This all seems to be based on a detailed door-to-door assessment. In the early stages after a disaster, more rapid assessments may be as "windshield" surveys or may even be done at a block-by-block level instead of building-by-building. How would Survey123 capture this, and how would those rapid assessments be updated when subsequent more detailed assessments are conducted?

That is correct, in this seminar we are only covering preliminary damage assessments. However, you can use other apps such as ArcGIS QuickCapture to perform windshield damage assessments, or simpler surveys specifically designed for windshield damage assessments with Survey123. You can have all these different Survey123 surveys and even QuickCapture work against a master damage assessment layer. In this way, you can have different teams follow-up and build-upon previous assessments. The best way to have Survey123 update existing data is to enable the Inbox.

Links of interest:

- https://www.esri.com/videos/watch?videoid=aGTPIzTtbSk&title=Survey123-for-arcgis-editing-existing-data-with-Survey123-for-arcgis
- https://www.esri.com/en-us/arcgis/products/arcgis-quickcapture/overview

How does Survey123 handle non-point or linear targets like a pipeline or highway?

Starting with Survey123 3.6, lines and polygon features are supported.

Links of interest:

- https://community.esri.com/groups/Survey123/blog/2019/09/26/Survey123-tricks-of-the-trade-lines-and-polygons

How well can you import & integrate data from other tools or sources? For example, pre-disaster assessor data already has a lot of the information you would need to enter for damaged buildings? Similarly, partner agencies may be collecting similar data using different apps? Thanks

You can load data from different formats into ArcGIS using the Append tool. You can also perform sophisticated ETL (Extract Transform and Load) operations with third party tools such as FME from Safe Software.

Links of interest:

- https://doc.arcgis.com/en/arcgis-online/manage-data/manage-hosted-feature-layers.htm#APPEND
- https://www.safe.com/

Is there help documentation that helps show how to take Survey123 offline in the field?

Yes. You can work completely offline once a survey is downloaded into your device. You do not need to do anything special for that work: simply download the survey in your device, go offline and capture data. Once you are connected again, you can submit data collected while offline.

If you want to have mapping functionality while disconnected, you need to prepare maps for offline use. As of 3.6, Survey123 only support the use of Tile Packages. Tile Packages tend to grow large very quickly. In 3.6 we are including experimental features (Beta) to support offline maps in MMPK and VTPK format. These formats are much more lightweight. Including links below. As of Survey123 version 3.6 only Tile Package. Our plan is to move into VTPK and MMPK files as soon as possible (TPKs will continue to be supported).

Links of interest:

- https://community.esri.com/groups/Survey123/blog/2017/01/31/taking-your-maps-offline-with-tile-package-creator
- https://doc.arcgis.com/en/Survey123/desktop/create-surveys/preparebasemaps.htm

Is the Survey123 map system limited to usage in USA? Or in my case, can it be utilized in Canada? Thank you

Yes. Survey123 is not a US-only offering. Please contact Esri Canada for details

Links of interest:

- https://esri.ca/en

Do the views also function as a separate scalable service for large audience?

Yes. Hosted Layer Views support large field data collection deployments.

Links of interest:

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

Does Survey123 require individual user accounts?

You need a Creator User Type (aka Level 2) in order to design and publish Survey123 projects. The mobile and web apps can be used with and without a named user account. Please note that Survey123 does NOT support the use of free Public accounts.

Links of interest:

- https://community.esri.com/groups/Survey123/blog/2016/11/10/getting-started-with-public-surveys
- https://community.esri.com/thread/172836

If sharing with individual public account holders can the survey (ESRI Organization owned) remain narrowly shared (named users, groups)?

Yes. Sharing a survey publicly does not imply that logged-in users could not submit data. When a logged-in user submits data to a public survey, the name of the submitter is automatically added as an attribute to the feature added. This allows you to differentiate the data submitted anonymously versus the data submitted by users within your organization.

Excellent!

Why not just use Damage Assessment in Collector for ArcGIS? I've never quite understood one vs the other?

You can certainly use different Esri apps to perform Damage Assessments. You can in fact use Collector, Survey123 and QuickCapture. Collector provides a map centric experience where you can easily select existing features from a map and change their geometry and attributes. Collector is used across many different organizations for this purpose. Survey123 provides a form-centric user experience where you can build more sophisticated damage assessment form including data validation logic and leveraging layouts that are not supported by Collector. Finally, with QuickCapture you can support simpler field observation workflows to support windshield damage assessments.

The user experience of the three apps above (Collector, Survey123 and QuickCapture) is dramatically different. Esri has moved away from Collector for this particular Damage Assessment solution because the user experience for data collection with Survey123 is more appropriate than Collector. There are many other field data collection workflows where a Collector map centric experience is more appropriate, but for this particular case Survey123 models much better the business needs of damage assessments.

Since both apps, Collector and Survey123 are both designed to help you capture data, it may sound at first like they are alike, but they are far from similar. We recommend that you experience both applications to learn the differences. They are both great in their own ways.

How does Survey123 work with drone photography? Would you load the photos afterward?

If you want to leverage your drone photography from Survey123, you will need to create a Tile Package file and then make it available to Survey123. You can use tools such as Drone2Map to prepare your data for this use.

Links of interest:

- https://www.esri.com/en-us/arcgis/products/drone2map/overview
- https://community.esri.com/groups/Survey123/blog/2017/01/31/taking-your-maps-offline-with-tile-package-creator
- https://doc.arcgis.com/en/Survey123/desktop/create-surveys/preparebasemaps.htm

Will Survey123 be available to download on premises if you have ArcGIS Enterprise?

Yes. You can use Survey123 against your ArcGIS Enterprise instance today. The only piece that you cannot host locally is the Survey123 website and REST API. The Survey123 website and API setup for ArcGIS Enterprise users is available for download through our Survey123 Early Adopter Program.

Links of interest:

- https://earlyadopter.esri.com/key/tnrtrffwjbt9nvqc

How will the new QuickCapture app affect workflows for damage assessments?

The new ArcGIS QuickCapture application will complement Survey123 and Collector for ArcGIS providing a simpler user experience for capturing simple observations in the field. From a damage assessment perspective, we have seen interest from Search and Rescue teams as well as to support Windshield Damage Assessments.

Data captured from QuickCapture can be easily brought into more complex mobile apps like Survey123 and Collector to perform follow ups and further assessments.

Can Survey123 only do individual structures or can you do large scale damage assessments, meaning declare an area as destroyed versus each individual structure within an area as destroyed?

You can use Survey123 to document damage on individual structures or larger scale incidents. For example, you can use Survey123 to perform a SCAT survey along a shoreline or a fire damage assessment for an area. This really boils down to your own design of the form.

Links of interest:

- https://community.esri.com/groups/Survey123/blog/2019/09/26/Survey123-tricks-of-the-trade-lines-and-polygons

When entering data, can the estimated property value be connected to the property appraiser's information so that depending on the level of damage an estimated value is populated in the field?

Survey123 can be extended with custom JavaScript functions. This allows you to bring data from external systems into your forms to aid with the completion of the survey. However, we would need to discuss in detail how you want to use that information within the form and how the property information is exposed to provide a more accurate response.

Since FEMA has published their own damage assessment survey form in Survey123, will Esri integrate elements of their form in future releases of their own Damage Assessment solution?

The Quick Damage Assessment and FEMA Preliminary Damage Assessment Survey123 forms are different. Having said this, FEMA PDA templates can be conveniently accessed from Survey123 Connect. They are completely integrated already in the product.

Is there a way for the watermarks to not compress the image to a poorer quality? Or is this a setting within the Survey123 Connect (ESRI parameters?)

Yes. You can control this through a setting in Survey123 Connect. Details provided in the link below. When working with photo watermarks I would not recommend anything below 1920px.

Links of interest:

- https://community.esri.com/groups/Survey123/blog/2019/08/08/Survey123-tricks-of-the-trade-photo-watermarks

Is this survey available as a template or was it a template and then modified? The calculation part of geocodes and Parcel was very fast and smooth. How many parcels is the demo using?

Today we demonstrated a modified version of the Damage Assessment survey. The reverse geocode bits are well documented, so you can insert them into your own forms (see link below). The point in polygon query used to automatically get the parcel id leverages a custom JavaScript function. Since the query is made against a feature service using the standard ARGIS REST API, you can handle millions of records with no problem. Please contact the Esri team for further information on how to setup point in polygon queries.

Links of interest:

- https://community.esri.com/groups/Survey123/blog/2018/07/06/understanding-reverse-geocoding-in-Survey123-30

How come the owner information is not taken from assessing database automatically; if different owner or renter then can fill it.

It could certainly be done, but we simply did not have access to such a database to show it.

Is there a way to program the Survey123 form to not force the user to have to type in the address twice: one for the address (in a text field) and one for the location?

Yes. This is exactly what we demonstrated in the seminar. Please have a closer look to the recording. If we did not get your question across correctly, connect with us for clarification.

I'm assuming that the reverse geocode that was demonstrated used the default AGOL one? If so, is that something that consumes credits?

Yes. For convenience, we used the Esri World Geocoder which consumes 40 credits per 1000 geocodes. You can however configure reverse geocode against your own locator service.

Links of interest:

- https://community.esri.com/groups/Survey123/blog/2018/07/06/understanding-reverse-geocoding-in-Survey123-30

Can you create summary reports instead of one report for each feature?

There are some limited summary report capabilities included in the Survey123 website within the Analyze tab.

Links of interest:

- https://esri.jiveon.com/groups/Survey123/blog/2016/09/14/understanding-your-results-with-the-analyze-tab
- https://community.esri.com/groups/Survey123/blog/2019/07/23/understanding-Survey123-feature-reports

For the example of Integromat, is that another service that is a paid service?

Yes. Both Integromat and Microsoft Flow are for-fee services

Links of interest:

- https://www.integromat.com/en/pricing
- https://flow.microsoft.com/en-us/pricing/

To confirm, a non-public survey requires an AGOL account (or portal account) that is a field worker user type?

Not exactly. To submit a survey from a private Survey123 web form (from a web browser), all you need is an Editor User Type. If you plan to use the Survey123 mobile app against a private survey, then you need either a Field Worker (or above) or an Editor User Type with a Survey123 add-on license.

How would a reverse geocode work in a disconnected environment?

It does not. Reverse geocode as shown in the demonstration only works while you have access to the locator service. However, using web hooks, you can also automate reverse geocode for any record submitted from Survey123. While the end user of the app will not see the results of the reverse geocode (if offline), the actual address will be shown in the database once submitted.

Can the Survey123 be implemented into other GIS-solutions, besides ArcGIS?

You can import and export data across different GIS solutions, but Survey123 is specifically designed to work against ArcGIS.

Is Survey123 available as an app for Is Survey123 available for mobile devices (e.g. cellphones or tablets.)?

Yes, it is supported for iOS, Android, Windows, Mac and Linux.

Links of interest:

- https://doc.arcgis.com/en/Survey123/reference/systemrequirements.htm

What was the name of the app that you said is for quick, at speed assessments?

ArcGIS QuickCapture.

Links of interest:

- https://www.esri.com/en-us/arcgis/products/arcgis-quickcapture/overview