

An abstract graphic on the left side of the slide. It features a stylized city skyline with various rectangular buildings. From the base of these buildings, numerous lines (both solid and dashed) in red, orange, and blue radiate outwards and upwards, creating a sense of dynamic energy and connectivity. Small dots of the same colors are scattered along these lines and around the buildings.

Business Intelligence Tool Implementation

Copyright Office Modernization
Webinar Series

February 26, 2020

The webinar will begin
promptly at 12:00 pm EST

Copyright
United States Copyright Office

SUBMITTING QUESTIONS

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.

INTRODUCTION



Maria Strong

Acting Register of Copyrights
and Director of the U.S. Copyright Office

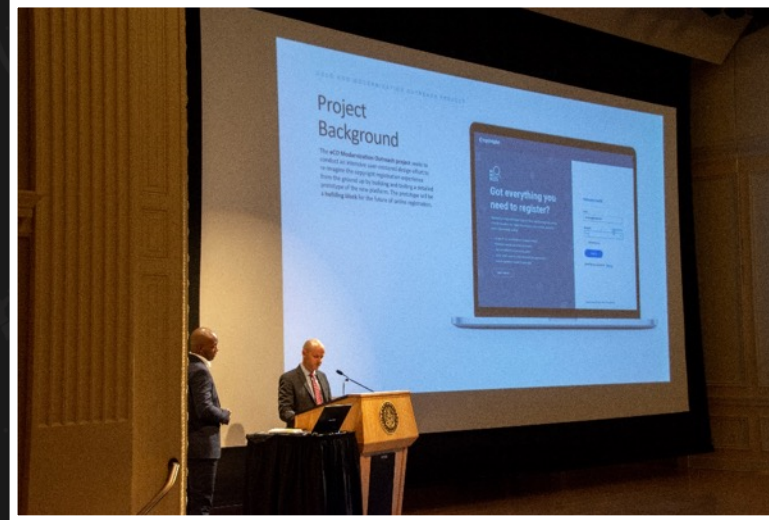
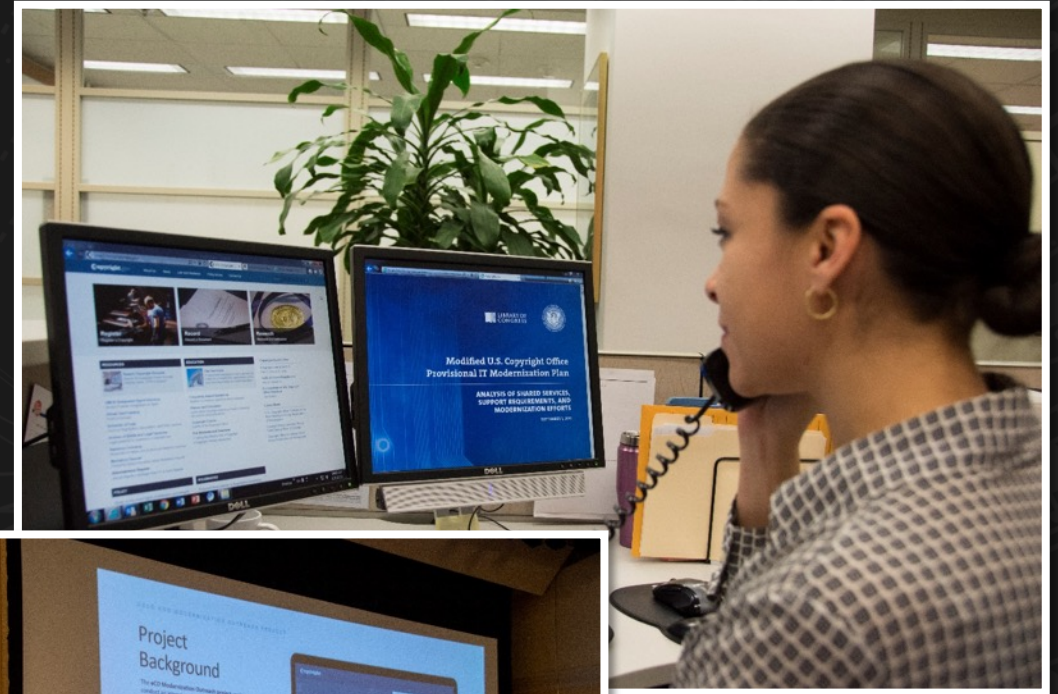


MODERNIZATION UPDATE



Ricardo Farraj-Feijoo

Director of the Copyright Modernization Office



BUSINESS INTELLIGENCE AT THE OFFICE



Jason Hosford

Data Manager

Our vision is to enable Office staff to discover real-time quantitative analysis through the upcoming business intelligence. This will promote:

- Evidence based decision making;
- Data availability, data transparency, data searchability;
- Identification of data gaps, issues, holdups, and resource crunches;
- Identification of areas for improvement, modification, and streamlining;
- Identification of key metrics and a greater understanding of Office processes and correspondence with the public.

WHAT IS BUSINESS INTELLIGENCE?



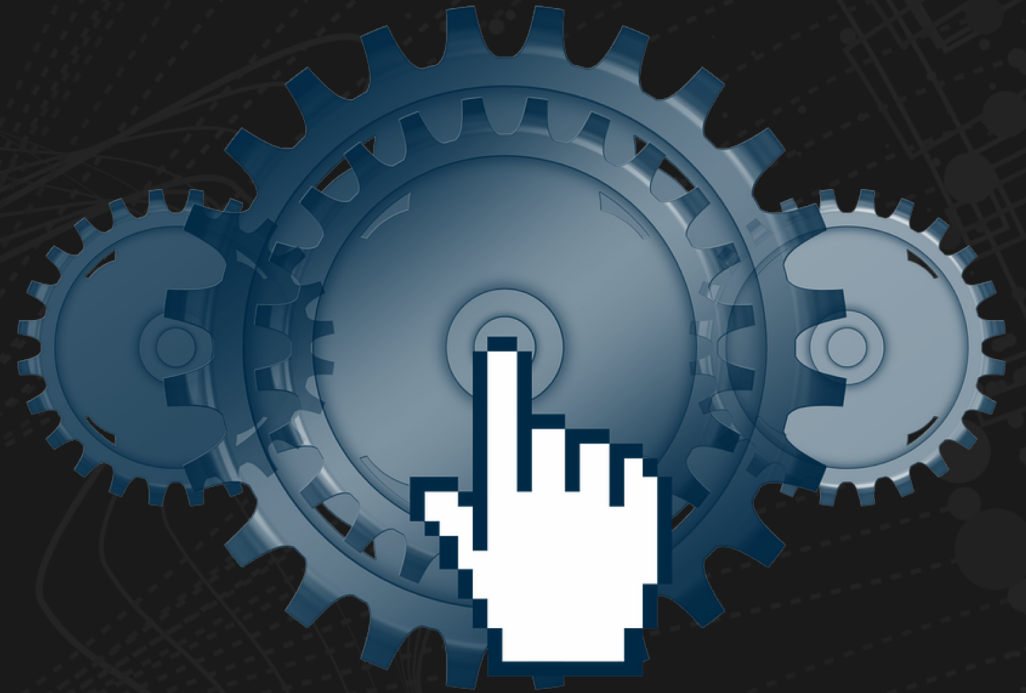
Suman Shukla

Data Management, Section Head

Business Intelligence is a technology driven process to **collect**, **curate**, and **disseminate** business information for data driven decision making. BI provides access to information and improves data literacy that helps in performance management and streamlining operations.

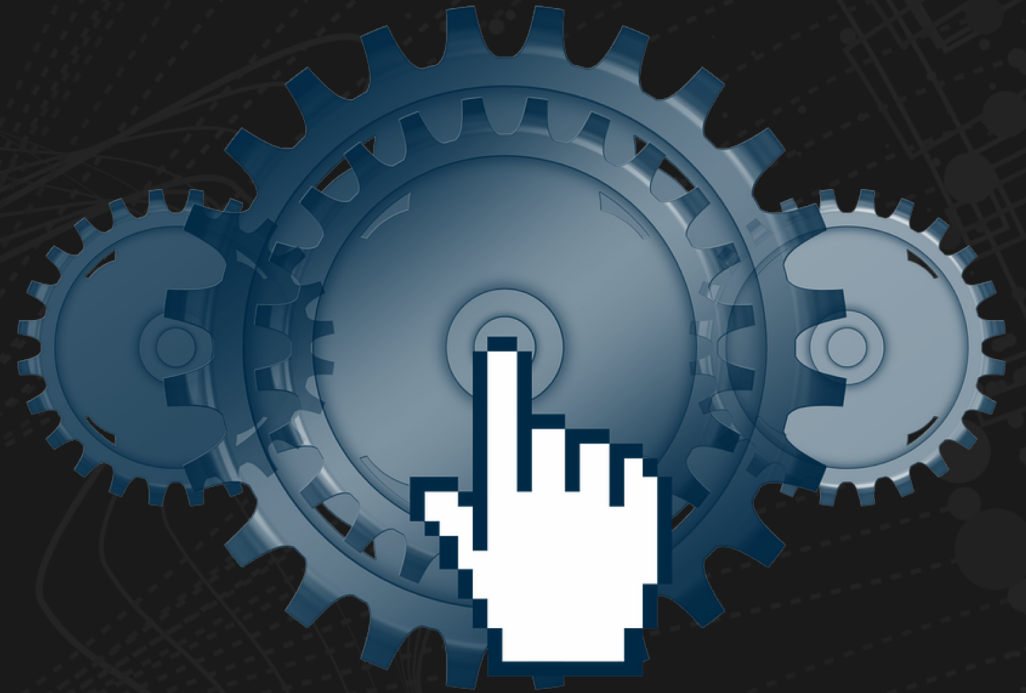
COMMON MANAGEMENT QUESTIONS

- Just show me what is important.
- Why are two people presenting same metrics with different numbers?
- We have tons of data, what can we do with it?
- How can we make fact based decisions?



WHAT BUSINESS INTELLIGENCE DOES

- **What questions do you want answered?** – reports/visualization/analytics
- **Why is it happening the way it is happening?** – drilling down the information, looking at road blocks, holds ups.
- **How to address the problem?** – identifying the problem areas. For example; improving performance by reducing cycle time, workload distribution for complex tasks, communication/correspondence issues, technology restrictions, and more.



BUSINESS INTELLIGENCE AT THE OFFICE


The Office has a need for a copyright enterprise-scale Business Intelligence (BI) and analytics capability to enable data-driven and fact-based decisions to support the ongoing modernization activities as well as delivering reporting services of the events, occurrences, and activities that can help improve copyright business process and customer satisfaction.

- Implement Business Intelligence Tool in the Copyright Office
- Create BI capabilities for analytics, visualizations, ad hoc reporting and dashboards.
- Train the trainers.



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Pick a Date Range

 Select date range ▼

Registrations by Work Type

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



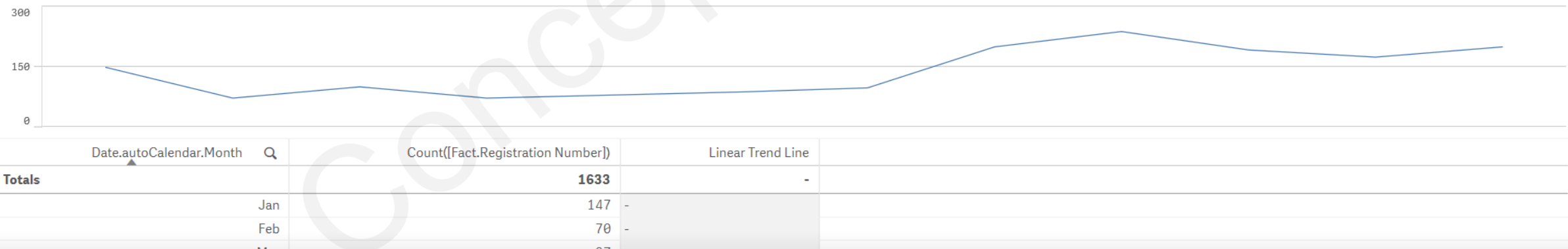
Number of Copyrights Registered

1.63k

Has the fee been received?	Q	#	Has the deposit been recieved?	Q	#
No		59	No		62
Yes		1574	Yes		1571
Totals		1633	Total		1633

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.



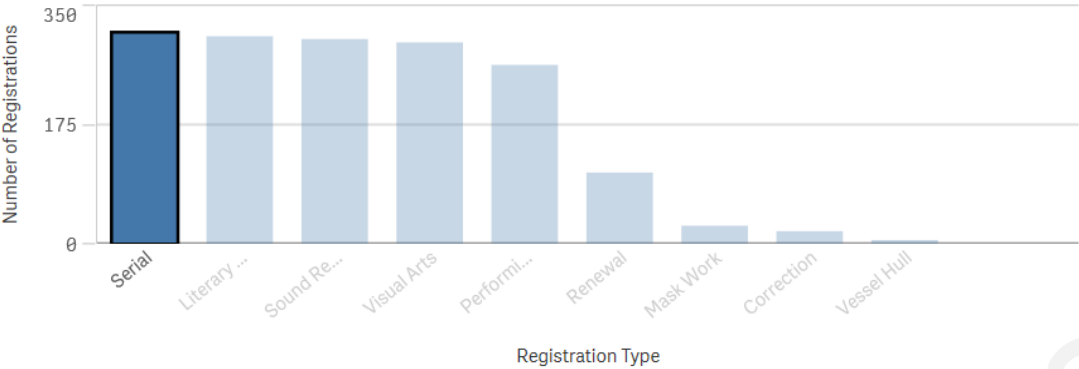
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Pick a Date Range



Registrations by Work Type

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

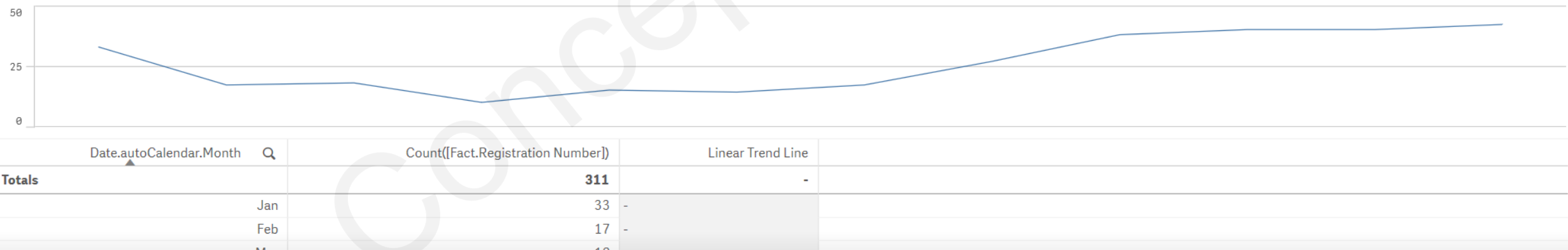


Number of Copyrights Registered
311

Has the fee been received?	Q	#	Has the deposit been recieved?	Q	#
No		9	No		13
Yes		302	Yes		298
Totals		311	Total		311

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.



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Registration

Pick a Date Range

📅

Select date range ▾

Number of Copyrights Registered

59

Registrations by Work Type

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

Number of Registrations

Visual Arts

Sound Re...

Literary ...

Serial

Performi...

Renewal

Mask Work

Correction

Registration Type

Has the fee been received?

No

Yes

Totals

#

59

1574

1633

Has the deposit been recieved?

No

Yes

Total

#

8

51

59

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.

Date:autoCalendar.Month

Totals

Jan

Feb

...

Count([Fact.Registration Number])

59

6

2

...

Linear Trend Line

-

-

-

...

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Pick a Date Range

Select date range

Total Fees Received

\$XX,XXX

Fees by Category of Work *

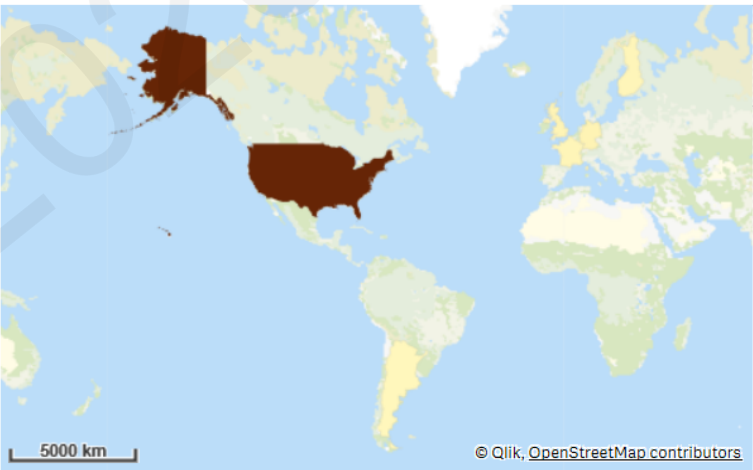
Renewals bring in the largest amount of fees, significantly more than the next highest category of work, sound recordings.



* The data set contains negative or zero values that cannot be shown in this chart.

Where Our Customers Are

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

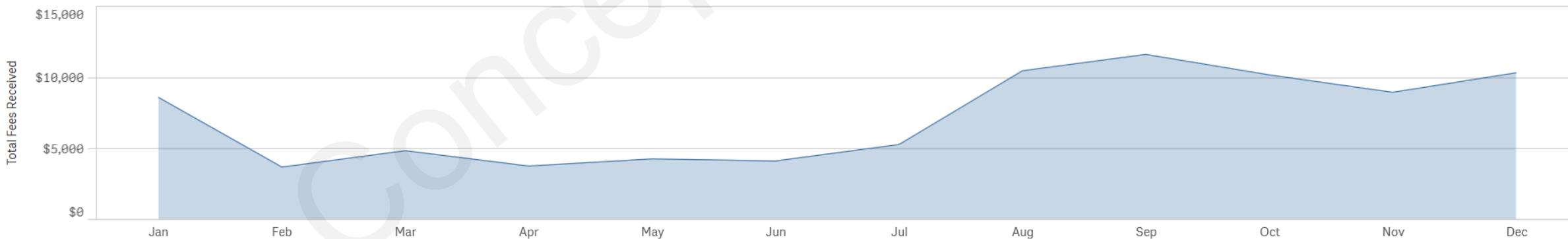


Select one country to see the cities

Select the USA to see Congressional Districts

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.



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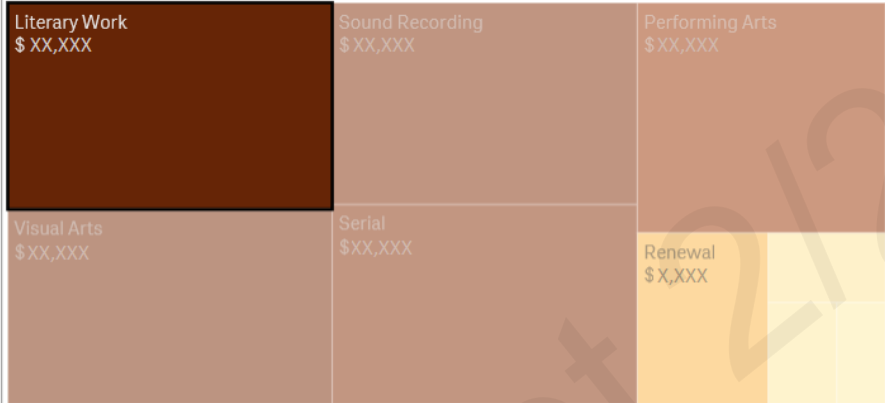
Pick a Date Range

Select date range

Total Fees Received
\$XX,XXX

Fees by Category of Work *

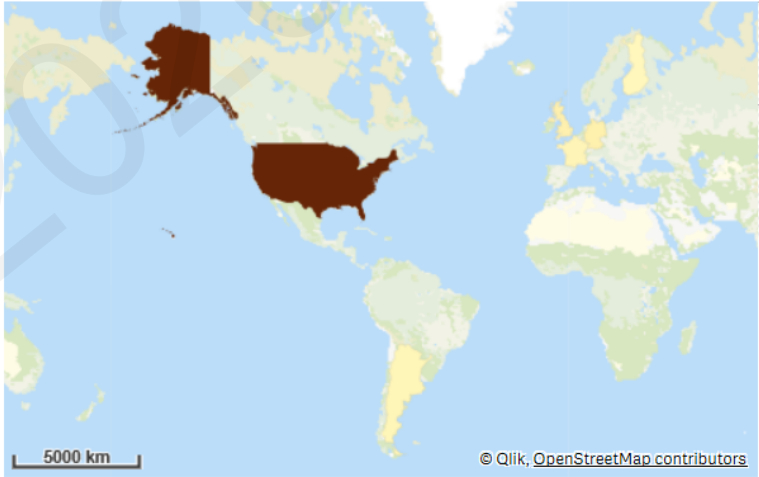
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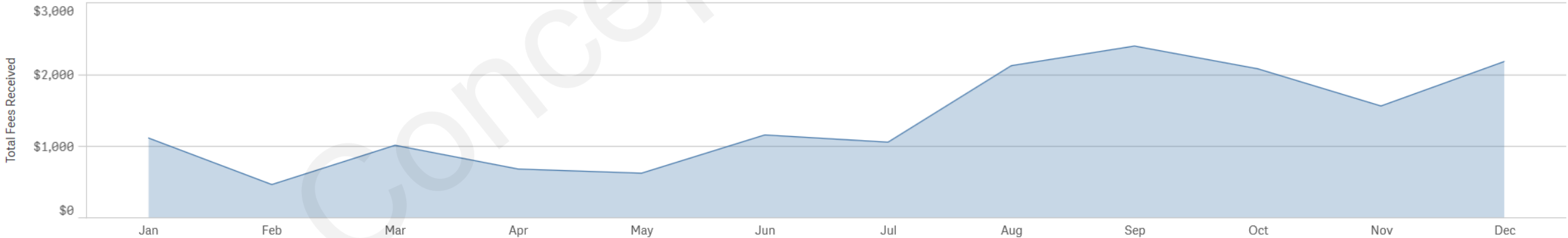


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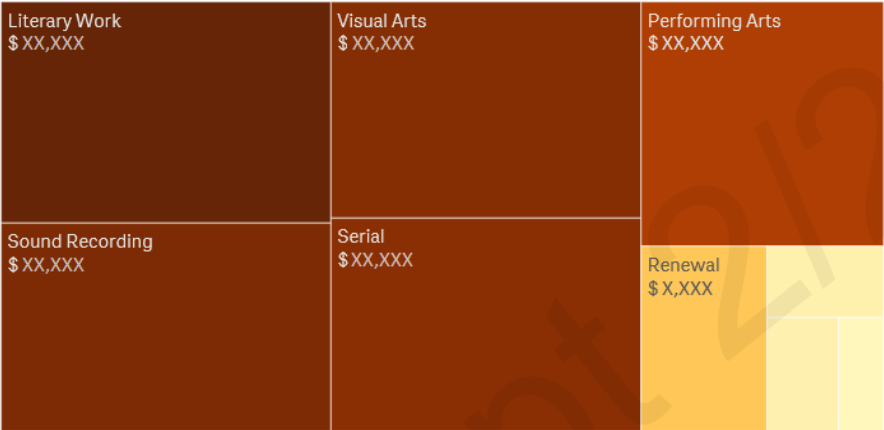
Select date range

Total Fees Received

\$XX,XXX

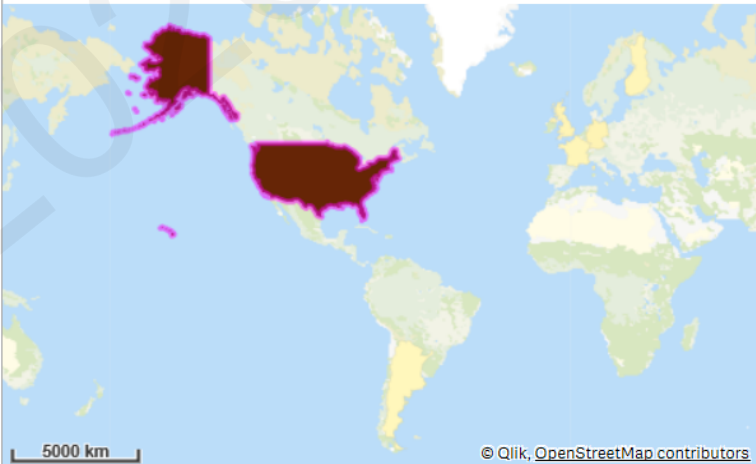
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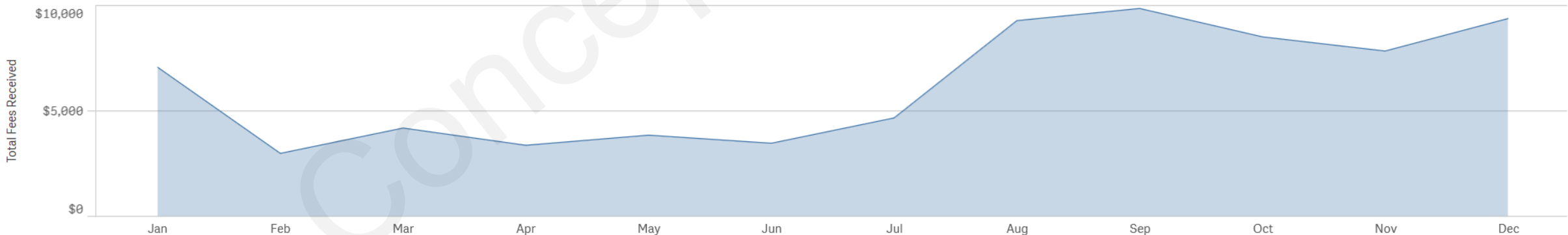
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Employees

Pick a Date Range

📅

Select date range ▾

Employee Name

Select an employee by name to see performance metrics.

🔍

Employee Name

Mina Harker

Lucy Westenra

Abraham Van Helsing

Team

Select below to see employee metrics aggregated by team.

🔍

A

B

C

Employee ID

Select an employee by login id.

🔍

mhark

lwest

helsing

Registrations Handled

The number below represents how many registrations a selected employee or team processed in 2018-2019. Over this time period, 1,633 registrations were processed.

Registrations Handled

1.63k¹¹²

Incomplete Registrations

Correspondence Method

Tracking phone and mail correspondence is a manual process,

Phone

28.1%

48.1%

23.9%

Mail

Email

Correspondence Pending

70

Purpose of Correspondence *

Analyzing the purpose of correspondence may shed light on areas of the application process that could be improved to prevent future correspondence.

Invalid Address

91

Incorrect Information

84

Missing Fee

43

Missing Deposit

39

Missing Multiple Parts

9

Missing Application

5

* The data set contains negative or zero values that cannot be shown in this chart.

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Disclaimer: numbers and data are manufactured for visualization purposes only and do not reflect actual data.

Pick a Date Range

Select date range

Employee Name

Select an employee by name to see performance metrics.

Employee Name

Mina Harker

Lucy Westenra

Abraham Van Helsing

Team

Select below to see employee metrics aggregated by team.

A

B

C

Employee ID

Select an employee by login id.

mhark

lwest

helsing

Registrations Handled

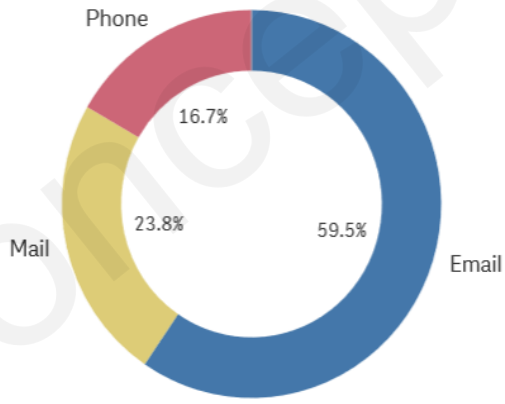
The number below represents how many registrations a selected employee or team processed in 2018-2019. Over this time period, 1,633 registrations were processed.

Registrations Handled

35²⁰
Incomplete Registrations

Correspondence Method

Tracking phone and mail correspondence is a manual process,

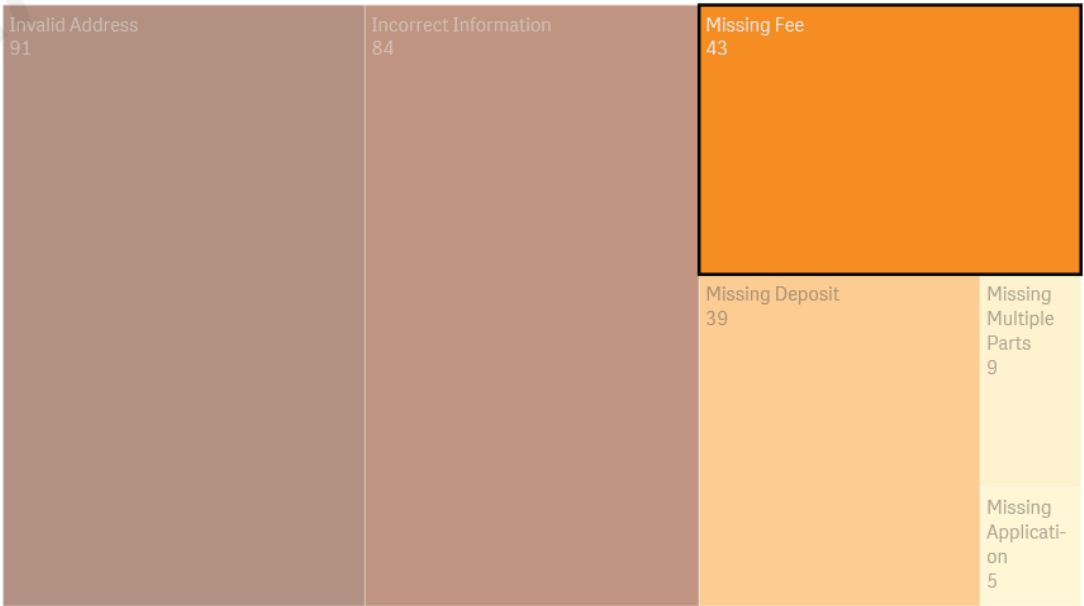


Correspondence Pending

27

Purpose of Correspondence *

Analyzing the purpose of correspondence may shed light on areas of the application process that could be improved to prevent future correspondence.



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Employee Name

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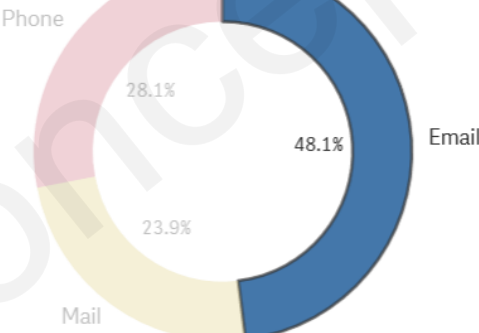
Registrations Handled

277³⁶

Incomplete Registrations

Correspondence Method

Tracking phone and mail correspondence is a manual process.

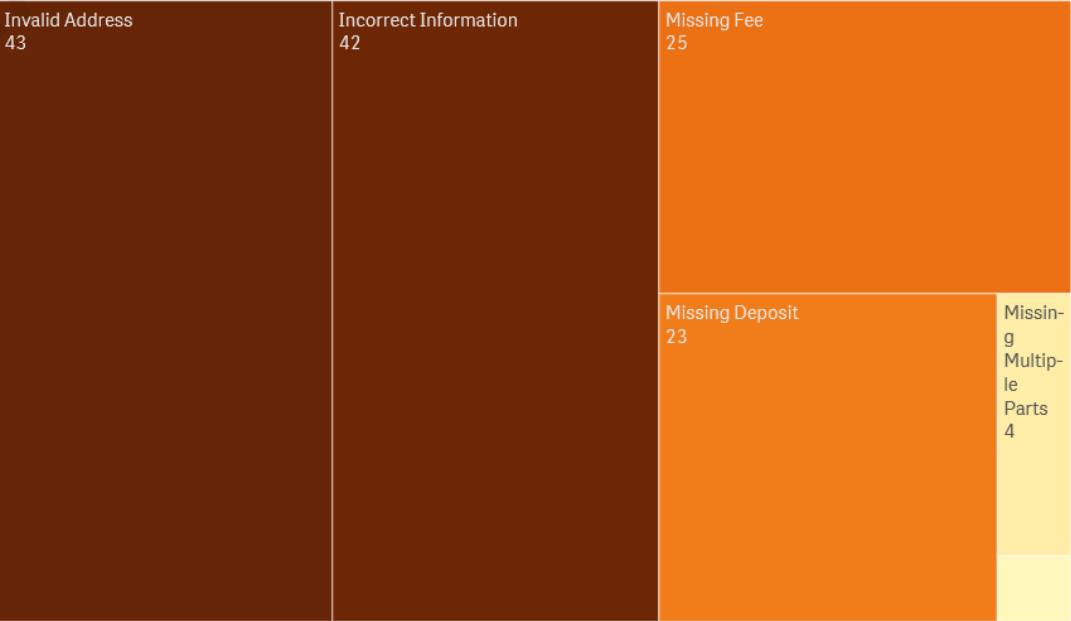


Correspondence Pending

45

Purpose of Correspondence

Analyzing the purpose of correspondence may shed light on areas of the application process that could be improved to prevent future correspondence.

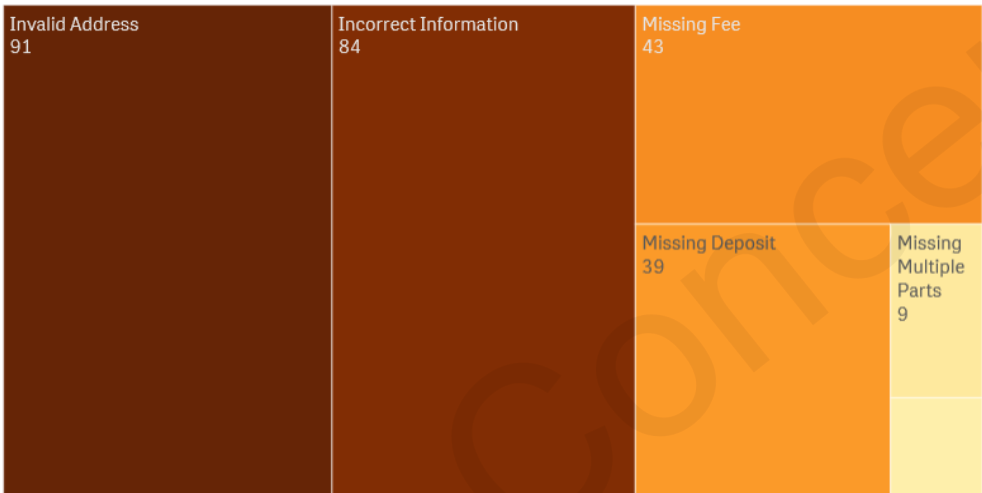


Average Days to Resolve

50.79

Correspondence Purpose *

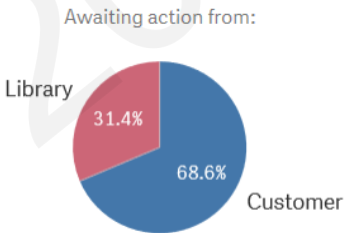
It is obvious that invalid addresses is what causes the most correspondence. This could mean that more data validation is needed prior to submitting registration applications. Select a category below to see more information.



* The data set contains negative or zero values that cannot be shown in this chart.

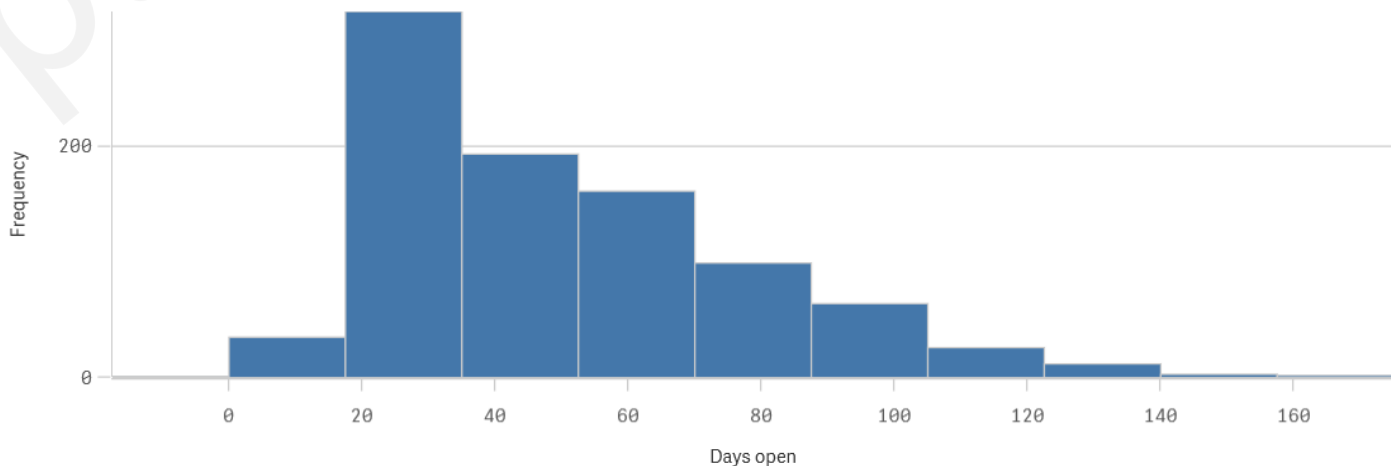
Awaiting Action

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



Distribution of Days Open

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



Correspondence Method

Email

Mail

Responding Employee

Mina Harker

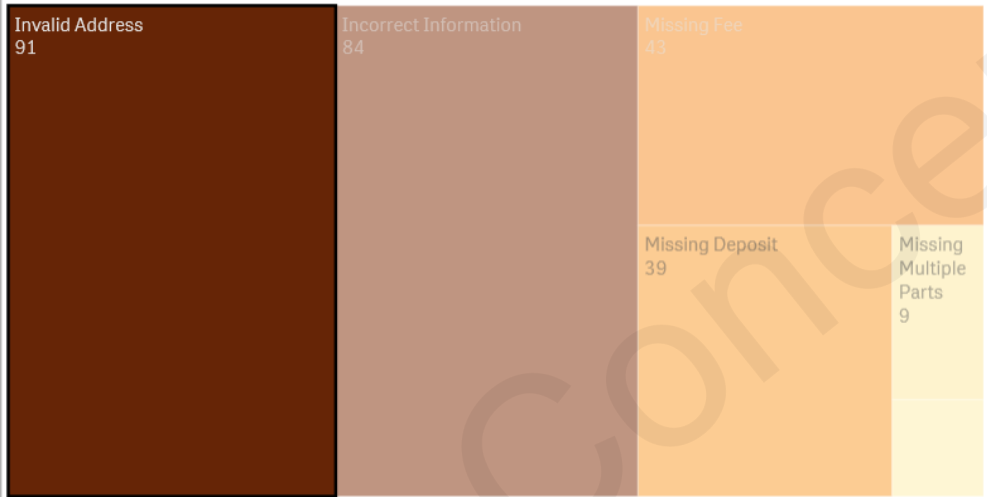
Lucy Westenra

Average Days to Resolve

52.8

Correspondence Purpose *

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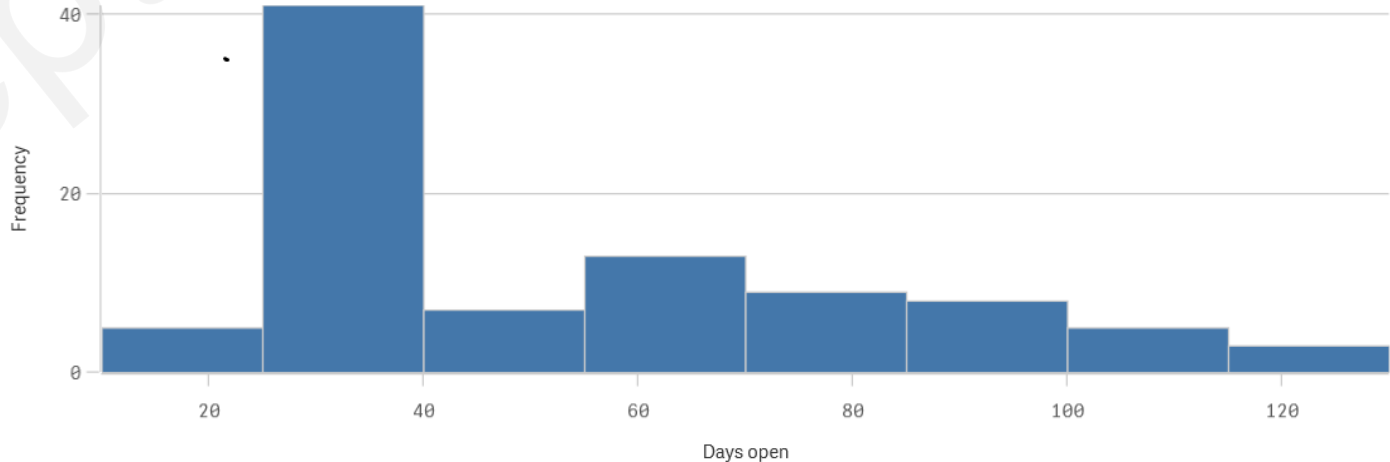
Awaiting Action

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

The chart is not displayed because it contains only negative or zero values.

Distribution of Days Open

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



Correspondence Method

Email

Mail

Responding Employee

Mina Harker

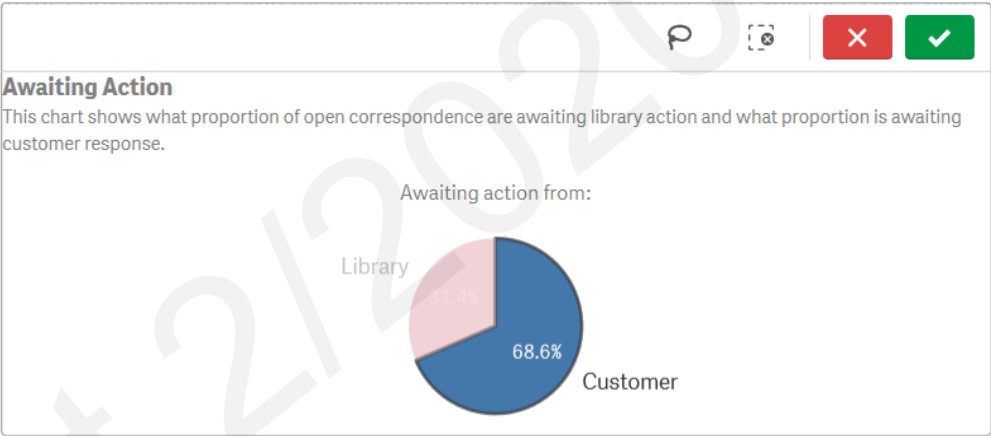
Lucy Westenra

Average Days to Resolve

44.73

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.



Correspondence Method

Email

Mail

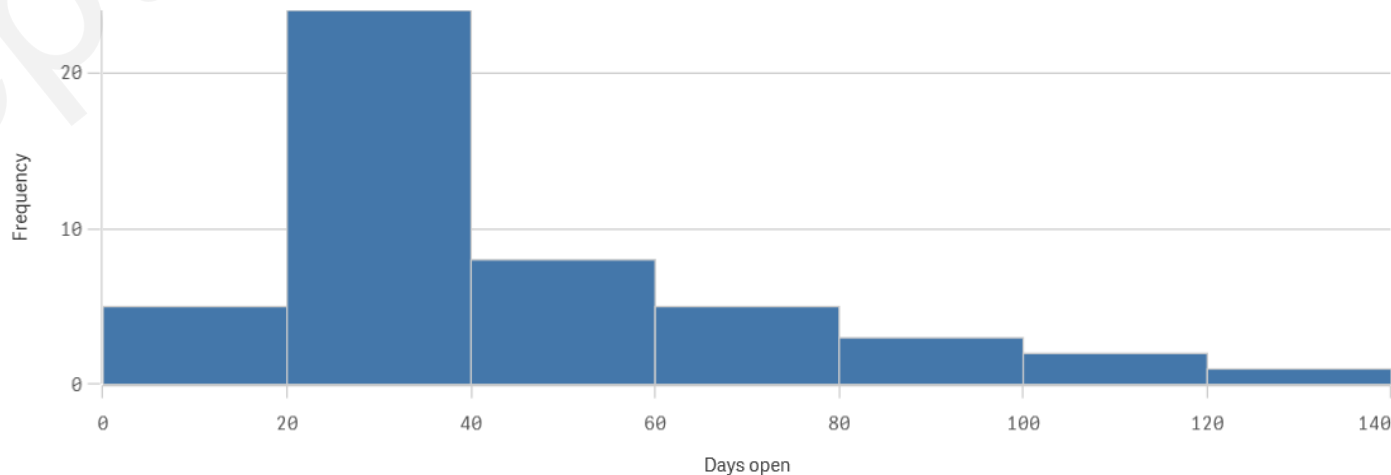
Responding Employee

Mina Harker

Lucy Westenra

Distribution of Days Open

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



BENEFITS OF USING BUSINESS INTELLIGENCE

- **Valuable business insights** – highlights what is working and what needs improvement.
- **Fast and accurate reporting** – business can act quickly based on real time, relevant information presented in an easy to read format.
- **Increased revenue** – important goal for decision making, BI helps ask better questions about why things happened by comparing information.
- **Customers are valued partners** – listening to the customer helps understand customer behavior and inform recentness, frequency, and correspondence methods to better serve their needs.



Questions?

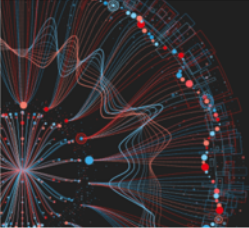
To submit a question, use the Q&A dialog box in the lower right corner.

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

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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
- Enterprise Copyright System
- Outreach
- Business Process Reengineering
- Data Management Initiative



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101 Independence Ave. S.E.
Washington, D.C. 20559-6000
(202) 707-3000 or 1 (877) 476-0778 (toll free)

Library of Congress | Congress.gov | USA.gov | FOIA | Legal | Privacy Policy

Learn More

For More Information:

copyright.gov/copyright-modernization

Send Questions To:

askcmo@copyright.gov