

# *WELCOME TO THE 2020 EDUCATION SUMMIT*



## Before we begin...

- Attendees are in listen-only mode
- Please enter questions into the Q&A panel at any time
- If you wish to direct a question to a specific person, please include his/her name with the question (e.g., @Jack)
- Sessions are being recorded. Recordings will be available at [proceedings.esri.com](https://proceedings.esri.com) in a few weeks.

# How may we help you?



To connect with your Account Manager, submit a request through this form and a member of our team will contact you next week.

<https://arcg.is/1GKei81>





# DATA COLLECTION

## Kylie Donia



# DATA COLLECTION PROJECTS

Kylie Donia





# DATA COLLECTION

<https://arcg.is/0SvCjb>



Understanding data takes playing with it. As you create data, you learn to think critically about it and evaluate it.

<https://arcg.is/0SvCjb>





# Demo: A simple data collection project

- What's your favorite color?
- Play along! <https://arcg.is/1bTqHu>
- StoryMap: <https://www.esriurl.com/favcolor>





# How to do data collection with your class

- Use ArcGIS for Schools Bundle (free) or a GIS Club Kit (free, temporary)
- Design your project
- Choose an app (tool) & set it up
- Collect the data
- Use the collected data



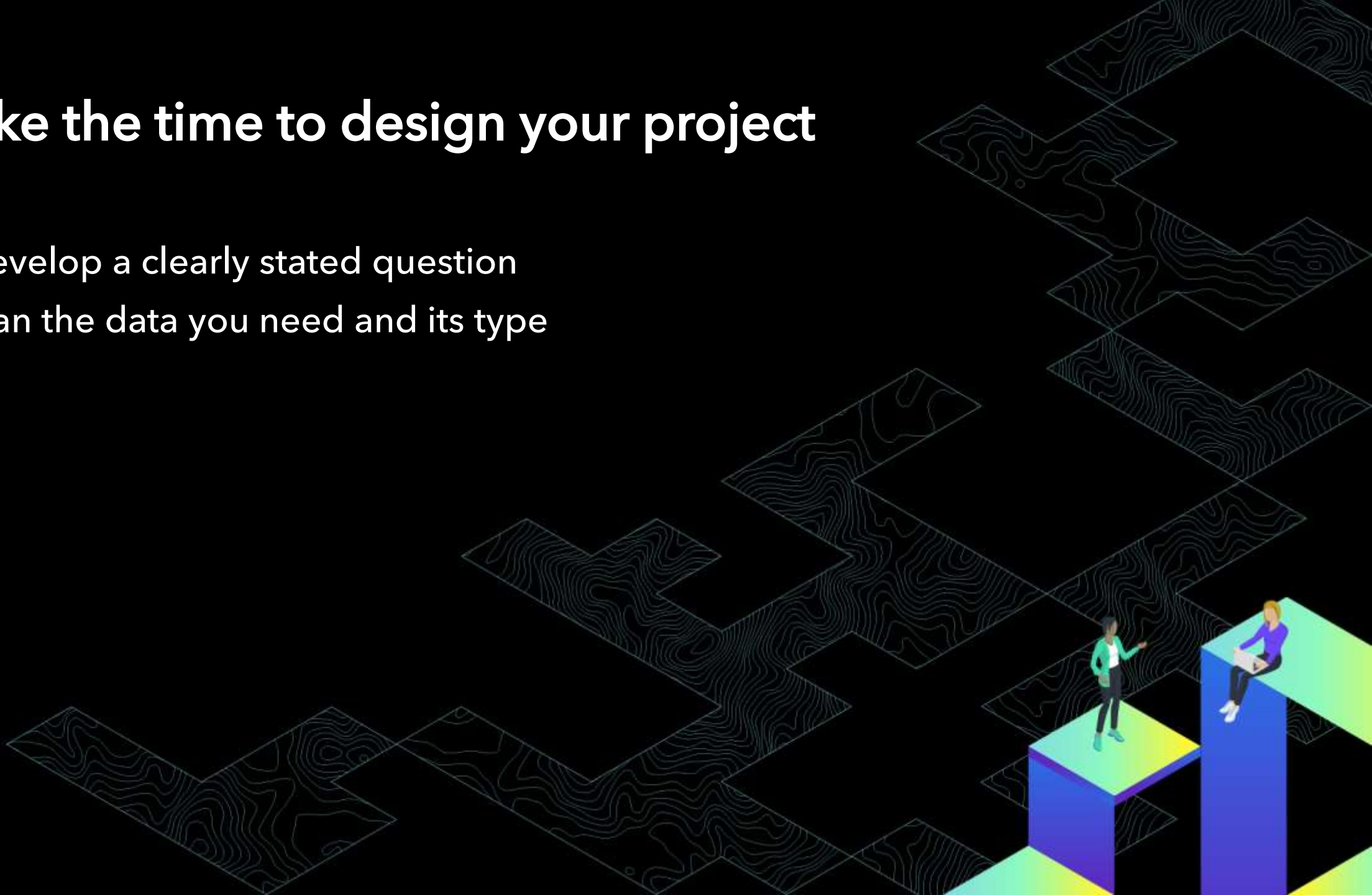
# 10 Tips for successful data collection projects



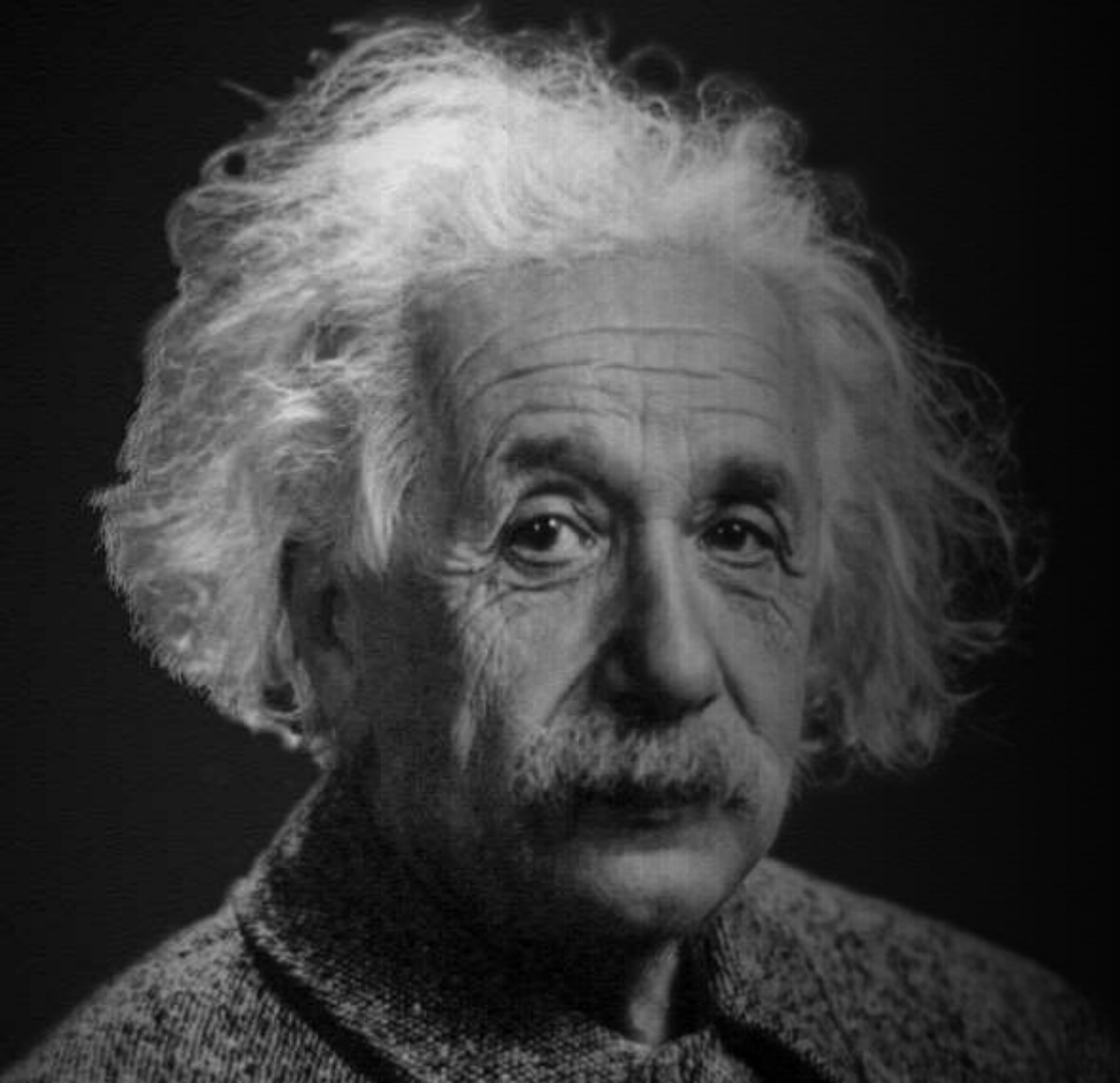


# 1. Take the time to design your project

- A. Develop a clearly stated question
- B. Plan the data you need and its type



## A. Develop a clearly stated question



If I had an hour to solve a problem and my life depended on it, I would use the first 55 minutes determining the proper questions to ask.

- Albert Einstein

*Get and share ideas on the GeoProjects site:  
<https://esriurl.com/geoprojects>*



## B. Plan the data you need and its type

- Make it interesting!
- What is your question or problem to solve?
- What information do you need to answer or resolve your question?
- What do you want to do with the data once you have it?



## 2. Choose your app wisely



### ArcGIS Survey123

- Fill out a form
- Example:  
Interviews



### ArcGIS Collector

- Place info on a map
- Example:  
Map your school



### ArcGIS QuickCapture

- Press a single button
- Example:  
Trash locations



## 2. Choose your app wisely

 No network connection


  



 Sign-in required


 


 App required


 


 Data updates

 Advanced location



 GeoMentor knowledge

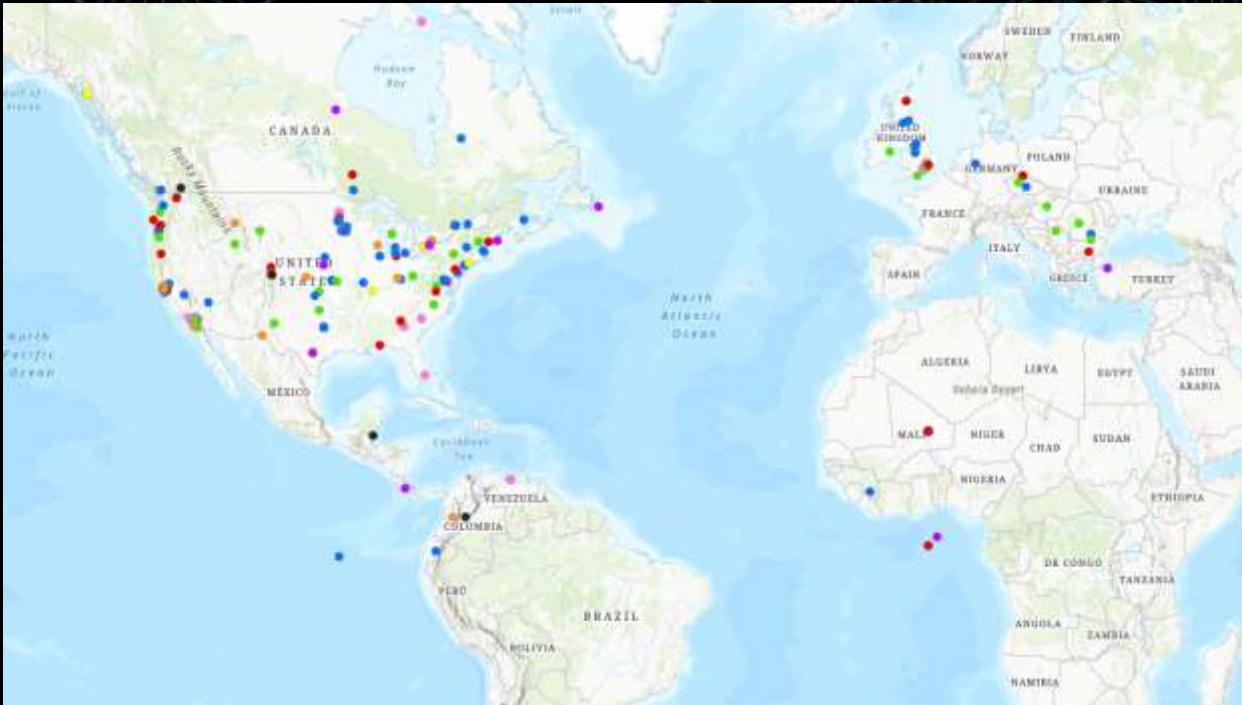


### 3. Incorporate analysis, storytelling, and action

Not only is it important to ask questions and find the answers, as a scientist I feel obligated to communicate with the world what we were learning.

- Stephen Hawking

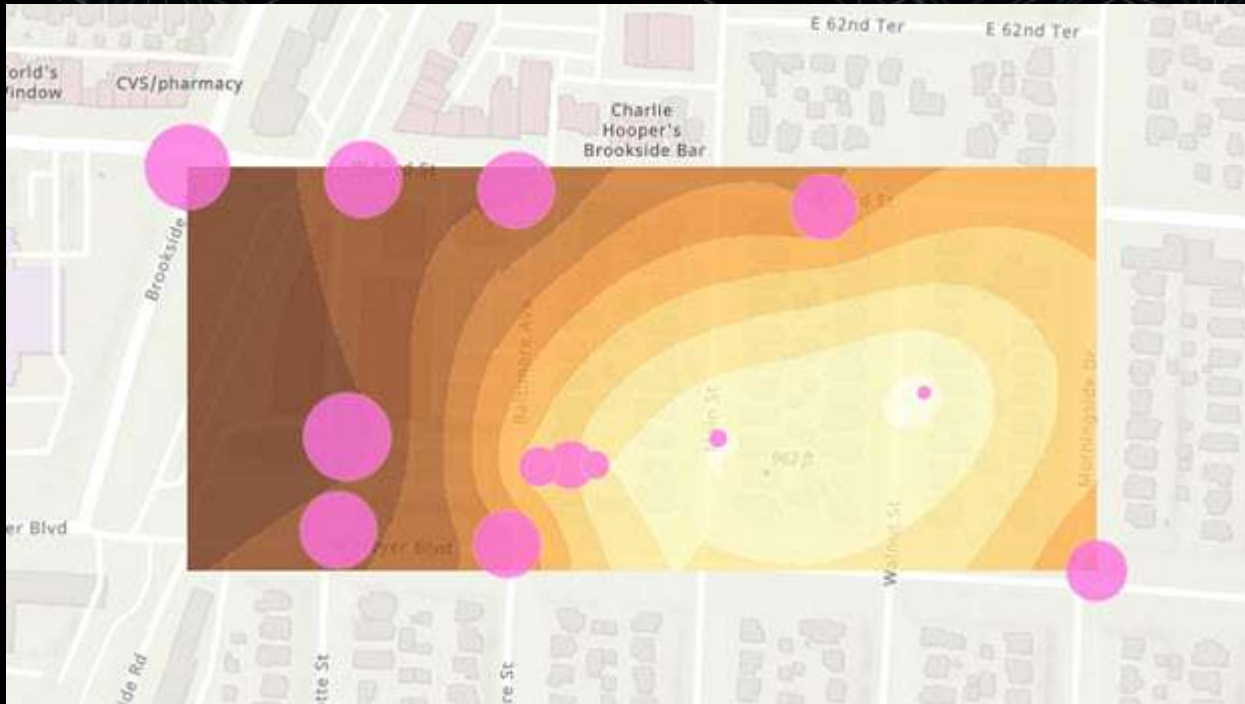




# Visual analysis

What do you see?





# Soundscape

Analysis > Analyze patterns > Interpolate points

### 3. Incorporate analysis, storytelling, and action



*Map Viewer &  
Configurable apps*



*ArcGIS Experience  
Builder*



*ArcGIS  
StoryMaps*



*Scene  
Viewer*



*ArcGIS Web  
AppBuilder*



*ArcGIS  
Dashboards*

# Dashboard demo: Who are you?

- From the plenary survey - <https://arcg.is/nfLqy>
- Play along <https://arcg.is/educ20dashboard>





## 4. Author your survey in the web designer

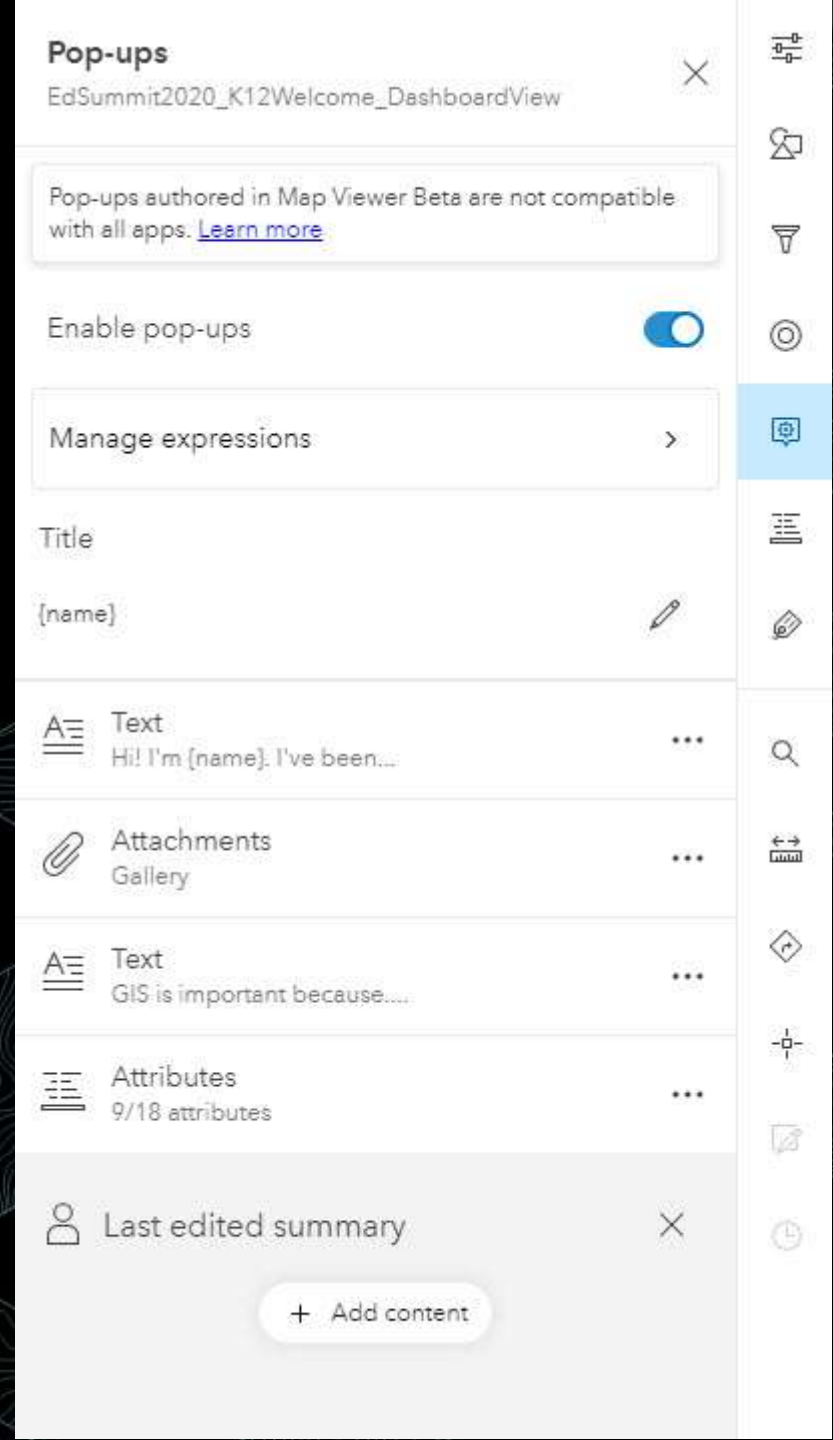
The screenshot displays a survey authoring interface with a top navigation bar and a main content area. The top bar includes four tabs: 'Add' (with a plus icon), 'Edit' (with a pencil icon), 'Appearance' (with a palette icon), and 'Settings' (with a gear icon). The 'Edit' tab is currently selected and highlighted in green. Below the navigation bar, there is a grid of 20 question type options, each in a white box with a green border and a small icon. The options are arranged in two columns. The first column includes: Singleline Text, Single Choice, Multiple Choice, Rating, Number, Time, Image, Map, Email, Signature, and Group. The second column includes: Multiline Text, Single Choice Grid, Dropdown, Likert, Date, Date/Time, File Upload, Ranking, Website, Note, and Page. At the bottom of the interface, there are three buttons: 'Saved' (with a small upward arrow), 'Preview', and 'Publish'.

Navigation	Question Types
Add	Singleline Text
Edit	Multiline Text
Appearance	Single Choice
Settings	Single Choice Grid
	Multiple Choice
	Dropdown
	Rating
	Likert
	Number
	Date
	Time
	Date/Time
	Image
	File Upload
	Map
	Ranking
	Email
	Website
	Signature
	Note
	Group
	Page

Bottom navigation: Saved, Preview, Publish

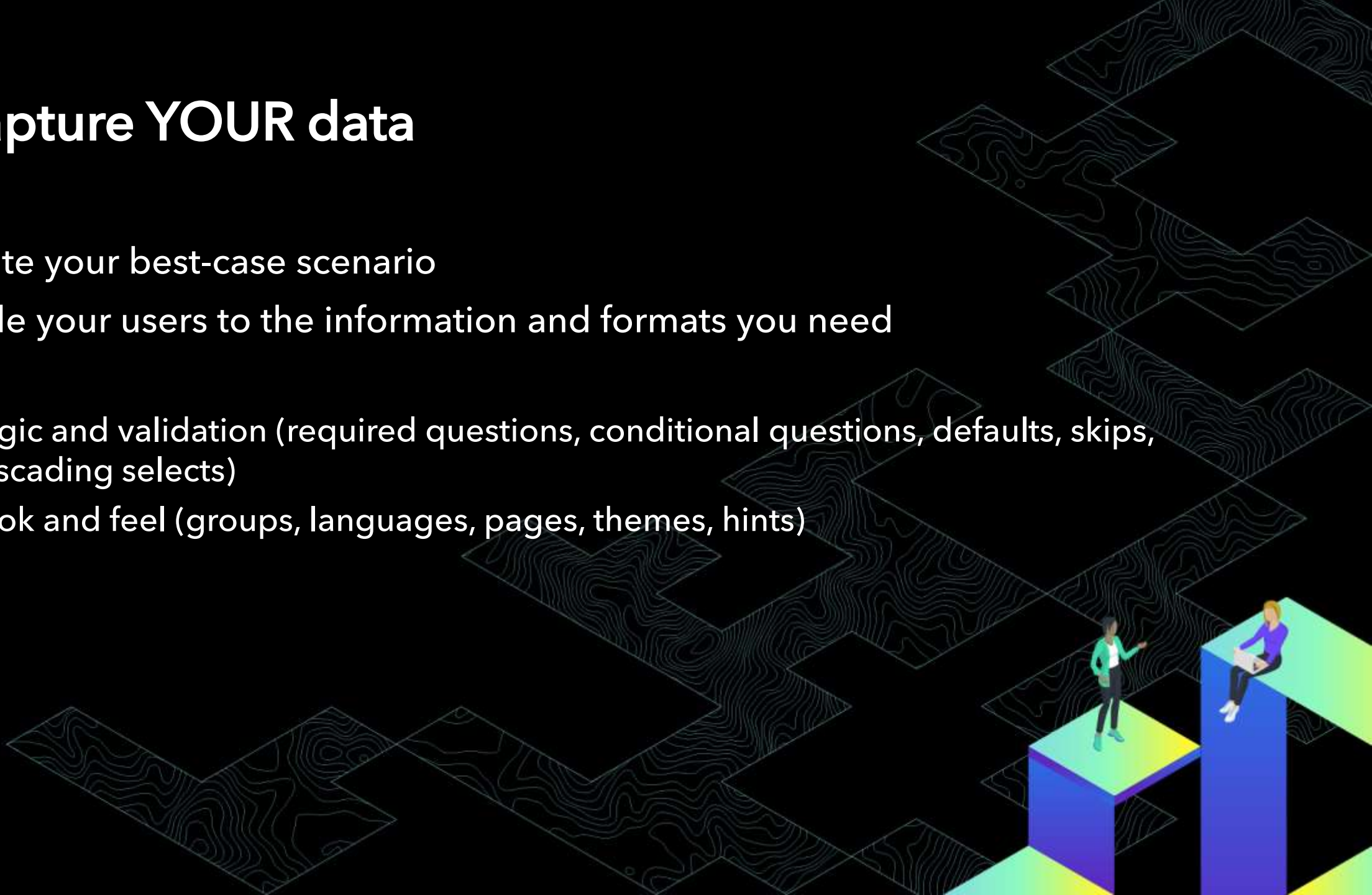
# 5. Customize your popups

- Basic (clean up, narrative)
- Advanced (Arcade)
- New Map Viewer (Beta)!



## 6. Capture YOUR data

- Create your best-case scenario
- Guide your users to the information and formats you need
- Use:
  - Logic and validation (required questions, conditional questions, defaults, skips, cascading selects)
  - Look and feel (groups, languages, pages, themes, hints)





# 7. Use hosted feature layer views

- Same underlying data
- Control who has access to what
- Filter a layer, and the data is still there.  
Make a view, and there is only access to what you include.

<https://doc.arcgis.com/en/arcgis-online/manage-data/create-hosted-views.htm>

## 8. Author your survey in Survey123 Connect

- Connect = More for "YOUR data"
  - advanced logic, validation, and rules
  - cascading selects, repeats
  - formulas
  - additional visual customizations
  - support multiple languages
- Differences between web and connect - <http://esriurl.com/survey123WebVsConnect>
- XLSForm standard - <http://esriurl.com/xlsforms>
- Share survey designs (.xlsx) for others to customize and publish

## 9. Take maps offline with Survey123



Survey123 web



ArcGIS Online



Survey123 Connect

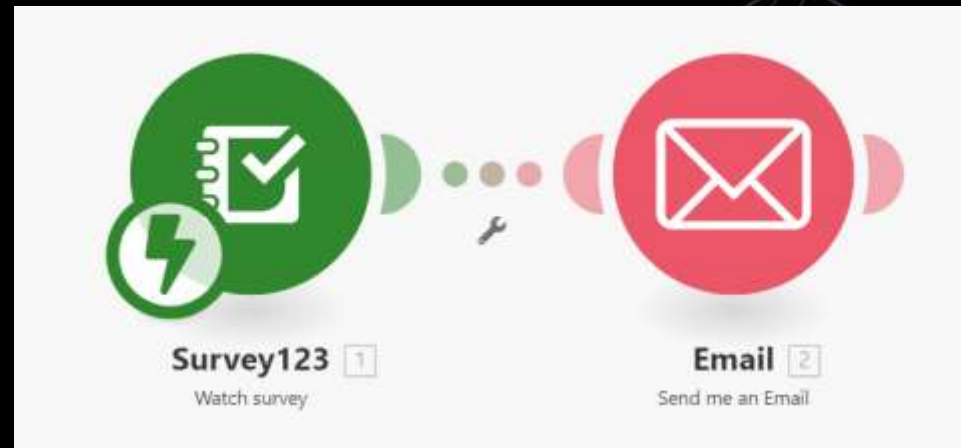


Survey123 field



# 10. Webhooks and Integromat

- “Things” automagically happen on submission
  - Send email
  - Process data
  - Run a script



4 minute video:

<http://esriurl.com/survey123Integromat>

# Congratulations!

## You are ready for the ArcGIS Schools Competition

<https://esriurl.com/agoschoolcomp>



# Quick note on PII

- Can use a nearby intersection for location
- Remind students not to collect using GPS right at or in their homes
- Consider who you allow to view the data
- Consider “blurring” your data through analysis

*Click to Edit Tagline (optional)*



# Learn more

- Get an ArcGIS for Schools Bundle - <https://esriurl.com/schoolsoftware>
- Get a GIS Club Kit - <https://esriurl.com/gisclubkit>
- GeoProjects - <https://esriurl.com/geoprojects>
- Choosing which app to use - <https://esriurl.com/appsinschools>  
(and resources on getting started with each)
- Find a GeoMentor - <http://www.aag.org/geomentors>
- ArcGIS Online Competition for US Students - <https://esriurl.com/agoschoolcomp>

Please share your feedback  
<https://arcg.is/18u5bS>





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