

# William's Update

## Remittances

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### Abstract

This document is a follow-up to the meeting on September 29th and addresses the items discussed during that meeting. This provides an update on who was contacted regarding the remittance datasets, offers updates on previously problematic pdf file links, and clarifies how the stablecoin/bitcoin cross-border flows dataset works. Most importantly, this presents the extracted remittance data from Remitscope.

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## 1 Data Update

- I have contacted two authors from [Defying the Odds: Remittances During the COVID-19 Pandemic](#)
- The Remitscope data is reliable but incomplete
- [Defying the Odds: Remittances During the COVID-19 Pandemic](#) provides additional data to the Remitscope data.
- I am currently requesting acces to their dataset so that we can merge their dataset (2018-2020) to ours (2019-2024)

## 2 Data Analysis Results

### 2.1 Overview

This analysis examines remittance flows using data extracted from Remitscope, covering 728 remittance records from 2019-2024.

#### 2.1.1 Data Completeness Summary

- **Total records:** 728
- **Date range:** 2019 - 2024
- **Sending countries:** 206 (good global coverage)
- **Receiving countries:** 20 (limited coverage - only 10.3% of world)

### 2.2 Interactive Visualizations

### 2.3 Sending Countries Analysis

The remittance data shows a global distribution of sending countries, with developed nations dominating the top positions:

#### 2.3.1 Top 10 Sending Countries

Sending Country	Records
Canada	18
Italy	15
United States of America	15
Spain	14
France	14
Germany	14
United Kingdom	12
China	11
Sweden	10
Switzerland	10

2.4 Receiving Countries Analysis

The receiving countries show a strong concentration in Latin America:

2.4.1 Top 10 Receiving Countries

Receiving Country	Records
Ecuador	183
Mexico	169
Panama	102
Senegal	38
Kenya	34
Colombia	32
Uganda	20
Chile	19
Morocco	19
Ethiopia	17

2.5 Temporal Distribution

The data collection shows significant variation across years:

2.5.1 Records by Year

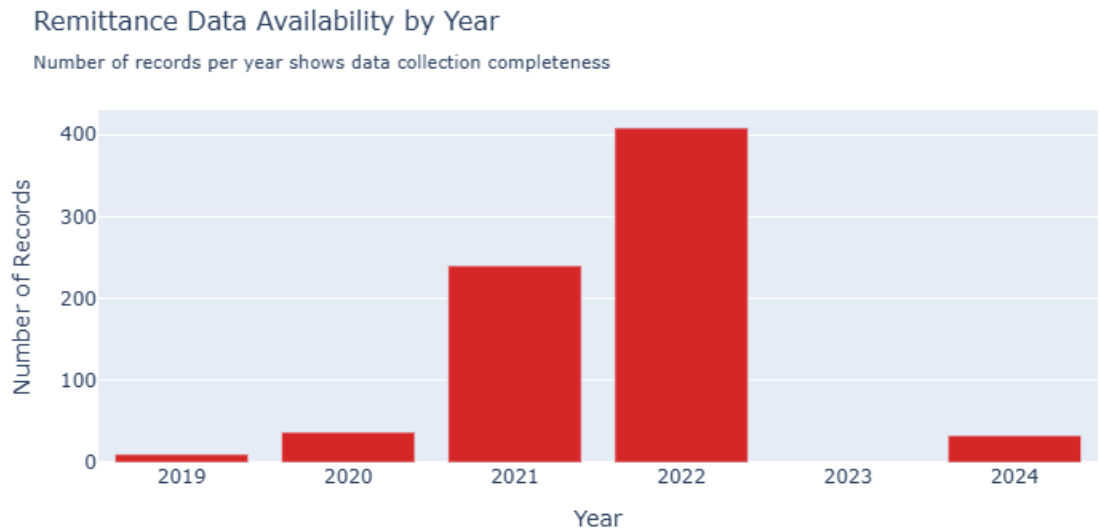


Figure 1: Records by Year

**Note:** 2023 data is completely missing from the dataset.

2.6 Key Findings

- **Peak Collection:** 2022 shows the highest data collection with 408 records

- **Geographic Concentration:**
  - **Sending:** Distributed globally across 206 countries (developed nations leading)
  - **Receiving:** Highly concentrated with top 3 countries (Ecuador, Mexico, Panama) accounting for 454/728 records (62.4%)
- **Regional Focus:** Strong emphasis on Latin American remittance corridors
- **Data Gaps:** Missing 2023 data suggests collection challenges or reporting delays

## 2.7 Access to Full Analysis

For complete interactive analysis including: - **Geographic flow maps** with curved connection lines - **Choropleth maps** showing country-level distributions - **Enhanced diagnostic views** for small flows - **Comparative visualizations** (top 50 vs complete coverage)

Please access the HTML files in: C:\Users\clint\Desktop\RER\\_output\exported\_figures\

# 3 Visual Analysis

## 3.1 Geographic Distribution

### 3.1.1 Sending Countries Analysis

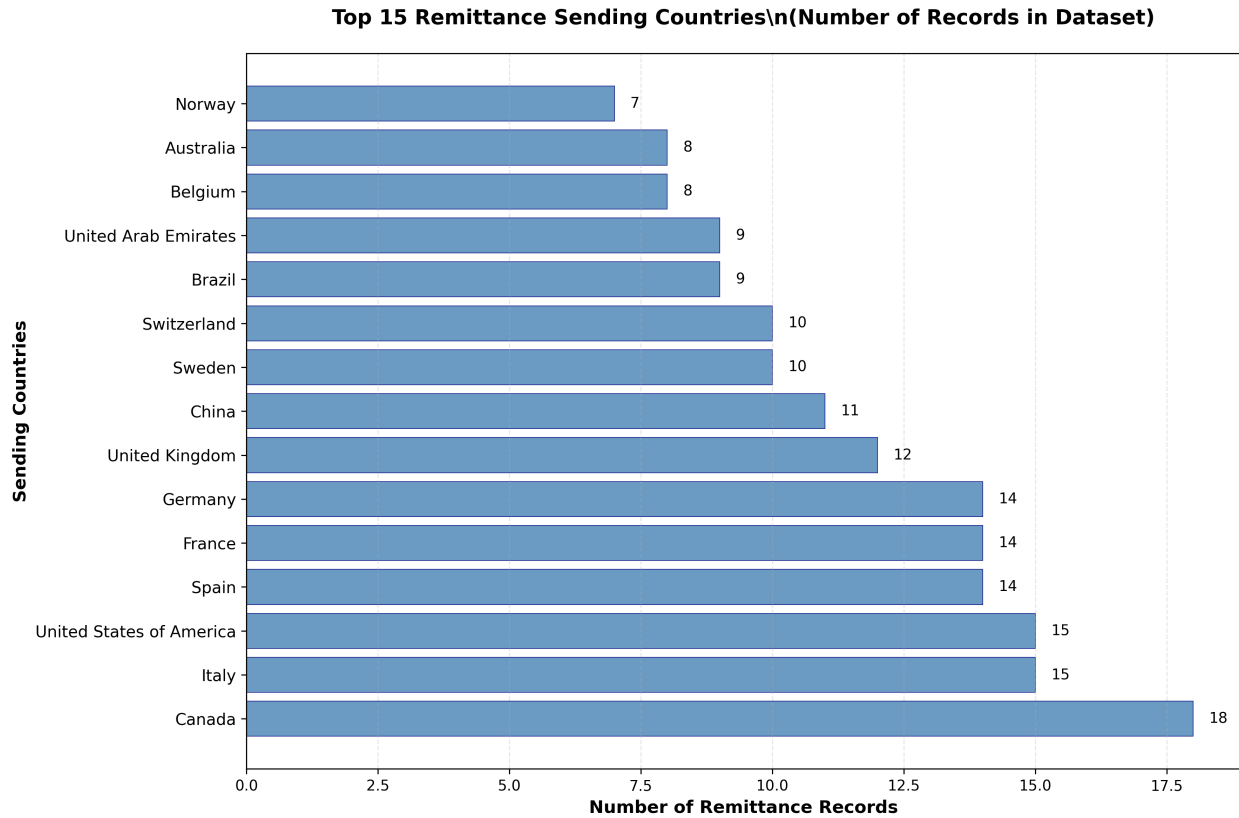


Figure 2: Top 15 Remittance Sending Countries

The analysis reveals that developed nations dominate remittance sending, with Canada leading at

18 records, followed by Italy, USA, Spain, France, and Germany each contributing 14-15 records.



Tip

**Interactive Version Available**

For the full interactive choropleth map with hover details and zoom capabilities, open: [\\_output/exported\\_figures/01\\_sending\\_countries\\_choropleth.html](#)

**3.1.2 Receiving Countries Analysis**

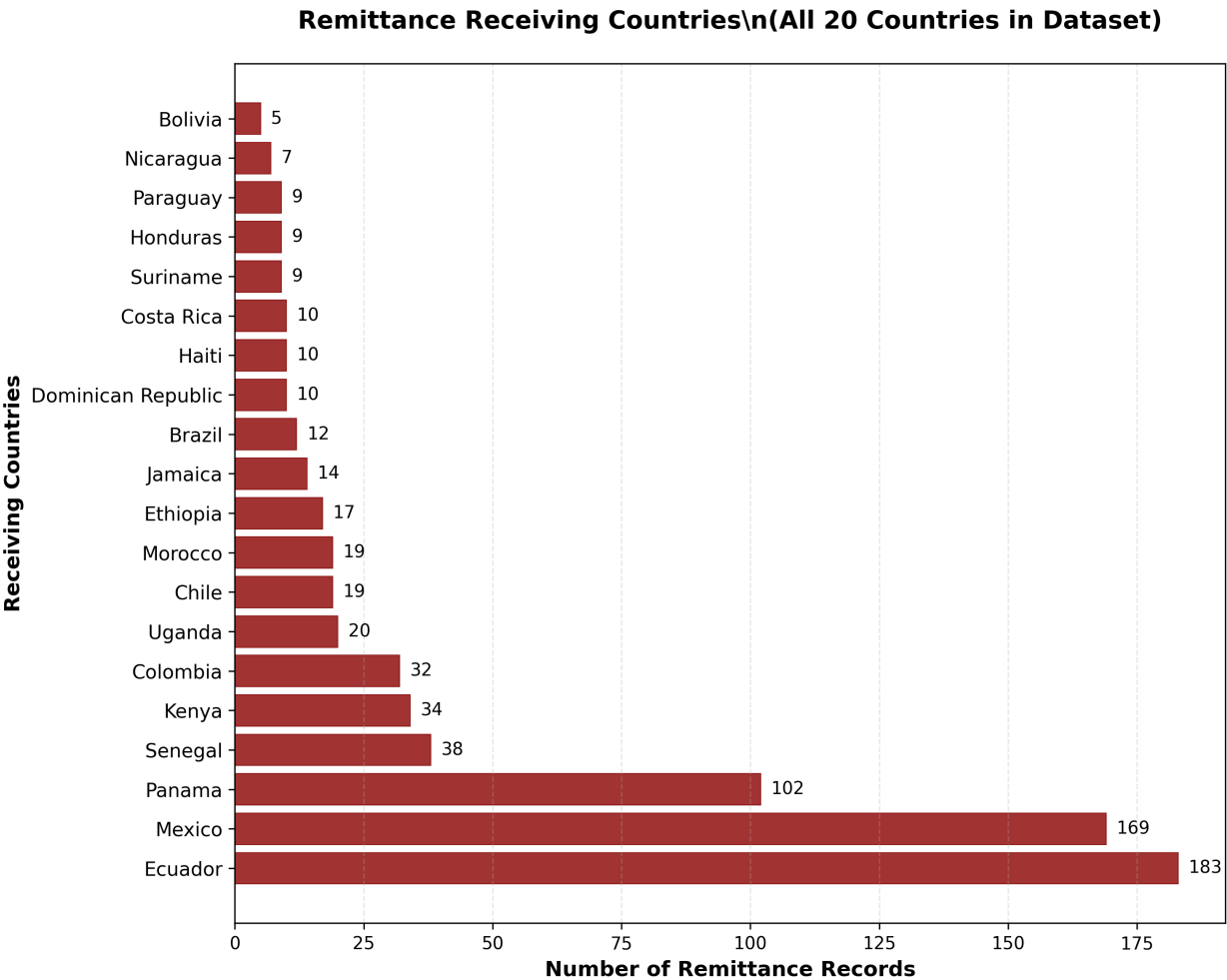


Figure 3: All 20 Remittance Receiving Countries

The receiving countries show strong concentration in Latin America, with Ecuador (183 records) and Mexico (169 records) dominating the dataset.



Tip

**Interactive Version Available**

For the full interactive choropleth map, open: [\\_output/exported\\_figures/02\\_receiving\\_countries\\_choropl](#)

## 3.2 Temporal Analysis

### 3.2.1 Data Availability Over Time

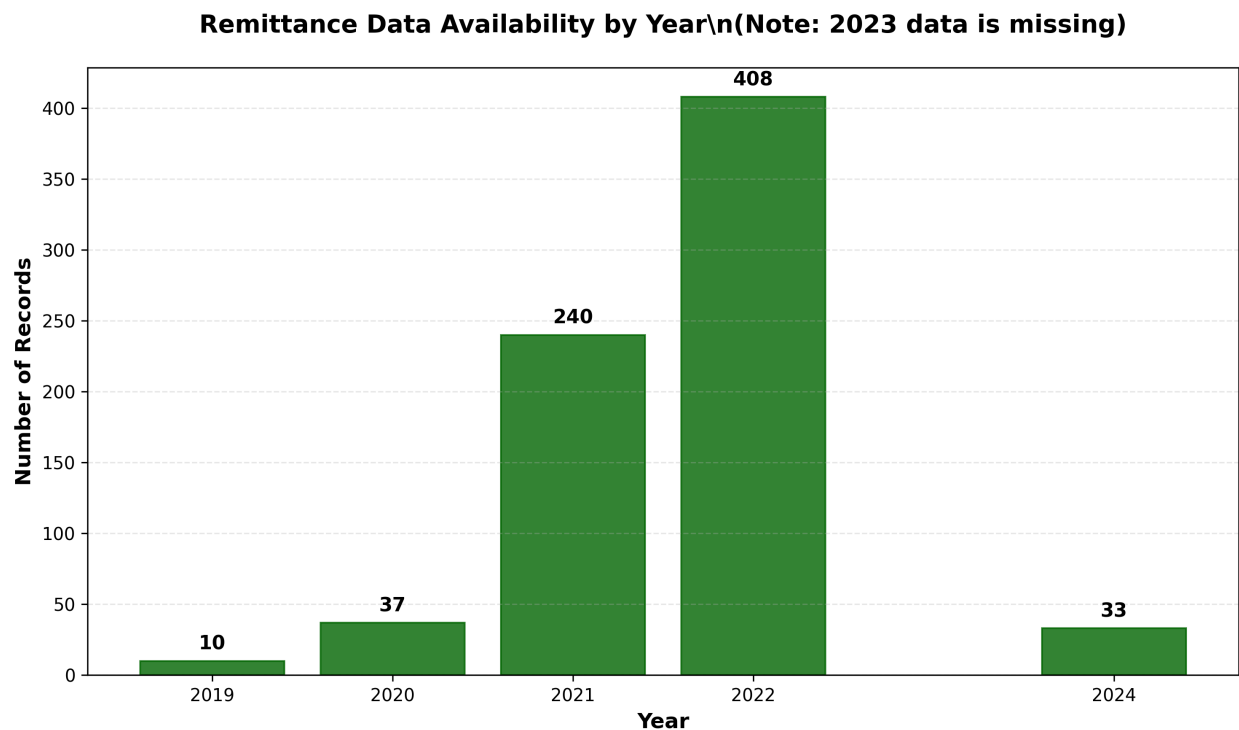


Figure 4: Remittance Data by Year

The temporal distribution shows 2022 as the peak year with 408 records, while 2023 data is completely missing from the dataset.



Tip

#### Interactive Version Available

For the interactive temporal chart, open: [\\_output/exported\\_figures/03\\_temporal\\_bar\\_chart.html](#)

### 3.2.2 Detailed Temporal Patterns

#### 3.2.2.1 Receiving Countries by Year

#### 3.2.2.2 Sending Countries by Year

## 3.3 Flow Network Analysis

### 3.3.1 Network Overview

The remittance network shows a many-to-few pattern: 206 sending countries directing flows to just 20 receiving countries.

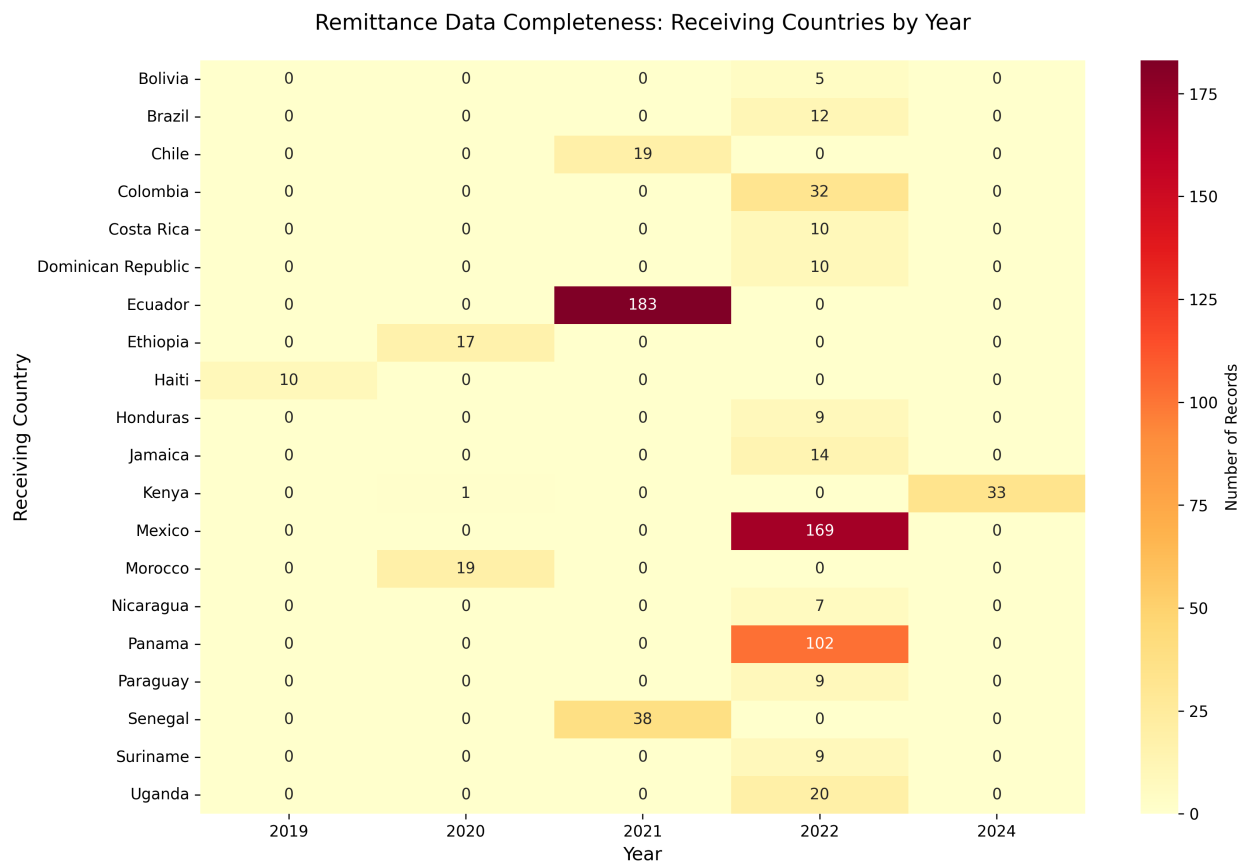


Figure 5: Receiving Countries Temporal Heatmap

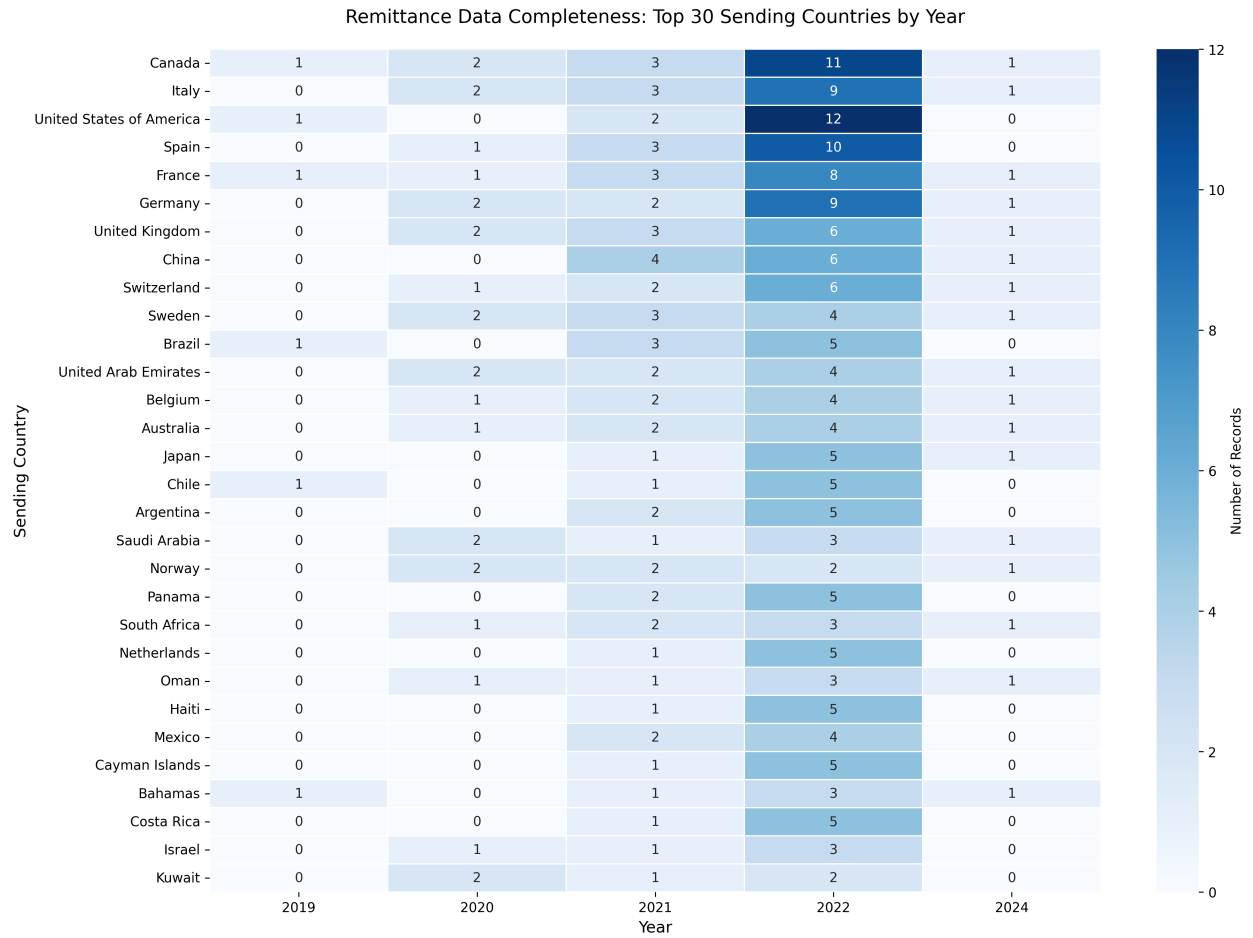


Figure 6: Top 30 Sending Countries Temporal Heatmap

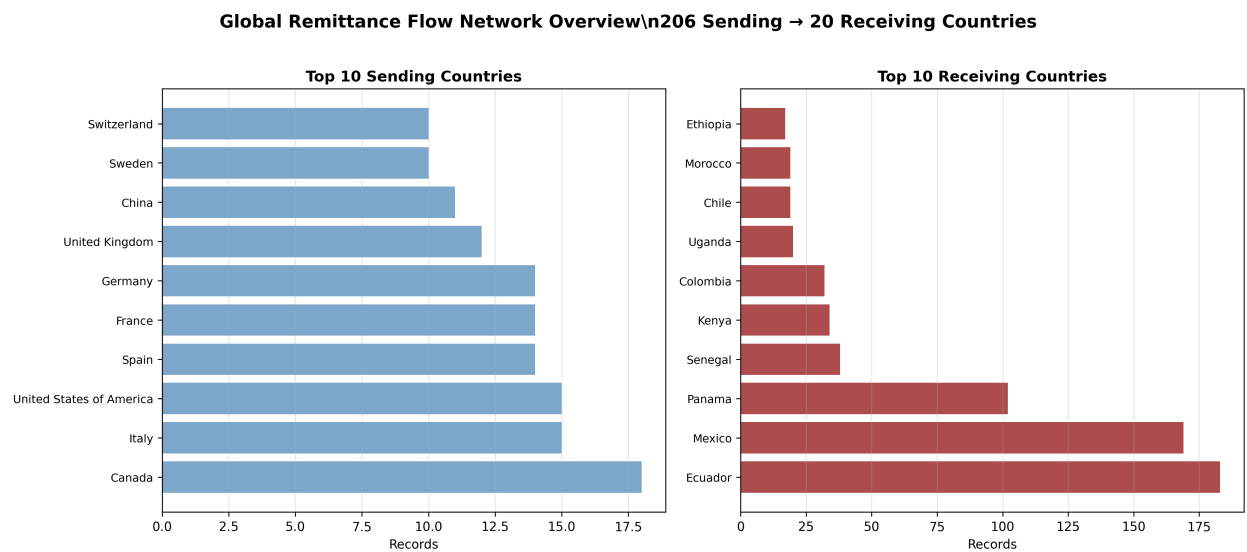


Figure 7: Global Remittance Network Overview



## ! Important

### Complete Flow Analysis Available

The static images above provide an overview, but the full flow analysis includes:

- **Initial Flow Map (Top 50):** 04\_initial\_flow\_map\_top50.html
- **Complete Flow Map (All 728):** 05\_complete\_flow\_map\_all728.html
- **Enhanced Coordinate Coverage:** 06\_updated\_flow\_map\_expanded\_coords.html
- **Final 100% Coverage Map:** 07\_final\_flow\_map\_100percent\_coverage.html
- **Diagnostic Enhanced Visibility:** 08\_diagnostic\_enhanced\_visibility.html
- **Comparative Analysis:** 09\_comparison\_top50\_vs\_all\_flows.html

These interactive maps feature: - Curved flow lines between countries - Great circle path calculations - Zoom and pan capabilities - Hover details for each flow - Enhanced visibility for small flows

## 3.4 Key Insights

### 3.4.1 Geographic Patterns

- **Sending Concentration:** Developed nations (G7 countries) account for majority of sending records
- **Receiving Concentration:** Latin America dominates with Ecuador, Mexico, and Panama representing 62.4% of all records
- **Global Coverage:** 206 sending countries provide good global representation

### 3.4.2 Temporal Patterns

- **Peak Activity:** 2022 shows maximum data collection (408 records)
- **Data Gaps:** Complete absence of 2023 data suggests collection challenges
- **Growth Pattern:** Steady increase from 2019 (10) to 2022 (408)

### 3.4.3 Network Structure

- **Flow Direction:** Strong unidirectional pattern from developed to developing nations
- **Corridor Concentration:** Major corridors focus on Latin American destinations
- **Diaspora Patterns:** Reflects global migration and diaspora settlement patterns