

# Modernization of the U.S. Copyright Office

MAY 30, 2019

The webinar will begin promptly  
at 12:00 noon eastern time

**Copyright**  
United States Copyright Office

**To submit a question**, use the Q&A dialog box in the lower right corner. You may submit a question during any portion of this webinar; however, questions will be answered at the end of the presentation.

**Please note:** we may not be able to answer all questions received in the allotted time. Thank you.



**Karyn A. Temple**

Register of Copyrights and  
Director of the United States  
Copyright Office



[copyright.gov/reports/strategic-plan](https://copyright.gov/reports/strategic-plan)



**Sarah Garske**

Program Analyst



**Information  
Technology  
Modernization**



**Optimizing  
Business  
Processes**



**Measuring  
Success**



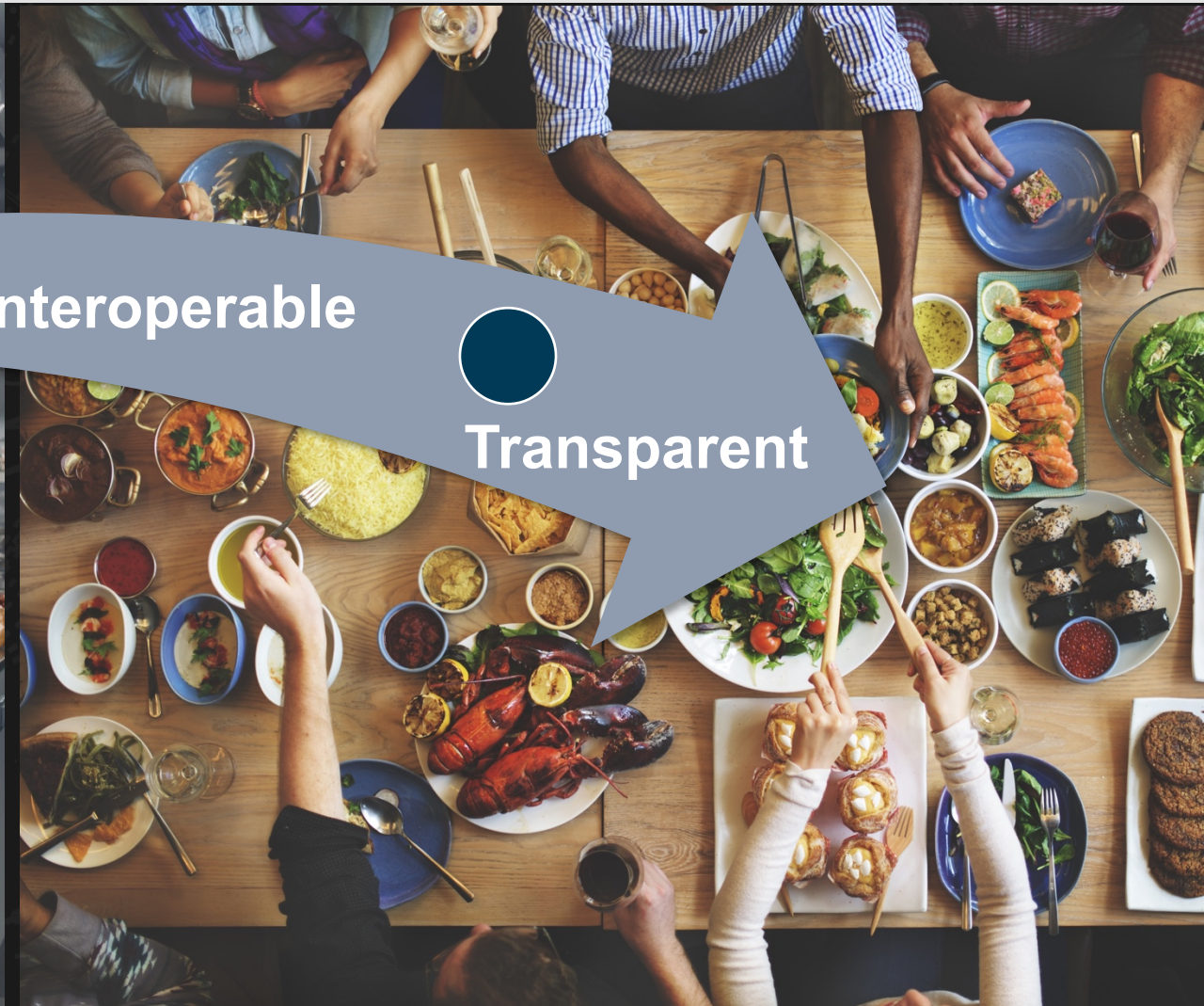
**Suman Shukla**

Data Management  
Section Head

## Data Management Plan

- Defines standards and processes for Office data assets to promote a user friendly environment.
- Seeks to identify the vulnerabilities in the Office's current data structure and make copyright data digitally enabled.
- Creates data standards that foster how data is collected, stored, and analyzed for making data-driven decisions.

# WHAT IS DATA MANAGEMENT?



## Data Management Services

- 1 ▶ **Data Governance**
- 2 ▶ **Data Quality**
- 3 ▶ **Digital Asset Management**
- 4 ▶ **Data Warehousing/Business Intelligence**
- 5 ▶ **Data Architecture Management Process**





## Discover

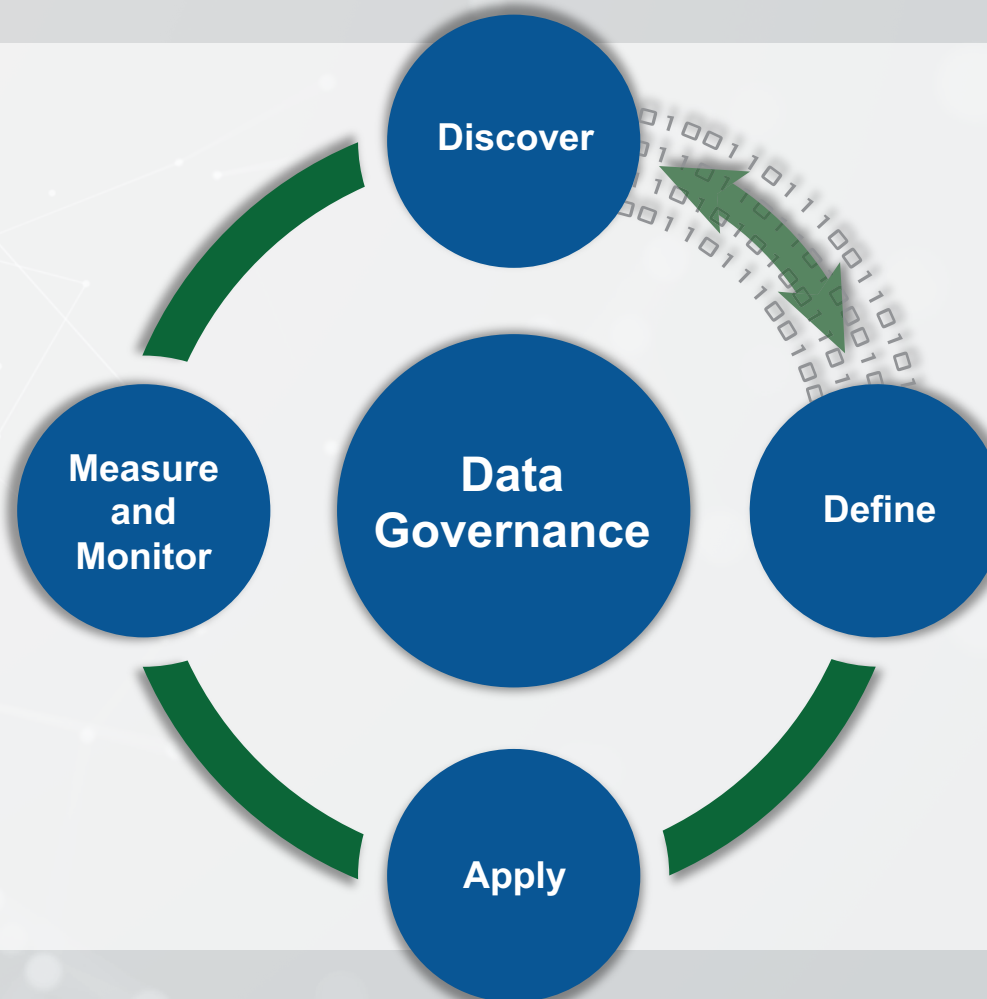
Data discovery  
Data profiling  
Data inventories  
Process inventories  
CRUD analysis  
Capabilities assessment

## Measure and Monitor

Proactive monitoring  
Operational dashboards

- Reactive operational DQ audits
- Dashboard monitoring audits

Data lineage analysis  
Program performance  
Business value/ROI



## Define

Business glossary creation  
Data classifications  
Data relationships  
Reference data  
Business rules  
Data governance policies  
Other dependent policies  
Key performance indicators

## Apply

Automated rules  
Manual rules  
End to end workflows  
Business/IT collaboration





## Quality Monitoring

Monitor  
Examine data

## Quality Transformation

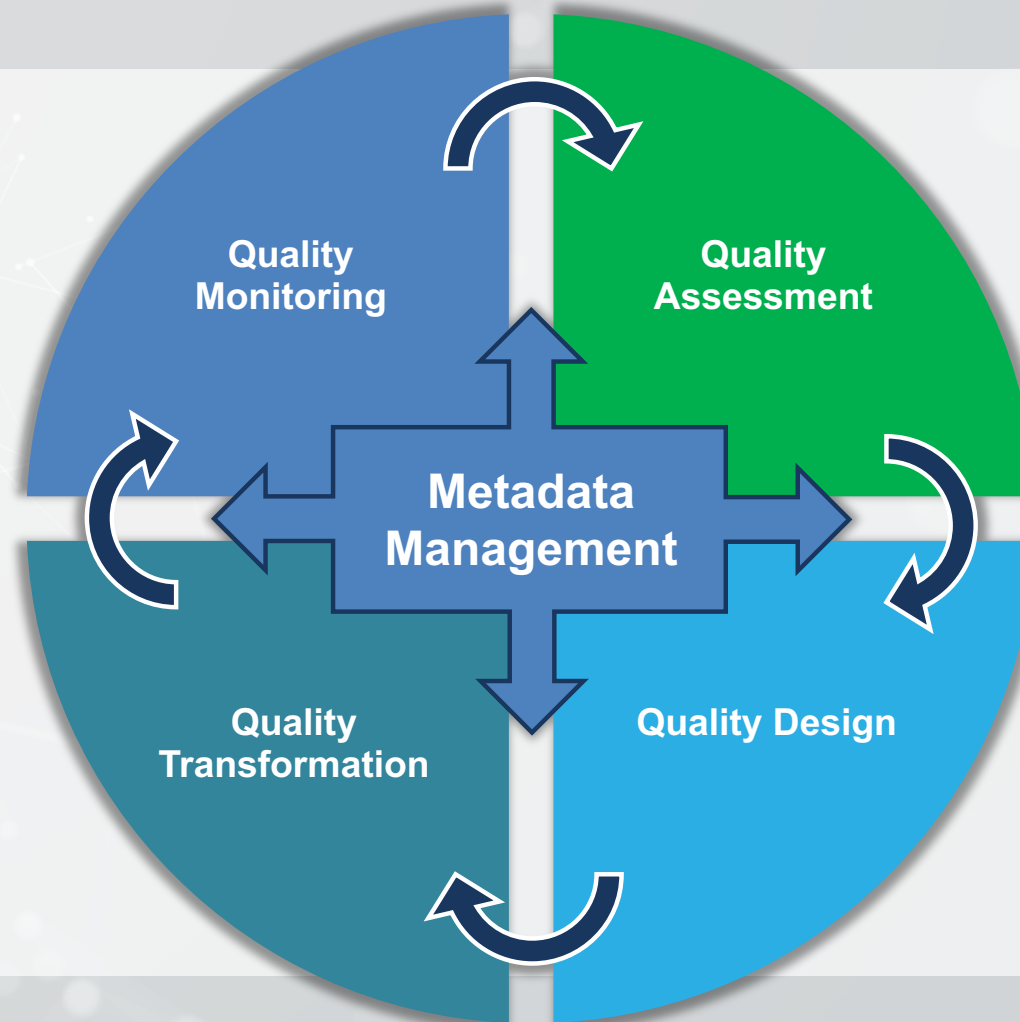
Process flow  
Execute

## Quality Assessment

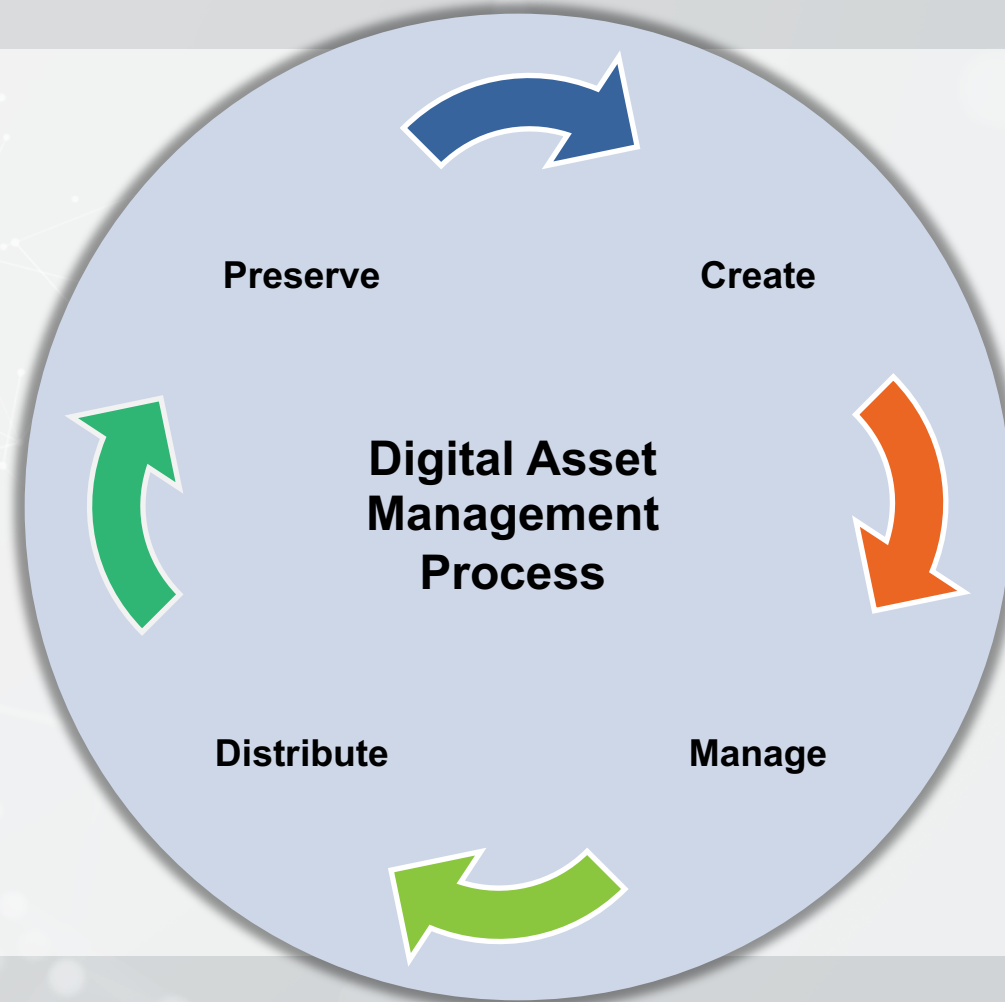
Capture metadata  
Profile data

## Quality Design

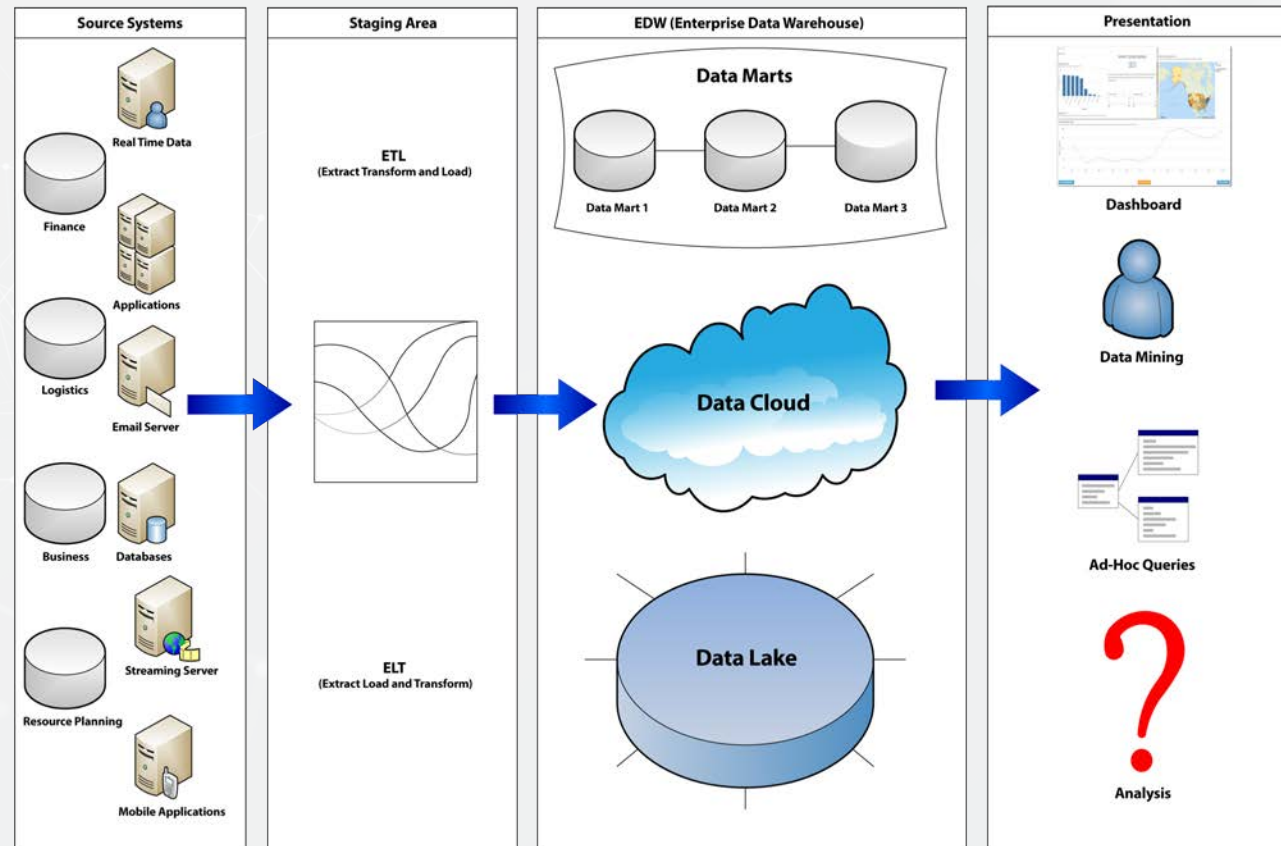
Data rules  
Data flow



# DIGITAL ASSET MANAGEMENT PROCESS

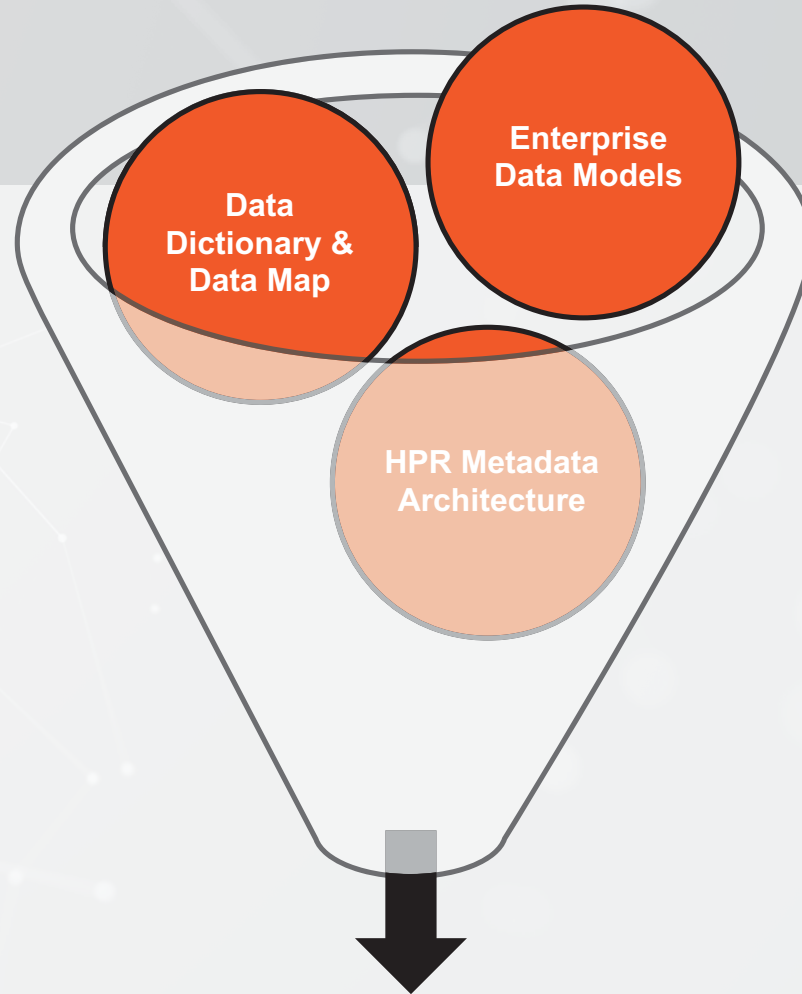


# DATA WAREHOUSE AND BUSINESS INTELLIGENCE PROCESS



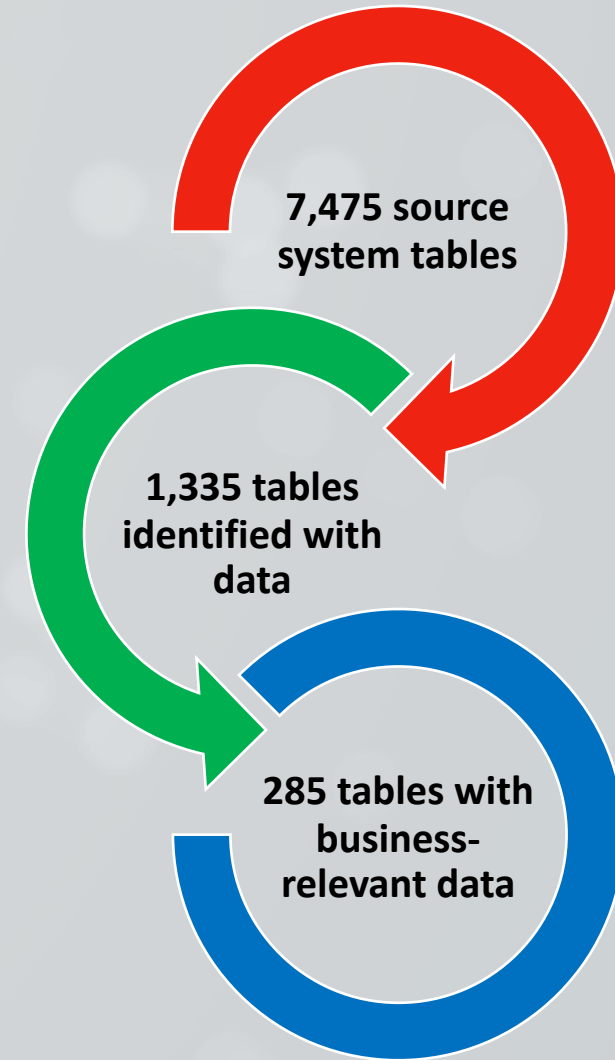
# DATA ARCHITECTURE MANAGEMENT PROCESS

Data Management Strategies

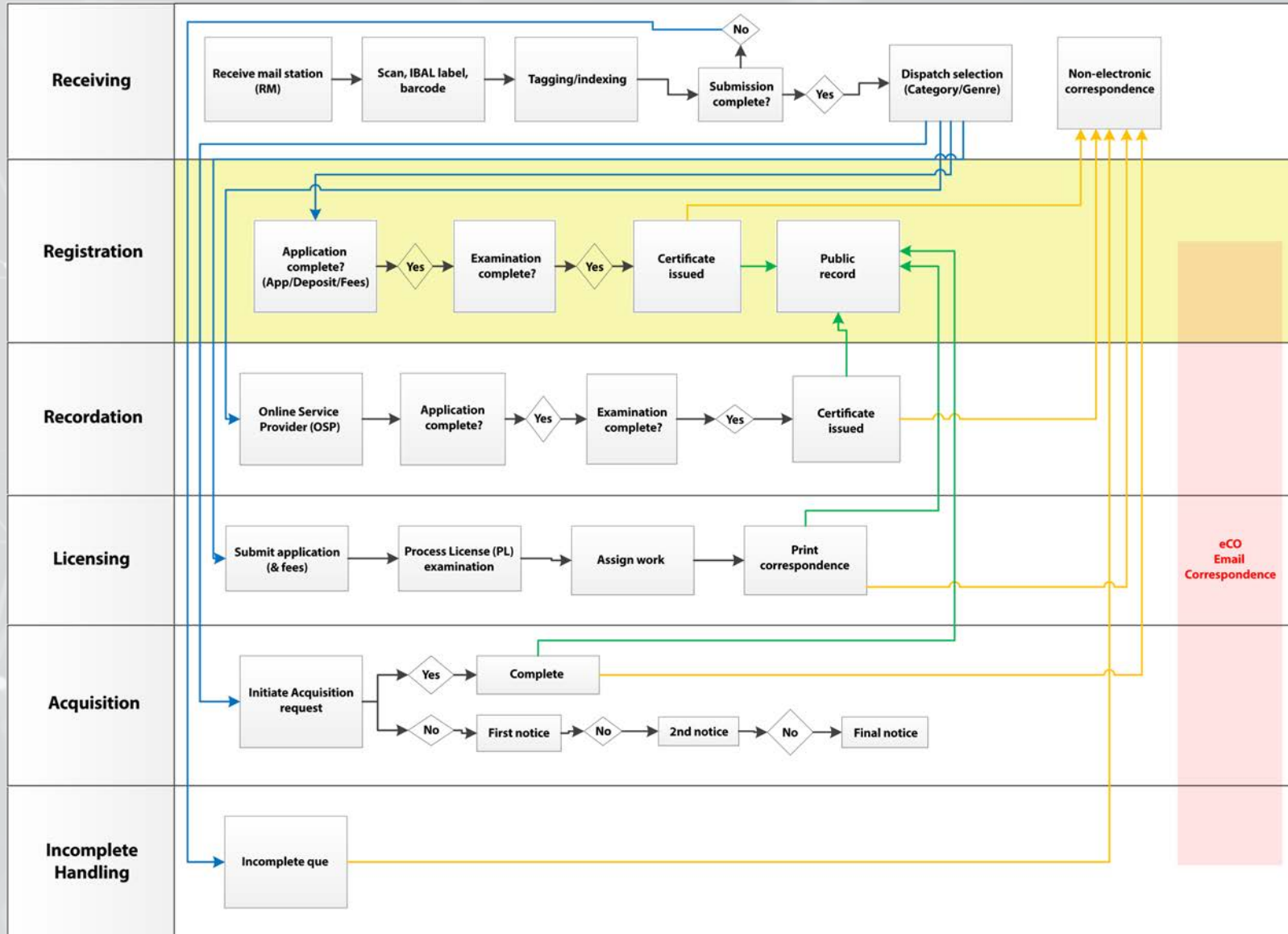


**Data Requirements for the Enterprise Copyright System**

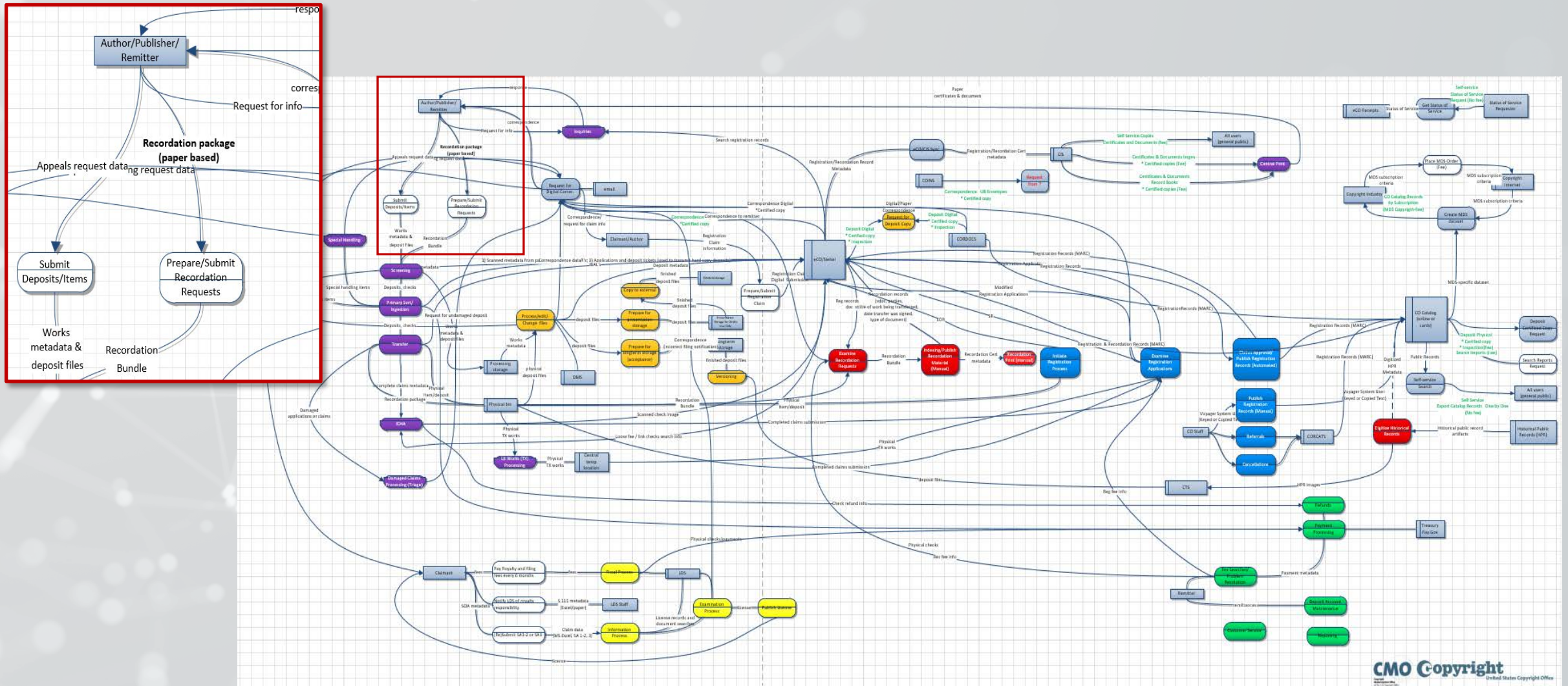
**18+** databases  
analyzed and  
mapped



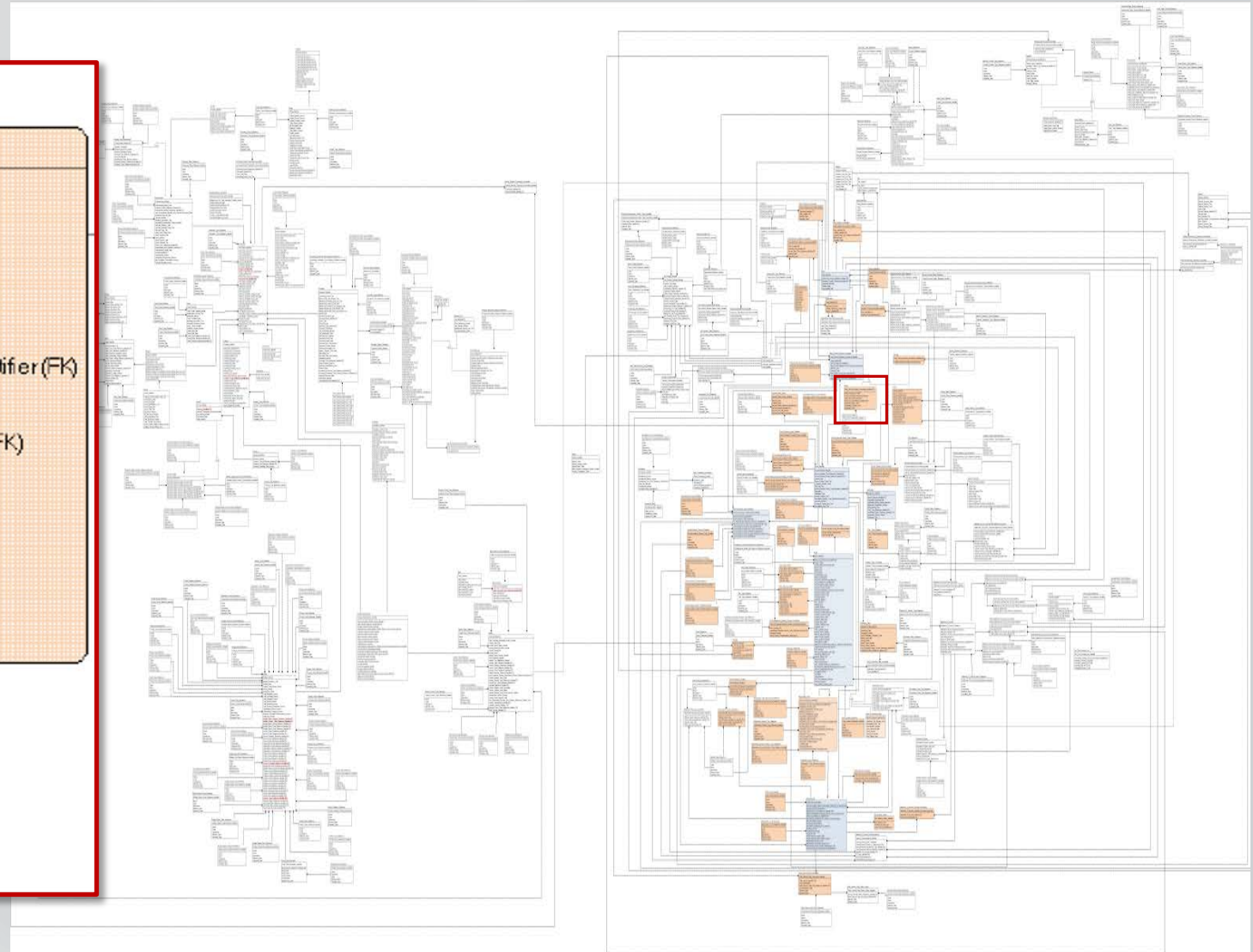
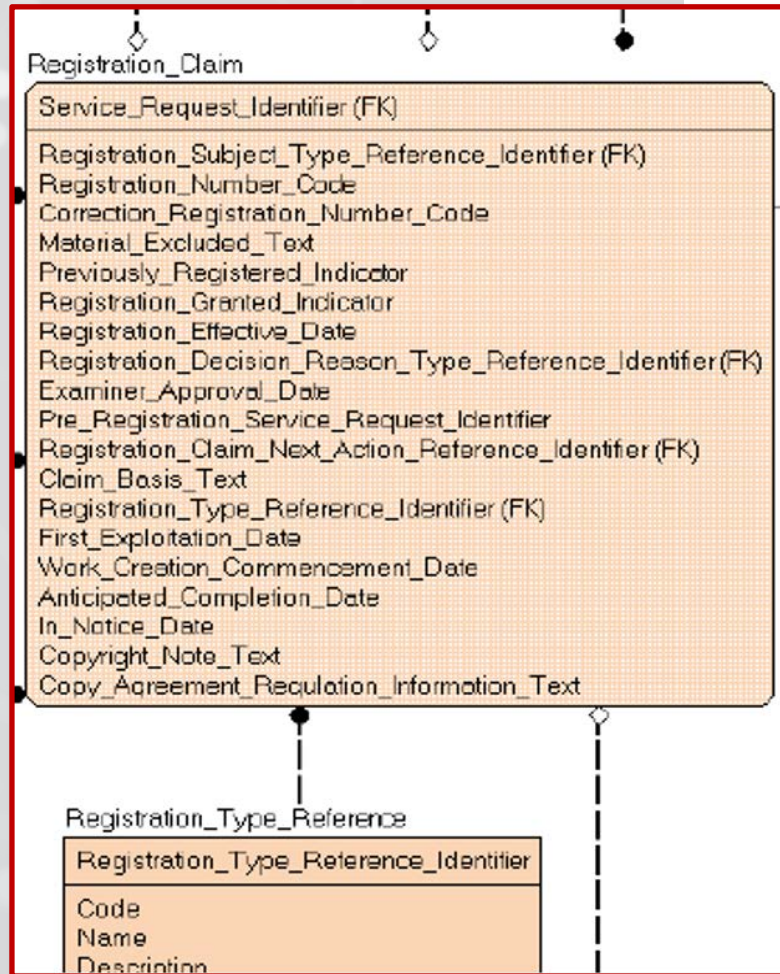
# COPYRIGHT REGISTRATION FLOW



# COPYRIGHT BUSINESS ARCHITECTURE



# ENTERPRISE DATA MODEL







Enterprise Data Model

The background of the image is a large, complex diagram of an Enterprise Data Model. It consists of numerous rectangular boxes, each representing a data entity or table, connected by a network of lines that indicate relationships between them. The diagram is spread across several sheets of paper, showing a dense and interconnected web of data elements.

Source to Target Map




The Source to Target Map is a document with a light blue background, featuring a grid of text. It appears to be a mapping document that links source data elements to target data elements, organized in a structured, tabular format.

Data Management Plan



The Data Management Plan is a document with a white background. It features the Library of Congress logo at the top left, followed by the title "US Copyright Office Data Management Plan" and the word "Final". Below this, it lists "Library of Congress, United States Copyright Office" and "US Copyright Office Data Management Plan Project LCLOC17Q0015". The date "May 29, 2018" is printed at the bottom.

Data Dictionary



The Data Dictionary is a document with a yellow background, containing a dense list of text. It likely provides definitions and details for the data elements used in the project, organized in a structured, tabular format.

# EXAMPLE REPORTS

### Fees

Select date range ▾

**Total Fees Received**

## 74.14k

#### Fees by Category of Work

Renewals bring in the largest amount of fees, significantly more than the next highest category of work, sound recordings.

#### Where Our Customers Are

Hover over points below to get more details about the fees and customers in that city.

#### Fees Received in 2018

There are clear peaks in revenue from fees over the year, which could indicate seasonal or cyclical trends. Historical data should be further explored to confirm.

[Back to Registrations](#)
[Reset Selections](#)
[Next: Employees](#)

### Registration

Select date range ▾

#### Registrations by Work Type

We see that serials and renewals are the officer's most popular registration types.

## Number of Copyrights Registered

# 1633

Knowing more about trends in registration claims can be a tool for USCO to identify bottlenecks in the registration process. In addition, they can access how registration rates change over time. Both of these insights will allow them to improve business processes.

Has the fee been received?	#	Has the deposit been received?	#
No	59	No	62
Yes	1574	Yes	1571
<b>Totals</b>	<b>1633</b>	<b>Total</b>	<b>1633</b>

#### Registrations Over Time

The number of registrations throughout the year stay constant, indicating no cyclical business patterns. There is a steep decrease in December that should be explored.

[Back to Registrations](#)
[Reset Selections](#)
[Next: Budget](#)

### Awaiting Action

This chart shows what proportion of open correspondence are awaiting library action and what proportion is awaiting customer response.

**Awaiting action from:**

**Correspondence Method**

Email

Mail

Phone

**Responding Employee**

Michael Moore

Victor Wood

Jeffrey Gonzalez

#### Correspondence Purpose \*

It is obvious that invalid addresses is what causes the most correspondence. This could mean that more data validation is needed prior to submitting registration applications. Select a category below to see more information.

#### Distribution of Days Open

The histogram below displays the average days that a correspondence is open and the distribution of days open.

[Back to Employees](#)
[Reset Selections](#)
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\* The data set contains negative or zero values that cannot be shown in this chart.

QUESTIONS?

**Copyright**  
United States Copyright Office



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### Copyright Modernization

#### What is Modernization?

Modernization is the Copyright Office-wide initiative to (1) build a new enterprise copyright system featuring a user-centered and flexible design, (2) streamline processes and policies, (3) improve access, and (4) reimagine the entire Office.

[Click here for more information about our modernization process.](#)

Modernization is transforming the Copyright Office  
[Attend our next webinar to learn more and ask questions](#)

#### What We're Working On

##### Comprehensive Access to Public Records

The U.S. Copyright Office has the largest collection of copyright records in the world. Members of the public seek out these records to find copyright owners and to get copies of completed and in-process registration records, recitation documents, and registration deposits. Because many of these records pertain to works under copyright protection, it is vital that the Office provide accurate and timely data. The Office is undertaking a holistic review of all of its public records and how to best provide access to those records.

The Office is in the process of transforming its historical records. We are converting the extensive, paper-based pre-1978 entries into digital format for improved public access, enhanced online search capabilities, and continued record preservation. As part of these overall efforts, the Office has launched a proof of concept Virtual Card Catalog that provides public access to images of the entire Copyright Card Catalog from 1870 through 1977. Additionally, the Office is working towards publishing as many additional historical records online as possible (including record books), which currently are physically housed in the Copyright Records Public Reading Room.

Additionally, the Office is transferring many of its records from legacy systems and making them more interactive and available. The Office is defining the new data elements and structure, which is intertwined with other modernization efforts such as the Enterprise Copyright System.

#### Resources

##### Documents

- [Copyright Office Modernization Quick Facts - March 2019](#)
- [Modified U.S. Copyright Office Provisional IT Modernization Plan](#)
- [Provisional Information Technology Modernization Plan and Cost Analysis](#)
- [Strategic Plan 2016-2020: Positioning the United States Copyright Office for the Future](#)
- [Transforming Document Recollection at the United States Copyright Office](#)
- [Registration Modernization Notice of Inquiry](#)
- [Copyright Office Modernization Efforts - 2018 Year in Review](#)
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(202) 707-3000 or 1 (877) 476-0778 (toll free)

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For More Information:  
[copyright.gov/copyright-modernization](https://copyright.gov/copyright-modernization)

Send Questions To:  
[askcmo@copyright.gov](mailto:askcmo@copyright.gov)