



World Organisation
for Animal Health
Founded as OIE



Dog population estimation and DMP programs monitoring tools

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**Fourth regional workshop on Dog Population Management for West Eurasia countries
(SDWE4)**

Tbilisi, Georgia, 26th – 28th September 2023

Overall strategy of RAWC

- to bridge over the gap between Academia and Policy makers in the region and to help them in the implementation of regional and international best practices in the field of Animal Welfare.



RAWC prioritize activities in the following areas



- Training of business operators and stakeholders (slaughter, pigs, broilers and transport) – coordination and dissemination of information and resources;
- Welfare of the animals at the time of slaughter;
- Experimental animals – implementation and training;
- **Companion animals population management and dog population management** – develop a regional approach and share best practice;
- Raising farmer awareness and engaging with small scale farmers to establish an effective and targeted regional approach and to explore new business models;

Companion animals population management - DPM

Shelter Quality

- Active participation of four regional experts on Shelter Quality project activities.

Be his hero!

- Launched in 8 Countries of the region (Albania, Bosnia&Herzegovina, Croatia, Kosovo, Bulgaria, Serbia, Macedonia and Montenegro). RAWC collaborated with WOAH on translation, printing and distribution of the materials, and a little bit more.

Training of trainers on ICAM dog population management indicators

- Still in progress – 17 trainers trained so far.
- North Macedonia (5), Serbia (3), Kosovo (3), Montenegro (2), Croatia (2), Bosnia and Herzegovina (1) and Slovenia (1).
- **New ToT workshop will be held in November 2023 in Bar, Montenegro.**



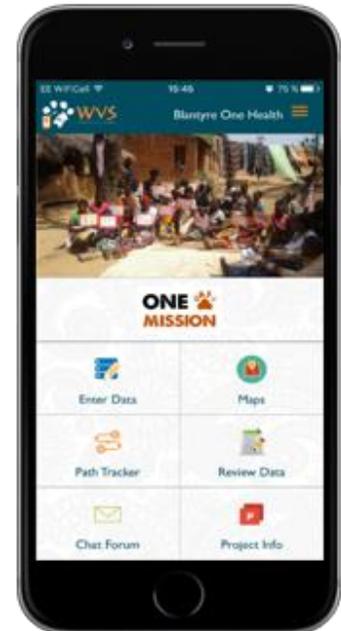
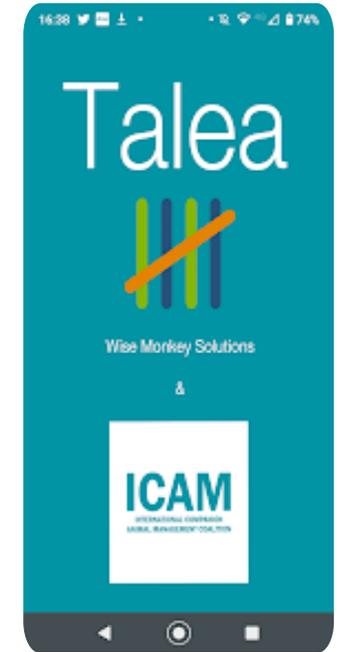
Three main reasons for surveying the roaming population:

- To **assess the need** for intervention,
- To **plan** an intervention,
- To **evaluate** the intervention.



There are several possibilities on how to estimate and monitor dog populations:

- Before mobile applications
- ICAM Talea app
- WVS rabies app



Before Talea



- or how it was done without all in one mobile apps,
just some ordinary (digital) tools.

Paper city map + computer + mobile phone



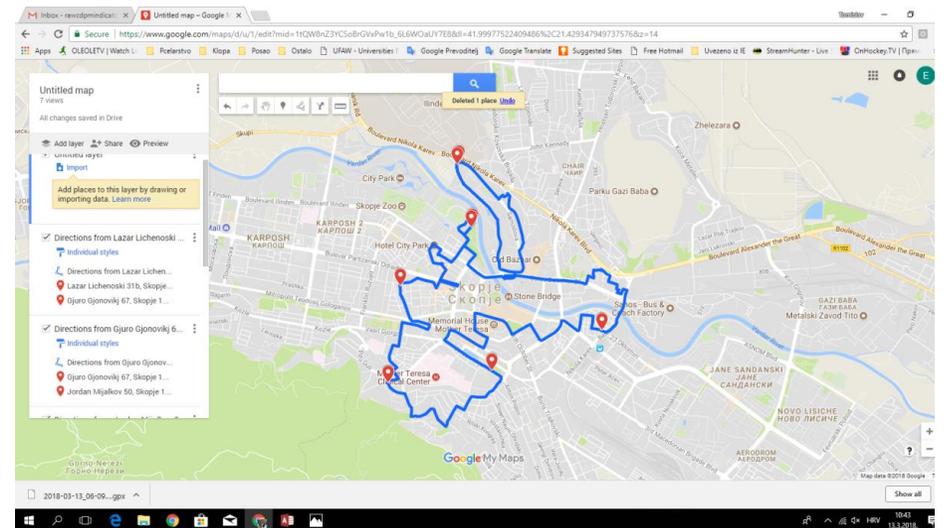
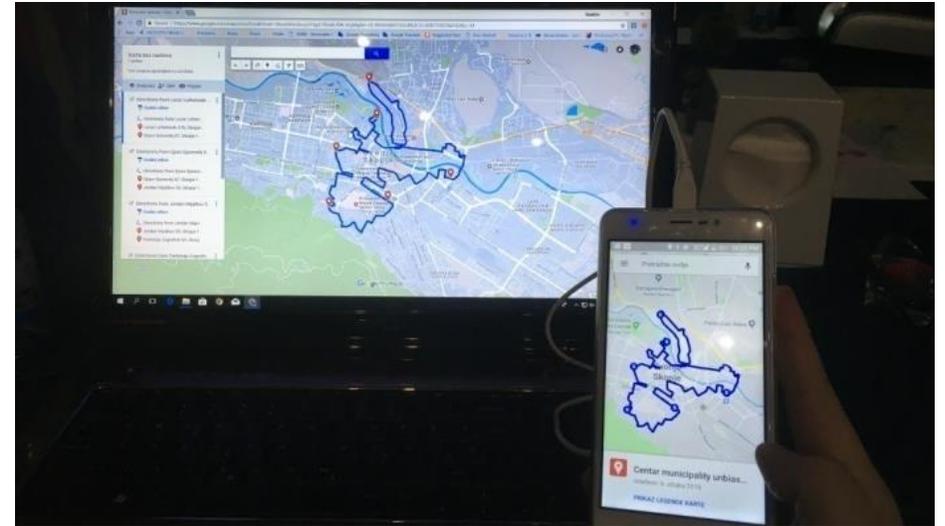


Before the streets...

- Route identification:
- **Unbiased** (randomly selected streets)
 - Should be planned by somebody who does not know anything about the abovementioned hot spots.
- **Hot spots** (route with most dogs)
 - Should be planned by somebody who knows where and when dogs are there.

Digitalisation

- After the route identification, and due to the accuracy of the each next repetition it was needed to transfer the route to the GPS tracking program.
- In our case – Google Maps



Survey

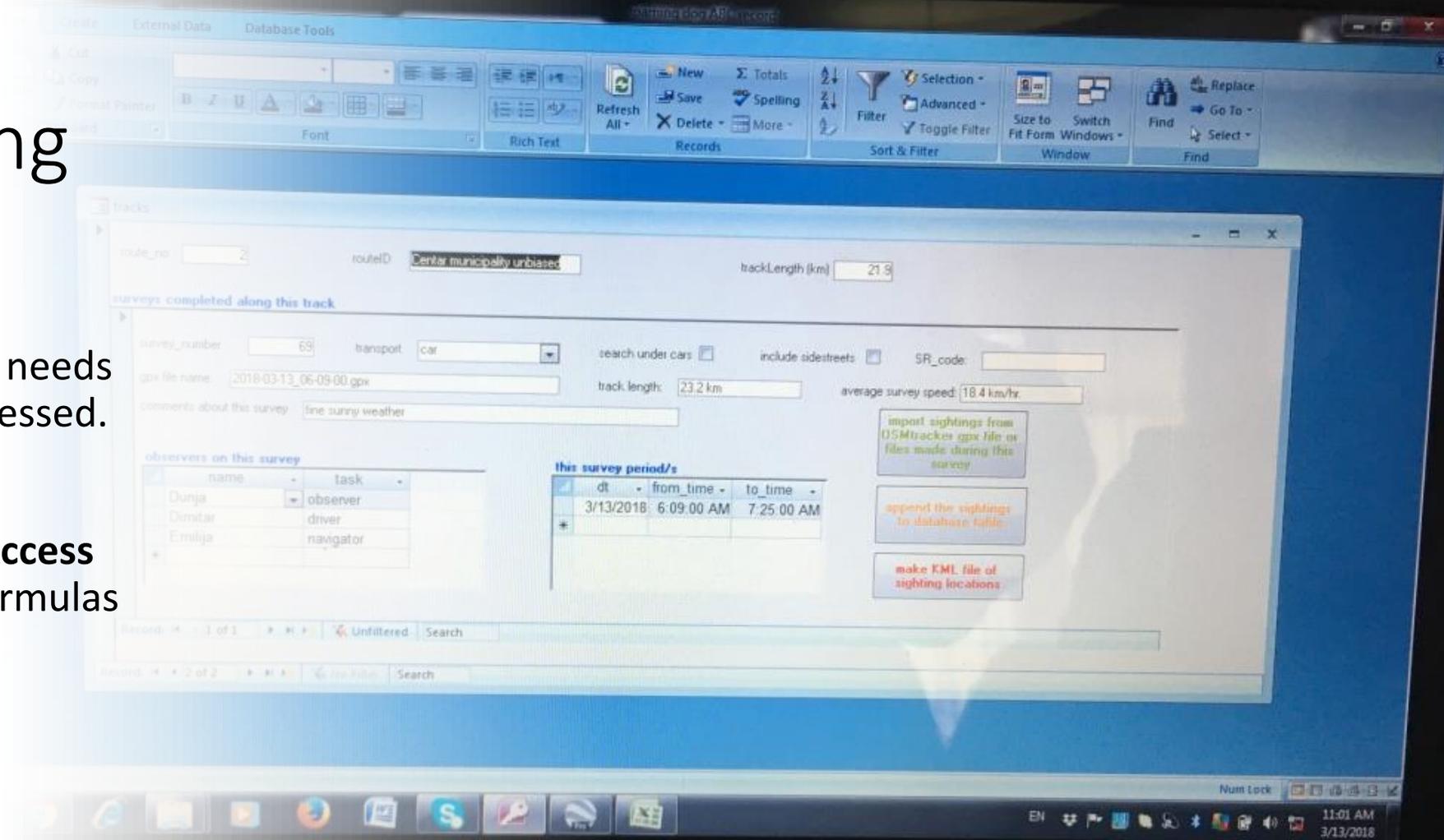
- For dog counting keep in mind that you have to go on the streets before the morning rush starts, because if you go later it will be harder to spot the dogs.

- Dogs in Skopje, being Balkan dogs, were mostly sleeping at that time.



Data processing

- After the collection, data needs to be evaluated and processed.
- In our case – **Microsoft Access form**, with preordered formulas for calculation.



Next step – face to face interviews

KoBo Collect

Free program for
questionnaire survey.

Easy to question development,
easy to use with a very
proactive customer support.

General questions

V2 Updated D... 59% 1:59 p.m.

In the last month, have you been annoyed or troubled by a dog or dogs in your neighbourhood?

Yes

No

Over the last 12 months, do you think there has been a change in the number of roaming dogs in your community, and if so, in what direction?

Decreased

Stayed the same

V2 Updated D... 59% 1:59 p.m.

Do you or anyone in your home currently offer regular care, such as food, to a street dog that doesn't have an identifiable owner? ('regular' care means at least once per week)?

Yes

No

Do you know anyone in your neighbourhood whose dog had puppies in the last 12 months? This can include puppies born within your own household.

Ensure the respondent can answer "yes" whilst still remaining anonymous, if it is their household who had the puppies

Dog identification and health

59% 1:59 p.m.

V2 Updated D...

Household dog (1)

Was your dog rabies vaccinated in the last 12 months?

Yes

No

Don't know

V2 Updated D...

Household dog (1)

Has your dog been given parasite medication in the last 4 months?

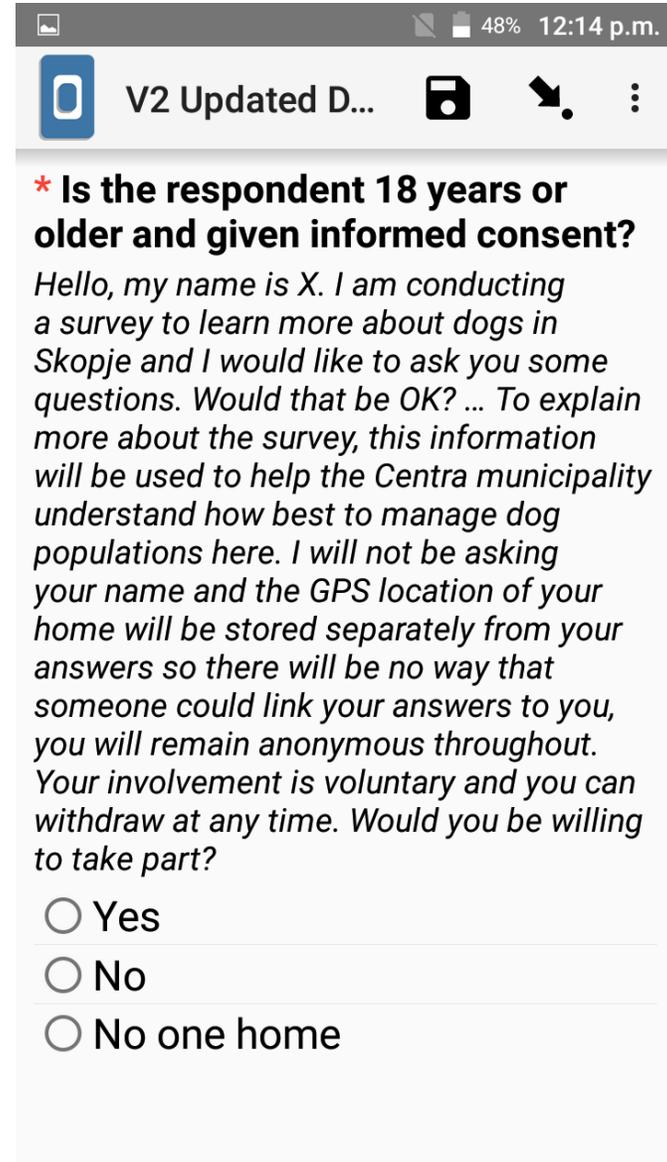
Yes

No

Don't know

Do not forget – ethics!

- The data we collect, the way in which we collect or use it may cause harm
- Harms may be direct or contingent
- Immediately evident or only apparent in the future
- Graded in severity – mild/moderate/severe



48% 12:14 p.m.

V2 Updated D...

*** Is the respondent 18 years or older and given informed consent?**

Hello, my name is X. I am conducting a survey to learn more about dogs in Skopje and I would like to ask you some questions. Would that be OK? ... To explain more about the survey, this information will be used to help the Centra municipality understand how best to manage dog populations here. I will not be asking your name and the GPS location of your home will be stored separately from your answers so there will be no way that someone could link your answers to you, you will remain anonymous throughout. Your involvement is voluntary and you can withdraw at any time. Would you be willing to take part?

Yes

No

No one home

Data processing and results

- Face to face interviews gives us very good look at what is going on in specific area.
- What are the people toughs, and what mindset is on the streets.

On the field

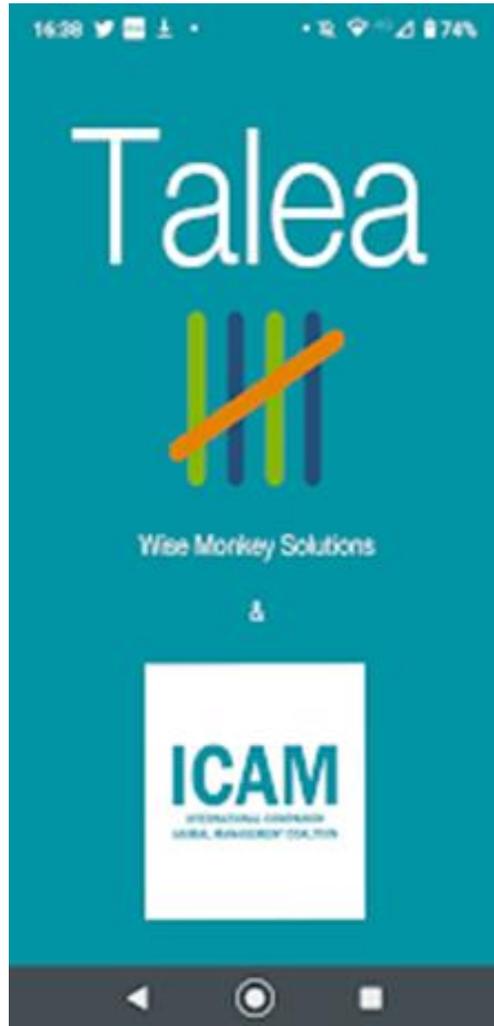
- When entering properties, backyards or apartments, keep in mind:
- **IF IT'S WIERD – LEAVE.**



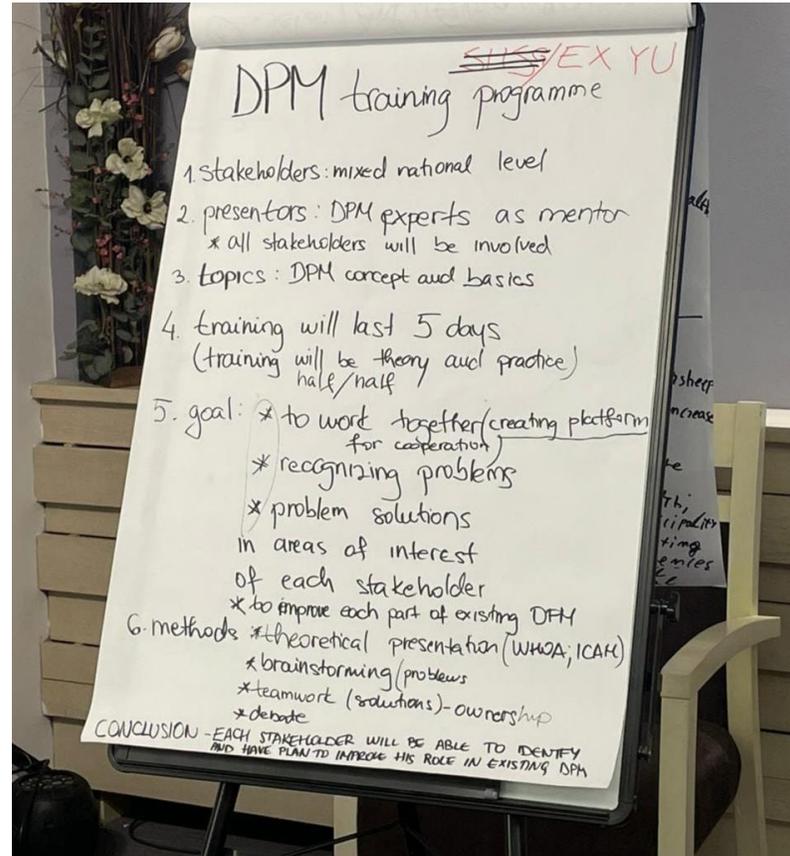
How that looked on the phone

- A lot of various programs and applications which were not always in compliance with one another.





Talea app



The International Companion Animal Management Coalition



Featured courses



The training comprised theoretical courses, practical workshops as well as E-learning modules using an online platform and TALEA.



It also included daily population monitoring on the streets and surveying the general public regarding the roaming dog problem

Preparing Staff for the First Day: Planning and Training for Success

- Planning ahead is essential for any successful project. Training staff on the first day ensures that everyone is on the same page and knows what their responsibilities are.
- First coordinator must be trained or go through the app and make routes and user IDs and after train also all the users who are going to conduct the survey





Portal

Administration

Talea

Talea



Localities



Groups



Devices



Device invitations



Icons



Templates



Sandboxes



Studies



Packages



Analysis

App Instructions

Full instructions on how to set-up, install and use Talea are available on our user guide www.icam-coalition.org/talea-user-guide/ - both written and video instructions are available. Please let us know if this guidance is not clear, or if you need extra support, by sending an email message to Talea@icam-coalition.org.

If you would like to send out single user, one-time usage instructions then please use the Device Invitation link above. Use the links below for shareable, multi-use instructions.

Install the Talea app by using this link...

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Talea

Locales

Templates

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<https://www.wise-monkey.org/wisemonkeyportal/p4917p=966> app by using this link...

Welcome, Ely Hby (P)

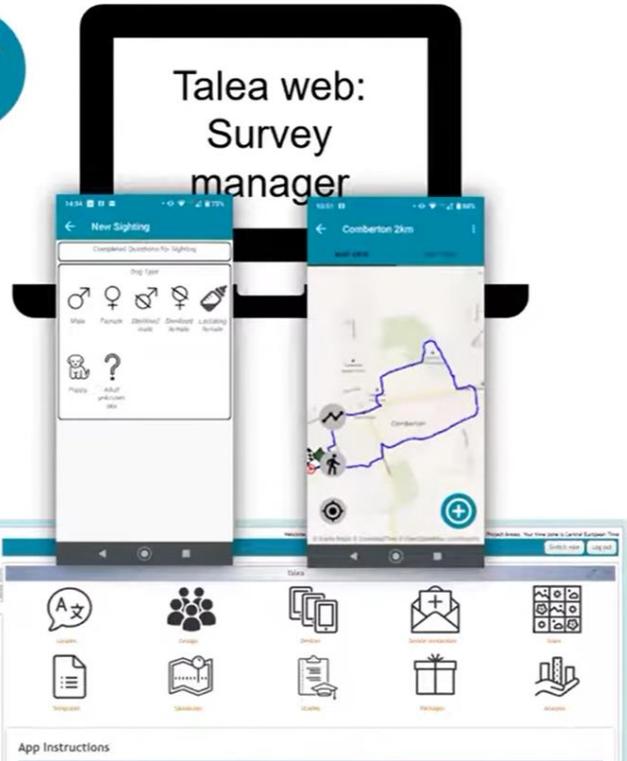
Locales

Survey strategies | Locales | **Device App Labels**

English, Great Britain (en_GB)	<input checked="" type="checkbox"/>
Al Urdu, Jordan (ar_JO)	<input type="checkbox"/>
English, United States (en_US)	<input type="checkbox"/>
Espanol, Espana (es_ES)	<input checked="" type="checkbox"/>
Espanol, Colombia (es_CO)	<input type="checkbox"/>
Espanol, Ecuador (es_EC)	<input type="checkbox"/>
Hungarian, Hungary (hu_HU)	<input type="checkbox"/>
Georgian, Georgia (ka_GE)	<input type="checkbox"/>
Malaystan, Malaysia (ms_MY)	<input type="checkbox"/>
Portuguese, Portugal (pt_PT)	<input type="checkbox"/>
Portuguese, Brazil (pt_BR)	<input type="checkbox"/>
Portuguese, Cabo Verde (pt_CV)	<input type="checkbox"/>
Russian, Russia (ru_RU)	<input type="checkbox"/>
Sinhala, Sri Lanka (si_LK)	<input type="checkbox"/>
Serbian, Serbia (sr_RS)	<input type="checkbox"/>
Thai, Thailand (th_TH)	<input type="checkbox"/>
Turkish, Turkey (tr_TR)	<input type="checkbox"/>
Ukraina, Ukraine (uk_UK)	<input type="checkbox"/>

How does it work?

Talea web and app

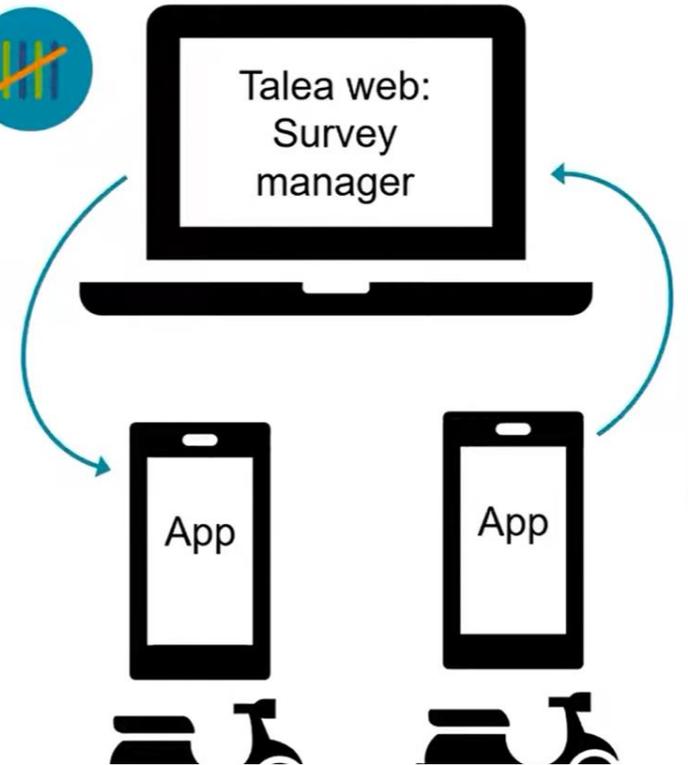


- Flexible

- Templates: library, amend or create
- Sandboxes:
 - » Routes or polygons
 - » Sighting location = observer location, or indicate animal location on map



Talea web and app

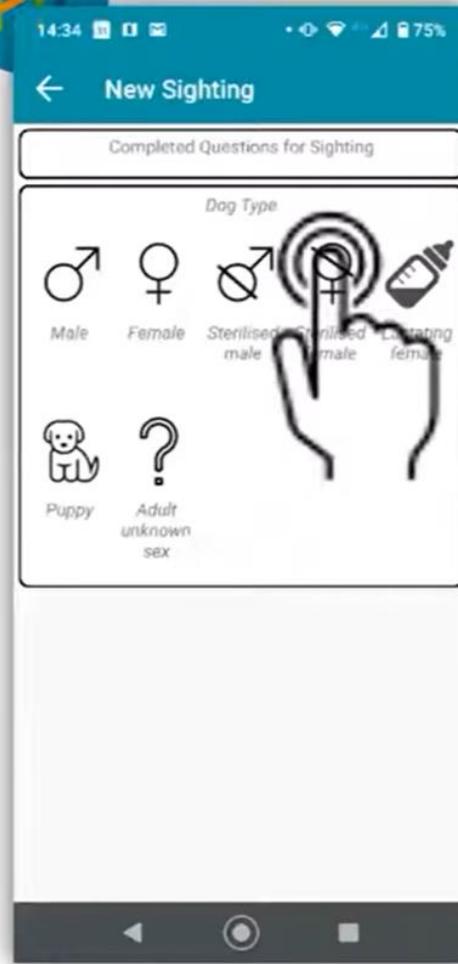


- Website manager sends out 'packages' of surveys to the app and receives the data sent by the app
- App helps you navigate along the route and record observations of roaming dogs



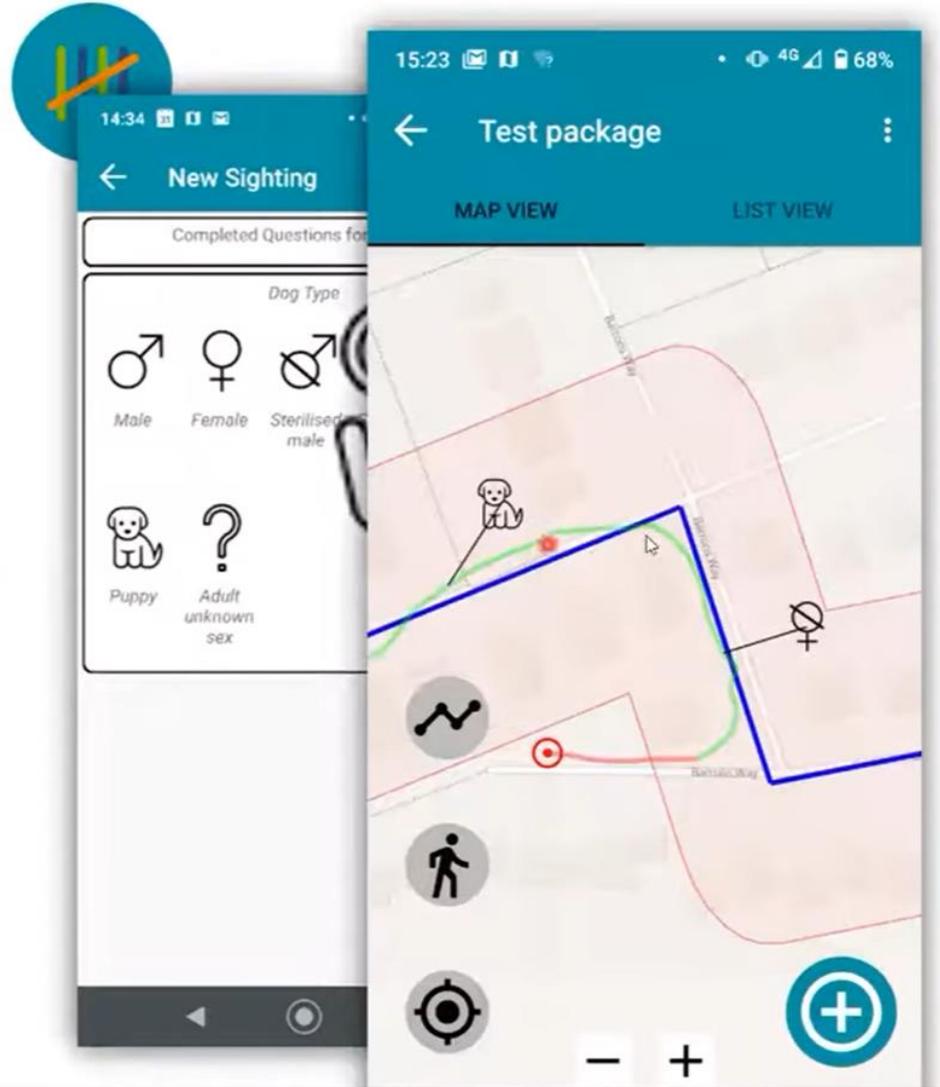
Talea web and app

- Easy
 - Icons
 - Single tap



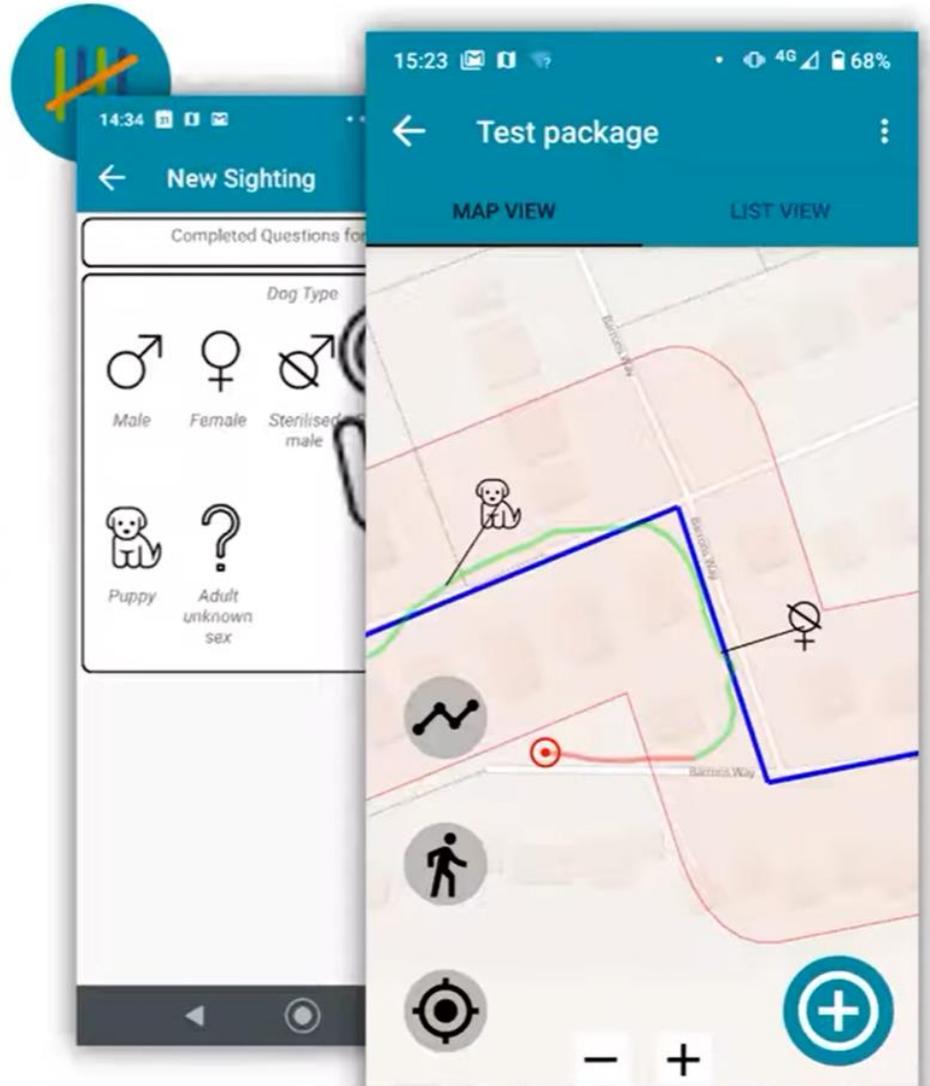
Talea web and app

- Easy
 - Icons
 - Single tap
 - Edit and delete
 - Navigation and 'off route' indication



Talea web and app

- Easy
 - Icons
 - Single tap
 - Edit and delete
 - Navigation and 'off route' indication
 - Any language
- Android only, not iOS





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If you would like to send out single-use or multi-use instructions, please refer to the user manual for more information.

<https://www.wise-monkey.org/wisemonkeyportal/p496?p=971> app by using this link.

Talea Survey Template Designer

 Name

en_GB Dog survey with sterilisation welfare and ownership
es_ES

Questions

- 1: Dog Type
- 2: Body condition score
- 3: Skin condition
- 4: Sign of ownership
- 5: Is this dog vaccinated?

Summary Values

- 1: Dogs per km
- 2: % sterilised

Choices

 Name

en_GB Male
es_ES Macho

Choice Name Male
Visible Rule

 Name

en_GB Female
es_ES Hembra

Choice Name Female
Visible Rule

 Name

en_GB Sterilised male
es_ES

Choice Name Sterilised_M
Visible Rule

 Name

en_GB Sterilised female
es_ES



- Portal
- Administration
- Talea

Talea



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Studies



Gifts



Analysis

Analysis

- Cambridge Deep study
 - Cambridge 2km sighting
 - location
 - ID: 178
 - ID: 179
 - ID: 181
 - ID: 182**
 - ID: 183
 - Route to sighting location
 - Demo day survey
 - Bernier study
 - Redmond Day Study
 - Cambridge survey
 - West Cambridge day study
 - Seal for Day Study
 - Demo study

Survey Details

Start date:	13 March 2021 09:41:00 CEST
End date:	13 March 2021 09:58:38 CEST
On-Road Count (excluding demands):	23
Sighting Count (excluding demands):	25
Track Length:	2.46km
Track Time:	0 hours 17 minutes 12 seconds



u.org.

shareable,

Welcome, Ely Hby (Project Administrator for ICAM Talea Demonstration Project / All Project Areas). Your time zone is Central European Time

Switch role Log out

Portal
Administration
Talea

Talea

- Lookies
- Groups
- Devices
- Device invitations
- Icons
- Templates
- Sandboxes
- Studies
- Gifts
- Analysis

Analysis

Cambridge demo study

Survey Details Study Data Download Links

To download study data immediately, click one of the links. To copy the download URL to the clipboard, for use in another application, click the icon to the right of the link.

Location

- Id: 176
- Id: 179
- Id: 181
- Id: 182
- Id: 183

Route to lighting location

- Demo-log survey
- Berman study
- Redmond Ding Study
- Leedsbridge survey
- West Cambridge ding study
- Seattle Ding Study
- Demo study

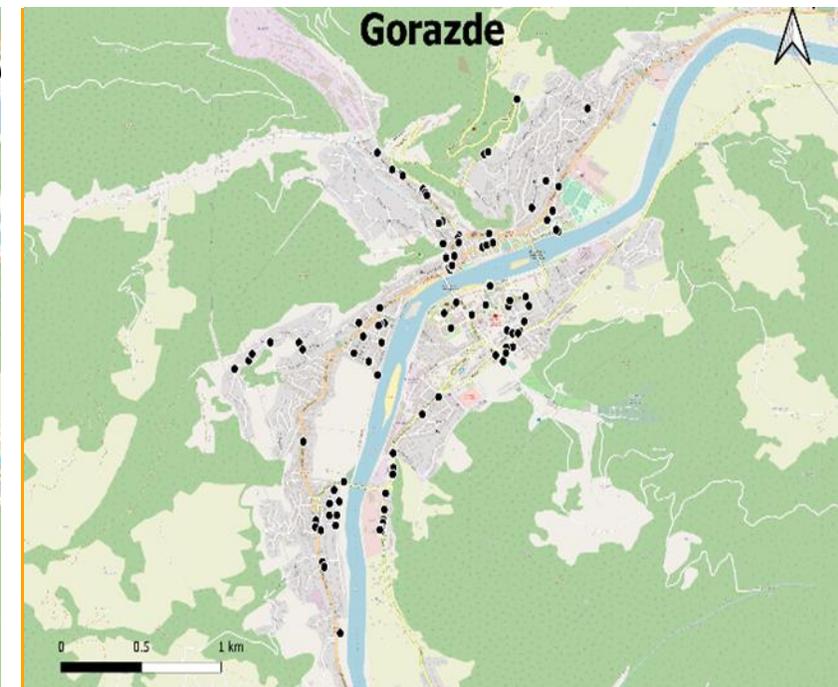
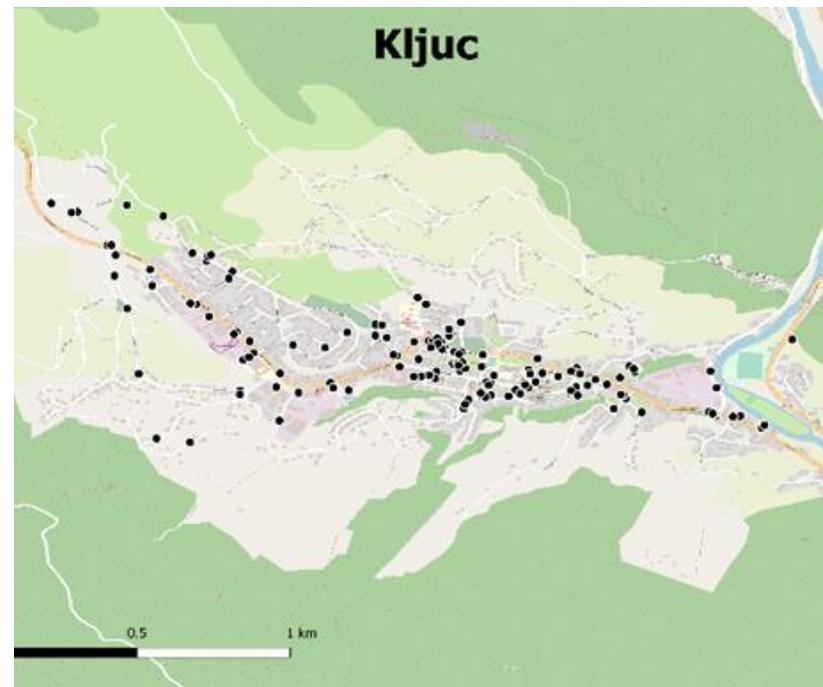
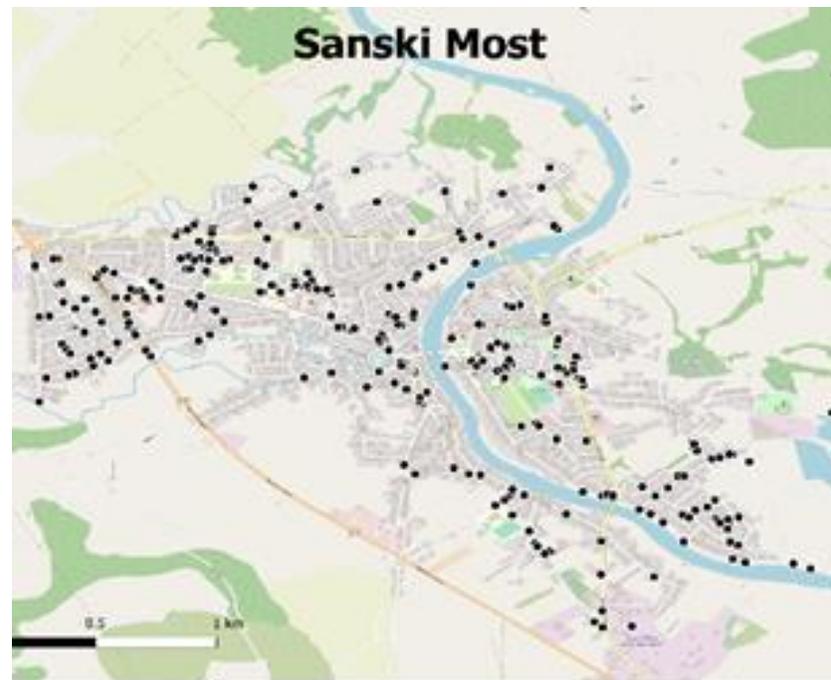
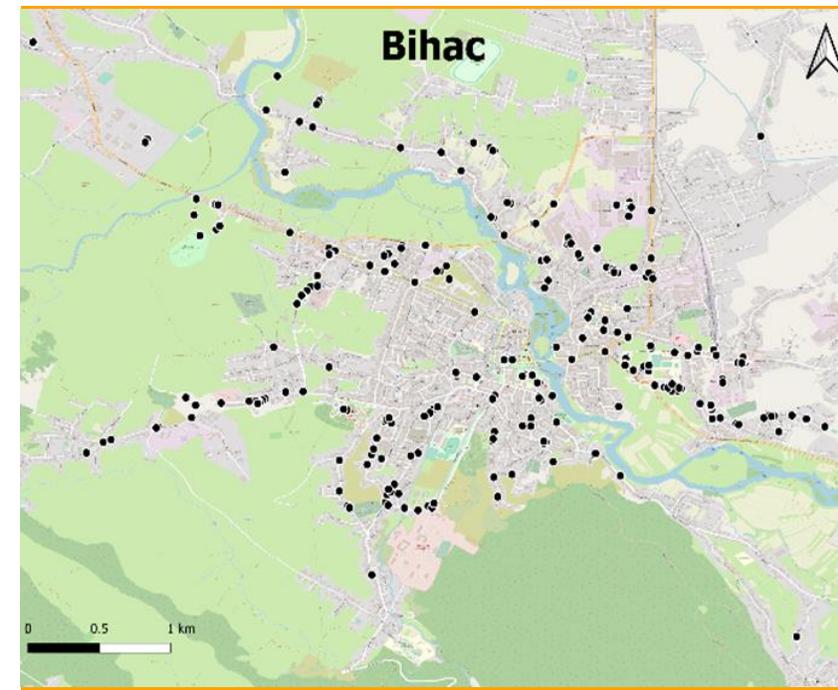
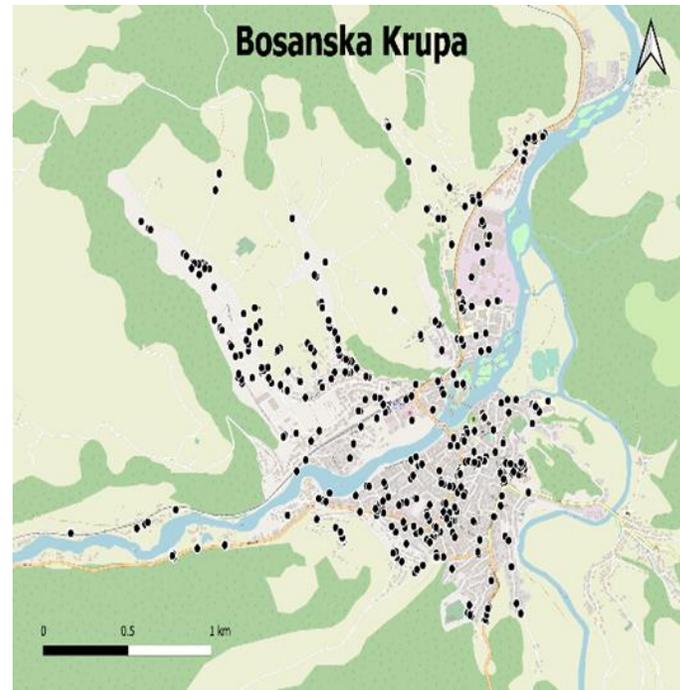
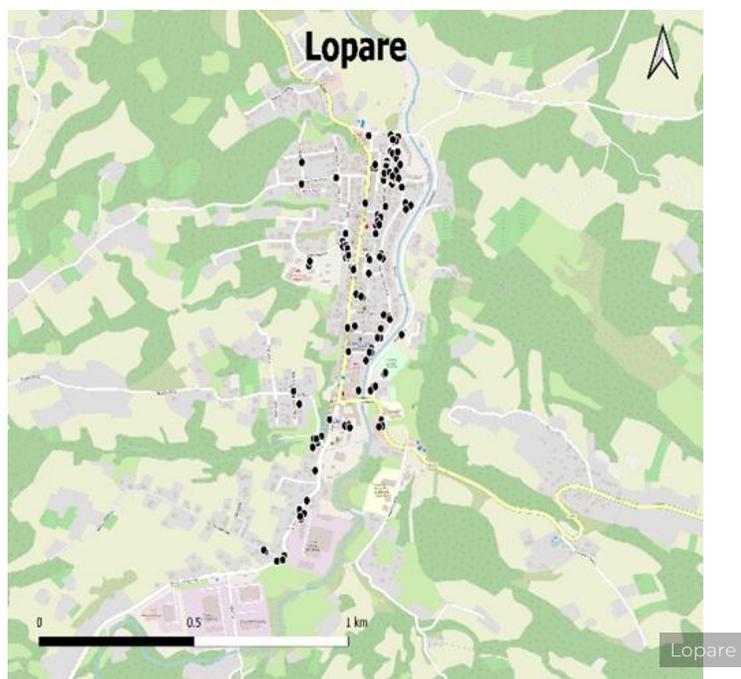
Location

Excel export for study

Zip file of CSV files export for study

KML export for study

KMZ export for study



Timeline of survey

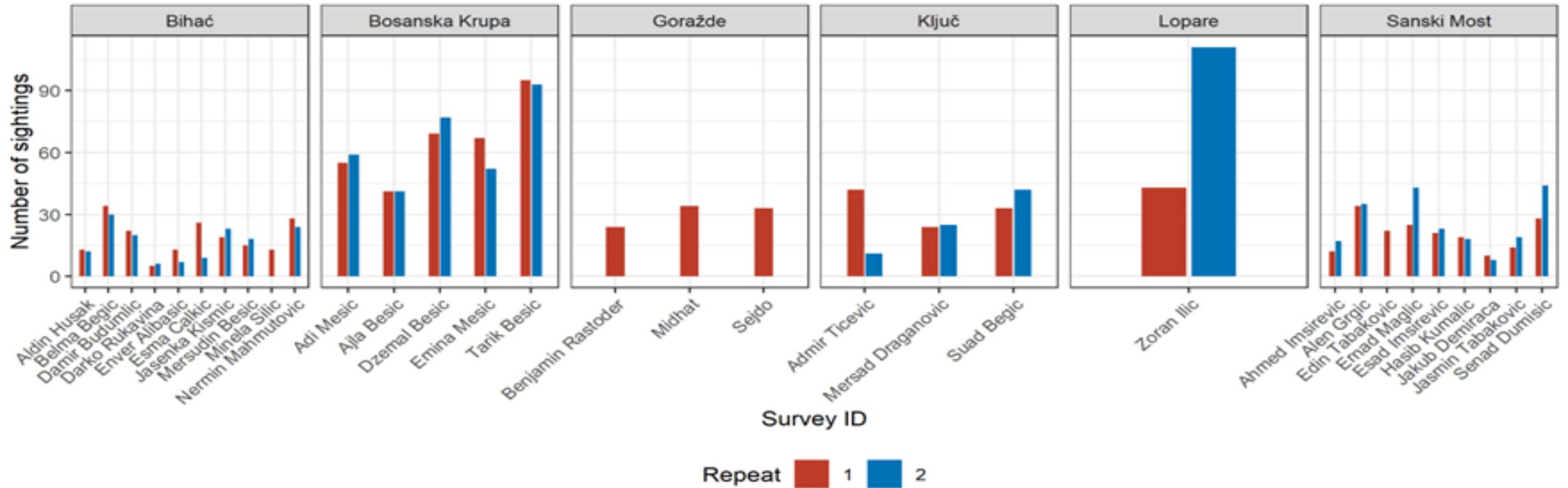
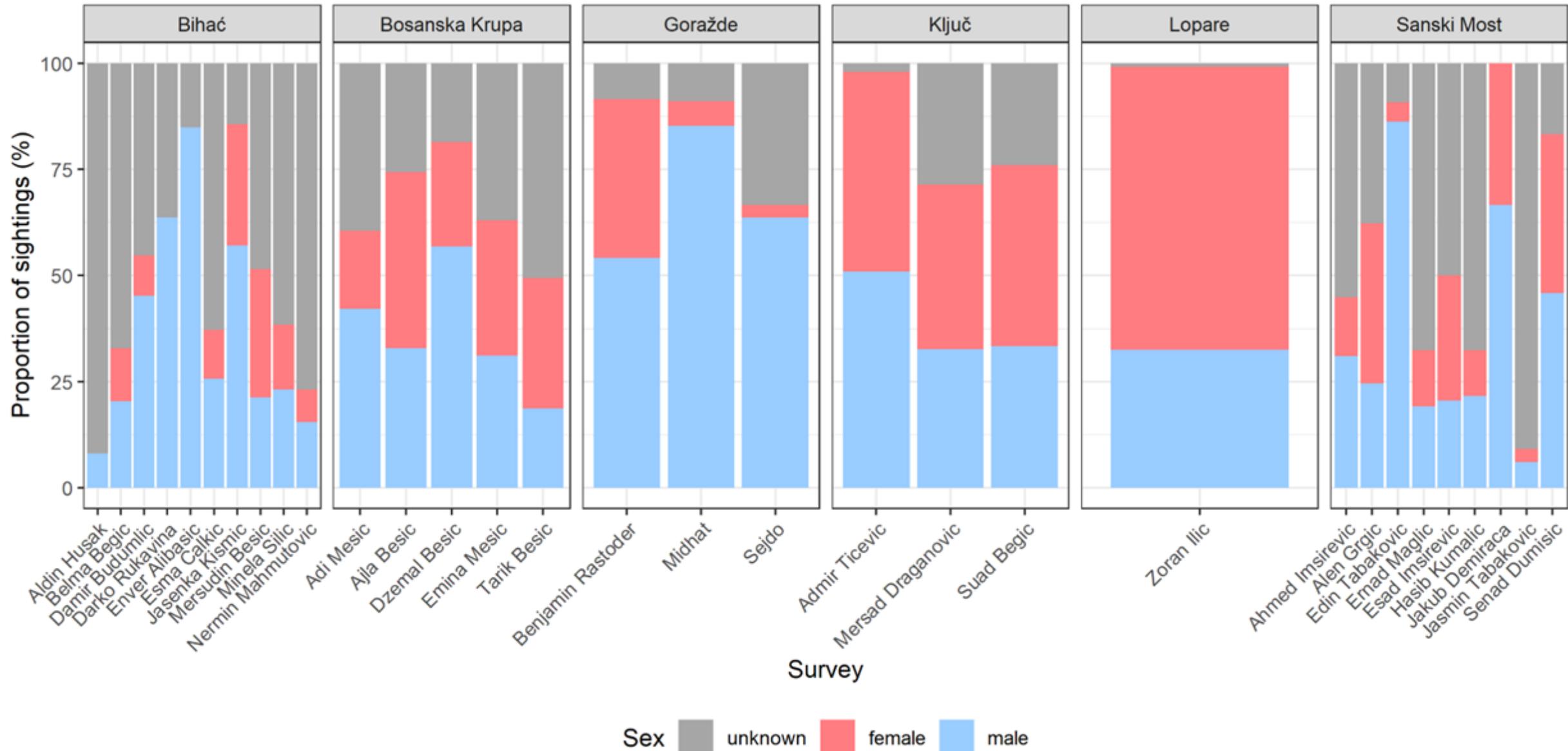
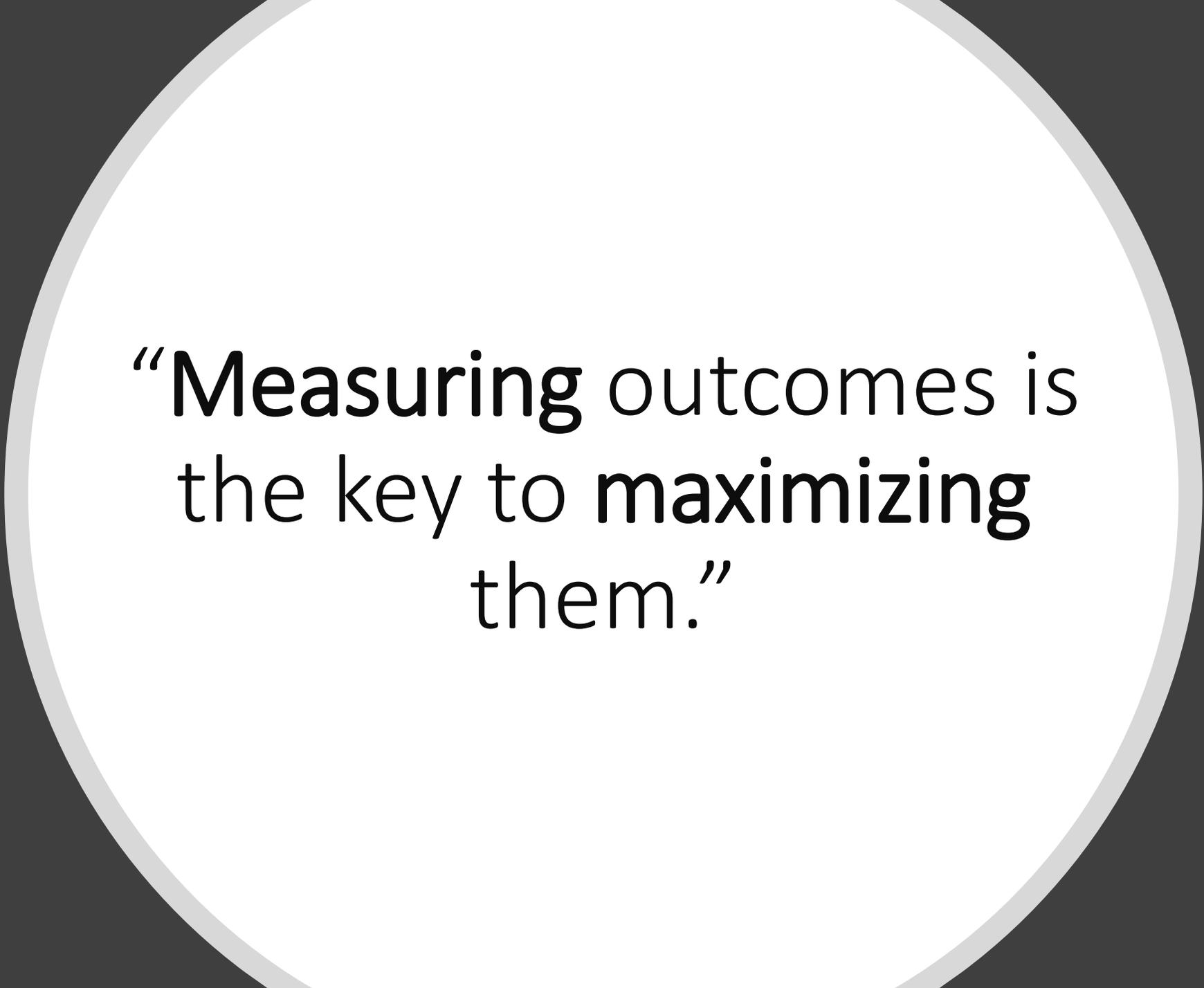


Figure 2 – Dog sightings per survey, by municipality and user. Most surveys were repeated as indicated by a red (first survey) and blue (second survey) bars.

Charting Data from the app that were entered in forms





“Measuring outcomes is
the key to maximizing
them.”

Why is it important?

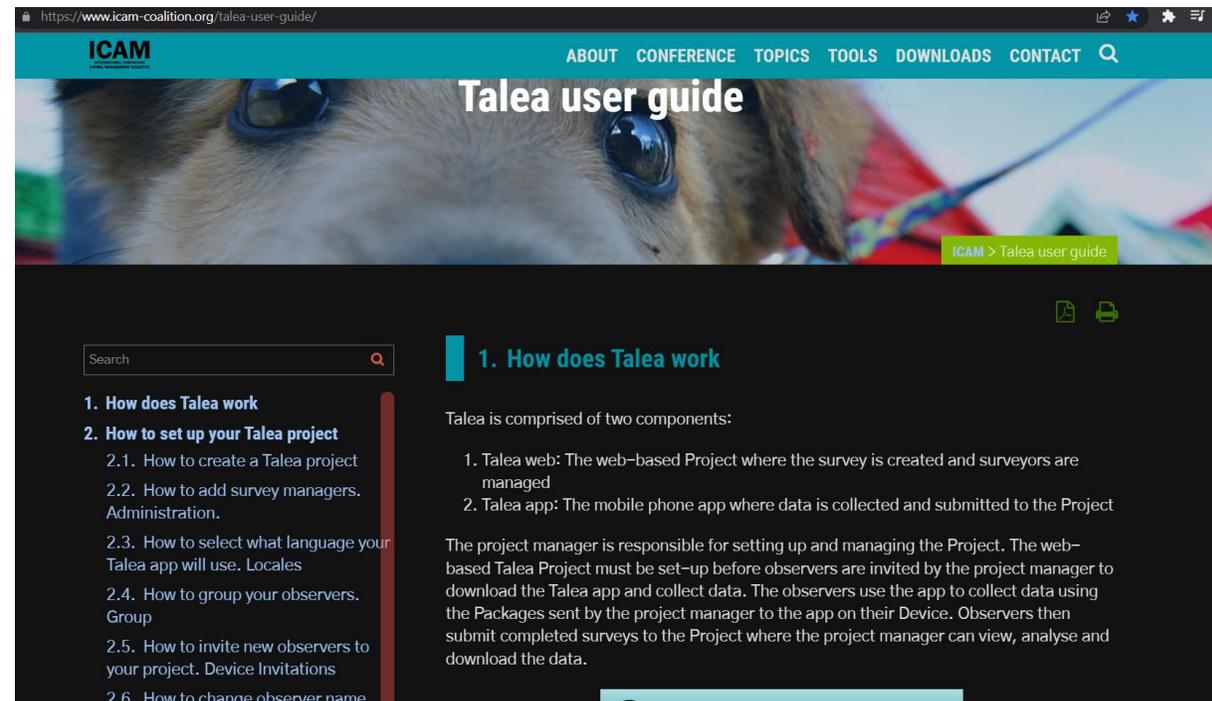
- To inform the public, people from municipalities, and all interested stakeholders of the impacts of the intervention,
- To compare interventions and their relative impacts, and plan future ones,
- This tool is available as Thalea app, but there are other similar - each is user friendly and can provide a good tool for DPM



Useful links

<https://www.icam-coalition.org/talea-user-guide/>

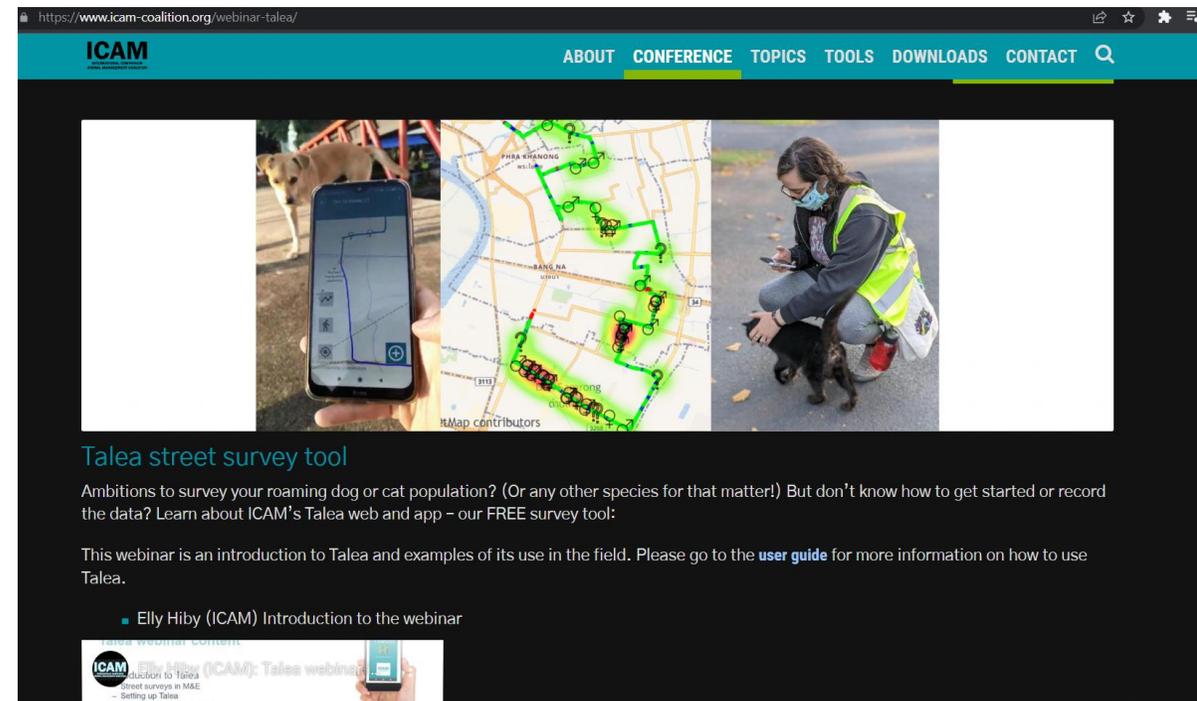
<https://www.icam-coalition.org/webinar-talea/>



The screenshot shows the ICAM website's 'Talea user guide' page. The header includes the ICAM logo and navigation links: ABOUT, CONFERENCE, TOPICS, TOOLS, DOWNLOADS, CONTACT. The main heading is 'Talea user guide'. Below the heading, there is a search bar and a list of sections:

- 1. How does Talea work
- 2. How to set up your Talea project
 - 2.1. How to create a Talea project
 - 2.2. How to add survey managers. Administration.
 - 2.3. How to select what language your Talea app will use. Locales
 - 2.4. How to group your observers. Group
 - 2.5. How to invite new observers to your project. Device Invitations
 - 2.6. How to change observer name,

The main content area is titled '1. How does Talea work' and states: 'Talea is comprised of two components: 1. Talea web: The web-based Project where the survey is created and surveyors are managed 2. Talea app: The mobile phone app where data is collected and submitted to the Project'. It further explains that the project manager is responsible for setting up and managing the Project, and that observers use the app to collect data using packages sent by the project manager.



The screenshot shows the ICAM website's 'webinar-talea' page. The header includes the ICAM logo and navigation links: ABOUT, CONFERENCE, TOPICS, TOOLS, DOWNLOADS, CONTACT. The main heading is 'Talea street survey tool'. Below the heading, there is a search bar and a list of sections:

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The main content area is titled 'Talea street survey tool' and states: 'Ambitions to survey your roaming dog or cat population? (Or any other species for that matter!) But don't know how to get started or record the data? Learn about ICAM's Talea web and app - our FREE survey tool: This webinar is an introduction to Talea and examples of its use in the field. Please go to the **user guide** for more information on how to use Talea.' Below this, there is a list of speakers: 'Elly Hiby (ICAM) Introduction to the webinar'. At the bottom, there is a small image of a person holding a smartphone displaying the Talea app interface.

ČUVAJMO PSE!
ŽIVOTINJE!!!



Take care of dogs
and animals!

Thank you!