

## Talking points

- Survey123 & AppStudio
  - Relationship
  - How to get started
  - AppStudio Desktop
  - Standard level Licensing
- Customization
  - Branding
    - Colors, Icons, Images, Splash screens, app-icon
  - Code
    - Authentication
    - New controls
    - Add new components

- Building
  - AppMake cloud based infrastructure
  - Mobile/Desktop
  - Signing Certificates
- Deployment
  - App Player
  - Enterprise
  - App Stores

#### **Customization - Scenarios**

- Replacing simple mapping with ArcGIS Runtime
  - Webmaps, Feature layers, symbology etc...
- Replacing simple mapping with online Webmaps
  - using webviews (custom controls)
- Survey controls add/modifiy
  - Loosely coupled, complex checks or make new requests

#### Continued

- Authentication workflows
  - Oauth2 (out of the box)
  - Classic (services)
  - Custom
    - Use Webview
    - Use NetworkRequest object to make
      - REST calls
      - HTTP headers
- Data flow and submission
  - Submit data to custom web services or multiple sources
  - Track time and location
  - Make sure app is on location or location is accurate

#### Continued

- Editing existing data
  - Available through the 2.0 beta program
    - Edit features in sent box
    - Download, view, filter and edit previously collected features
    - Amend, inspect and review workflows
  - Roll your own
    - Identity based or role based editing on form fields
    - Pre-populate from other business systems
    - Can't wait. Need it now!

#### Continued

- I just want to embed XForms in my own App
  - "Own" app has to be an AppStudio App
  - Its do-able but not as simple as copy+paste yet
  - Example: Survey123 Connect App

## Is Customizing your best option?

- I want really sophisticated validation
  - Understand XLS forms really well (esp. Expressions)
  - Ask your questions on Geonet
- Similar features/functionality
  - Follow us on twitter, be current on blog posts
  - Ask about your requirements on Geonet
  - Join the Early adopter community
- I want to change the way the app works
  - OK if you want to change UI/UX and basic functionality
  - NO if you want to change how XForms validates and works with data



AppStudio for ArcGIS

Build one App, deploy across multiple platforms and form factors

# Typical AppStudio Stack





Your App

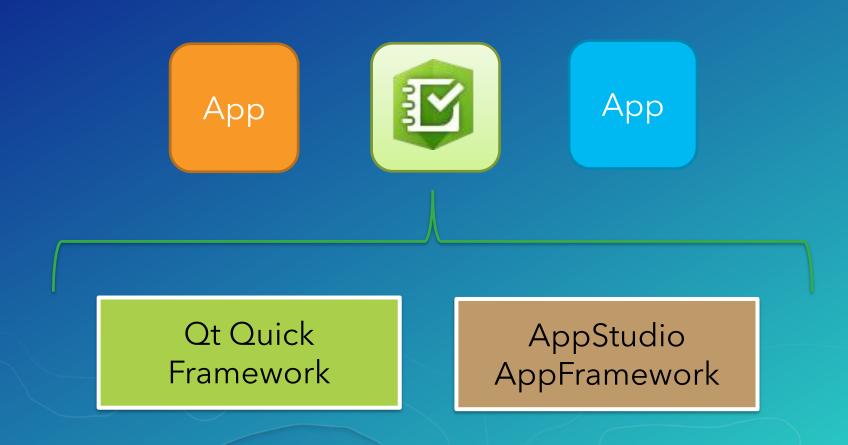
Your App Your App



Qt Quick Framework ArcGIS Runtime API AppStudio AppFramework

ArcGIS Maps, Feature Services, Packages ...

# AppStudio Stack - Survey123 App



#### Internals

- XForms
- ArcGIS Portal library
- GeoServices plugin
  - (Not ArcGIS Runtime)
  - Basic mapping
  - Online Tile URLs
  - Offline ArcGIS TPK
- AppFramework
- CloudMake
- Player
- Others...

- No ArcGIS Runtime
  - No Runtime licensing
  - App Size considerations
- Same codebase
  - Survey123 App
  - Survey123 Connect preview

## AppFramework - Key cross-platform functionalities

- Network
- File + folder I/0
- ArcGIS TPK Support
- ArcGIS Portal library
- GeoServices Plugin
- Enhanced location services
- Barcode
- Access to camera and albums on devices
- Image resizing
- Audio Recording
- Other plugins\*\*

## AppStudio Stack - Your custom Survey123 App



Custom Branding

Custom Code QML + JS + Assets

> ArcGIS Runtime API

Qt Quick Framework AppStudio AppFramework

#### How to get started

- Download AppStudio Desktop Edition (Mac, Windows or Linux)
- Login to your ArcGIS online organization and provision AppStudio Standard license to your account
- Login to AppStudio Desktop with the same account
- New App -> Enterprise -> Survey123
- Create a new app out of the Survey123 template
- Register your app (using a client ID)
- From this point onwards its just like any other AppStudio app
  - Player, Cloud Make, Customization, Branding etc....

# **AppStudio Licensing: Basic and Standard**

	basic	standard
Build apps with no coding, using configurable app templates	$\checkmark$	✓
Build apps that run on Android, iOS, Windows, OS X and Linux	$\checkmark$	✓
Convert your ArcGIS web maps into mobile apps	$\checkmark$	✓
Build apps you can publish to the Apple and Google Play app stores	$\checkmark$	✓
Extend apps built using the configurable app templates		✓
Create custom apps using your developer skills		✓
Distribute apps within your enterprise		✓
Access to Enterprise templates		✓

#### Codebase - Entry points

- Template
  - App UI/UX, Pages (StackView)
  - SurveyApp.qml
- Portal
  - Authentication, Portal rest calls
  - Portal.qml
- XForms
  - XForms parsing and handling
  - Data validation and data submission
  - Form controls
  - XForm.qml

## Release cycles & Maintenance

- Once every 4-6 weeks for App and Connect with appropriate website refreshes
- Survey123 Template available in AppStudio Desktop will be refreshed (but at a lower rate than Survey123).
  - Release notes will be available in the help website (under What's New) to track issues and new features
  - Codebase not available on github and/or as git repo
  - \*\* Merging changes is your responsibility \*\*

#### Resources

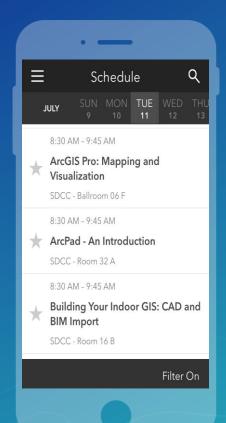
- Samples from AppStudio Desktop
- Samples from ArcGIS Runtime for QML
- Samples from Github
- Wiki on Github
- Survey123 documentation
- Early adopters community (for Survey123 beta)

## Please Take Our Survey on the Esri Events App!

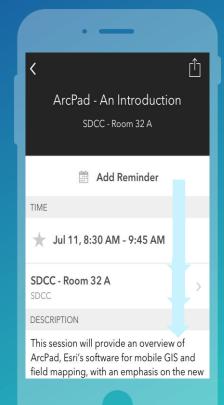
#### Download the Esri Events app and find your event



# Select the session you attended



# Scroll down to find the survey



# Complete Answers and Select "Submit"



