GIS and The City Of Pembroke Pines
The City's GIS system of the future
March 24, 2022

City OF Pembroke Pines GIS

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"Being effective as individuals and organizations is no longer optional in today's world—it's the price of entry to the playing field. But surviving, thriving, innovating, excelling and leading in this new reality will require us to build on and reach beyond effectiveness. The call and need of a new era is for greatness. It's for fulfillment, passionate execution, and significant contribution."

Stephen R. Covey

From a small GIS, Utilities only, organizational account to an Enterprise system, in less than a year, with a team of two (GIS Manager and GIS Specialist). For those that might not be familiar, the city GIS Manager is responsible for the Police, Fire, Planning, Utilities, Public Works, Engineering, Zoning, Building, and Recreation Departments. These are all part of the Enterprise system. The City of Pembroke Pines is the 2 nd largest City in Broward County Florida with a population of over 165,000!

July 2

Their small organization account, was co hired to use available city hard copy maps, atlas's   fashion operational layers from which a G   loped. Concurrently, the city decided to move   e resource planning (ERI

November 2020

The Utilities department hired me as a GIS manager to assist with setup and deployment of the city's ERP system connection to ArcGIS Online. The first order of business was to procure a Desktop license, then build and host GIS layers to allow for Energov's connection.

January 2021

It was determined early on that I needed to create a more robust GIS system to include the needs of multiple departments throughout the entire city. I began the process of procuring the ESRI Enterprise system. The procurement process can sometimes be lengthy. I needed to be creative on how to utilize what we currently had and still provide a user friendly and adaptable system.

April 2021 - September 2021   Expanding the capabilities of our Limited system

- In April of 2021, I hired and trained an entry level GIS specialist.
- While in the holding period to secure the enterprise system, with only one Desktop License, the Specialist and I were able to Migrate and deploy Survey 123 apps using Survey 123 Connect. Which was for a mass meter change out that consisting of over 16,000 Water meters.
- Used ArcGIS JavaScript APIs to create custom desktop applications that would allow the specialist and other users to edit and use snapping tools from their desktops, without the need to update hardware.
- Created custom Html code in the pop-up windows in ARC GIS Online. This was a great tool for the field crews to use in Field Maps. It allowed them to send emails to the GIS specialist, and myself directly.

September 2021 "Esri Enterprise Secured"

With the team having more desktop licenses and capabilities because of the Enterprise system, we quickly moved from 17 users to 126 active users and grew to about 300 Operational Layers (view and edit) for several departments such as Planning, Utilities, Engineering, Public Works, Fire and Police.

November 2021 "Small Enterprise Geodatabase Created"

Previously, we used ArcGIS Online as the primary database for the Cities GIS data. I decided to created a small Enterprise Geodatabase using Postgres SQL on the city's standard workstation PC. I allowed access to the Enterprise Geodatabase through the interoffice network for the specialist and an Intern, thereby allowing for a multi-user database.

March 2022 – "ArcGIS Enterprise on Amazon Web Services migration Initiation"

Recently, I secured a provider to assist with Enterprise install on AWS and migrating to a full Enterprise System.

Summary

As our city continues to grow, so does our GIS. We have already integrated some of our layers with the Police and Fire department's third-party applications and expect to support other departments in the near future. In my 17 months with the city, I have hired employees, moved their small utility-based system into a multi-departmental advanced system, including setting up the city's first Esri Enterprise system, created custom Desktop App's Using ARC GIS JavaScript API's, automated system admin task with Notebooks, created custom email notification options using HTML in popup windows and used arcade to perform some other small calculations in field maps and Dashboards.   My plan is to migrate all assets to be used in augmented reality and fully integrate the GIS system into daily workflows. I am all about taking it to the next level!

DEMO

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City of Pembroke Pines

| Pembroke Pines Main page | County Property Appraiser | Broward County Aerials | Broward GeoHub |

| SFWMD Geo Hub | USGS GIS Data | ESRI |

City of Pembroke Pines GIS Applications

Sanitary Sewer System

Pembroke Pines Addresses

Potable Water System

Pembroke Pines Local Streets

Edit home page

https://pembrokepines.maps.arcgis.com/home/index.html