CREATING APPS FOR LOCAL GOVERNMENT

BUILDING THOUGHTFUL SOLUTIONS THAT SOLVE PROBLEMS

RANCHO CUCAMONGA’S STORY

Presented by Isaiah Aguilera | @iaguilera14 & Ryan Wilson | @ryanlwilson_
BUILDING THOUGHTFUL SOLUTIONS
THAT SOLVE PROBLEMS
DEVELOPMENT STAGES

• ArcGIS View for Flex
• Custom Apps With ArcGIS API for Flex
• Flex Went Away
• ESRI’s ArcGIS API for JavaScript
SOLUTIONS OVERVIEW
EXECUTIVE DASHBOARD

MOBILE/TABLET APP (IOS/ANDROID)
MY COMMUNITY
RESPONSIVE WEB APPLICATION
TRAFFIC ANALYSIS

WEB APP
EXECUTIVE DASHBOARD

MOBILE/TABLET APP (IOS/ANDROID)
INITIAL PROBLEM

Executive staff need an operational view of what is going on in the city.
SOLUTION GOALS

• Mobile & Tablet Compatible
• Cross Platform (IOS/Android)
• Easy to Use/Learn
• Integration with ArcGIS.com Authentication
SOLUTION PATH

• ESRI’S ArcGIS API for JavaScript
• Written in 100% JavaScript
• Wrapped in a WebView using Apache Cordova
• Solution is an installable application
DEMO
RCFD NEW OPERATIONAL DAY SCRIPT

• Accesses RCFD fire incident service on AGOL

• Runs everyday at 8AM when the new operational day begins

• Adds a 1 to the day field for the dashboard app history feature
ALL SCRIPTS FEATURE:

- Setup ini files for quick changes to the variables without going into the code itself.
- Script logs which logs start and ending of every step for ease of debugging an automated system.
- Logs are stored for 30 days then deleted automatically.
- Checks for existing temporary tables and removes them if necessary so the script can reset from crashes.
- When Script crashes it emails crash details (using try functionality).
ArcREST PYTHON PACKAGE

A set of python tools to assist working with ArcGIS REST API for ArcGIS Server (AGS), ArcGIS Online (AGOL), and ArcGIS Web Map JSON.

• Add, Delete, Update and Query Feature Services
• Upload attachments to feature services
• Publish an MXD to AGOL as a feature service
• Get AGOL, AGS item information

• Available on GitHub:
  • https://github.com/Esri/ArcREST
MY COMMUNITY
RESPONSIVE WEB APPLICATION
INITIAL PROBLEM

City residents need an easy way to get basic information about their property.
SOLUTION GOALS

• Use GIS

• Accessible via the web

• Fully Responsive and Mobile Friendly

• Easy To Use
SOLUTION PATH

• ESRI’S ArcGIS API for JavaScript

• Written in 100% JavaScript

• Utilizes Bootstrap 3 for Responsiveness

• Compatible Across All Browsers
DEMO
San Bernardino County Sheriff’s Traffic Division in Rancho Cucamonga wants to be able to track and analyze their written citations against historical traffic collision data.
MORE PROBLEMS...

• No integration with current ticket writing system
• No spatial traffic collision data
• Need process for handling citizen requests
• Users have no experience with GIS products
SOLUTION GOALS

• Build ticket entry/viewing system
• Must work with various mobile/tablet browsers
• Fully responsive to any screen size
• Must be very vast and easy to use
• Integration with ArcGIS.com authentication
SOLUTION PATH

• ESRI’S ArcGIS API for JavaScript

• Written in 100% JavaScript

• Leverages Angular JS for Ticket Entry

• Compatible across all browsers
DEMO
TRAFFIC ANALYSIS
WEB APP
GOALS

• Full editing capabilities
• Must have analysis functionality
• Fully responsive to any screen size
• Must be very vast and easy to use
DEMO
OUR GOAL

CHANGE LIVES THROUGH CREATIVE SOLUTIONS THAT HELP SOLVE PROBLEMS
THANK YOU

QUESTIONS?