

Subject: Advanced Data Analysis

Module: Geospatial Analysis

Session 2 - Open data and Crowdsourcing smart geoforms

Exercise 3 - Smart form-based surveys in diverse environments

Smart form-based surveys

Crowdsourcing smart geoforms can be used to get an accurate field data.

You can replace unreliable paper-based data collection with a trustworthy digital solution that fits the needs of field personnel in diverse environments.



How It Works?

Survey123 for ArcGIS is a simple and intuitive form-centric data gathering solution that makes creating, sharing, and analyzing surveys possible in just three easy steps:

1. Ask Questions.

Quickly design powerful surveys and publish them into ArcGIS.

2. Get the Answers

Enable your workforce (group of users) with the Survey123 for ArcGIS mobile app to capture answers in the field.

3. Make the Best Decisions

Analyze answers from the field in real-time to support decision making.



Valuable Big Data and R&I Projects with Smart form-based surveys?

<http://www.esri.com/products/survey123>

<https://community.esri.com/groups/survey123/blog/2017/09/13/flattened-forms-using-survey123-for-arcgis-to-eliminate-paper-data-sheets-and-collect-roadkill-information>

1. Overview of the task

The aim of this exercise is to develop a Smart form-based surveys Using the Survey123 for ArcGIS for mapping community engagement in three big data scenarios.

- **Scenario 1** – City Planning.

Imagine that you opened a Startup in Barcelona and was subcontracted by Eurecat to execute a big data project on the functionality of the urban space in the city of Barcelona. The project will be developed for the Barcelona City Hall. This data will integrate into Eurecat's big data infrastructure for later Business Intelligence Analysis.

Scenario 2 – Telecommunications.

Imagine that you opened a Startup in Barcelona and was subcontracted by Eurecat to execute a big data project on the opinion of the end users about the map data with the information on the state of mobile telephone network coverage in Catalonia.

<http://smartcatalonia.gencat.cat/en/detalls/article/Cobertura-mobil>

The project will be developed for the Government of Catalonia. This data will integrate into Eurecat's big data infrastructure for later Business Intelligence Analysis and GIS mapping tasks.

- **Scenario 3** – Natural Resources.

Imagine that you opened a Startup in Barcelona and was subcontracted by European Space Agency (ESA) to execute a GeoEnrichment service (appends new data) integrating the opinion of the end users about the quality of the Riparian Zones in Europe under the scope of the Copernicus project.

<http://www.esa.int/ESA>

http://www.esa.int/Our_Activities/Observing_the_Earth/Copernicus/Overview

<https://land.copernicus.eu/local/riparian-zones>

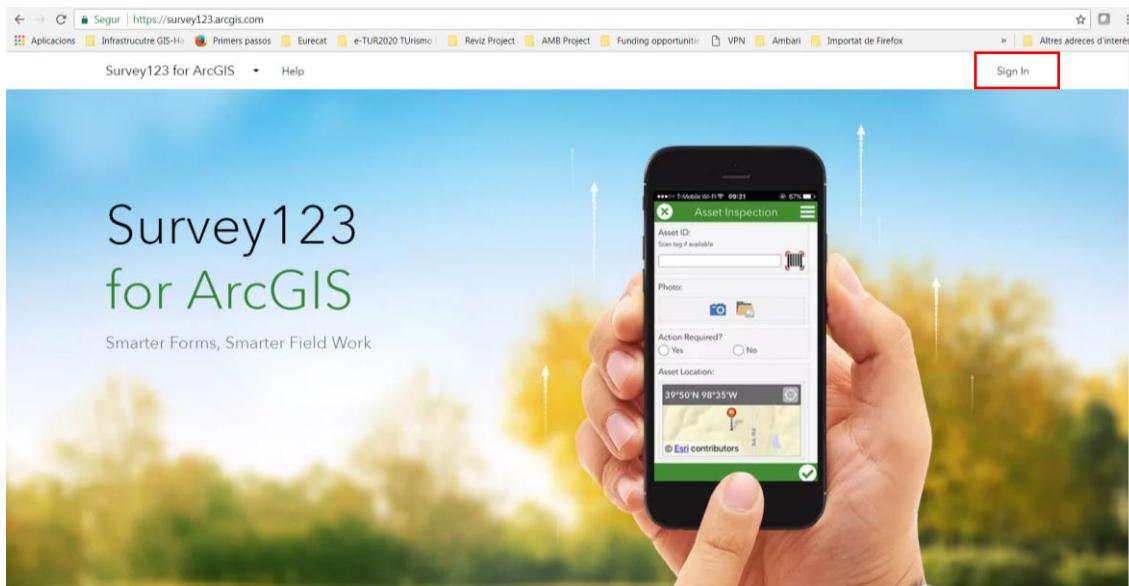
The project will be developed for the European Space Agency (ESA). This data will integrate into ESA big data infrastructure for Earth Observation workflows and to update the information about the Riparian zones in Europe.

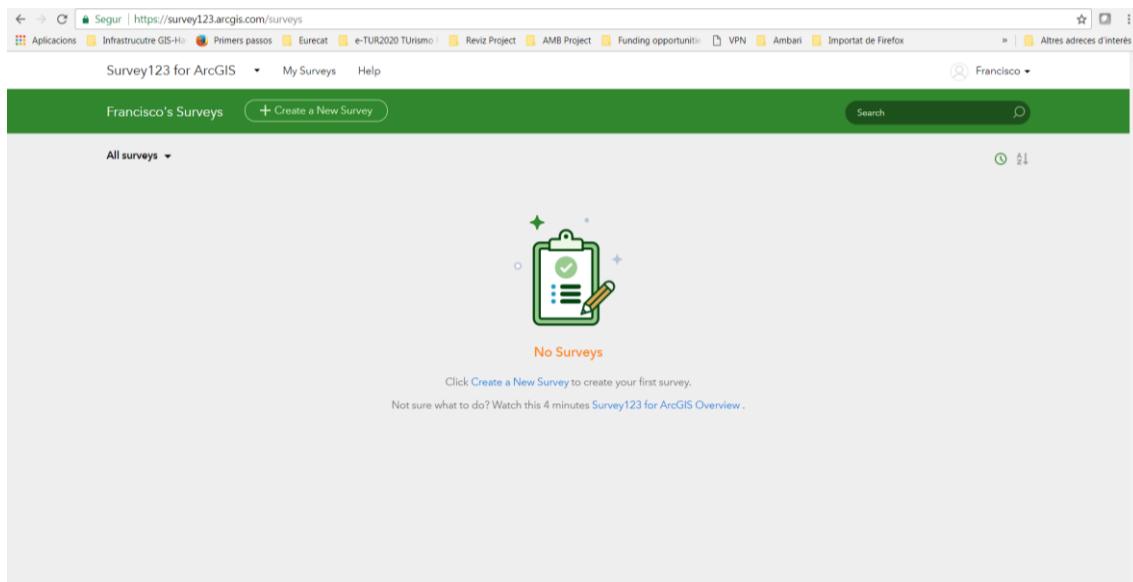
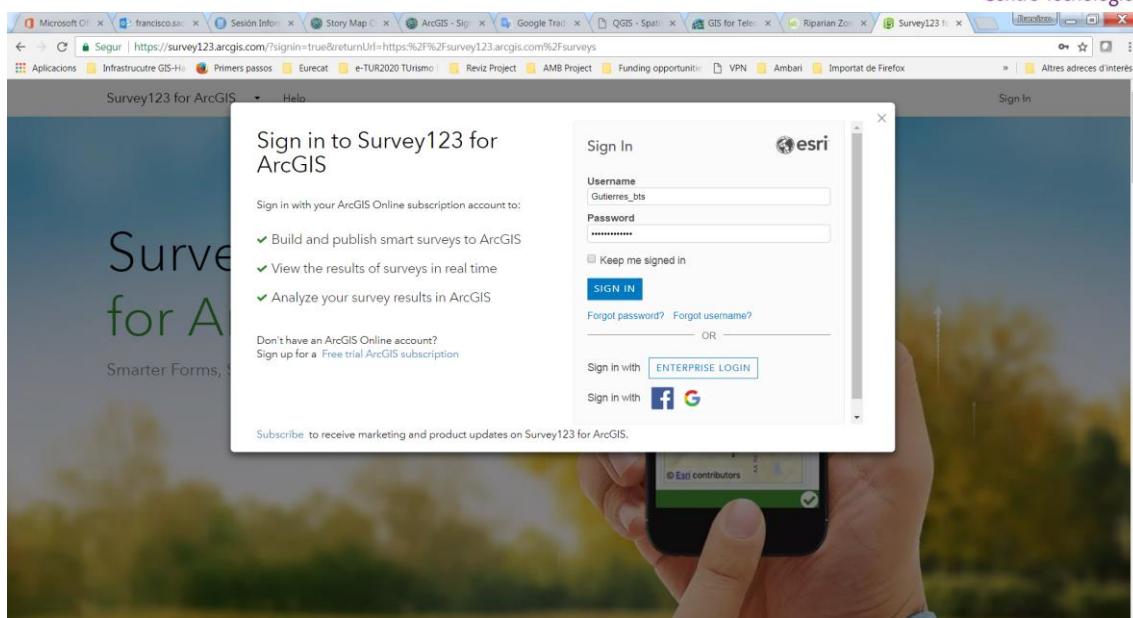
You will create surveys in each of these scenarios using the Survey123 for ArcGIS in two ways:

- Using the “Web designer” for Scenario 1.
- Using the “Survey 123 Connect” for Scenario 2 and 3.

2. Procedure to create a Geoform using the “Web designer”

- 2.1. Go to the webpage “Survey123 for ArcGIS”:
<https://survey123.arcgis.com/>
- 2.2. Sign in with your ArcGIS Online Developer credentials (Username and password).





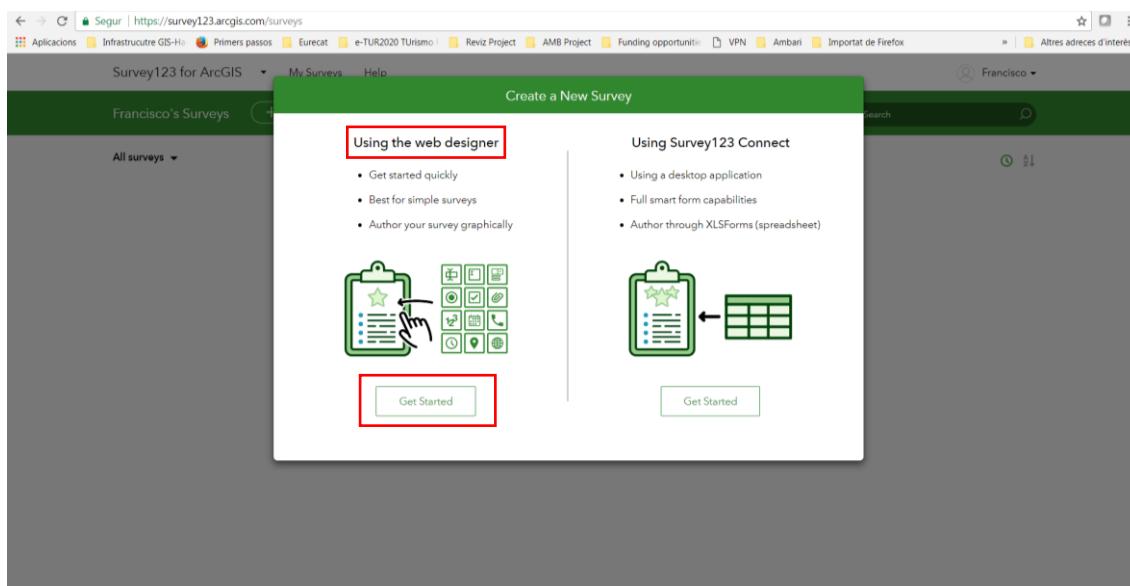
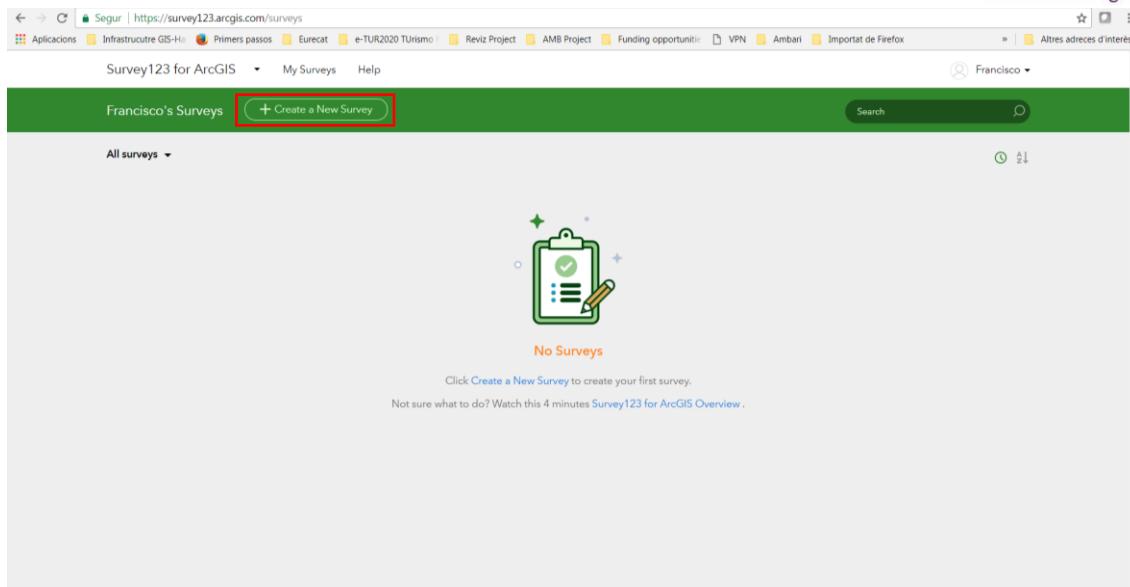
- 2.3. Explore the help button. At this stage we will download and install the software desktop “Survey 123 Connect” (for Windows and Mac) and also the mobile app “Survey123 for ArcGIS”. Choose the option indicated for your computer.

The screenshot shows the 'Help' page for Survey123 for ArcGIS. The top navigation bar includes links for 'Survey123 for ArcGIS', 'My Surveys', 'Help' (which is highlighted with a red box), and 'Francisco'. Below the navigation is a green header bar with the word 'Help'. The main content area is divided into several sections: 'Download' (with a red box around it), 'FAQ', 'Community Support', 'Technical Support', 'Blogs', and 'Follow Us on Twitter'. Each section contains a brief description and a list of links.

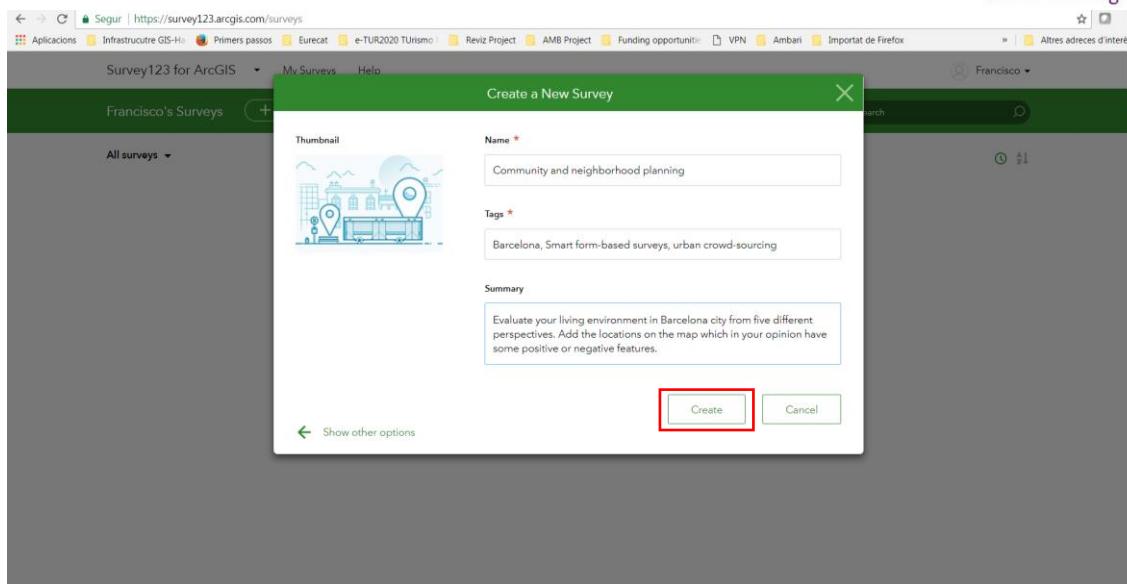
The screenshot shows the download page for Survey123 for ArcGIS. The top navigation bar includes links for 'ArcGIS', 'Gallery', 'Map', 'Scene', 'Groups', 'Content', 'Organization', 'Search' (with a red box around it), and 'English'. Below the navigation is a blue header bar with the text 'Survey123 for ArcGIS'. The main content area is divided into two main sections: 'Survey123 Connect' (highlighted with a red box) and 'Survey123 for ArcGIS'. Each section shows download links for Windows x86, macOS, and Linux, along with their respective file sizes. At the bottom of each section are download links for the App Store, Google Play, Amazon, and Microsoft.

2.4. Create a New Survey for Scenario 1 “City Planning” related to “Community and neighborhood planning” using the “Web Designer”.

Aim of the Survey: Allow grassroots initiatives to grow and help them produce useful information in an efficient format to the benefit of city planning and development. Foster community building with inclusive and easy-to-use online map-based services that empower residents to submit and discuss ideas as well as to share experiences and knowledge.



- 2.5. Insert the 'Name' "Community and neighborhood planning"; 'Tags' "Barcelona", "Smart form-based surveys" and "urban crowd-sourcing" and the 'Summary': "Evaluate your living environment in Barcelona city from five different perspectives. Add the locations on the map which in your opinion have some positive or negative features."
- 2.6. Click "Create".



2.7. Now you will add question and informations to the survey.

2.8. For the question 1 please add the option “Single Choise”.

The screenshot shows the Survey123 for ArcGIS interface. On the left, the survey form titled "Community and neighborhood planning" is displayed. It contains a single question: "Evaluate your living environment in Barcelona city from five different perspectives. Add the locations on the map which in your opinion have some positive or negative features." Below the question is a note: "Please drag from or click on the right panel to add your first question." A "Submit" button is at the bottom. On the right, the "Design" tab is active, showing a grid of question types. The "Single Choice" type is selected and highlighted with a red box. Other visible question types include Singleline Text, Multiline Text, Multiple Choice, Dropdown, Rating, Likert, Number, Date, Time, GeoPoint, Image, Email, Website, and Note.

2.9. Edit the option “Single Choise”. Click on the question.

This screenshot continues from the previous one, showing the "Design" tab for the "Single Choice" question. The question "Untitled Question 1" is selected. In the "Choices" section, three options are listed: "Choice 1", "Choice 2", and "Choice 3". A red box highlights this entire section. The right panel also shows the "Label" field containing "Untitled Question 1" and the "Hint" field with the placeholder "Tell user how to fill this question".

2.10. Insert the following options:

- Label: “Question 1: What is the functional possibilities of the environment?”.
- Hint: “In your opinion have some positive or negative features for this perspective.”
- Choices: “Positive” and “Negative” (remove one option).

Survey123 for ArcGIS - My Surveys - Help

Community and neighborhood planning

Community and neighborhood planning

Question 1: What is the functional possibilities of the environment?
In your opinion have some positive or negative features for this perspective.

1

Positive
Negative
Choice 3

Submit

Powered by Survey123 for ArcGIS

Overview Design Collaborate Analyze Data

Add Edit Appearance Settings

Single Choice

Label: Question 1: What is the functional possibilities of the environment?

Hints:

Choices

Positive	Batch Edit
Negative	
Choice 3	
Allow "Other"	Other

Save Preview Publish

2.11. In Validation check the option “This is a required question”.

Survey123 for ArcGIS - My Surveys - Help

Community and neighborhood planning

Community and neighborhood planning

Question 1: What is the functional possibilities of the environment?*In your opinion have some positive or negative features for this perspective.

1

Positive
Negative

Submit

Powered by Survey123 for ArcGIS

Overview Design Collaborate Analyze Data

Add Edit Appearance Settings

Validation

This is a required question

Appearance

Layout

Vertical
Horizontal

Other

Cache answer to this question

Save Preview Publish

2.12. Save the question 1.

Community and neighborhood planning

Community and neighborhood planning

Evaluate your living environment in Barcelona city from five different perspectives. Add the locations on the map which in your opinion have some positive or negative features.

1 Question 1: What is the functional possibilities of the environment?*

In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Submit

Powered by Survey123 for ArcGIS

Overview Design Collaborate Analyze Data

Add Edit Appearance Settings

positive
negative
Allow "Other"

Appearance
Layout
Vertical
Horizontal
Validation
This is a required question
Other
Cache answer to this question

Save Preview Publish

2.13. Add the second question with the option “Single Choise”.

Community and neighborhood planning

Community and neighborhood planning

Evaluate your living environment in Barcelona city from five different perspectives. Add the locations on the map which in your opinion have some positive or negative features.

1 Question 1: What is the functional possibilities of the environment?*

In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Submit

Powered by Survey123 for ArcGIS

Overview Design Collaborate Analyze Data

Add Edit Appearance Settings

Common Questions

Singleline Text	Multiline Text
Single Choice	Multiple Choice
Dropdown	Rating
Likert	Number
Date	Time
GeoPoint	Image
Email	Website
Note	

Save Preview Publish

2.14. Edit the option “Single Choise”. Click on the question.

2.15. Insert the following options:

- Label: “Question 2: What is the ambience of the environment?”.
- Hint: “In your opinion have some positive or negative features for this perspective.”
- Choices: “Positive” and “Negative” (remove one option).

2.16. In Validation check the option “This is a required question”.

2.17. Save the question 2.

2.18. For the question 3 please add the option "Single Choise".

2.19. Edit the option "Single Choise". Click on the question.

2.20. Insert the following options:

- Label: “Question 3: What is the social life in the environment?”.
- Hint: “In your opinion have some positive or negative features for this perspective.”
- Choices: “Positive” and “Negative” (remove one option).

2.21. In Validation check the option “This is a required question”.

2.22. Save the question 3.

Survey123 for ArcGIS - My Surveys - Help

Community and neighborhood planning

In your opinion have some positive or negative features for this perspective.

Question 2: What is the ambience of the environment? *

In your opinion have some positive or negative features for this perspective.

Question 3: What is the social life in the environment? *

In your opinion have some positive or negative features for this perspective.

Submit

Overview Design Collaborate Analyze Data

Add Edit Appearance Settings

Positive Negative Allow "Other" Other

Validation This is a required question

Layout Vertical Horizontal

Other Cache answer to this question

Save Preview Publish

2.23. For the Question 4 please consider the option “Likert”.

Survey123 for ArcGIS - My Surveys - Help

Community and neighborhood planning

In your opinion have some positive or negative features for this perspective.

Question 2: What is the ambience of the environment? *

In your opinion have some positive or negative features for this perspective.

Question 3: What is the social life in the environment? *

In your opinion have some positive or negative features for this perspective.

Submit

Overview Design Collaborate Analyze Data

Add Edit Appearance Settings

Common Questions

Singleline Text	Multiline Text
Single Choice	Multiple Choice
Dropdown	Rating
Likert	Number
Date	Time
GeoPoint	Image
Email	Website
Note	

Save Preview Publish

2.24. Insert the following options:

- Label: “Question 4: The appearance of the environment is very acceptable.”.
- Hint: “You agree with this perspective?”.
- Max. value “5”.

Survey123 for ArcGIS - My Surveys - Help

Community and neighborhood planning

Overview Design Collaborate Analyze Data

Question 3: What is the social life in the environment? *

In your opinion have some positive or negative features for this perspective.

Positive Negative

Question 4: The appearance of the environment is very acceptable.

You agree with this perspective?

Strongly disagree Disagree Neutral Agree Strongly agree

Submit

Powered by Survey123 for ArcGIS

Add Edit Appearance Settings

Likert

Label: Question 4: The appearance of the environment is very acceptable.

Hint: You agree with this perspective?

Max. value: 3 **5** 7 Custom

Labels:

- Strongly disagree
- Disagree
- Neutral

Save Preview Publish

Survey123 for ArcGIS - My Surveys - Help

Community and neighborhood planning

Overview Design Collaborate Analyze Data

Question 3: What is the social life in the environment? *

In your opinion have some positive or negative features for this perspective.

Positive Negative

Question 4: The appearance of the environment is very acceptable.*

You agree with this perspective?

Strongly disagree Disagree Neutral Agree Strongly agree

Submit

Powered by Survey123 for ArcGIS

Add Edit Appearance Settings

Likert

Labels:

- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree

Validation: This is a required question

Other: Cache answer to this question

Save **Preview** Publish

- 2.25. In Validation check the option "This is a required question".
- 2.26. Save the question 4.
- 2.27. For the Question 5 please consider the option "Number".

2.28. Edit the option “Number”. Click on the question.

2.29. Insert the following options:

- Label: “Question 5: Urban design and regeneration.”
- Hint: “Please enter a value between 0 (low valuation) and 10 (high valuation).”
- Default value: “0”.
- Choices: “0” and “10” (remove one option).

2.30. Save the question 5.

2.31. For the question 6 please add the option "Time".

The screenshot shows a survey titled "Community and neighborhood planning". The survey consists of several questions:

- Question 4: "The appearance of the environment is very acceptable." - A Likert scale from "Strongly disagree" to "Strongly agree".
- Question 5: "Urban design and regeneration." - A text input field with a placeholder "0".
- Question 6: "Insert the date of the survey" - A dropdown menu showing "12:12:58 AM".

The right side of the interface shows a "Common Questions" library with various types of inputs, and the "Time" option is specifically highlighted with a red border.

2.32. Edit the option “Time”. Click on the question.

2.33. Insert the following options:

- Label: “Please insert the date of the survey.”.
- Hint: “Submit only until 00:00.”.
- Default Value: “Submitting time.”.

The screenshot shows the "Edit" tab for Question 6, which is a "Time" input. The configuration panel includes the following settings:

- Label:** "Insert the date of the survey"
- Hint:** "Tell user how to fill this question"
- Default Value:** "Submitting time" (radio button selected)
- Validation:** "This is a required question" (checkbox checked)
- Other:** "Cache answer to this question" (checkbox unchecked)

The screenshot shows the ArcGIS Survey123 design interface. On the left, a survey form titled "Community and neighborhood planning" is displayed. It contains two questions: "Question 4: The appearance of the environment is very acceptable." and "Question 5: Urban design and regeneration.". Both questions have a note below them. Question 4 has a rating scale from "Strongly disagree" to "Strongly agree". Question 5 has a numeric input field with a placeholder "0". Below these is a date input field with a dropdown menu showing "12:56:18 PM". On the right, a sidebar titled "Design" shows configuration options for "Time", "Default Value", and "Validation". Under "Validation", the checkbox "This is a required question" is checked.

This screenshot is identical to the one above, showing the same survey form and configuration. The only difference is that the "Validation" section for question 6 now has the "This is a required question" checkbox checked.

2.34. Save the question.

2.35. For the question 7 please add the option "Image".

The screenshot shows the Survey123 for ArcGIS interface. On the left, there's a survey form with questions 4, 5, and 6. Question 4 is a Likert scale from 'Strongly disagree' to 'Strongly agree'. Question 5 is a rating scale from 0 to 10. Question 6 is a date input field set to 12:56:18 PM. At the bottom is a 'Submit' button. On the right, there's a sidebar with tabs for Overview, Design, Collaborate, Analyze, Data, and Settings. Under 'Design', there are buttons for Add, Edit, Appearance, and Settings. Below these are sections for 'Common Questions' containing options like Singleline Text, Single Choice, Dropdown, Likert, Date, GeoPoint, Email, Note, Multiline Text, Multiple Choice, Rating, Number, Time, and Website. The 'Image' option is highlighted with a red box. At the bottom of the sidebar are buttons for Saved, Preview, and Publish.

2.36. Edit the option “Image”. Click on the question.

2.37. Insert the following options:

- Label: “Please add an image.”.
- Hint: “Please use the camera of your device with good quality.”

2.38. In Validation check the option “This is a required question”.

This screenshot shows the Survey123 interface after editing. A new question, "Please add an image.", has been added at the bottom of the survey. It includes a label "Please add an image." and a hint "Please use the camera of your device with good quality.". The right sidebar now includes a "Validation" section with a checked checkbox for "This is a required question". The rest of the interface remains the same, with the survey form on the left and the design tools on the right.

2.39. Save the question.

2.40. For the question 8 please add the option “Geopoint”.

The screenshot shows the Survey123 for ArcGIS interface. On the left, there's a survey form with questions 5, 6, and 7. Question 5 is a Likert scale from 'Strongly disagree' to 'Strongly agree'. Question 6 is a date input field. Question 7 is a file upload field for images. On the right, the 'Design' tab is active, showing a toolbar with 'Add', 'Edit', 'Appearance', and 'Settings'. Below the toolbar is a section titled 'Common Questions' containing various question types: Singleline Text, Multiline Text, Single Choice, Multiple Choice, Dropdown, Rating, Likert, Number, Date, Time, Image, Website, and Note. The 'GeoPoint' option is highlighted with a red border. At the bottom right are buttons for 'Saved', 'Preview', and 'Publish'.

2.41. Edit the option “Geopoint”. Click on the question.

2.42. Insert the following options:

- Label: “Please add the location of the Survey.”.
- Default Map: “Use one of the ESRI basemap.”.

2.43. In Validation check the option “This is a required question”.

This screenshot shows the Survey123 interface after editing the 'GeoPoint' question. The 'Label' field now contains "Please add the location of the Survey.". The 'Hint' field contains "Use one of the ESRI basemap.". The 'Default Map' dropdown is set to "Imagery with Labels". A small map preview at the bottom shows a location marked with a blue pin. The rest of the survey form and interface are identical to the previous screenshot.

2.44. Save the question.

2.45. For the question 9 please add the option "Email".

2.46. Edit the option "Email". Click on the question.

2.47. Insert the following options:

- Label: "Please provide your Email.".
- Hint: "Optional.".
- Default Value: "username@gmail.com".

The screenshot shows the Survey123 for ArcGIS interface. A question 'Please provide your Email.' is displayed with an optional field. In the validation section, the checkbox 'This is a required question' is checked, which is highlighted with a red box.

- 2.48. In Validation please not check the option "This is a required question".
- 2.49. Save the question.

- 2.50. Go to the "Appearance" tab and change to gray. Save.

The screenshot shows the Survey123 for ArcGIS interface with the 'Appearance' tab selected. The theme is set to a light gray color. The layout elements section shows options for Survey header, Survey description, and Survey footer.

- 2.51. Click on the button "Preview" and visualize your Smart Survey.

Survey123 for ArcGIS ▾ My Surveys Help

Community and neighborhood planning

Community and neighborhood planning

Evaluate your living environment in Barcelona city from five different perspectives. Add the locations on the map which in your opinion have some positive or negative features.

Question 1: What is the functional possibilities of the environment? *
In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Question 2: What is the ambience of the environment? *
In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Question 3: What is the social life in the environment? *
In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Email

Label: Please provide your Email.

Hint: Optional.

Default Value: username@gmail.com

Validation: This is a required question.

Other: Saved ▾ Preview Publish

Survey123.arcgis.com/surveys/53fad37cb9ab453796daa4602a31c644/design

Community and neighborhood planning

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In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Question 2: What is the ambience of the environment? *
In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Question 3: What is the social life in the environment? *
In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Question 4: The appearance of the environment is very acceptable. *

Preview

Segur | https://survey123.arcgis.com/surveys/53fad37cb9ab453796daa4602a31c644/design

Aplicacions Infraestructura GIS-Hi! Primers passos Eurecat e-TUR2020 Turisme Reviz Project AMB Project Funding opportunities VPN Ambari Importat de Firefox Altres adreces d'interès

Question 3: What is the social life in the environment? *
In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Question 4: The appearance of the environment is very acceptable. *
You agree with this perspective?

Strongly disagree Disagree Neutral Agree Strongly agree

Question 5: Urban design and regeneration. *
Please enter a value between 0 (low valuation) and 10 (high valuation).

10⁰

Please insert the date of the survey. *
Submit only until 00:00.

2:29:51 PM

Please add an image. *
Please use the camera of your device with good quality.

Click here to upload file. (<10MB, support: jpg,jpeg,png,gif)

Segur | https://survey123.arcgis.com/surveys/53fad37cb9ab453796daa4602a31c644/design

Aplicacions Infraestructura GIS-Hi! Primers passos Eurecat e-TUR2020 Turisme Reviz Project AMB Project Funding opportunities VPN Ambari Importat de Firefox Altres adreces d'interès

Please insert the date of the survey. *
Submit only until 00:00.

2:29:51 PM

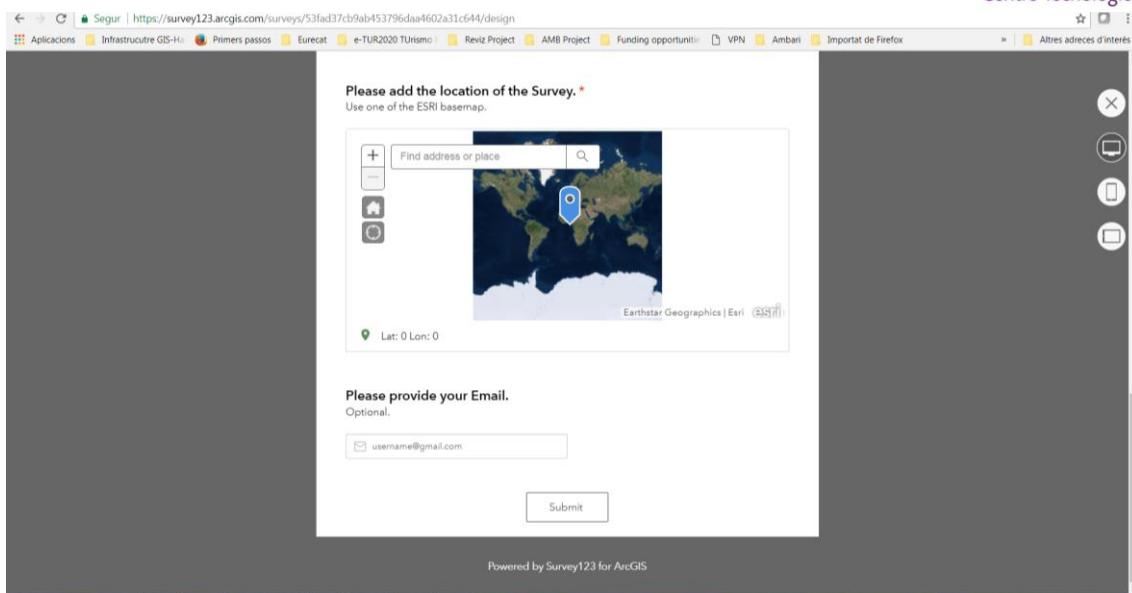
Please add an image. *
Please use the camera of your device with good quality.

Click here to upload file. (<10MB, support: jpg,jpeg,png,gif)

Please add the location of the Survey. *
Use one of the ESRI basemap.

Find address or place

Earthstar Geographics | Esri



2.52. Click on the button “Publish”.

Survey123 for ArcGIS ▾ My Surveys Help

Community and neighborhood planning

Community and neighborhood planning

Evaluate your living environment in Barcelona city from five different perspectives. Add the locations on the map which in your opinion have some positive or negative features.

1 Question 1: What is the functional possibilities of the environment? *

In your opinion have some positive or negative features for this perspective.

Positive
 Negative

2 Question 2: What is the ambience of the environment? *

In your opinion have some positive or negative features for this perspective.

Positive
 Negative

3 Question 3: What is the social life in the environment? *

In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Overview Design Collaborate Analyze Data

Publish Survey

All changes will be saved. Are you sure you want to publish the survey?

Modify schema

Publish Back

Survey123 for ArcGIS ▾ My Surveys Help

Community and neighborhood planning

Community and neighborhood planning

Evaluate your living environment in Barcelona city from five different perspectives. Add the locations on the map which in your opinion have some positive or negative features.

1 Question 1: What is the functional possibilities of the environment? *

In your opinion have some positive or negative features for this perspective.

Positive
 Negative

2 Question 2: What is the ambience of the environment? *

In your opinion have some positive or negative features for this perspective.

Positive
 Negative

3 Question 3: What is the social life in the environment? *

In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Overview Design Collaborate Analyze Data

The survey has been published! Now you can access the survey link here and distribute it to end users for data collection.

OK

Don't show this message again

Common Q

+ Add

Single (radio)	Single (checkbox)
Dropdown	Rating
Likert	Number
Date	Time
GeoPoint	Image
Email	Website
Note	

Saved ▾ Preview Publish

2.53. Click on the button “Collaborate”.

Survey123 for ArcGIS - My Surveys - Help

Community and neighborhood planning

Survey link: <https://survey123.arcgis.com/share/53fad37cb9ab453796daa4602a31c644>

Please share the survey in **Collaborate** so others can submit data to it.

Overview Design Collaborate Analyze Data

Common Questions

- Singleline Text
- Multiline Text
- Single Choice
- Multiple Choice
- Dropdown
- Rating
- Likert
- Number
- Date
- Time
- GeoPoint
- Image
- Email
- Website
- Note

Saved ▾ Preview Publish

Survey123 for ArcGIS - My Surveys - Help

Community and neighborhood planning

Submit

Choose who can submit data to this survey:

Everyone (Public)

Members of my organization (FranciscoGutierrezbts)

Following Groups:

No group to share.
Please manage groups in the Group page of ArcGIS Online. For more information on setting groups, please see the Group topics in ArcGIS Online Help.

Save

Survey link: <https://survey123.arcgis.com/share/53fad37cb9ab453796daa4602a31c644>

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)

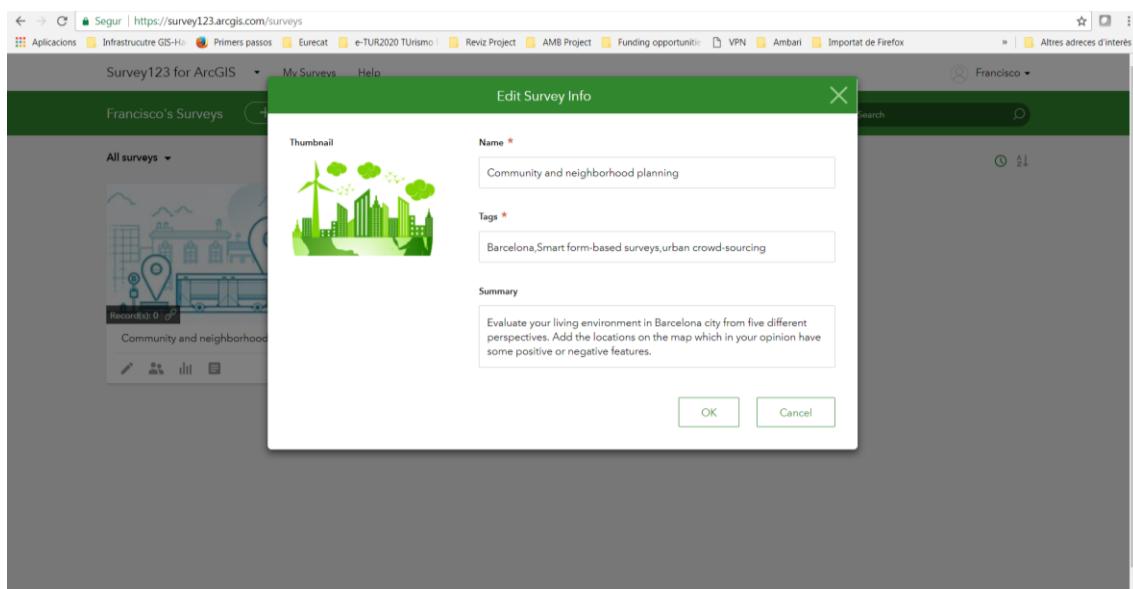
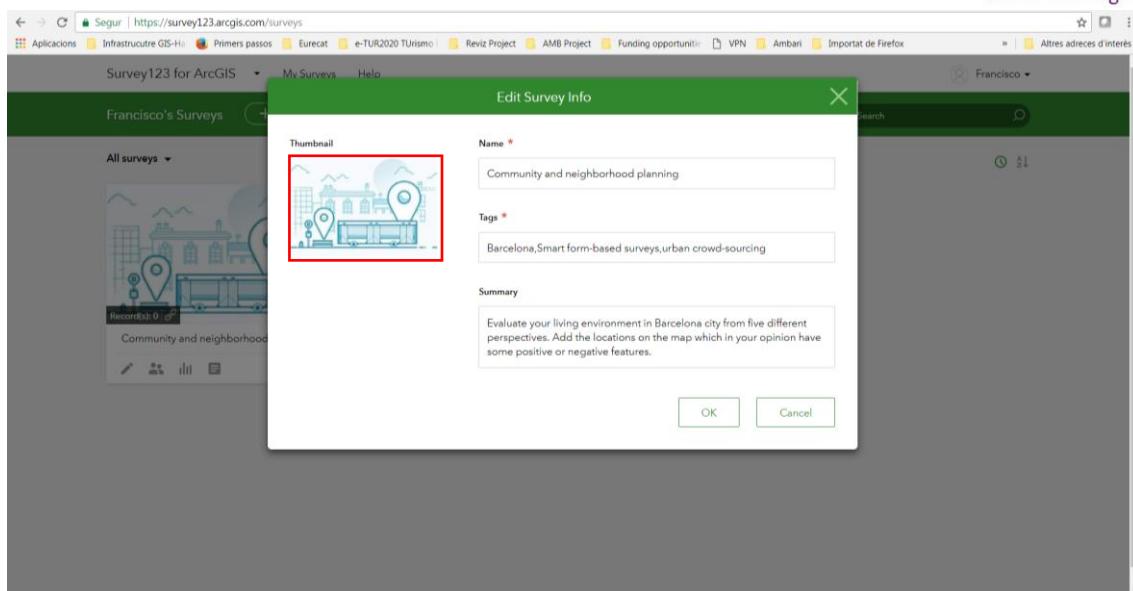
The screenshot shows the 'Community and neighborhood planning' survey settings page. On the left, there are buttons for 'Submit', 'Analyze' (which is highlighted with a red box), and 'Group Settings'. In the center, there's a section titled 'Choose who can view results of this survey:' with a checkbox for 'Everyone (Public)' which is checked (highlighted with a red box). Below it are other options like 'Members of my organization' and 'Following Groups'. At the bottom right of this section is a 'Save' button (highlighted with a red box). The top navigation bar includes links for 'Overview', 'Design', 'Collaborate' (which is selected and highlighted with a red box), 'Analyze', 'Data', and a share icon.

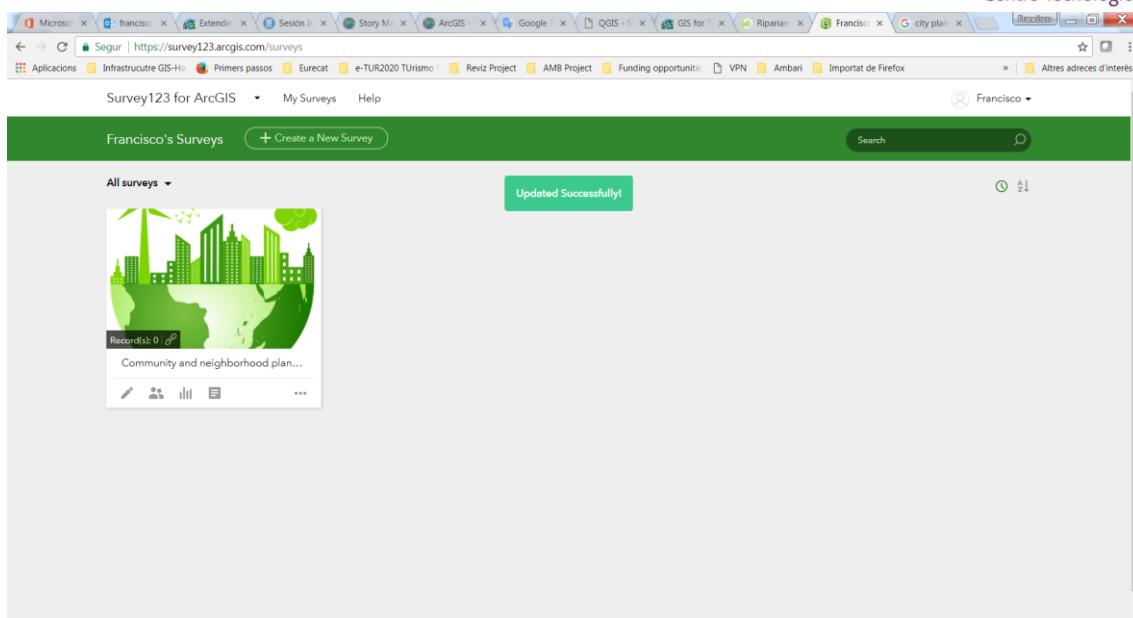
Note: The survey has been published! Now you can access the survey link here and distribute it to end users for data collection. Also analyze the results.

2.54. Go to "my Surveys" tab and let's edit the survey info.

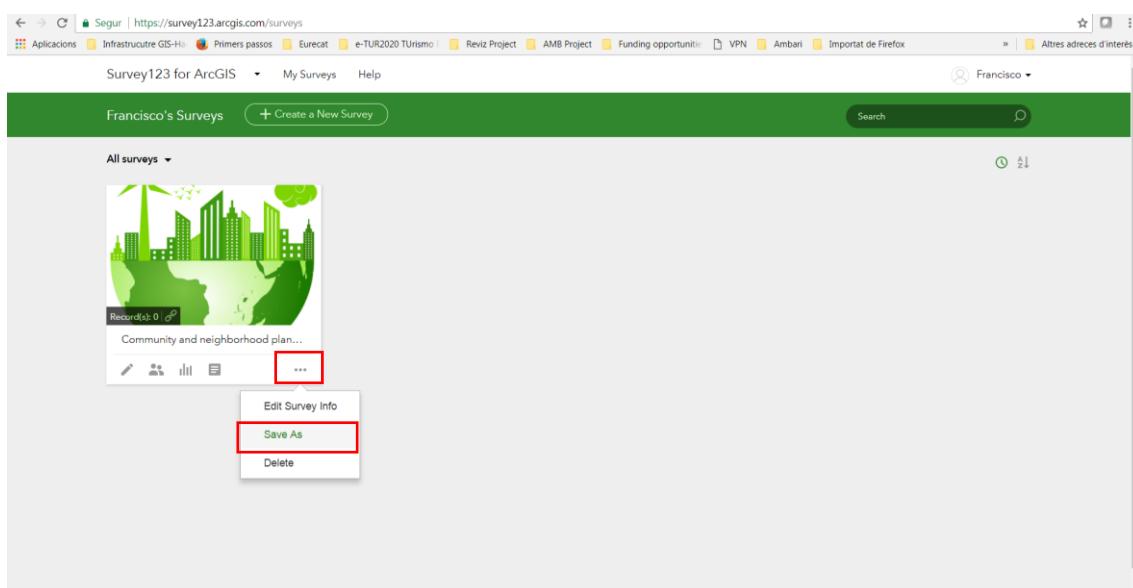
The screenshot shows the 'Francisco's Surveys' page. At the top, there's a 'Create A New Survey' button. Below it, there's a list of surveys with one titled 'Community and neighborhood plan...' shown. To the right of this list is a vertical toolbar with icons for edit, users, filters, and more. A red box highlights the 'More Options' icon (three dots). A context menu is open over the survey thumbnail, with the 'Edit Survey Info' option highlighted with a red box. Other options in the menu include 'Save As' and 'Delete'. The top navigation bar is identical to the previous screenshot, showing various project links and user information.

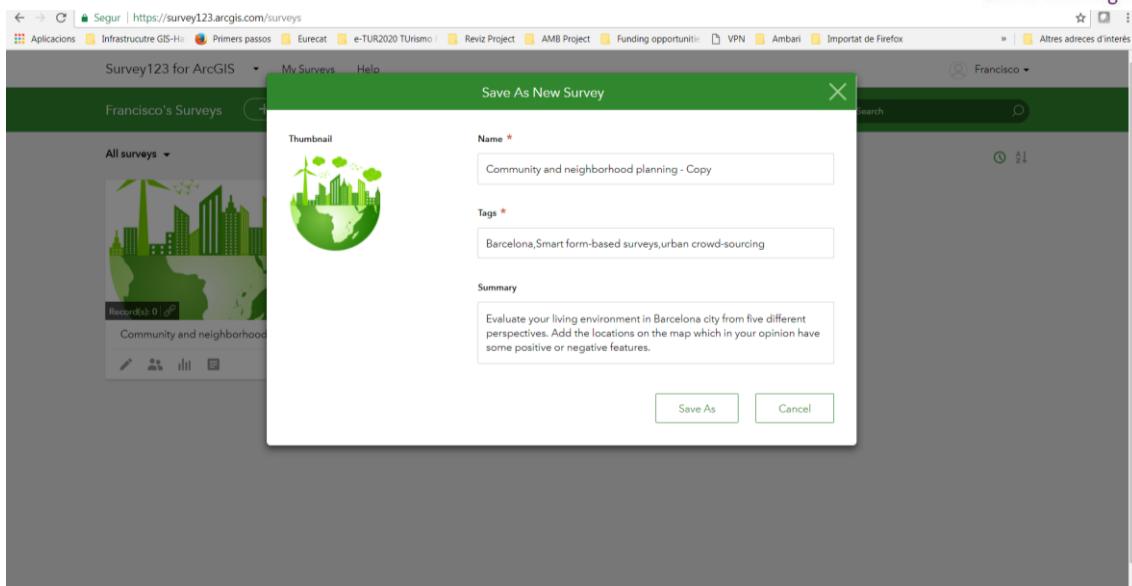
2.55. Change the Thumbnail. Use the image "CityPlanning.png" located at your local folder "\Session_2_GeoSA\Survey123forArcGIS".



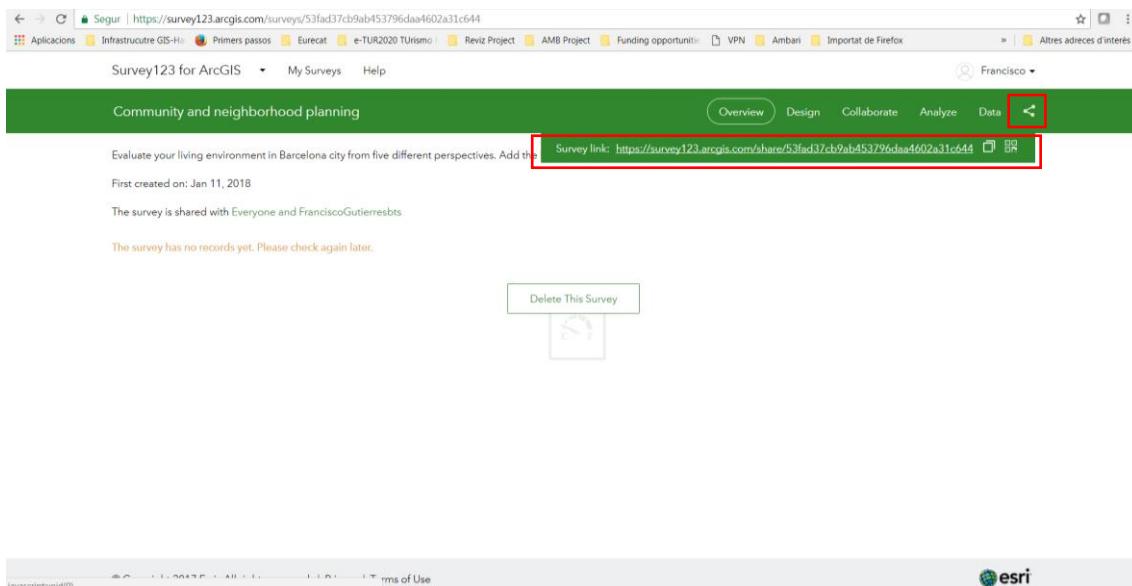


Note: you can use the option "Save as" to duplicate the Survey.





- 2.56. Click on the “Survey link”. And fill one record of the Survey. Use the image “Consell_Cent.jpg” located at your local folder “\Session_2_GeoSA\Survey123forArcGIS”.



Survey123 for ArcGIS ▾ My Surveys Help

Francisco

Community and neighborhood planning

Evaluate your living environment in Barcelona city from five different perspectives. Add the

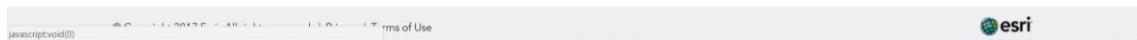
Survey link: <https://survey123.arcgis.com/share/53fad37cb9ab453796daa4602a31c644>

First created on: Jan 11, 2018

The survey is shared with Everyone and FranciscoGutierrezbts

The survey has no records yet. Please check again later.

Delete This Survey



Survey123 for ArcGIS ▾ My Surveys Help

Francisco

Community and neighborhood planning

Evaluate your living environment in Barcelona city from five different perspectives. Add the

Survey link: <https://survey123.arcgis.com/share/53fad37cb9ab453796daa4602a31c644>

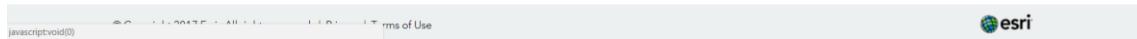
First created on: Jan 11, 2018

The survey is shared with Everyone and FranciscoGutierrezbts

The survey has no records yet. Please check again later.

Scan the QR code to open the survey on your device

QR code



<https://survey123.arcgis.com/share/53fad37cb9ab453796daa4602a31c644>

← → C Segur | https://survey123.arcgis.com/share/53fad37cb9ab453796daa4602a31c644

Aplicacions Infraestructura GIS-Hi Primers passos Eurecat e-TUR2020 Turisme Reviz Project AMB Project Funding opportunities VPN Ambari Importat de Firefox Sign Out

Gutierrezes_bts

Community and neighborhood planning

Evaluate your living environment in Barcelona city from five different perspectives. Add the locations on the map which in your opinion have some positive or negative features.

Question 1: What is the functional possibilities of the environment? *
In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Question 2: What is the ambience of the environment? *
In your opinion have some positive or negative features for this perspective.

Positive
 Negative

Question 3: What is the social life in the environment? *
In your opinion have some positive or negative features for this perspective.

Positive
 Negative

← → C Segur | https://survey123.arcgis.com/share/53fad37cb9ab453796daa4602a31c644

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Gutierrezes_bts

Negative

Question 4: The appearance of the environment is very acceptable. *
You agree with this perspective?

Strongly disagree Disagree Neutral Agree Strongly agree

Question 5: Urban design and regeneration. *
Please enter a value between 0 (low valuation) and 10 (high valuation).

7

Please insert the date of the survey. *
Submit only until 00:00.

2:50:17 PM

Please add an image. *
Please use the camera of your device with good quality.

 Consell_Cent.jpg 191.2KB

← → C Segur | https://survey123.arcgis.com/share/53fad37cb9ab453796daa4602a31c644

Aplicacions Infraestructura GIS-Hi Primers passos Eurecat e-TUR2020 Turisme Reviz Project AMB Project Funding opportunities VPN Ambari Importat de Firefox Sign Out

Gutierrezes_bts

Please add an image. *
Please use the camera of your device with good quality.

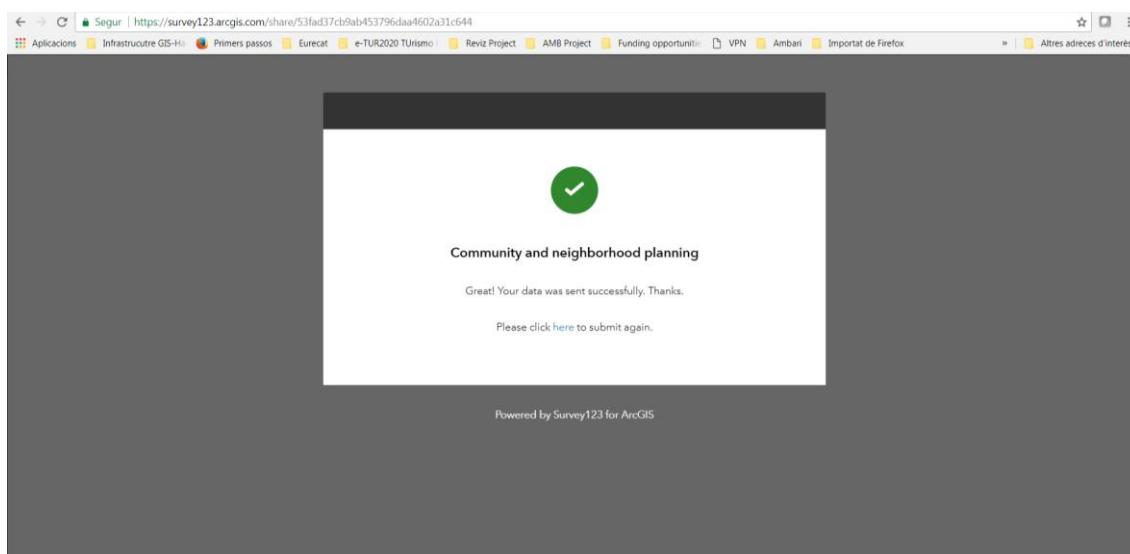
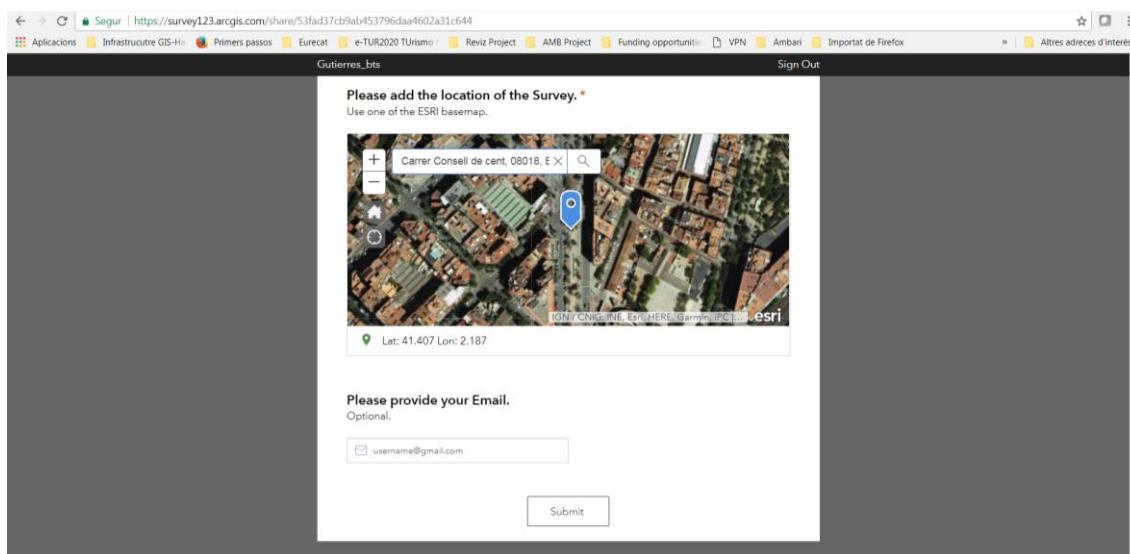
 Consell_Cent.jpg 191.2KB

Please add the location of the Survey. *
Use one of the ESRI basemap.

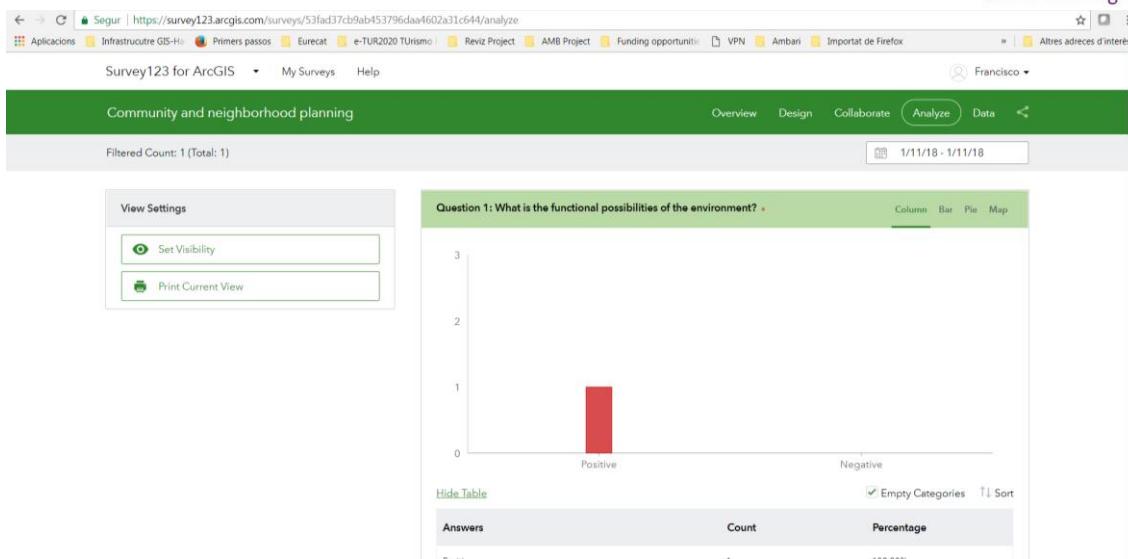


Lat: 41.407 Lon: 2.187

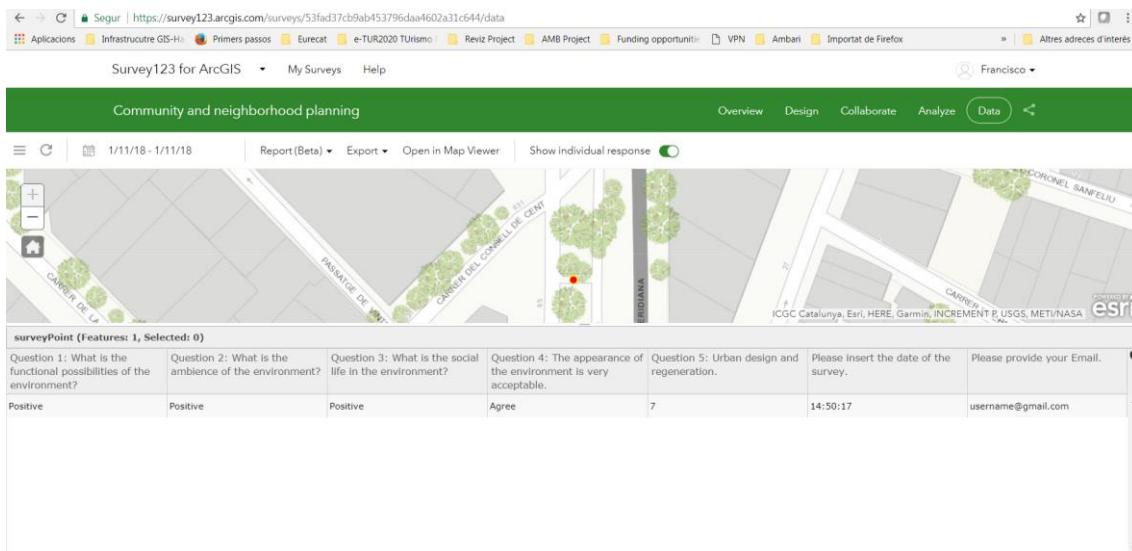
Please provide your Email.



2.57. Analyze and explore the results. Go to the “Analyze” tabs.

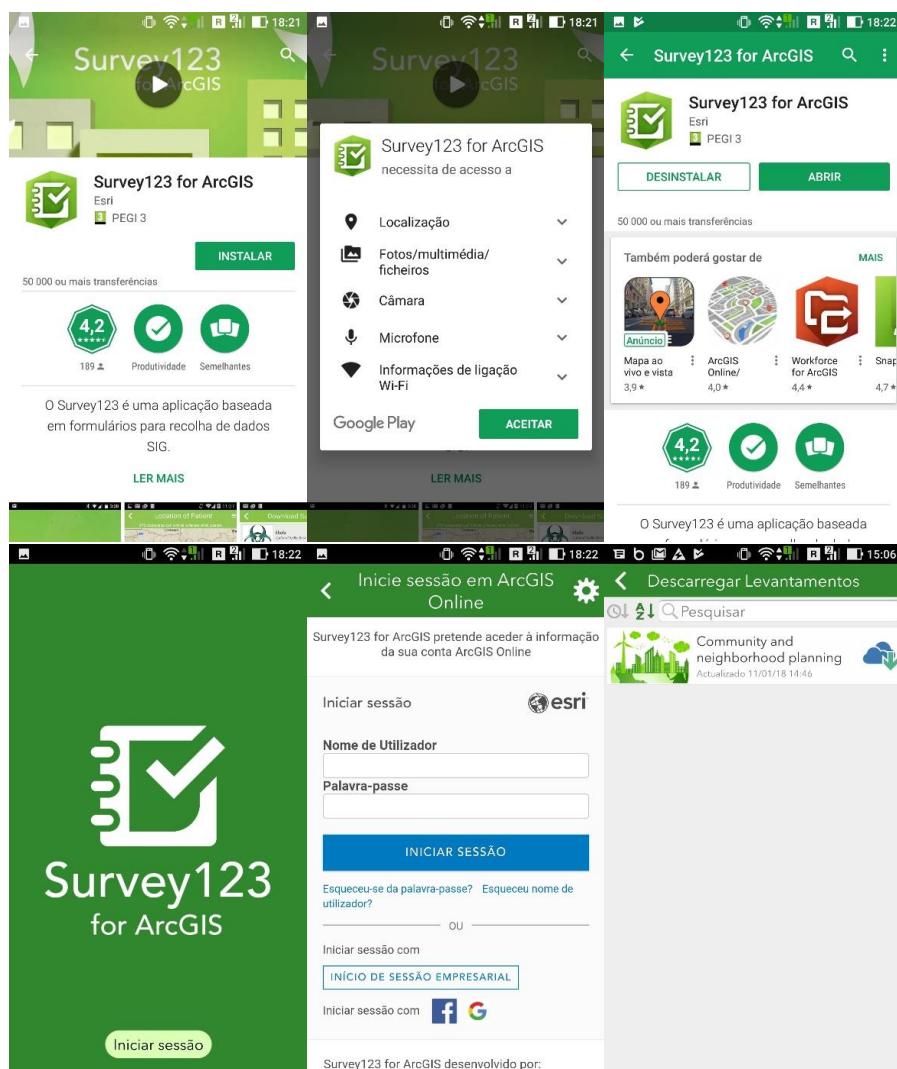


2.58. Click on the “Data” and explore the results and export options.



The screenshot shows a survey interface for "Community and neighborhood planning". At the top, there are tabs for "Overview", "Design", "Collaborate", "Analyze", and "Data". The "Data" tab is currently selected. A red box highlights the "Export" button in the top navigation bar. Below the navigation, there is a map view with a red dot indicating a survey point. To the left of the map, there is a legend for "Selected records only" with options for CSV, Excel, KML, Shapefile, and File Geodatabase. The main area contains five questions about the environment and its social life, followed by fields for inserting the survey date and email.

2.59. Now access to the Survey in your smartphone through the "Survey 123 for ArcGIS" app available in the Google Play store.



2.60. Go to ArcGIS Online account and visualize the results of the survey "Community and neighborhood planning".

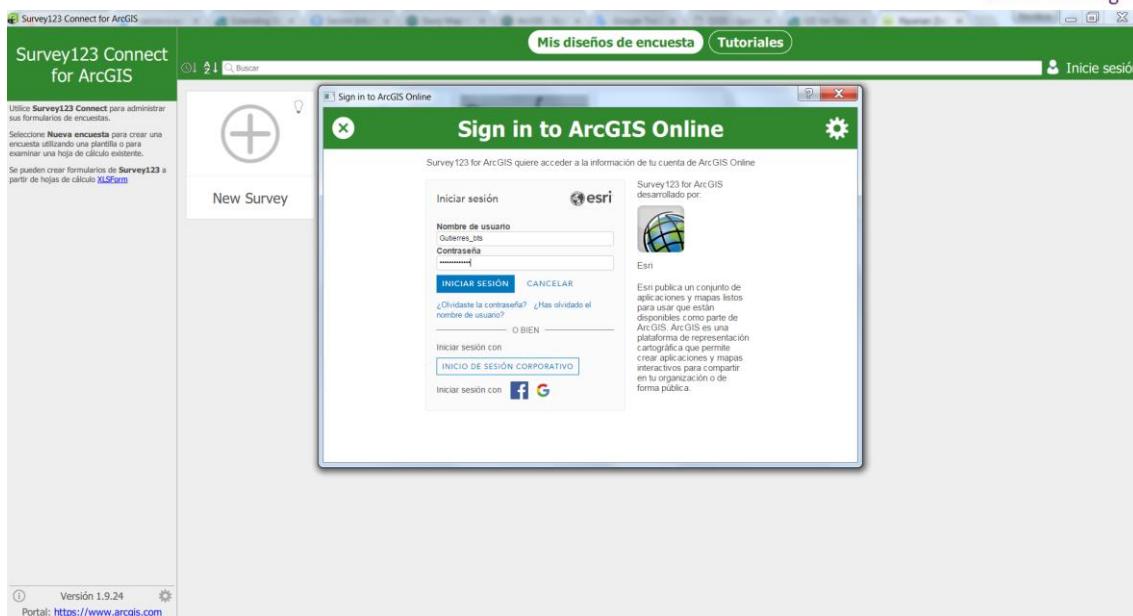
The screenshot shows the ArcGIS Online Content page. In the left sidebar, under 'Folders', the 'Survey-Community and neighborhood planning' folder is highlighted with a red box. The main area displays a search result for 'Gutierrez_bts' with four items listed:

Title	Type	Modified
Barcelona	Feature Layer (hosted)	Jan 10, 2018
Students of the Master in Big Data Solutions of the Barcelona Technology School (BTS)	Web Mapping Application	Jan 10, 2018
Students of the Master in Big Data Solutions of the Barcelona Technology School (BTS)	Web Map	Jan 10, 2018
studentsOfTheMasterInBigDataSolutionsOfTheBarcelona TechnologySchoolBTS	Feature Layer (hosted)	Jan 10, 2018

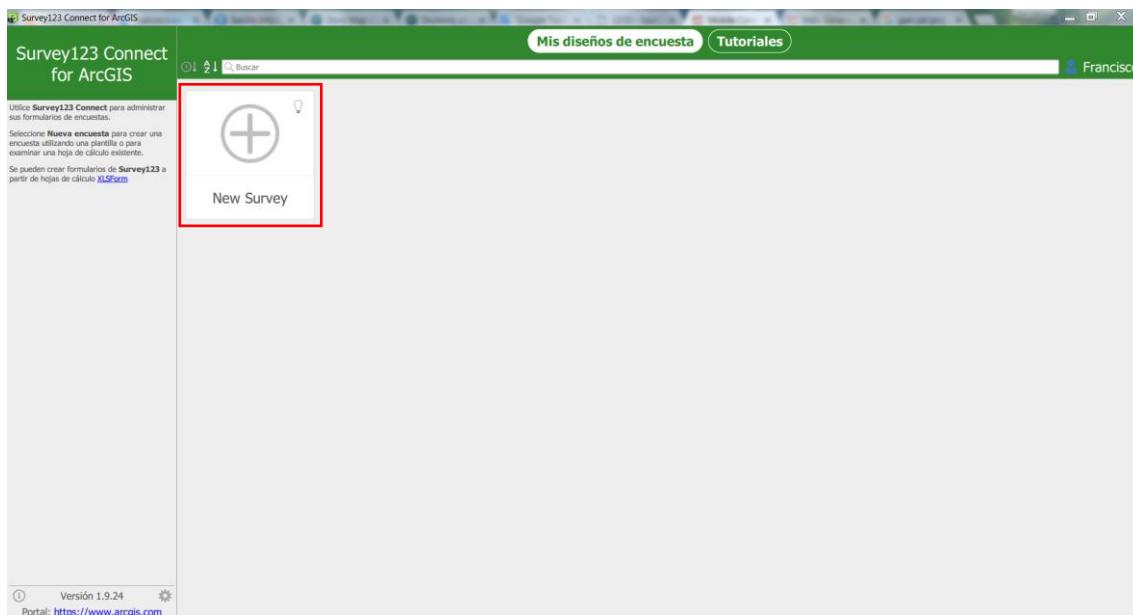
The screenshot shows the ArcGIS Online Content page. In the left sidebar, under 'Folders', the 'Survey-Community and neighborhood planning' folder is highlighted with a blue box. The main area displays a search result for 'Survey-Community and neighborhood planning' with four items listed:

Title	Type	Modified
Community and neighborhood planning	Form	Jan 11, 2018
Community and neighborhood planning_stakeholder	Feature Layer (hosted, view)	Jan 11, 2018
Community and neighborhood planning_fieldworker	Feature Layer (hosted, view)	Jan 11, 2018
Community and neighborhood planning	Feature Layer (hosted)	Jan 11, 2018

2.61. Open the Desktop software "Survey 123 Connect" using your ArcGIS Online Developer credentials.



2.62. Let's create a New Survey for the Scenario 2.



2.63. Let's see what is the "XLSForm" and how it works. Open the files "Template_Question_Types.xlsx" and "GenCat - Mobile Coverage data quality.xlsx" located at your local folder "\Session_2_GeoSA\Survey123forArcGIS".

	A	B	C	D	E	F	G	H	I
	type	name	label	hint	constraint	constraint_message	required	required_message	appear
1	begin group	Enter a supported XLSForm type	Question Types						
2	integer	Please select an XLS Form Type form	Enter an Integer						
3	decimal	the supplied list. Enter a valid list name	Enter a Decimal						
4	text	if using a select_one or select_multiple	Enter Text						
5	select_one	XLS Form Type:	Select One						
6	select_multi		Select Multiple						
7	note	note_1	This is a Note						
8	text	null_1	This is a Null Question	Set the xlnm:esn:maxLength value to 128000 for easier					
9	geopoint	geopoint_1	Select your Location						
10	date	date_1	Select a Date						
11	time	time_1	Select a Time						
12	dateTime	date_time_1	Select a Date and Time						
13	image	image_1	Take a Photo						
14	audio	audio_1	Record some Audio						
15	begin repeat	repeat_1	The following will be repeated for this						
16	barcode	barcode_1	Scan a QR or Barcode						
17	end repeat								
18	calculate	calculate_1	This value will not be displayed on the						
19	end group								
20	username	username_1	This value will not be displayed on the						
21	email	email_1	This Value will not be displayed on the						
22	hidden	hidden_1	This Value will not be displayed on the						
23	start	start_1	This Value will not be displayed on the						
24	end	end_1	This Value will not be displayed on the						
25									
26									
27									

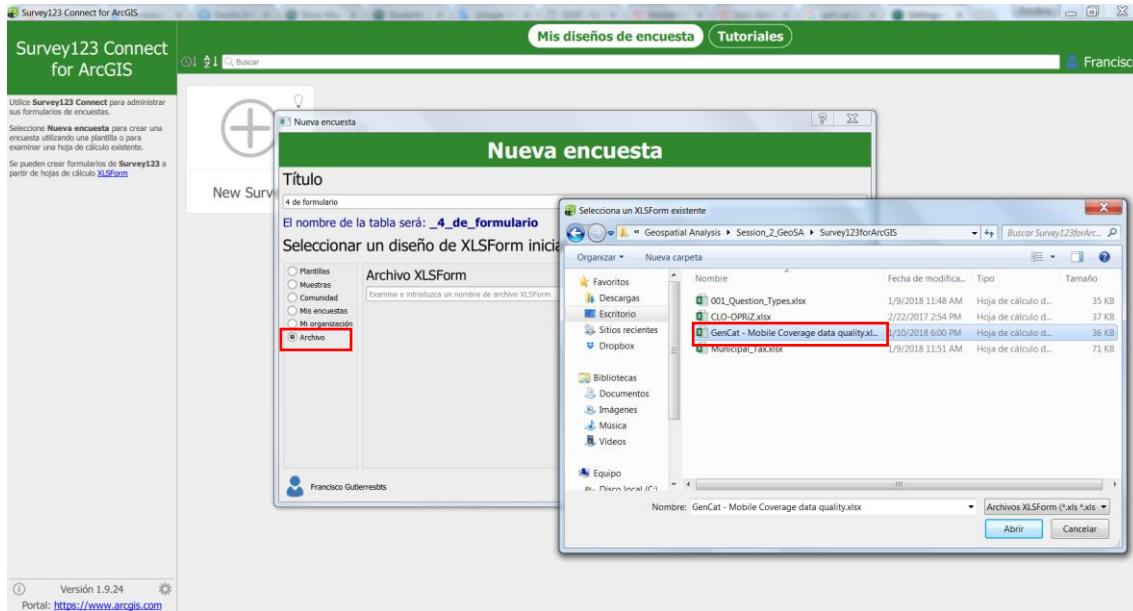
	A	B	C	G	H	I	J	K	L
	type	name	label	required	required_message	appearance	default	readonly	relev
1	note	LinkMobileData	<center> Link of the Mobile Coverage </center>						
2	text	MobileSurveyId	MobileSurveyId						
3	select_one question1	Question1	Did you access/use the Internet from your mobile phone in the . ?			minimal			
4	integer	Question2	What is the distance to an equipment or means of transport?			numbers			
5	integer	Question3	What is the quality of the net signal?			distress			
6	geopoint	Question4	What is your location?						
7	date	Question5	Date & time observed			month-year			
8	select_one question6	Question6	How likely are you to use again this product?			likert			
9									
10									
11									
12	Enter a supported XLSForm type								
13	Please select an XLS Form Type form								
14	the supplied list. Enter a valid list name								
15	if using a select_one or select_multiple								
16	XLS Form Type:								
17									
18									
19									
20									
21									
22									
23									
24									
25									

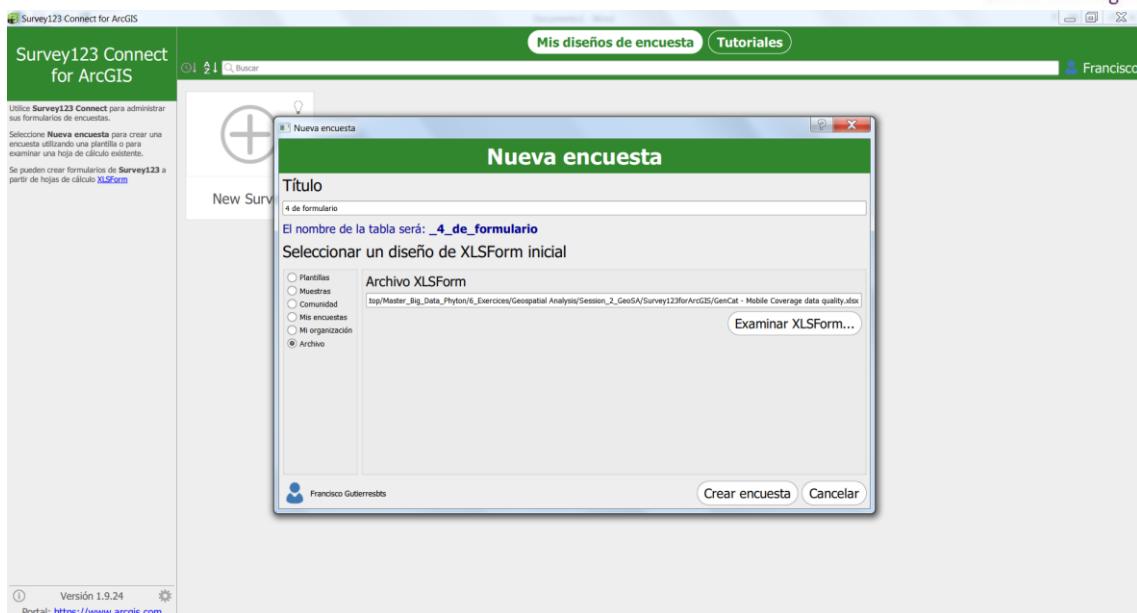
2.64. Explore the XLSForm available at "Community" option. Export one of them.



Note: you can save the file to your local folder and edit this survey and publish again.

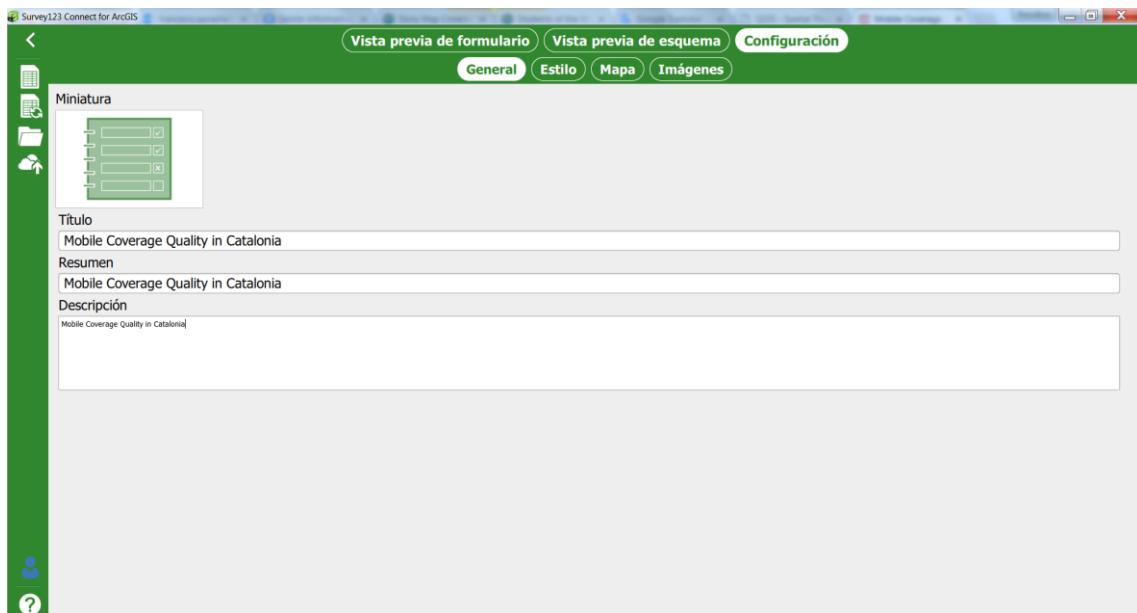
- Now let's start the Survey of scenario 2 called "Mobile Coverage Quality in Catalonia". Open the XLSForm "GenCat - Mobile Coverage data quality.xlsx" from the local folder.



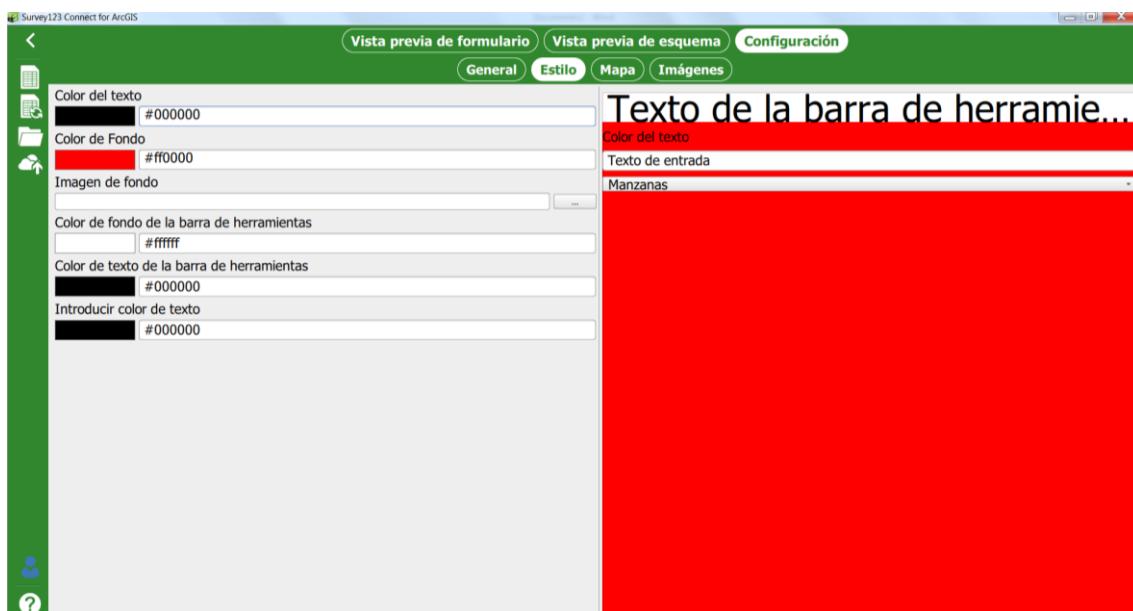
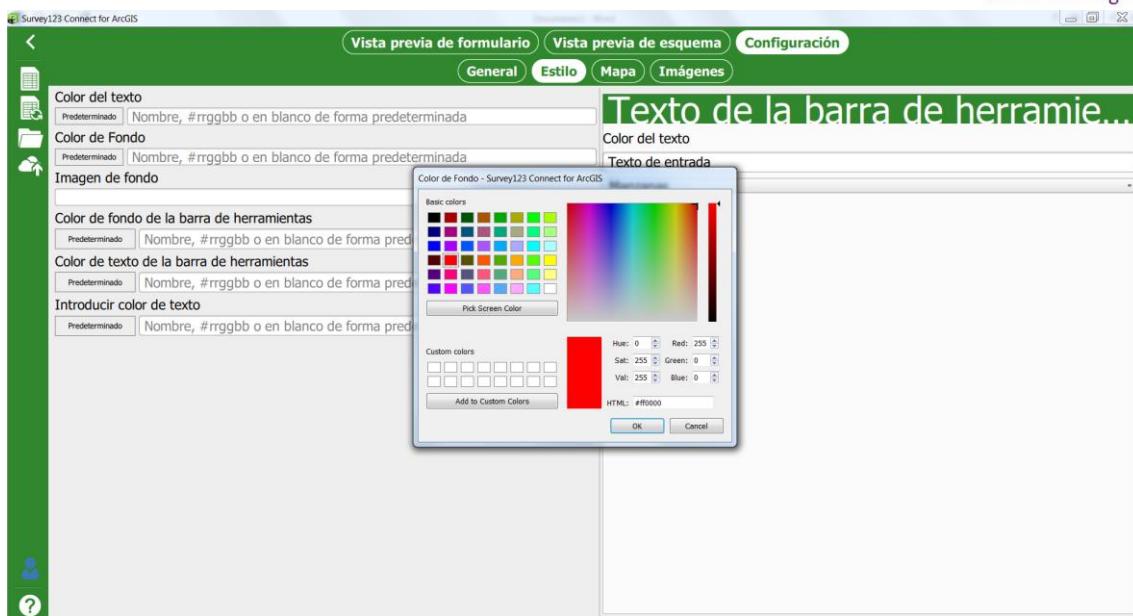


2.66. Add a Title, Summary and Description. Also add the image "GenCat.png".

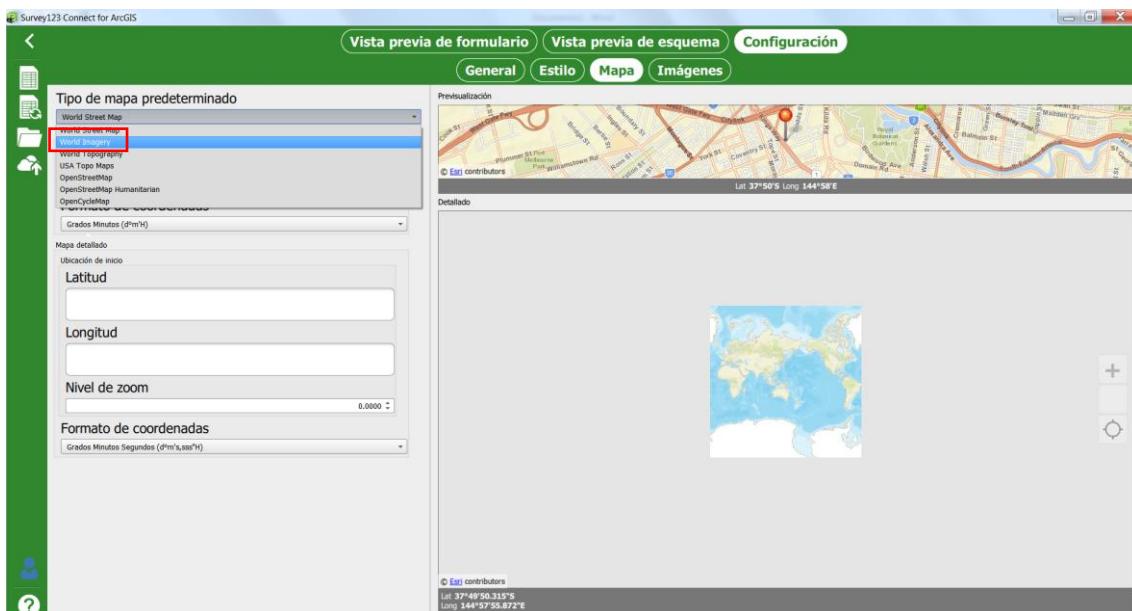
- Title: “Mobile Coverage Quality in Catalonia_username”.
- Summary: “Mobile Coverage Quality in Catalonia”
- Description: “Mobile Coverage Quality in Catalonia”



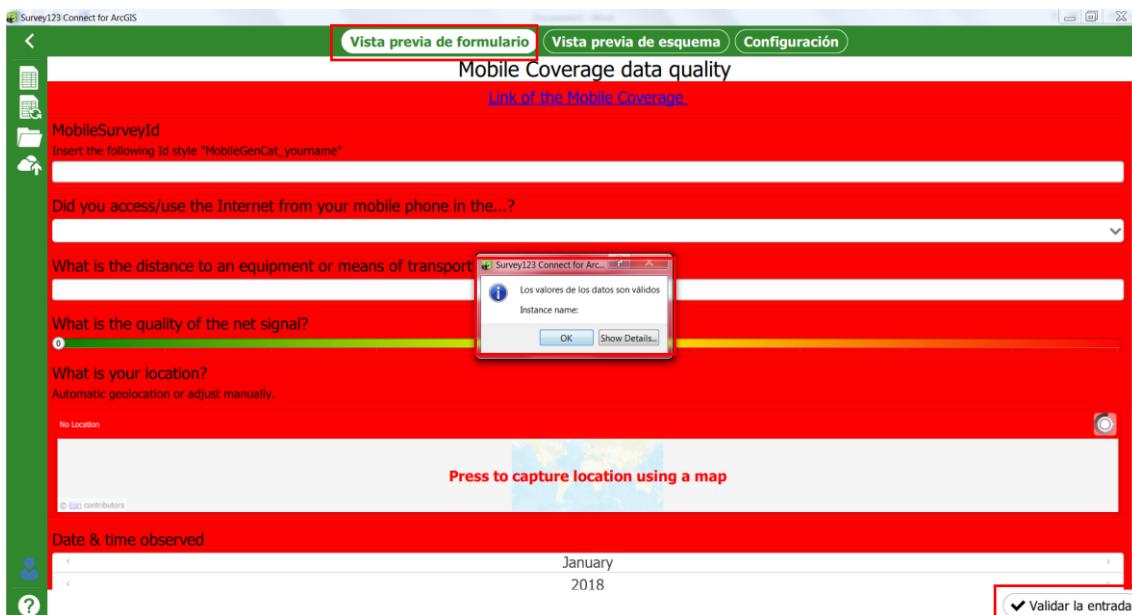
2.67. Go to the “Style” tab and change the color schemes of the survey.



2.68. Go to the “Map” tab and select the base map “World Imagery”.

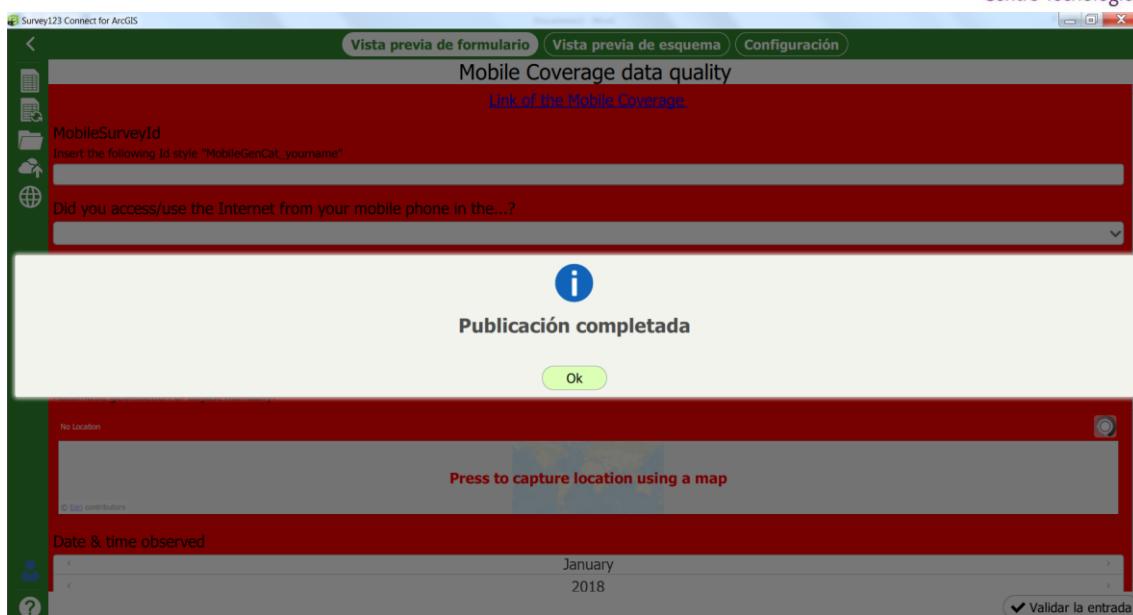


2.69. Go to the “Form Preview” tab and click select “validate entry”.

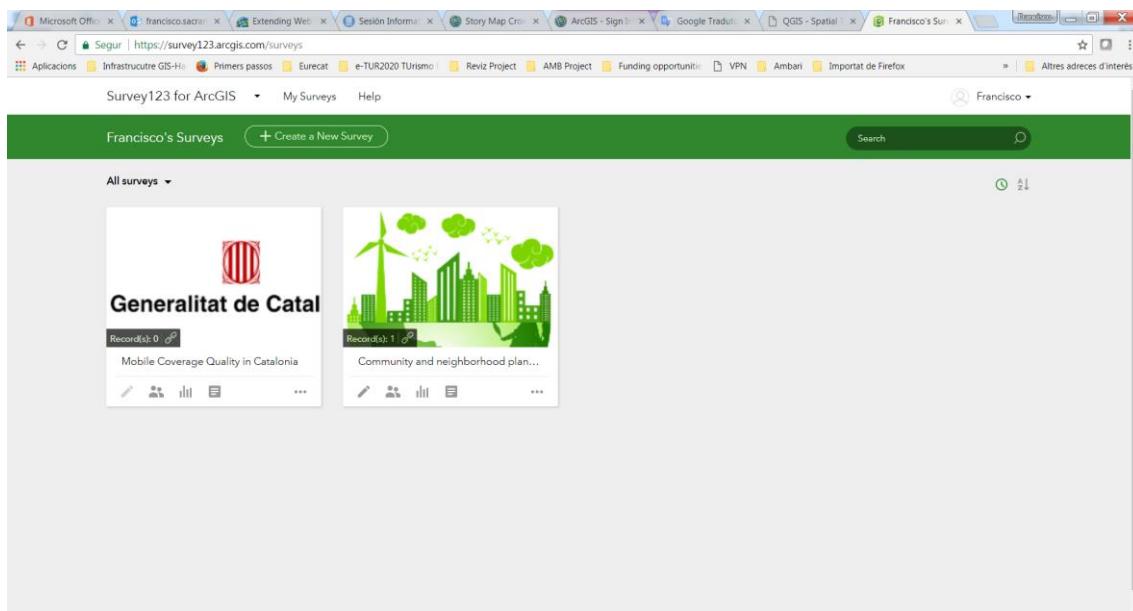


2.70. Publish the Survey.

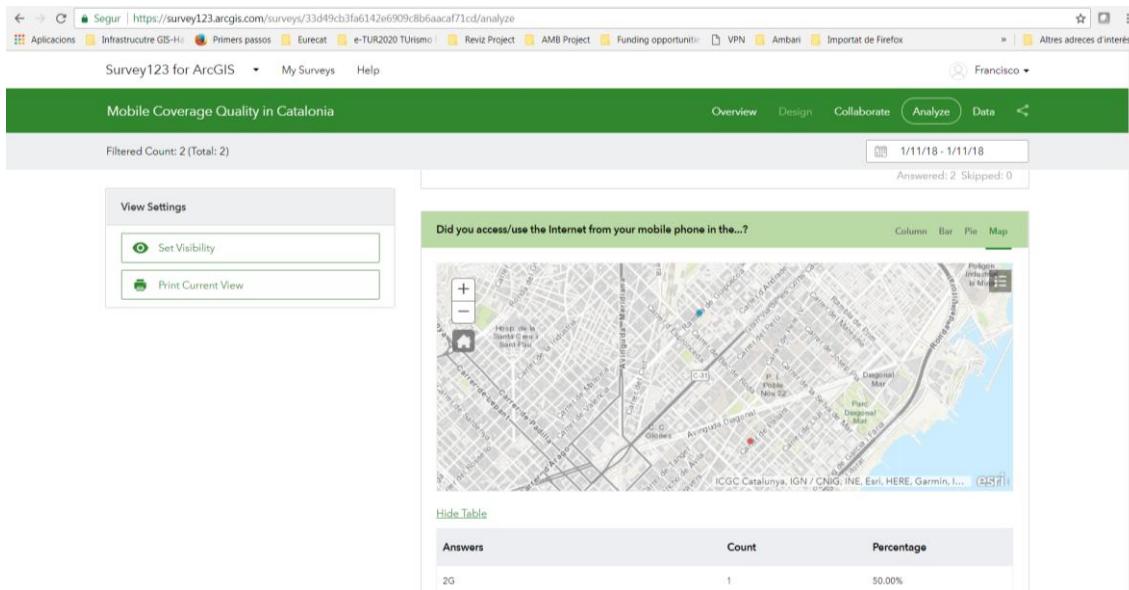
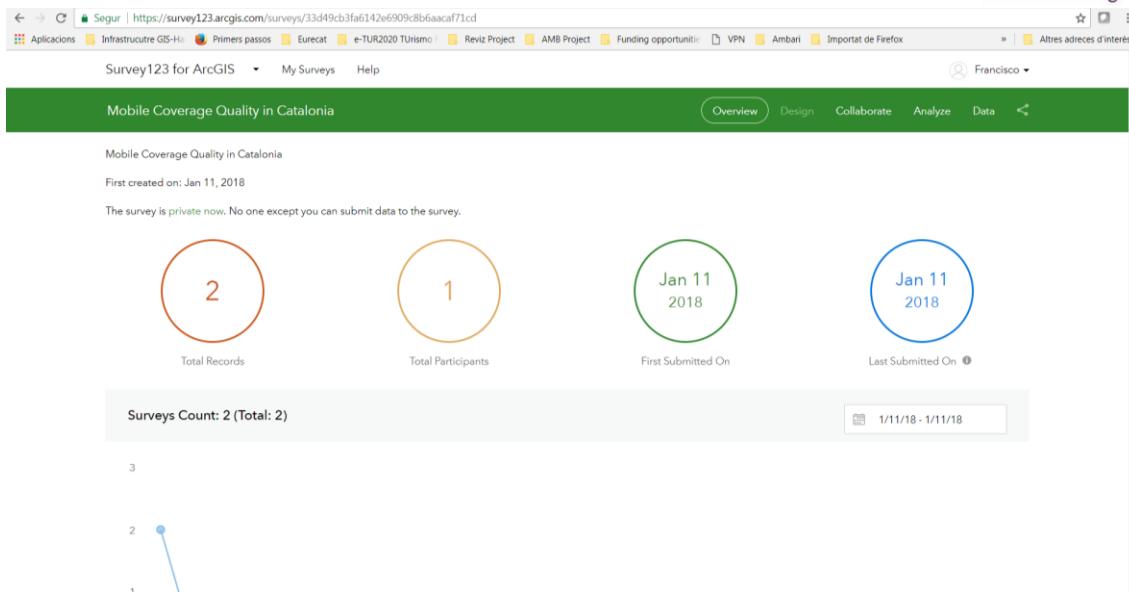




2.71. Go to <https://survey123.arcgis.com> and visualize the new Survey.



2.72. Publish new records using your smartphone through the "Survey 123 for ArcGIS" app. Go again to the website and visualize the results.



2.73. Now let's start the Survey of scenario 3 using the Desktop software "Survey 123 Connect". Repeat steps "2.65" until "2.72".

2.74. Define the Title, Summary and Description:

- Title: "Copernicus Land-cOver crOwdsourcing Platform for Riparian Zones-based mapping".
- Summary: "Development of the Copernicus Land-cOver crOwdsourcing Platform for Riparian Zones-based mapping".
- Description: "Project developed by the BTS startup campus".

2.75. You must use the following files located at located at your local folder "\Session_2_GeoSA\Survey123forArcGIS":

- "CLO-OPRiZ.xlsx" (**You are welcome to add more questions!**).
- "CLO-OPRiZ.png".

Great Job!