# Administrative Complexity

Processing Residential Exemptions at CCAO



#### **Acknowledgements**

- CCAO Leadership
- Staff Members
- The Exemption Project
- IAAO and CCA
- Dr. James Thompson and CUPPA

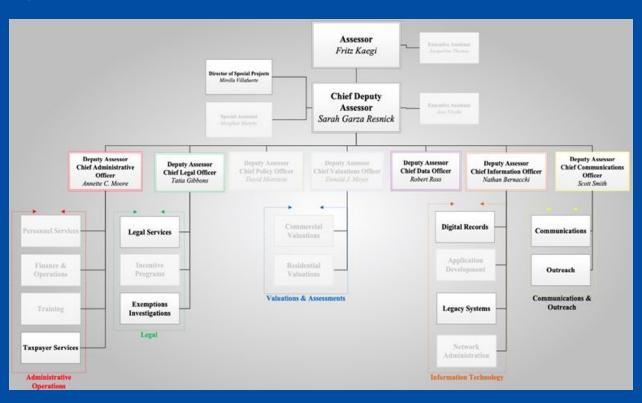
## Introduction

Cook Co. and Property Taxes

- Cook County Assessor's Office
- Important source of steady revenue for local governments
- Assessment and Collection centralized in county government
  - Supports over 800 governmental units



### **Office Organization**



#### **Residential Exemptions**

- Exist to help ease tax incidence on certain individuals.
- Broad administrative process
- 6 Departments
- 2 Vendors
- Imperfect Process

- Homeowner
- Home Improvement
- Longtime Homeowner
- Persons with Disabilities
- Returning Veterans
- Senior
- Senior Freeze
- Veterans with Disabilities

### **Details of MOU**

#### **MOU Deliverables**

- 1. Standard Operating Procedures
- 2. Data Dictionaries
- 3. Data Inventory
- 4. Gantt Chart

### **Literature Review**

#### **Overview**

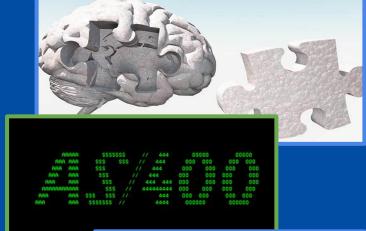
- Relevant issues within the CCAO to be addressed
  - International Association of Assessment
     Officers (May 2019 Audit)
  - Civic Consulting Alliance (May 2019
     Transparency Report)
- Provide industry and academic context for the methods and solutions





# International Association of Assessment Officers May 2019 Audit

- Completed at the request of Assessor Kaegi.
- Key to long-term reform is modernization.
- Critical areas identified:
  - Staffing and skill development
  - "continual loss of institutional professional knowledge"
  - Adapting technology
  - o "green screen" mainframe computer client system
  - Data quality
- Some data "originally compiled many decades ago through a survey mailed to property owners."



# Civic Consulting Alliance May 2019 Transparency Report

- Completed as part of a four part report series for the CCAO and Cook County Board.
- Report called for:
  - Modernizing system into compliance w/ IAAO standards.
  - Better understanding of internal review process.
  - Increased documentation of processes.
- End goal is building public trust.



#### **Introduction to Process Mapping**

Tool used by project team to capture the internal exemption process.

#### "Presenting the current state of play of a process"

- Alford and Yates, "Mapping Public Sector Processes." International Journal of Public Sector. Management.

#### "You cannot manage what you do not measure"

- Marriot, "Process Mapping-The Foundation for Effective Quality Improvement."

Current Problems in Pediatric and Adolescent Care.

#### **Process Mapping**

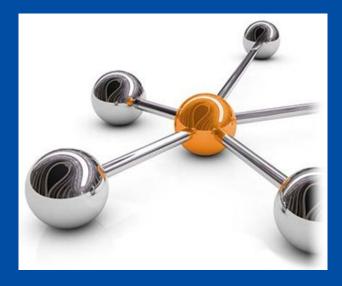
- Why this tool was effective
  - Visual / Interactive easier to understand than textual.
  - Takes shape of respondents.
  - Increases accessibility.
  - Reveals what is and is not working.
  - New opportunities for internal data / process capture.



# **Methods**

#### **Interviews**

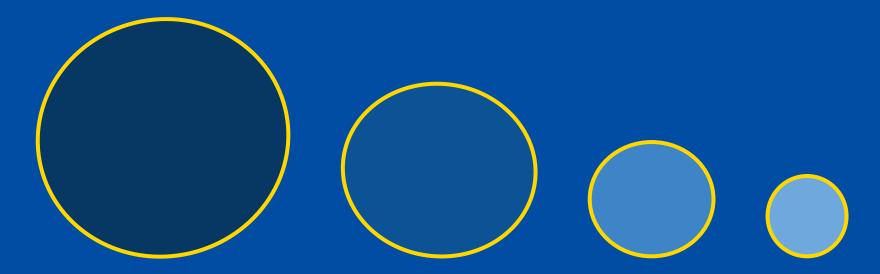
- Cast a wide net
- Developed an "Interview Protocol"
- Add Organizational capacity
- Centralized Information



- 1. Jason Pyle, Erroneous Exemptions
- 2. Justin Kirvan, Legal
- 3. Lumni Livovski, Taxpayer Services
- 4. Mark Kos, FOIA
- 5. Marty Paulson, Special Projects
- 6. Mirella Villafuerte, Special Projects
- 7. Nicole Jardine, Communication
- 8. Stevan Pham, Legacy Systems

#### **Process Mapping**

- Pulled all information together
- Decided what was relevant
- Condensed into a process with delientated steps



- State of information
- Deliverable format decision
  - Prioritized Usability and Adaptability
- The HTML Tool

Fixed

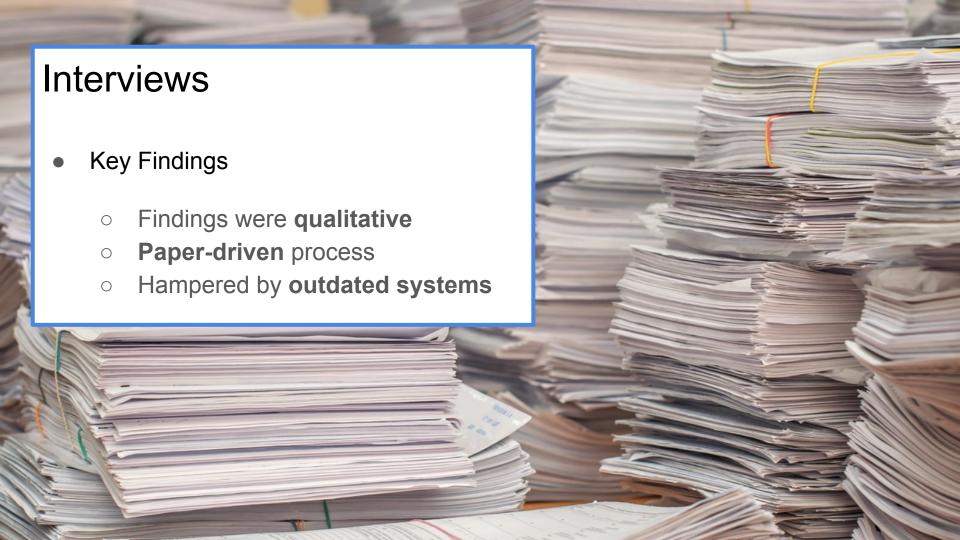
#### I. Data Dictionary offset field name length segment Assessment status (binary: non-assessed/assessed) Fixed Fixed Town Volume Fixed 11 Fixed Property no. 14 Fixed Tax code 26 Tax status [0:Taxable Parcel, 1: Exempt, 2: Railroad, 3: Homestead Non-coop, 4: Veteran, 32 Fixed 5: Homestead Coop

3

34

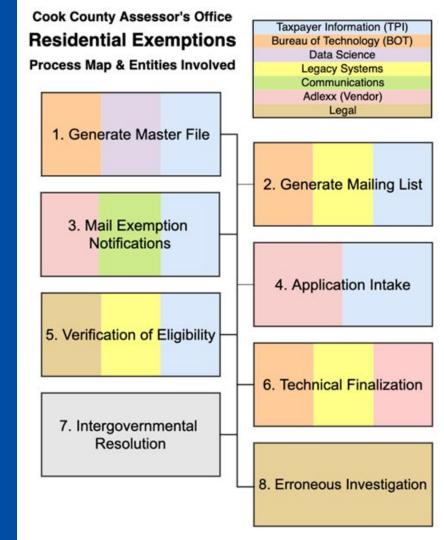
Class: 1st digit is the major class identifier and 2nd & 3rd minor class identifier

# **Findings**

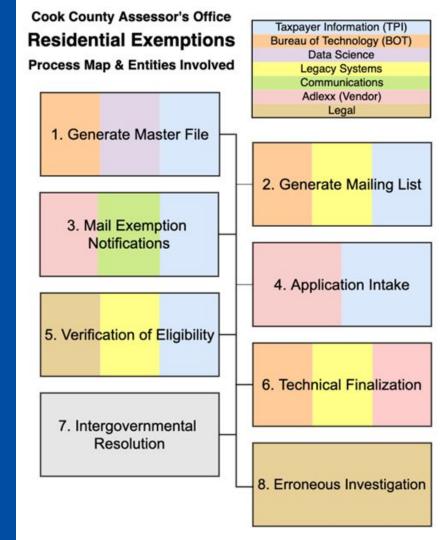


#### **Process Map**

- 8 Major Steps
  - Steps 1-6 are primary internal steps
  - Step 7 is where deadlines are most crucial
  - Step 8 is ongoing
- 7 Major Actors
  - Degree of Departmental Overlap

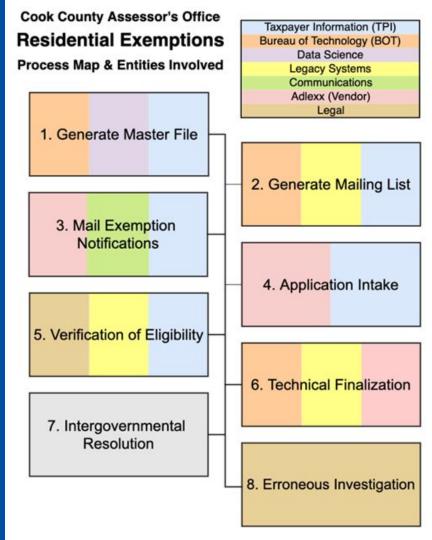


- User-friendly HTML Tool
- Tiered information
- Drop-down options for key data inputs and instructions



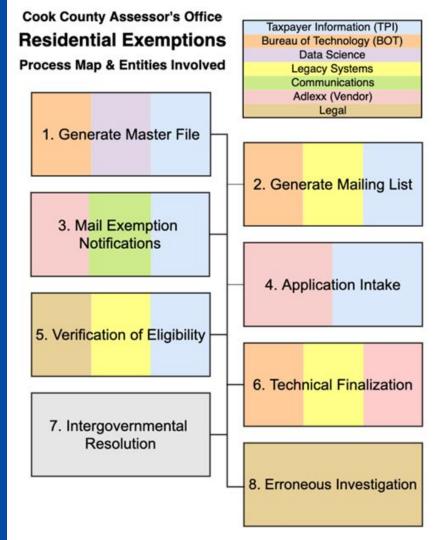
#### **Step 1: Master File generated.**

- Legacy Systems and Bureau of Technology execute the scripts, queries and jobs associated with this task.
- Data Science works with Taxpayer
   Information to flag eligibility changes.



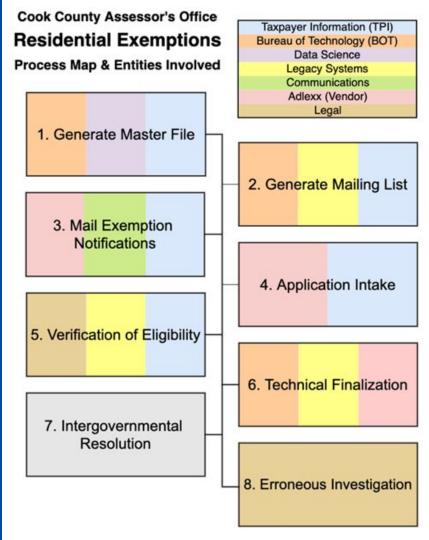
#### Step 2: Mailing list generated.

Taxpayer Information coordinates
 with Legacy Systems and the Bureau
 of Technology to create a mailing list.



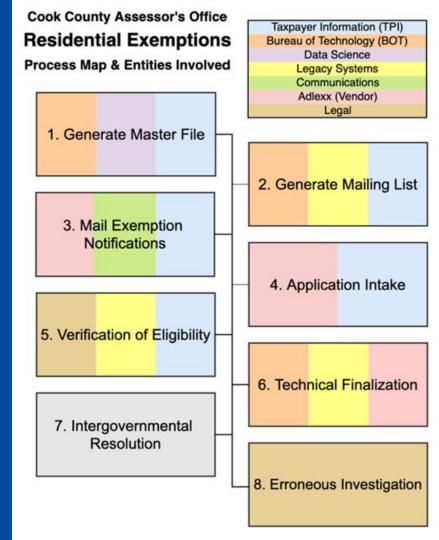
**Step 3: Exemption notifications mailed.** 

 Adlexx (Vendor) uses the mailing list from Taxpayer Information and designs from the Communications Department to send out notifications.



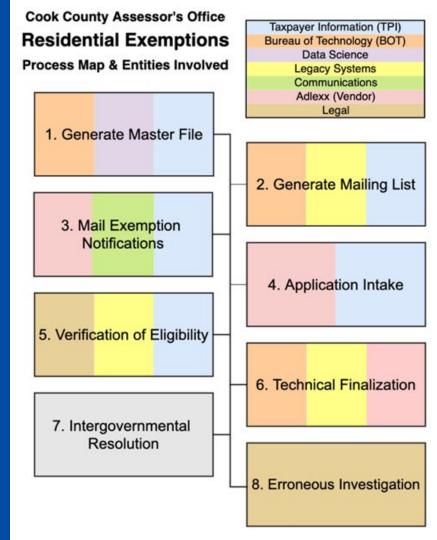
#### **Step 4: Application intake.**

- Adlexx (Vendor) scans received applications, formats them as PDF files, and then sends them in batches to the Taxpayer Information
   Department along with a spreadsheet that contains the relevant information.
- Some individuals deliver in-person or mail directly to CCAO.



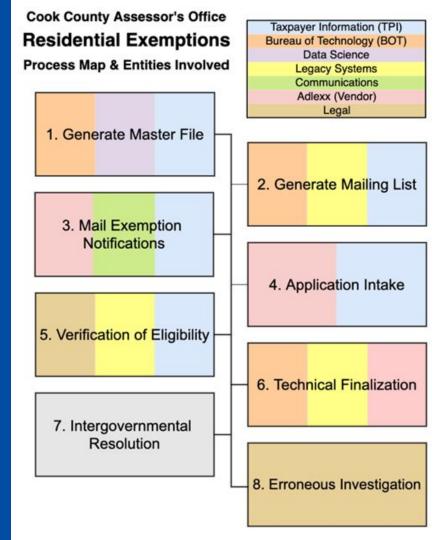
#### **Step 5: Verification of eligibility.**

- Eligible applications put into "batches" to be entered into the Taxpayer of System of Record.
- Legacy Systems verifies information.
- Legal Department consults on "edge cases" and statutory language.



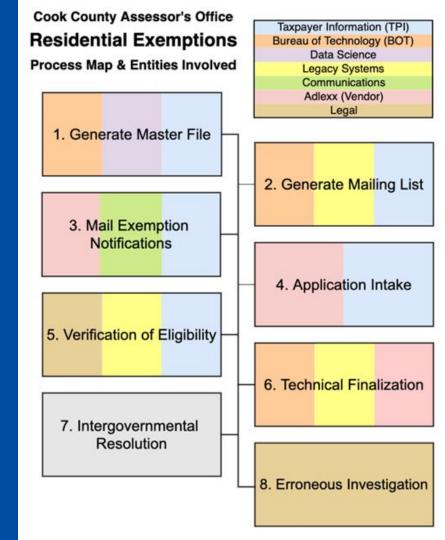
#### **Step 6: Technical finalization.**

- Legacy Systems finalizes information updates to the Taxpayer System of Record and sends them to the BOT.
- Information is printed and verified by BOT before being summarized and sent to the Illinois Department of Revenue for calculation of the statewide equalizer rate.



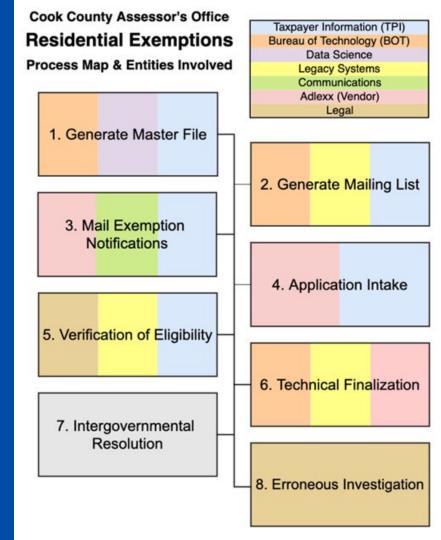
#### **Step 7: Intergovernmental resolution.**

- Equalizer applied to assessed values for EAV.
- CCAO and the Cook County Clerk's Office resolve the final results.
- BOT, Legacy Systems, and Taxpayer Information coordinate to reopen the system in order to make the adjustments.
- System closed and exemptions deducted from EAV.



#### **Step 8: Erroneous investigations.**

- Subunit within the Legal Department investigates unqualified exemptions.
  - Applicant dishonesty
  - CCAO technical errors
  - Combination of both
- Process is ongoing.



### **HTML Reference Tool**

# Why HTML?

- Design inspired by interactive lookup tool used by valuations analysts
- Has no learning curve: we can expect everyone knows how to use an internet browser
- Easy to tweak by programmers, hard to break by users

#### **Necessary Functions derived from MOU**

- Standard Operating Procedures
  - Process Map to facilitate high-level overview
  - Detail level increases interdepartmental transparency
- Gantt Chart
  - Schedule timelines & relationship dependencies
  - When is it most important to focus on timing?
- Data dictionary, inventory of scripts, queries and jobs
  - Useful to frontline staff as a reference guide
  - Some complex tasks are only performed once a year

Matt Amann

Carta S. Craig

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Tim MeMahon

**Professor Signature:** 

James / hompson

Client Signature:

Robert Ross

#### HTML allows us to combine all features into one file

- Offer a manipulable level of detail
- Include multiple media formats
  - Makes it easy to reference source material
  - Image files, spreadsheets, word docs, pdfs, external links
- Malleable and updatable
  - Markdown language is universal and easy to use
  - Can be conduit for institutional knowledge management
  - Ideal framework to expand training and procedure improvement

### **Browser Demonstration**

## Recommendations

#### **Process Consolidation**

- Dozens of staff in six departments and several outside partners
  - Taxpayer Information
  - Bureau of Technology
  - Data Science
  - Legacy Systems
  - Communication

- Legal
- Adlexx
- IDOR
- Cook County Clerk
- Cook County Treasurer
- Centralization will address chain of responsibility, communication
  - Some departments are designed to serve as clients to others
  - Current setup has every department serving as a client to the process
  - o Process documentation research should serve as a guide to strategic planning

#### Deployment of the HTML Reference Tool

- It should not be considered "finished," but it is ready for immediate use
  - Source code, file organization structure available on Gitlab
  - Data Science is an ideal department to manage its activation
- First steps
  - Assigned to staff member or work group
  - Made available to relevant parties
  - Feedback loops must be designed and standardized
- Accessibility of Information supports CCAO mission
  - Transparency
  - Fairness
  - Efficiency