WHAT IS THE GIS OFFICE

• GIS is an “Essential County Purpose” as defined by Iowa Code Section 331.441 (11)

• Auditor’s responsibilities state that we are to keep a record of all transfers of real estate and provide maps to the Assessor with property boundaries

• The County Geographical Information System enables elected officials, department heads, county employees, public and private agencies, and citizens of Dubuque County to graphically view and analyze information, and apply GIS technology to County issues
STAFFING

- Staffing currently consists of three full time positions
  - GIS Coordinator
    - Overall department operations.
    - Maintain all websites
    - Coordinate with other departments on their needs
    - Server maintenance and custom applications
    - Role of E-911 Address Coordinator
      - Assigning, correcting addresses, approving road names
  - Deputy Auditor
    - Parcel maintenance and numbering
    - Interacts with surveyors for subdivision names as well as surveys that do not meet our ordinance
  - Deputy Auditor
    - Responsible for transfers, splits, and combinations in Tyler Software

- All staff is capable and expected to edit any of the 200+ editable data layers, answer questions from other departments and the public, and sign plats
LAST YEAR

• For Calendar Year 2019 GIS processed 4,900+ recorded documents, approximately a 10% increase from last year.
  • Affidavits, Annexations, Contracts, Deeds, Easements, and Plats
• Assisted Dispatch in locating 105,000+ emergency calls.
• Provided 17 maps for Drug Task Force this year, which is similar to last year.
  • Provided a map (94) for each protected area which should keep the number fairly low.
  • Our maps help provide near 100% conviction rate and approximately 10% of those are a third strike with life in prison.
  • More seem to be heading to Federal Court.
• County Attorney requests for maps to be used in court were about the same as last year.
LAST YEAR

- This year we have issued 58 addresses, which has been about 2/3 the number of addresses issued for each of the past three years. We also issued 30 for the City of Peosta.
- Assisted Secondary Roads with their Cartegraph Pavement Management implementation.
- Completed the Census Boundary & Annexation Survey (BAS) and the Local Update of Census Addresses (LUCA) in preparation for the 2020 Census.
- Conservation has asked us to create park maps to replace existing.
- We are working more with Ag Land credit and dividing value for new splits.
LAST YEAR

• Migrating our parcels to the ESRI Parcel Fabric Data Model
  • There has been a lot of clean-up.
  • We are creating lot polygons as well, which we have never had before.
LAST YEAR

• Maintain seven mapping websites with very limited downtime
  • Main Real Estate site - WebAppBuilder
    • 142,889 hits in past 12 months for an average of 391.48 hits/day
    • Site is available 24 hours a day and we do see usage in the overnight hours
    • Works on all types of mobile devices – Apple, Blackberry, Android
  • Legacy Real Estate site – Freeance
    • Will be completely phased out when the server is retired
  • Conservation’s site
    • Tied to Points of Interest site allowing the end user to click on the park name and go directly to a map of that park
  • Sex Offender site
    • Although gets little usage, sheriff needs site available to verify an address if a registered sex offender requests to move
LAST YEAR

• ATV Ordinance Banned Roads
  • Highlights the banned county roads

• Elections sites –
  • Polling Place Finder site
    • Allows voter to enter the address, determine their polling place, get driving directions and a picture of the site and see a sample ballot.

• Vote Center/Satellite Voting Site
  • Similar to the Polling Place finder but was used for the School PPEL and Satellite voting for the General Election.
LAST YEAR

• **Next Gen 911**
  • One of the first counties to achieve the 98% synchronization between the GIS, MSAG and ALI databases.
  • Last submission was above 99.8%.
  • We continue to meet the benchmarks for the PSAP Grant from the state.
ISSUES IMPACTING DEPARTMENT

• Ag assessed parcels
  • 30% are not drawn within the 3% of assessed acreage
  • This forces assessor to make additional adjustments to the CSR calculations
  • This should improve after the Subdivision Ordinance update.

• Easements for utilities and access
  • This is the largest request we receive from the public that we cannot fulfill
EXPENDITURES

• Changes from Last year
  • I increased the travel expenses for the ESRI User Conference by $500
TRAINING CLASS

• Migrating from ArcMap to ArcGIS Pro
• ESRI is phasing out the current software (ArcMap) and replacing it with ArcGIS Pro
• It has very different interface
• We need to be well acquainted with it before we roll it out to the rest of the users.
ICIT TECH TEAM

• ICIT Tech Team
• We have processes which used to run as a scheduled task overnight and abruptly ceased that are critical to our business continuity.
• IT has been unable to get these running as scheduled tasks
• I have additional things I would like to have happen overnight such as refreshing the data from Tyler.
ICIT TECH TEAM

- We currently only refresh the data weekly.
- ICIT, the ISAC technology affiliate, would send IT and GIS professionals to the county who can assist our IT department get these tasks working.
- We cover their travel, meals, and lodging expenses.
FUTURE

• Spend time getting acquainted with ArcGIS Pro
• Need to update the elections websites using ArcGIS Pro
• Need to make some server software updates
• Work with Soils & Water Conservation District on the Hydrology Project
FUTURE

- **Operational Dashboard**
  - Plats, Zoning Cases
  - Conservation Projects
  - Road Projects

- **Park Finder update**
  - Locate parks near you
  - Locate by activity
  - Including links to and from the Conservation webpage

- **Community Engagement**
  - Report potholes, trash in ditches, etc. on a cell phone