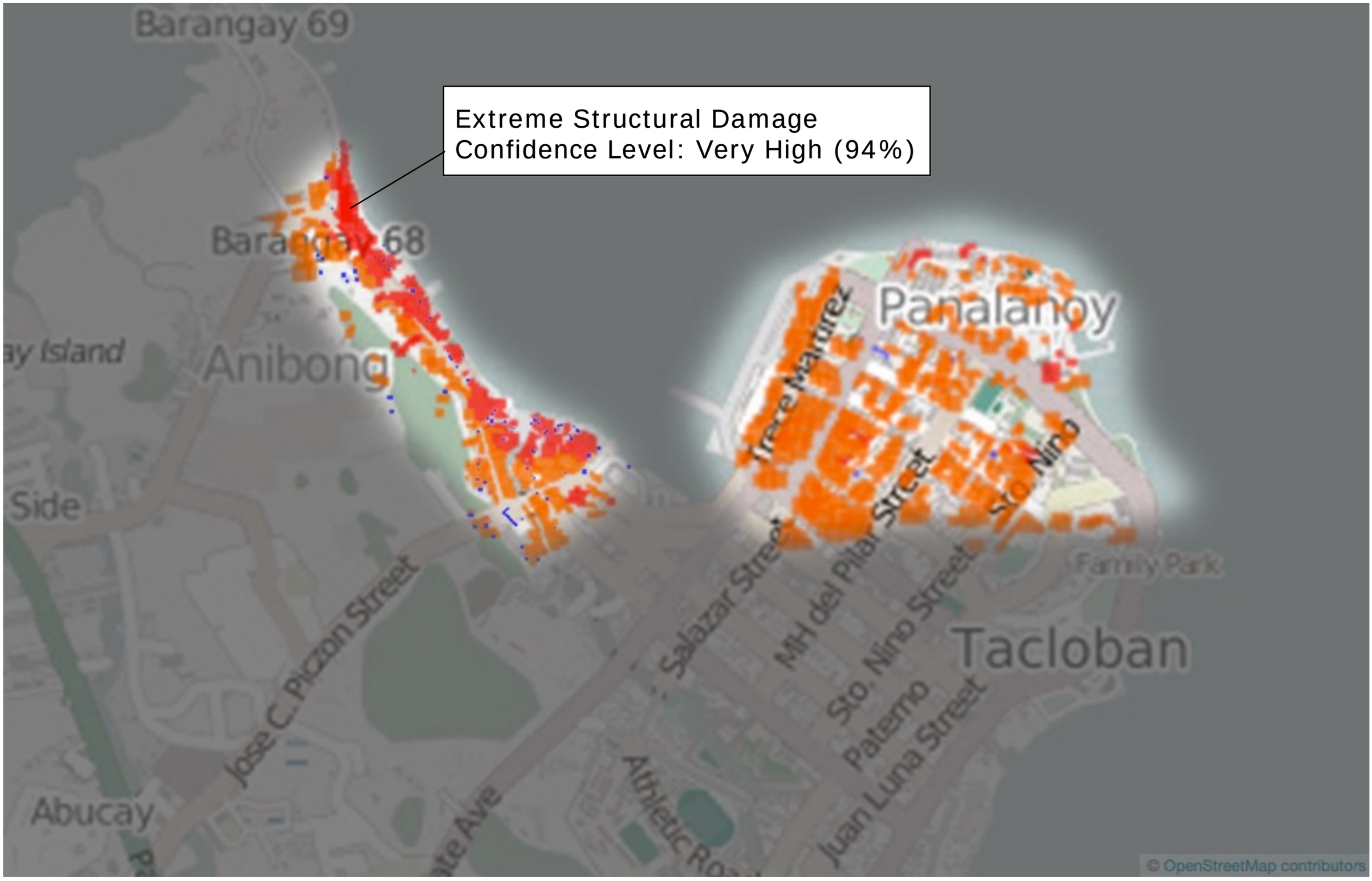
Design • Scale • Results


Barangay 69
Barangay 68
Anibong
Panalanoy
Trece Martirez
Sto. Nino
Side
Family Park
Tacloban
Salazar Street
MH del Pilar Street
Sto. Nino Street
Paterno
Juan Luna Street
Jose C. Piczon Street
Abucay
© OpenStreetMap contributors

Design • Scale • Results



Design • Scale • Results



普兰县
古隆县
Dhangadhi
Nepal
7.8
Narayangadh
Kathmandu
Dhulikhel
Butwal
Sitapur
Uttar Pradesh
Lucknow
Faizabad
Gorakhpur
Birgunj
Rajbiraj
Biratnagar
Kanpur

ZOONIVERSE

brooke Sign out

About Projects Discuss THE LAB

RESCUE GLOBAL NEPAL 2015 SCIENCE RESULTS CLASSIFY DISCUSS

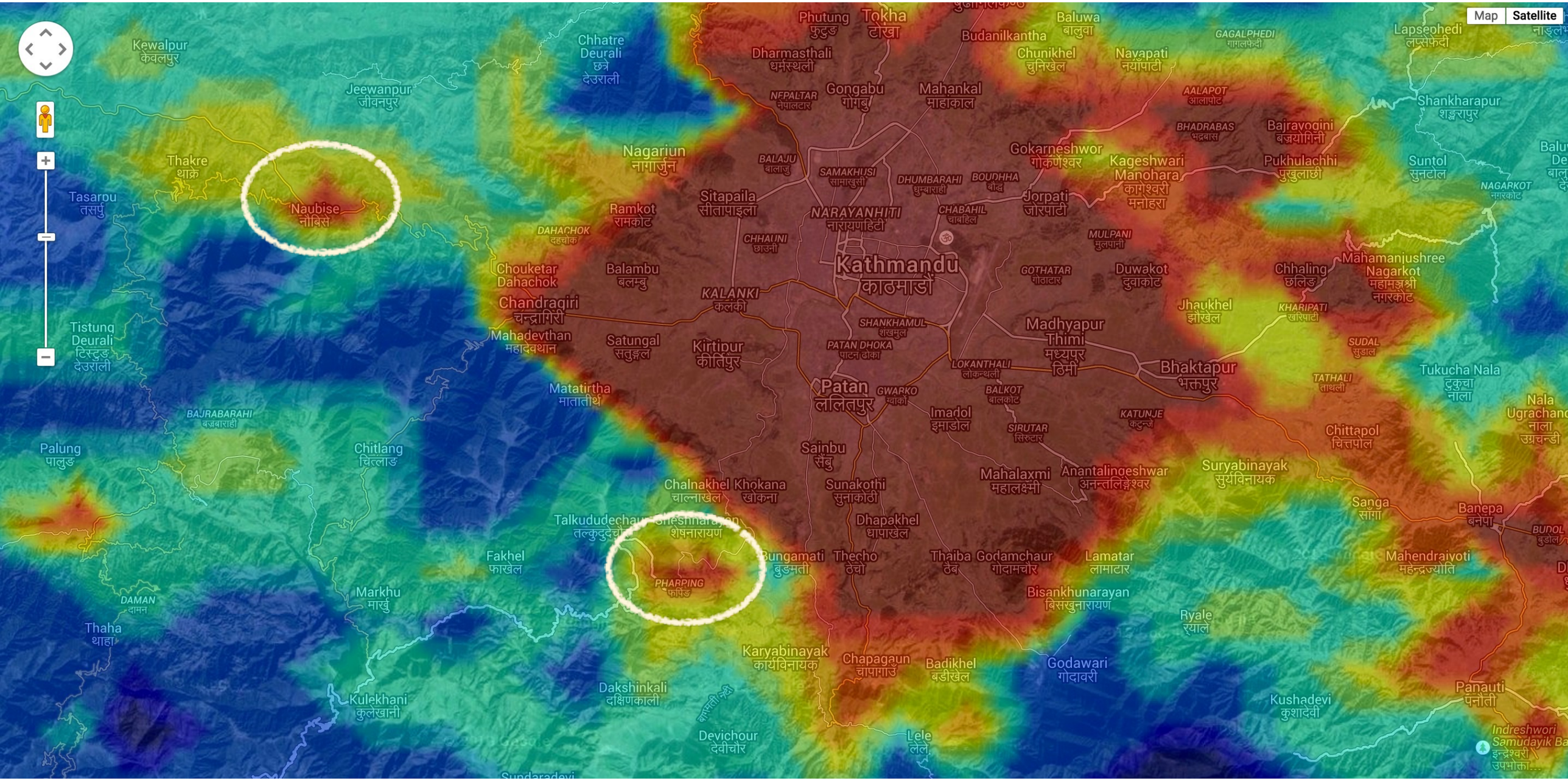
How much of the image is classifiable?

- *Not much*: 25% or less
- *Some*: 25-75%
- *Most*: 75% or more, but not 100% (e.g., small clouds)
- *All*: 100%

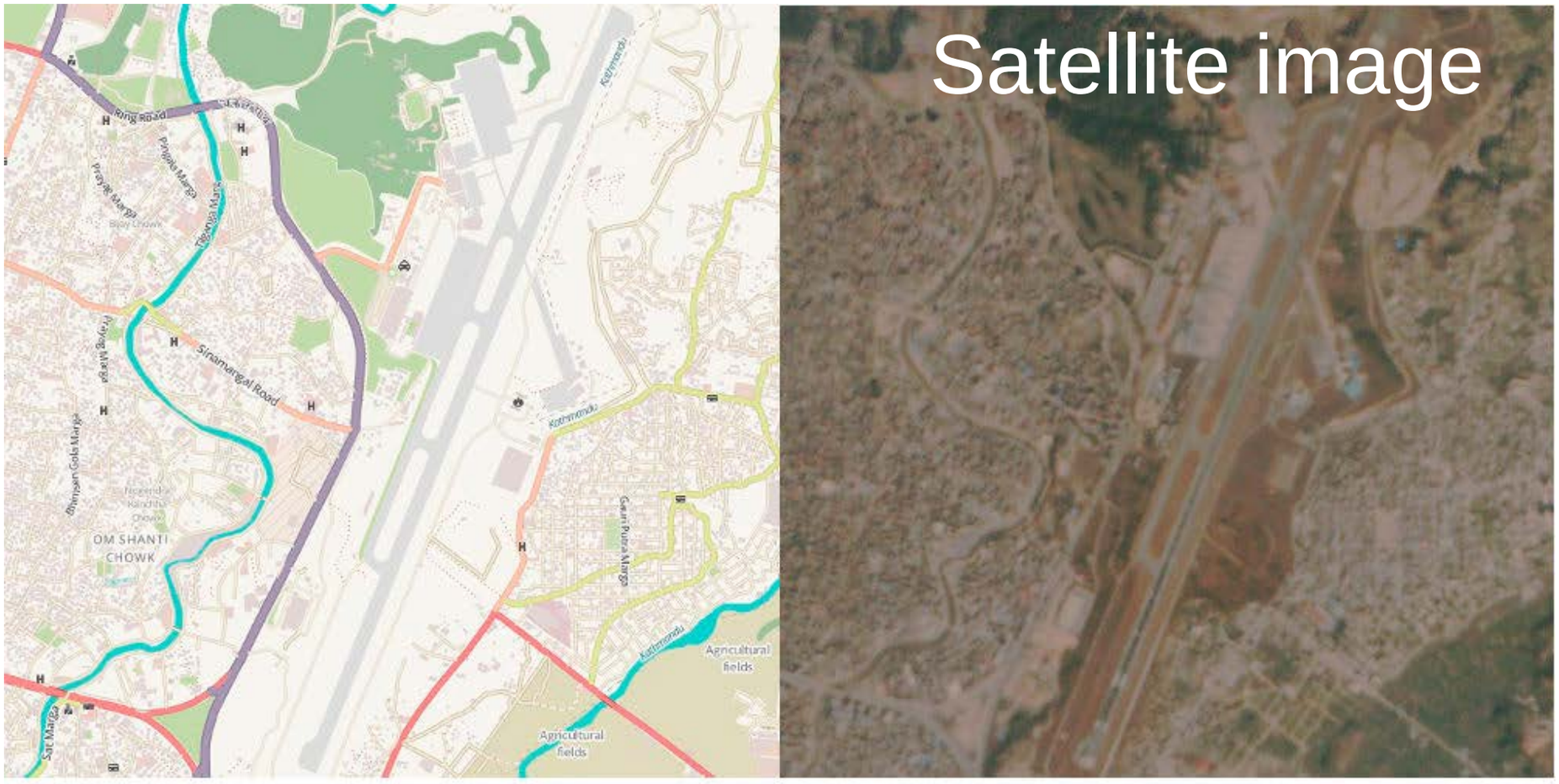
Need some help?

Back Done

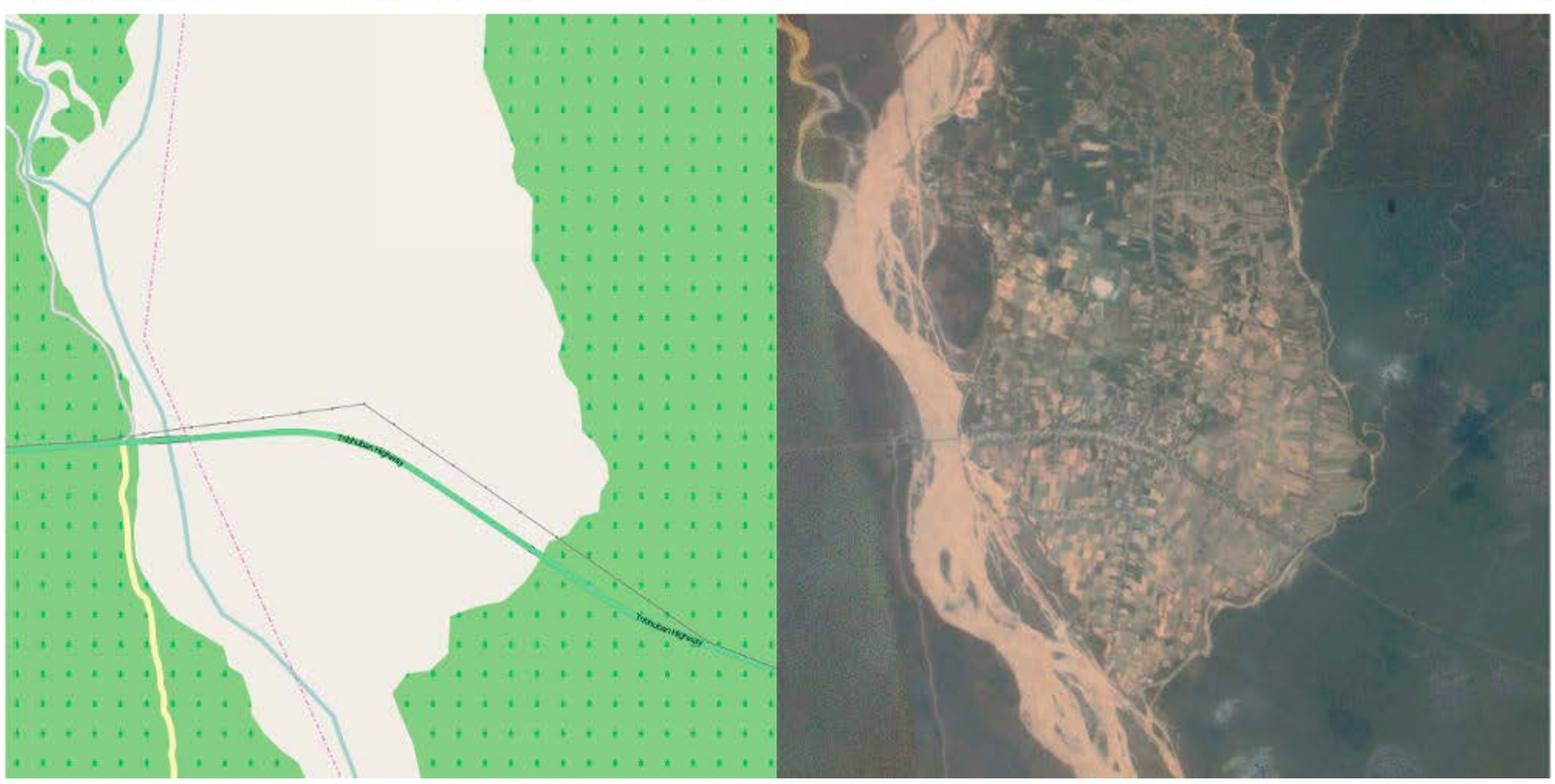
Design • Scale • Results



Already mapped area



Unmapped town



Design • Scale • Results

Talk Galaxy Zoo

Following | Recent | Discussion boards | Search | Profile | Moderation | 5 | Return to classifying

Sign out

Featured discussions

New blog post : Galaxy Zoo continues to evolve
Posted in Science

23 posts / **5** participants

Diagonal dustlane
Posted in The Objects

16 posts / **12** participants

Explore data, do science, and share findings with Zoo Tools
Posted in Science

1 post / **1** participant

Interface bugs
Posted in Help

138 posts / **37** participants

Formatting in Posts - HTML, Tags, Smileys, Preview etc.
Posted in Help

5 posts / **3** participants

New to Galaxy Zoo? Want Help? Read this!
Posted in Help

31 posts / **18** participants

Tag your galaxies with hashtags
Posted in Help

30 posts / **16** participants

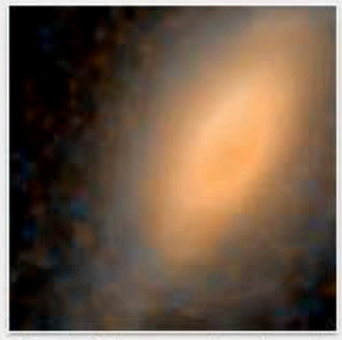
Recent Object Comments...

I see 4 uneven soaced arms.- obvious core and blue (star

by john.talbot.astro an hour ago

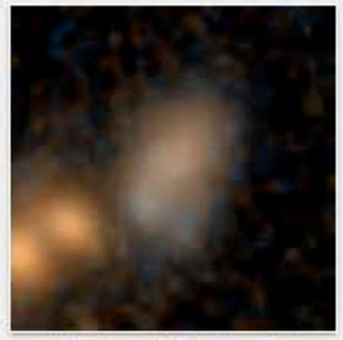
This appears to be two objects merging with different spin

by john.talbot.astro an hour ago



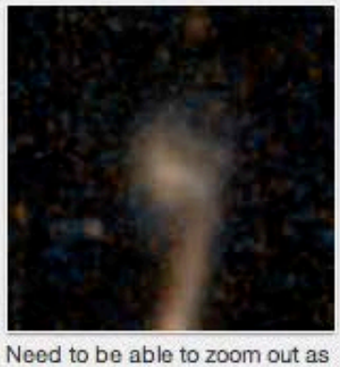
Very bright core and spils out of frame in morethan one

by john.talbot.astro an hour ago



central galaxy fairly blue . Two orange ojects at 8 oclock look

by john.talbot.astro an hour ago

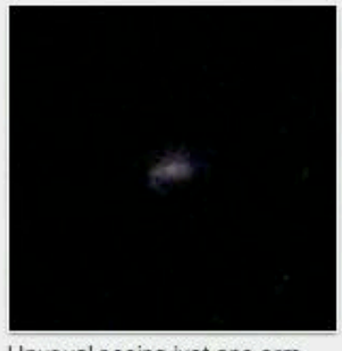


Need to be able to zoom out as signifant parts are off bottom of

by john.talbot.astro 2 hours ago

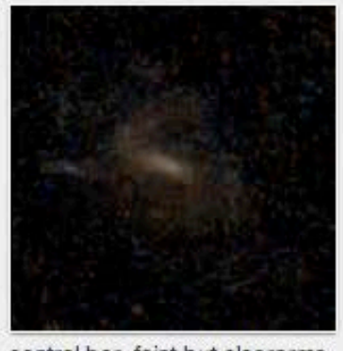
Nice clear letter S in italic script

by john.talbot.astro 2 hours ago



Unusual seeing just one arm

by john.talbot.astro 2 hours ago

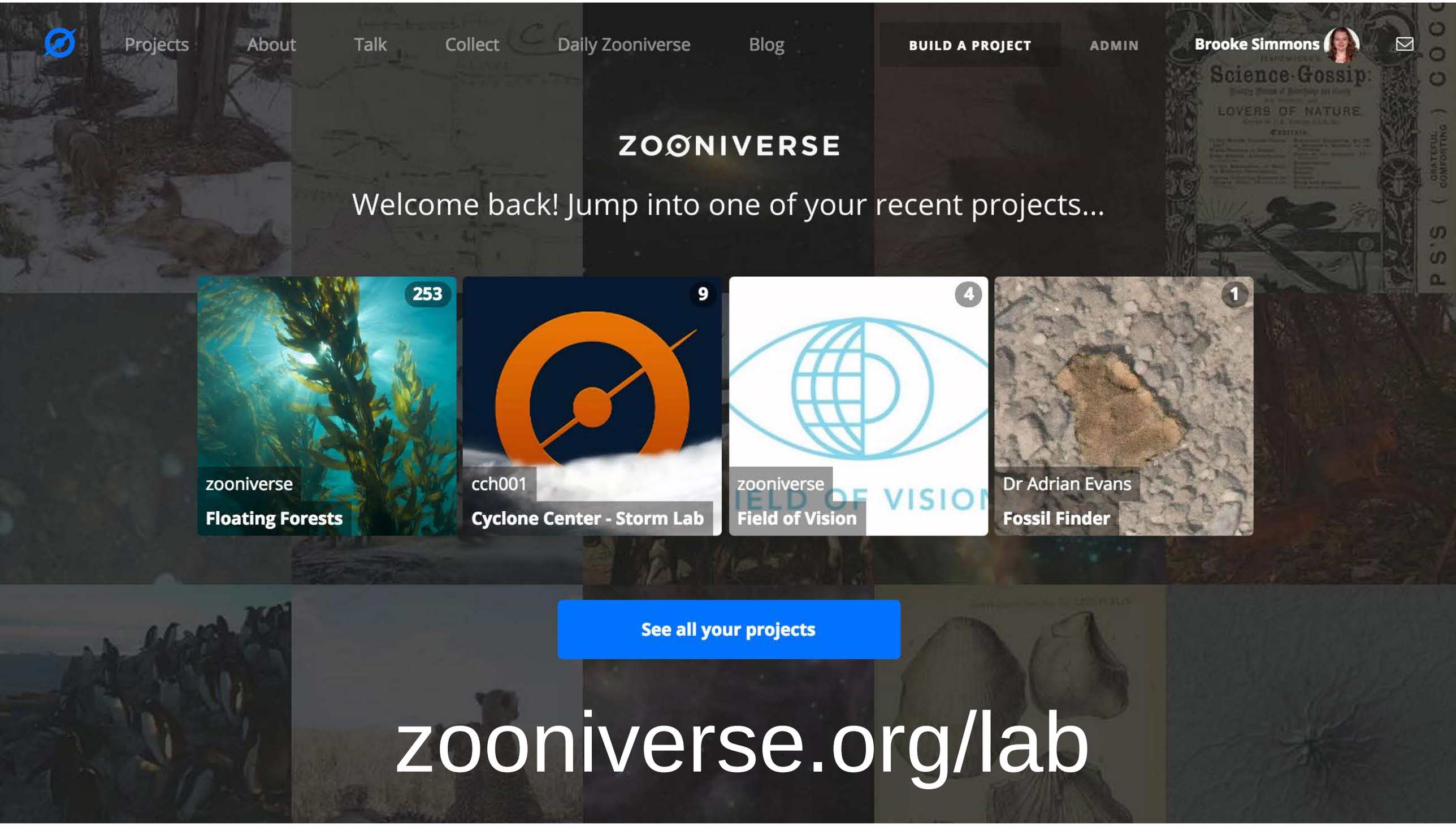


central bar, faint but cleararms in early spiral

by john.talbot.astro 2 hours ago

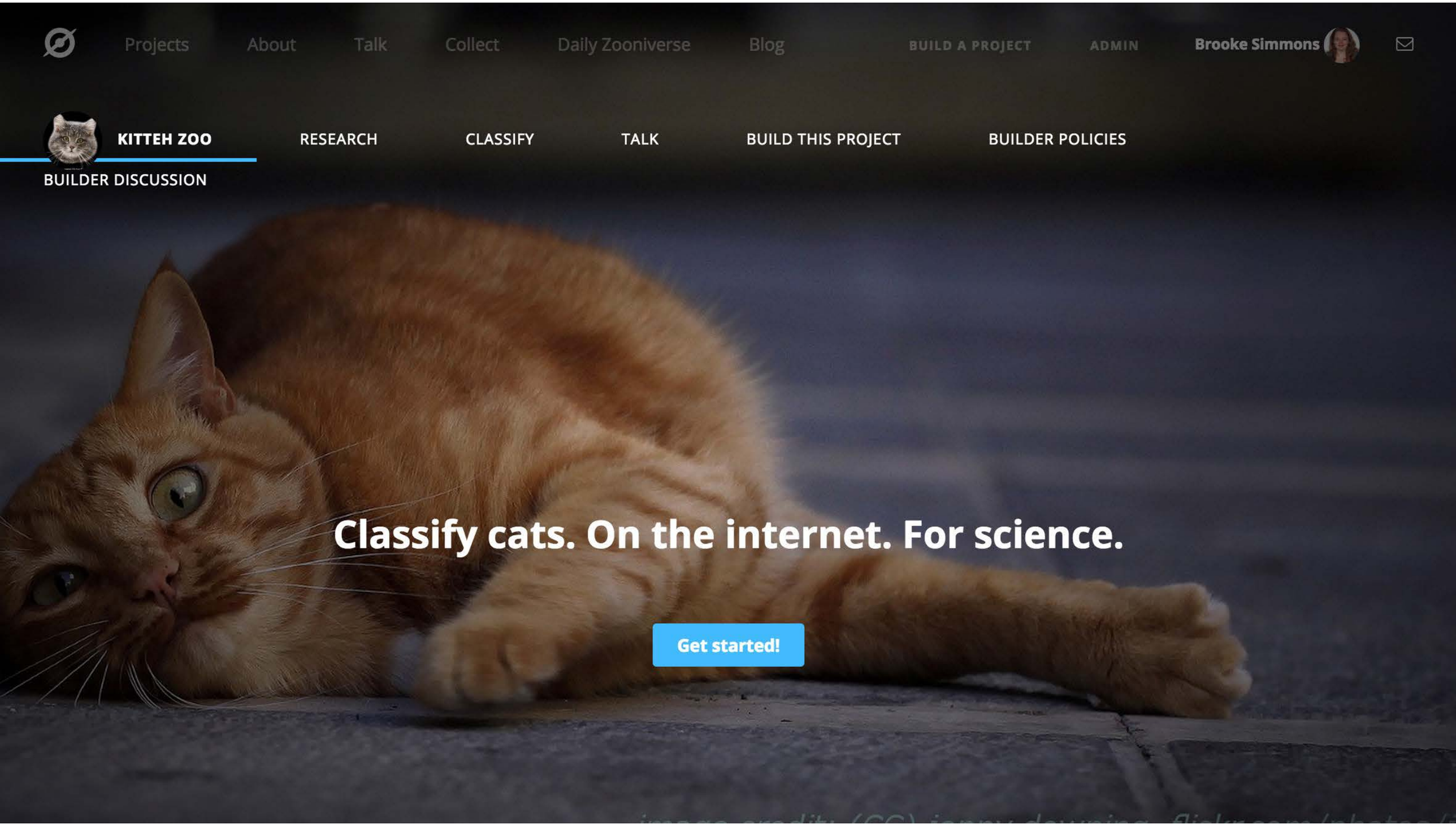
The community increases discovery & expertise.

Rapid: Design • Scale • Results



zooniverse.org/lab

Rapid: Design • Scale • Results



zooniverse.org/lab

Rapid: Design • Scale • Results

Projects About Talk Collect Daily Zooniverse Blog BUILD A PROJECT ADMIN Brooke Simmons

PROJECT #4

- **Project details**
- Research
- Results
- FAQ
- Education
- Collaborators
- Media
- Visibility
- Talk
- Data Exports

WORKFLOWS

- Cat me!

New workflow

SUBJECT SETS

- Kittehs
- Untitled subject set

New subject set

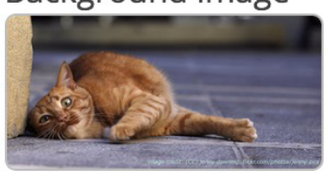
Delete this project

Input the basic information about your project, and set up its home page.

Avatar

Pick a logo to represent your project. To add an image, either drag and drop or click to open your file viewer. For best results, use a square image of not more than 50 KB.

Background image



This image will be the

NAME

Kitteh Zoo

The project name is the first thing people will see about the project, and it will show up in the project URL. Try to keep it short and sweet.Your project's URL is /projects/vrooje/kitteh-zoo

DESCRIPTION

Classify cats. On the internet. For science.

This should be a one-line call to action for your project that displays on your landing page. Some volunteers will decide whether to try your project based on reading this, so try to write short text that will make people actively want to join your project.

INTRODUCTION

```
Cats are great. Where would we be without them? Missing a lot of Egyptian art,
that's for sure.

But we need to know more. Can you help us?

*Note*: this is just a demonstration project.
```

zooniverse.org/lab

Rapid: Design • Scale • Results

Projects About Talk Collect Daily Zooniverse Blog BUILD A PROJECT ADMIN Brooke Simmons

PROJECT #4

- Project details
- Research
- Results
- FAQ
- Education
- Collaborators
- Media
- Visibility
- Talk
- Data Exports

WORKFLOWS

Cat me!

New workflow

SUBJECT SETS

- Kittehs
- Untitled subject set

New subject set

Delete this project

A workflow is the sequence of tasks that you're asking volunteers to perform. For example, you might want to ask volunteers to answer questions about your images, or to mark features in your images, or both.

WORKFLOW TITLE

Cat me!

If you let your volunteers choose which workflow to attempt, this text will appear as an option on the project front page.

TASKS

Mark each cat's face and tail. Draw an ellipse around each cat's face (not including the ears), and mark the tail tip with a point.

How many cats are there in this image? *(first)*

Add a task

First task

How many cats are there in this image?

A task is a unit of work you are asking volunteers to do. You can ask them to answer a question or mark an image. Add a task by clicking the question or marking buttons below.

Version 5.4

Version indicates which version of the workflow you are on. Every time you

MAIN TEXT

How many cats are there in this image?

Describe the task, or ask the question, in a way that is clear to a non-expert. You can use markdown to format this text.

HELP TEXT

Tell us **how many cats** you see. You should include:
- Actual cats (not drawn or simulated)
- Cats of any species

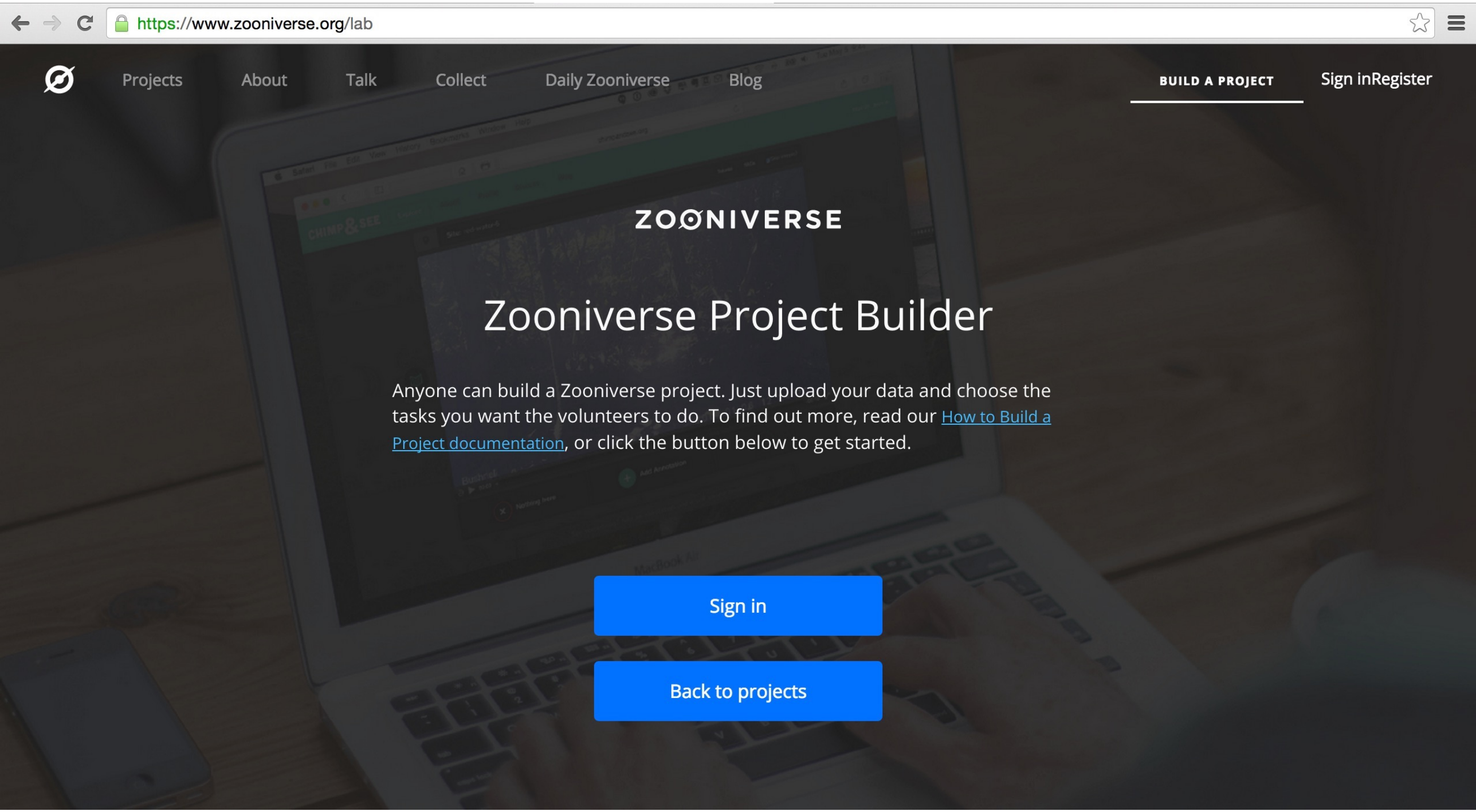
We will ask many people the same question about this image, so don't worry if you aren't absolutely sure. *Just give us your best guess.*

Add text and images for a window that pops up when volunteers click "Need some help?" You can use markdown to format this text and add images. The help text can be as long as you need, but you should try to keep it simple and avoid jargon.

CHOICES Allow multiple Required

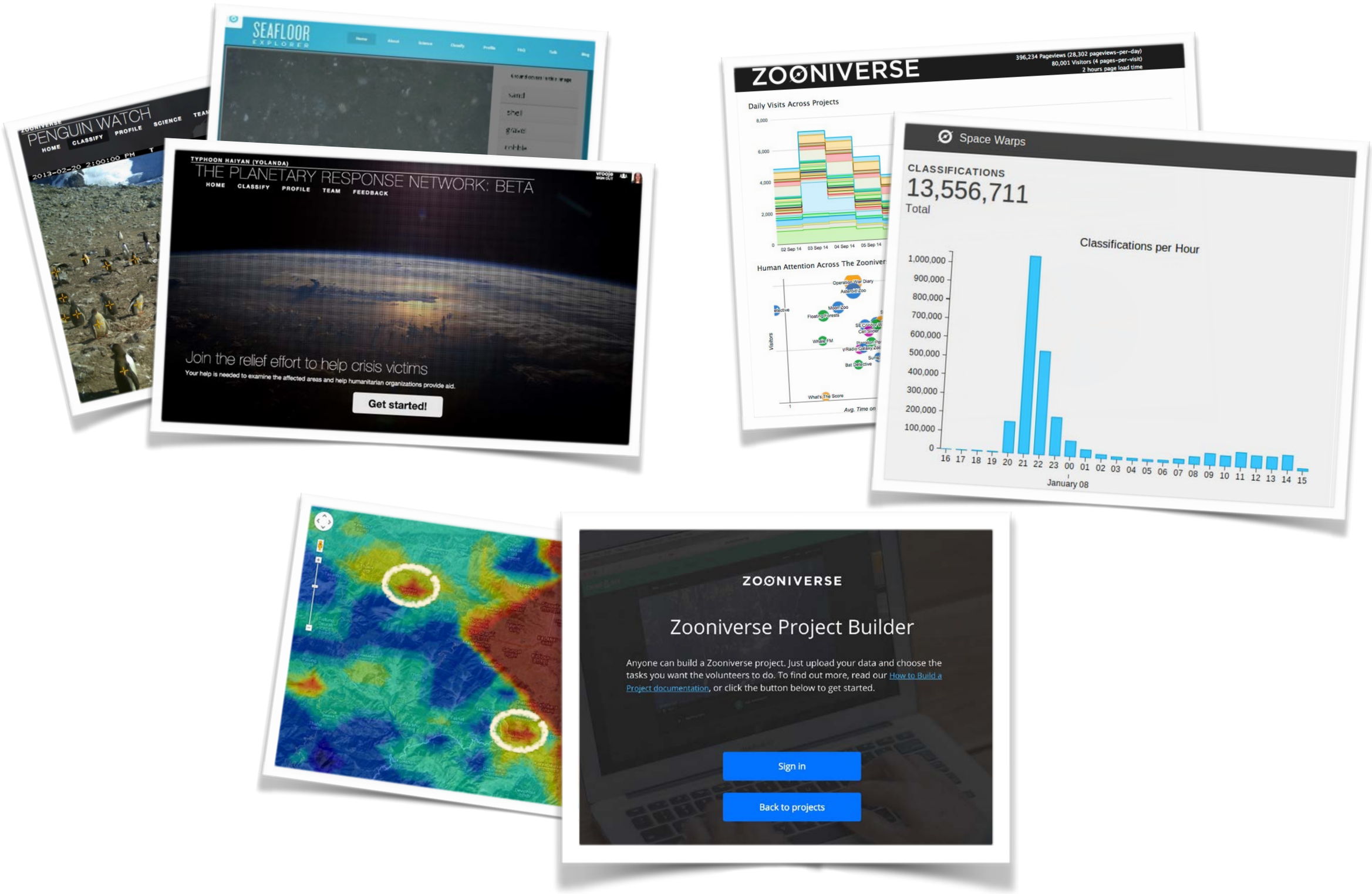
zooniverse.org/lab

Build your own Zooniverse project



zooniverse.org/lab

What do you want to build?



zooniverse.org

github.com/zooniverse

Gamified or Gamised?

Brooke / @vrooje