

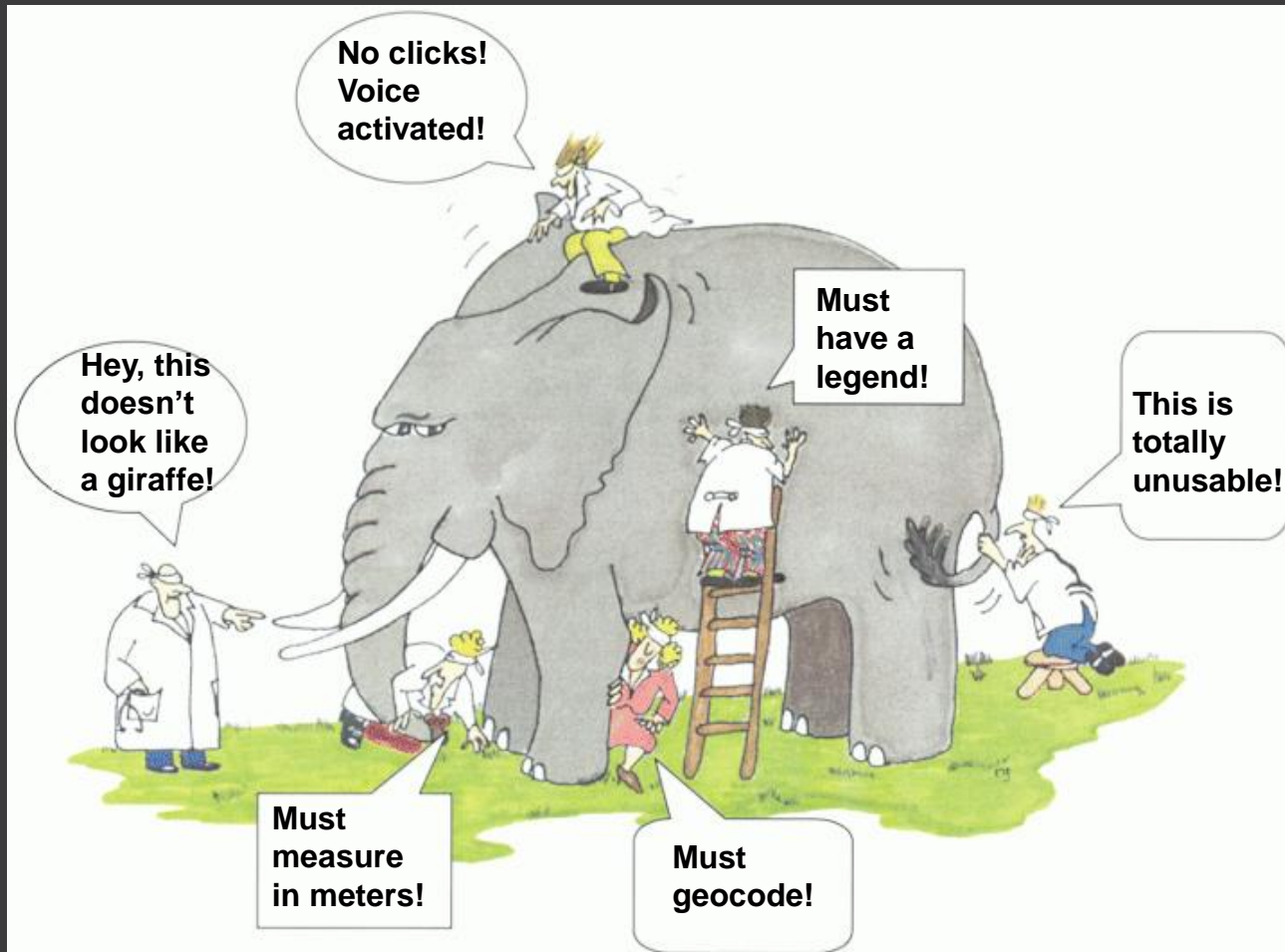
# TACOMA WIDGET FACTORY

## WHAT'S HAPPENING NOW?



Mike Murnane | City of Tacoma | WAURISA May 24, 2016

# WARNING 1: Scope Creep



# WARNING 2: Accident Free Days



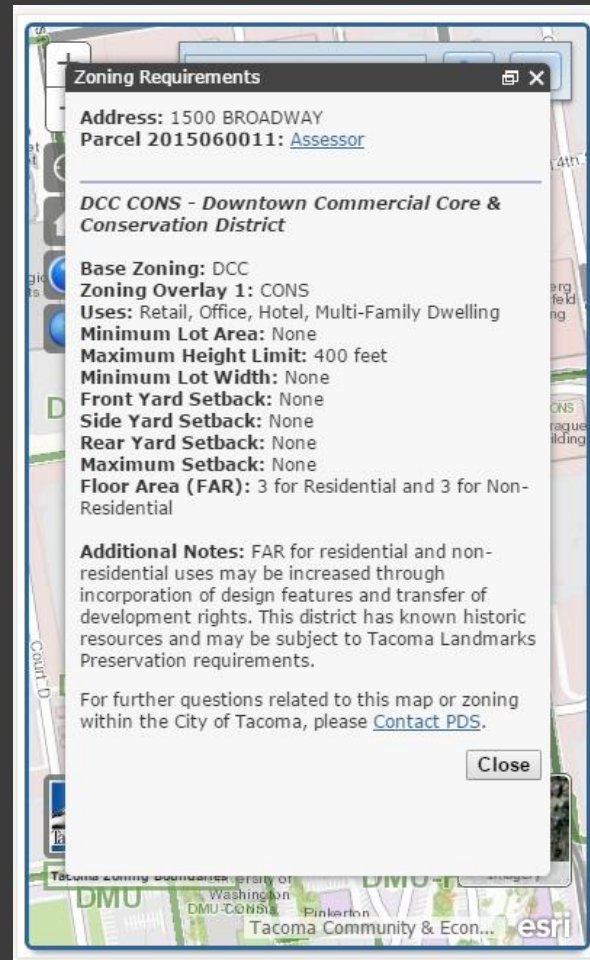


# App Development Challenges

Mobile & Desktop | Task Focused-Intuitive | Features Infinite

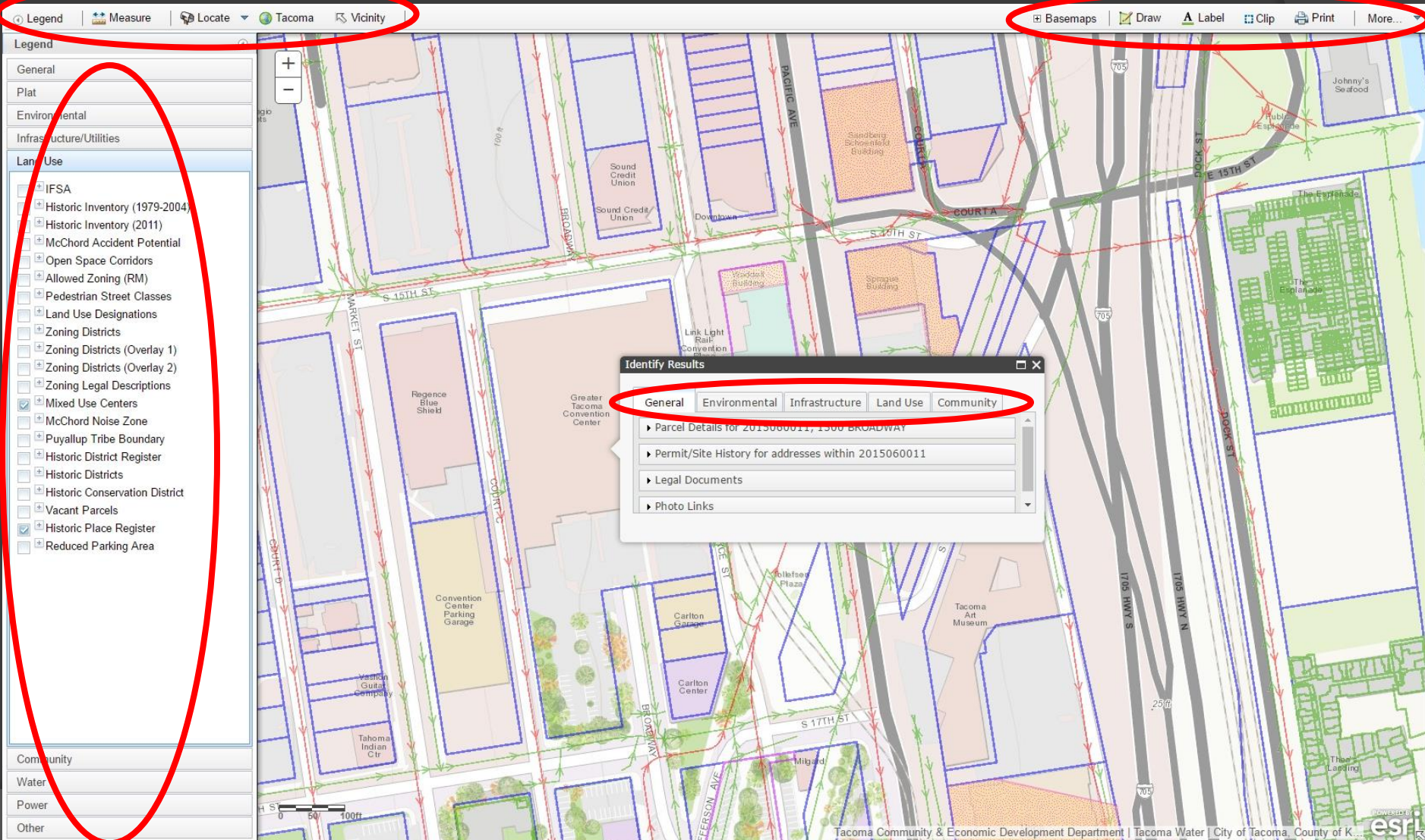


# One Focused Task – Zoning Regs





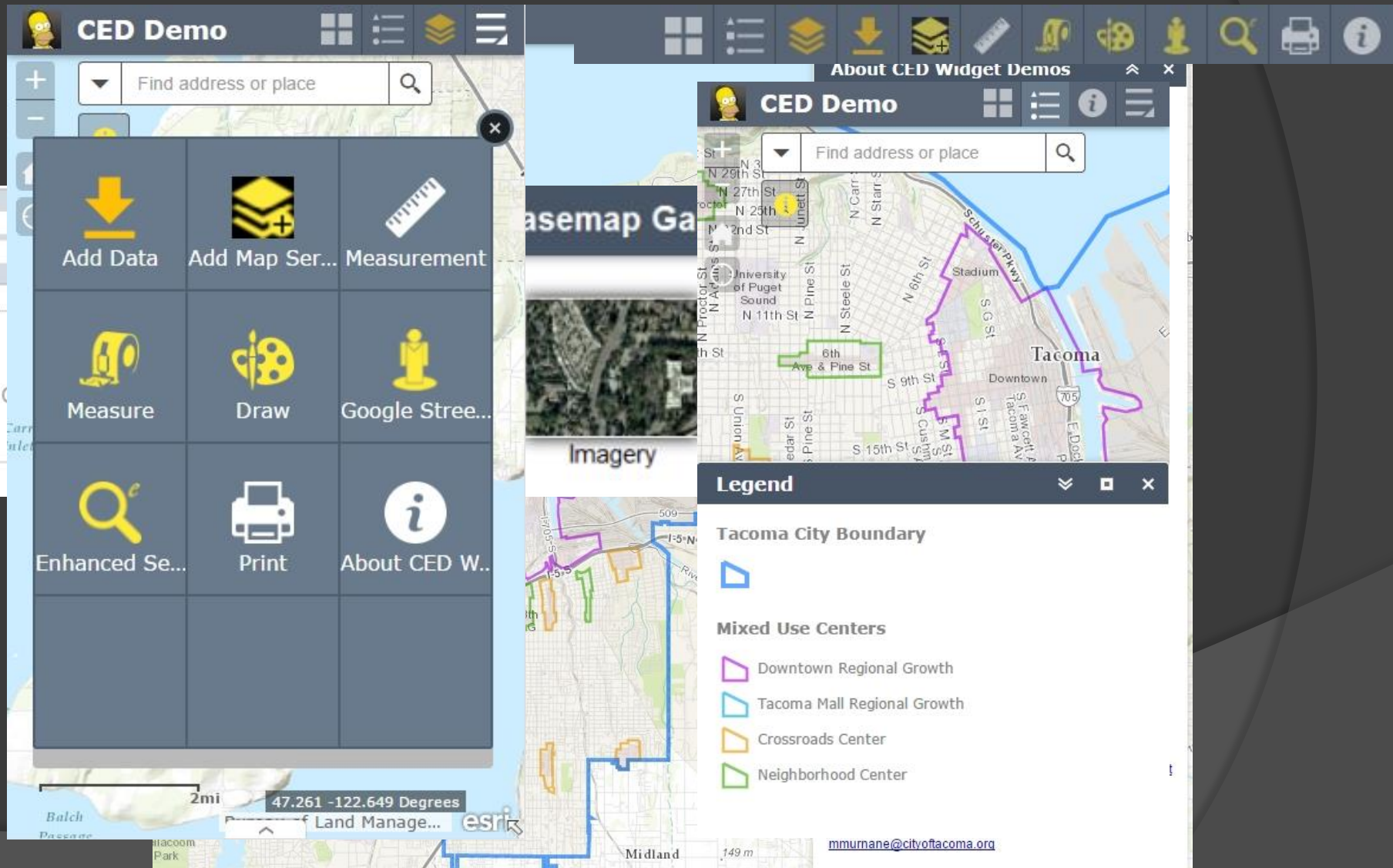
# Many Focused Tasks - Permitting



# ESRI's Web AppBuilder

1. Free & Integrated with ArcGIS Online
2. Run on any device (responsive design)
3. Simple configuration builder experience (no code to write)
4. Extend with custom widgets and themes

# Web AppBuilder Features





# Standard & Custom Widgets

Freely available, no code to write, just configure

## STANDARD (configured):



Basemap Gallery - [Help](#)



Legend - [Help](#)



Measurement - [Help](#)



Print - [Help](#)



About - [Help](#)

## CUSTOM (freely downloaded, configured):



Identify Many - [Download](#)



Add Map Service - [Download](#)



Measure - [Download](#)



Draw - [Download](#)



Street View - [Download](#)



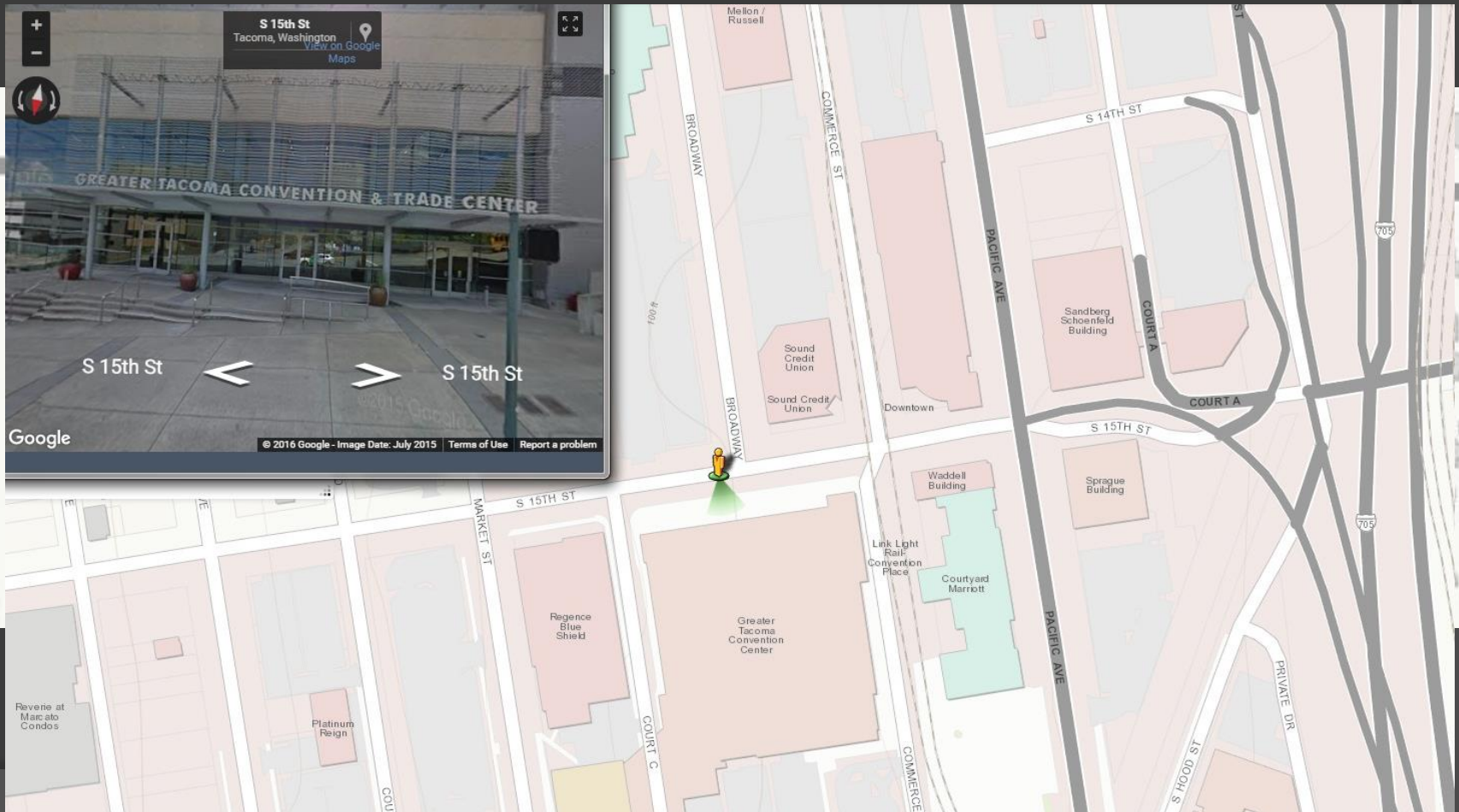
Enhanced Search - [Download](#)



Local Layer - [Download](#)

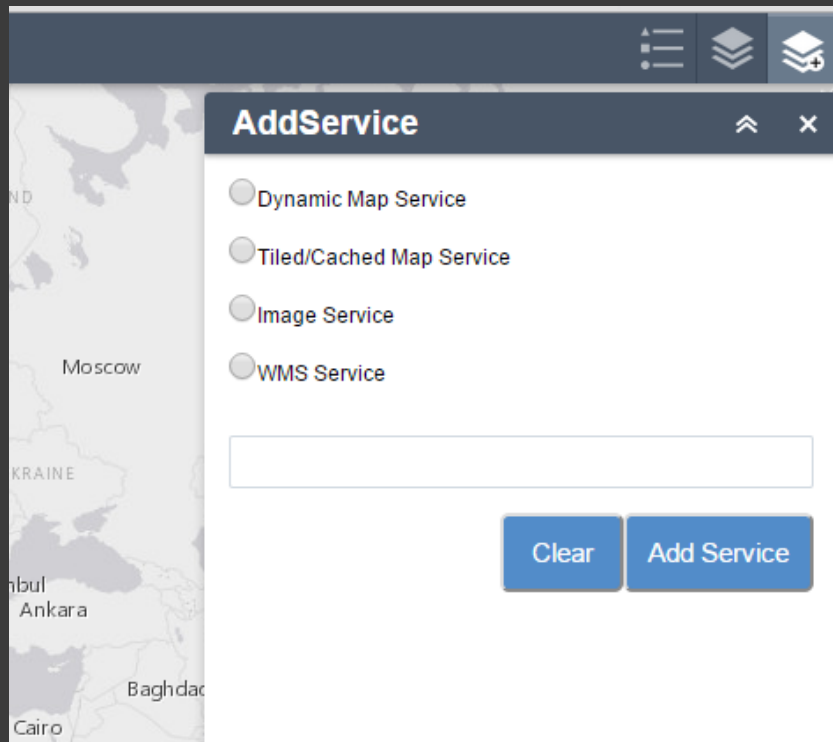
# Custom Widget Demo

Measure (Tom Sellste), eDraw (Jeremie Cornet),  
Street View (Robert Scheitlin)



# Add Service Widget - Custom

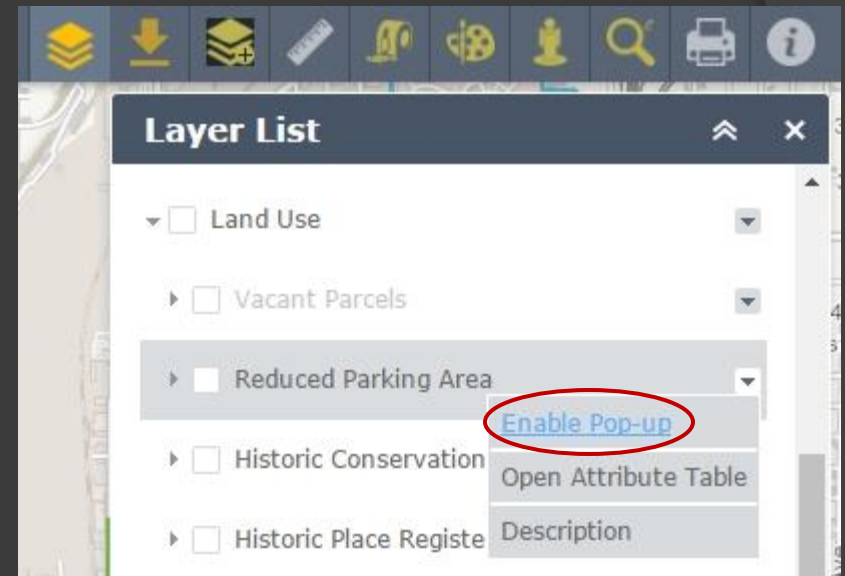
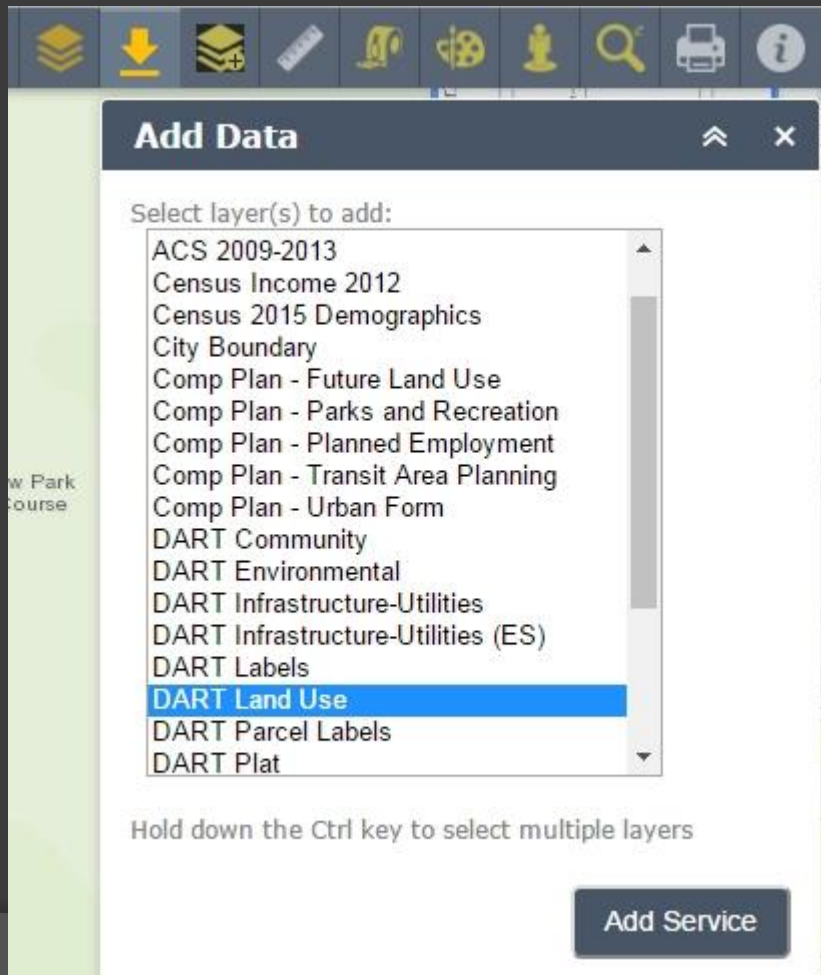
Add a web service - Damien Robinson





# Add Data Widget – Tacoma Built

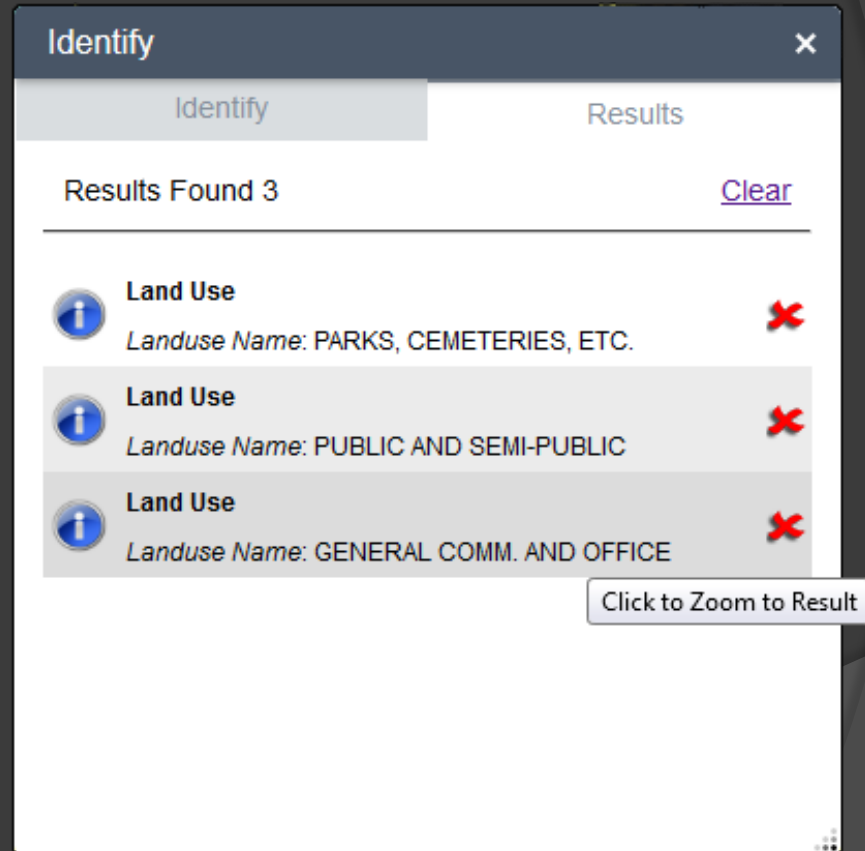
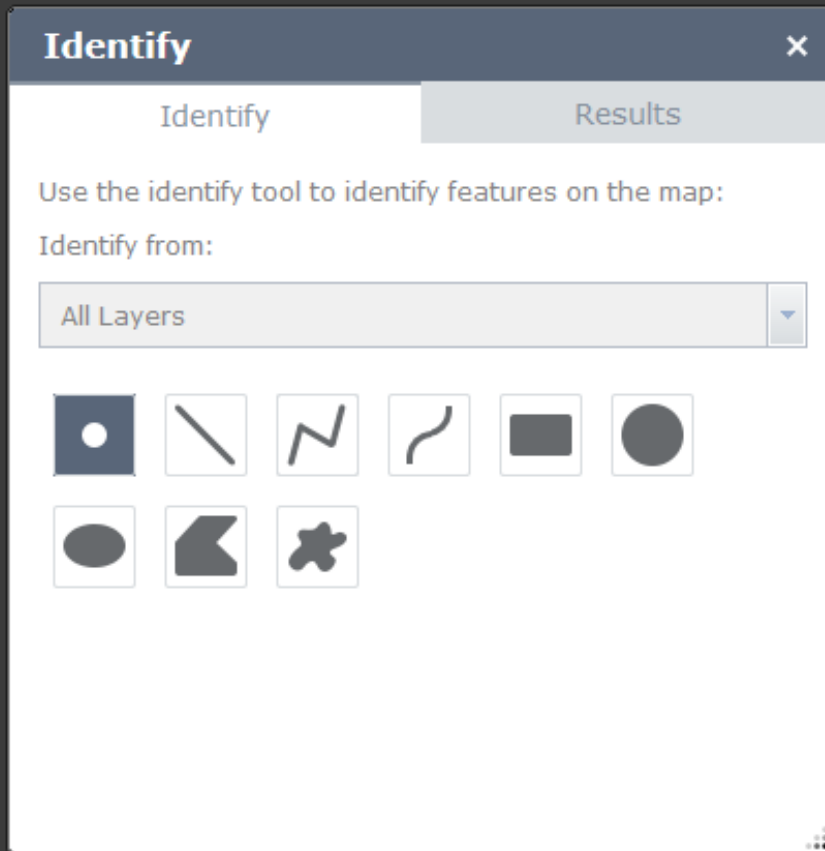
Combined with Layer List: Unlimited data add & identify



**\* AddLayer Widget \***  
(Softwhere Solutions)  
released 2/21/2016  
GeoNet & GitHub

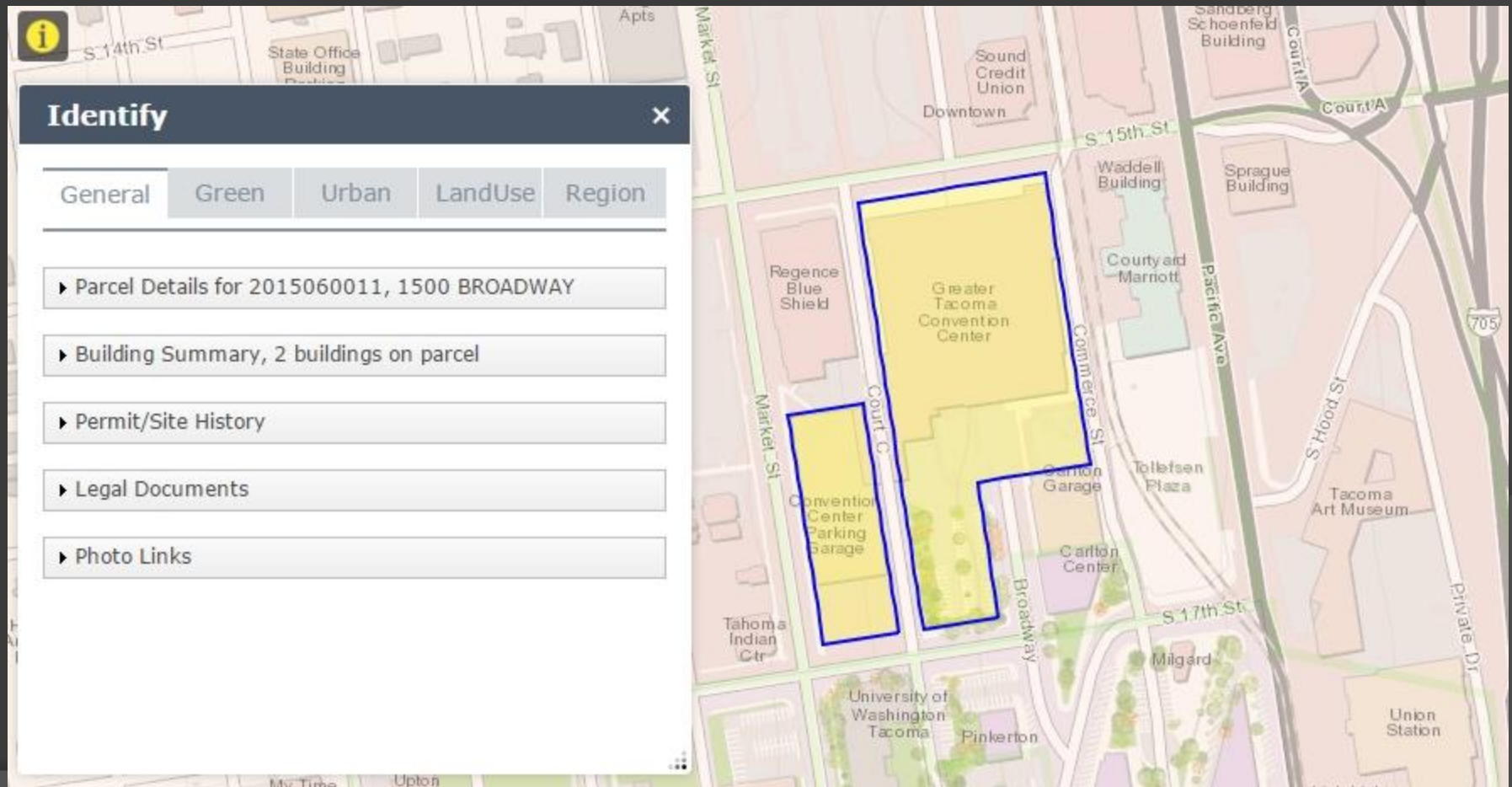
# Identify Widget - Custom

Identify many map features - Robert Scheitlin



# Identify Widget – Tacoma Built

Identify many items within a parcel





# Widget Lessons Learned:

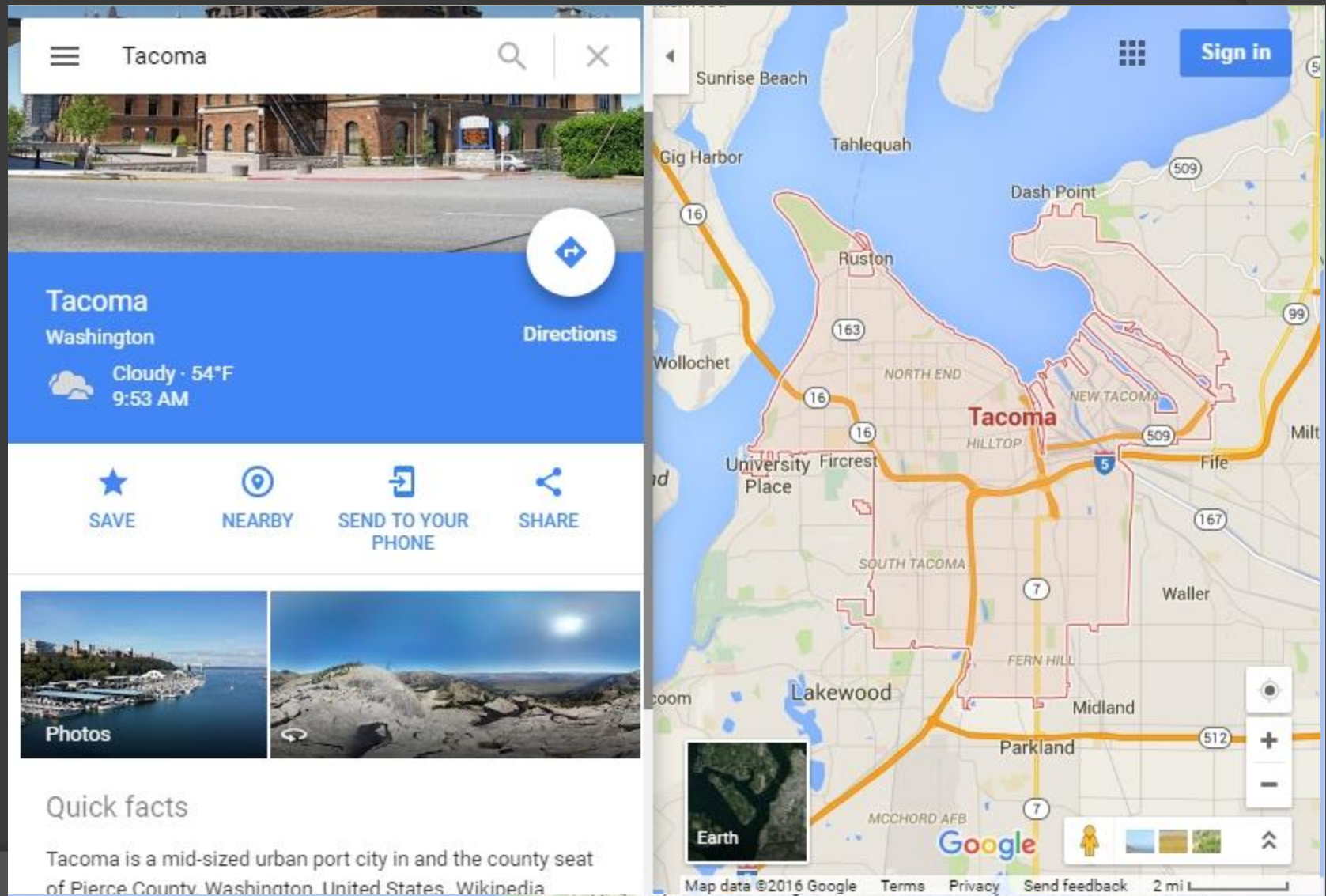
- Be agile
- Design first for mobile
- Use configurable widgets
- Leverage web services
- Begin with complex task
- Make task intuitive
- Make task generic
- Share the widget



# Conclusion: Make widgets intuitive

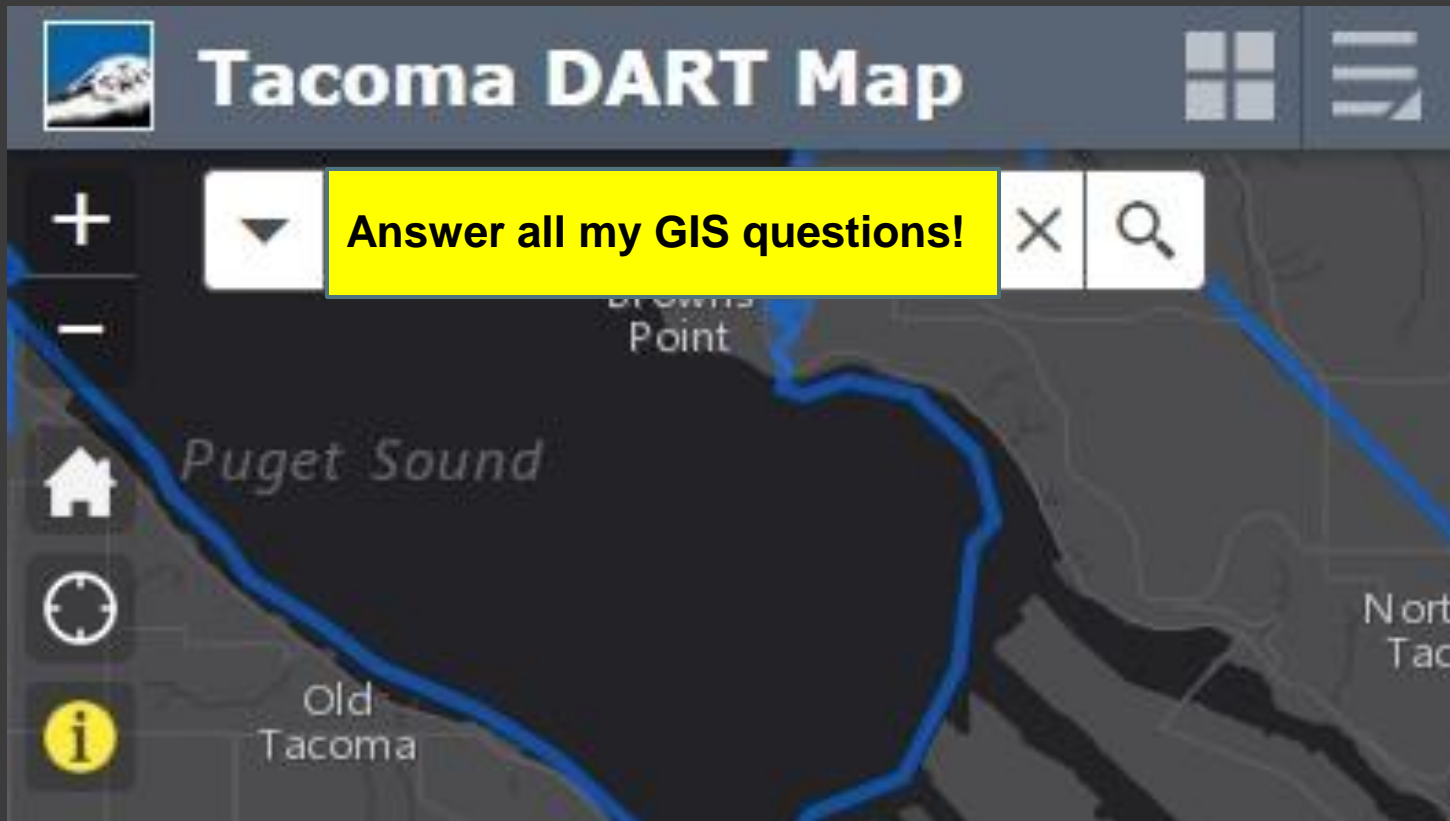


# Google Maps: Focused-Intuitive Task





# Final Widget?



# Resources:

Web AppBuilder for ArcGIS (Developer Edition):

<https://developers.arcgis.com/web-appbuilder/>

Web AppBuilder on ArcGIS Forum:

<https://geonet.esri.com/community/gis/web-gis/web-appbuilder/>

GeoNet Custom Widgets:

<https://geonet.esri.com/groups/web-app-builder-custom-widgets>

GitHub Custom Widgets :

<https://github.com/gavinr/wab-widget-search>

Rebecca's GIS in Alaska Blog:

<https://geonet.esri.com/blogs/myAlaskaGIS>

# Questions?

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*Tacoma Community & Economic Development*

**Maps & Data:**     [www.CityOfTacoma.org/maps](http://www.CityOfTacoma.org/maps)

