

# William's Update

## Remittances

William Clinton Co

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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 waiting for access to their dataset so that we can merge their dataset (2018-2020) to ours (2019-2024)
- It may be worth considering looking at each website and work on that.

### 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
- **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

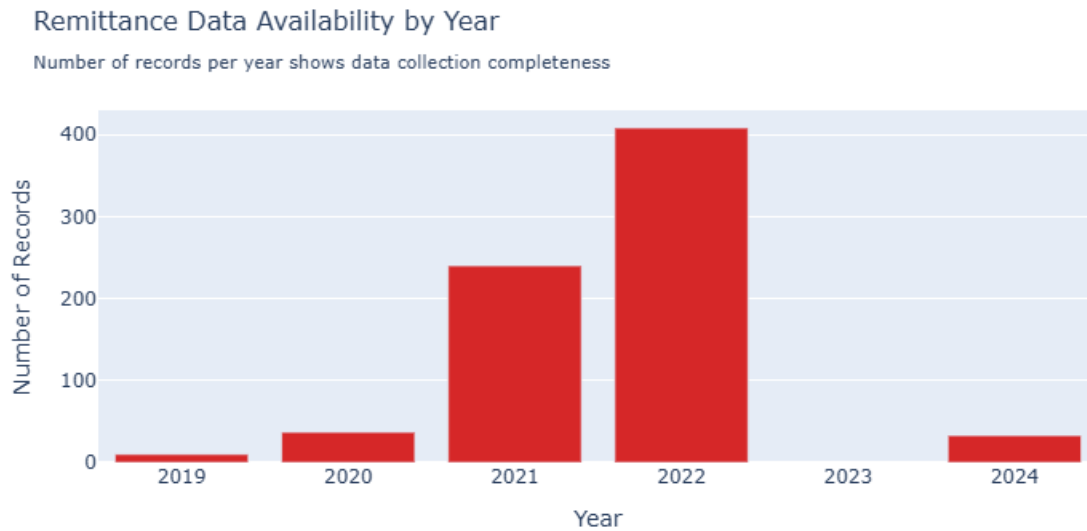


Figure 1: Records by Year

**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%)

Please access the HTML files in: [output\exported\\_figures\](#)

### 3 Visual Analysis

#### 3.1 Sending Countries Analysis

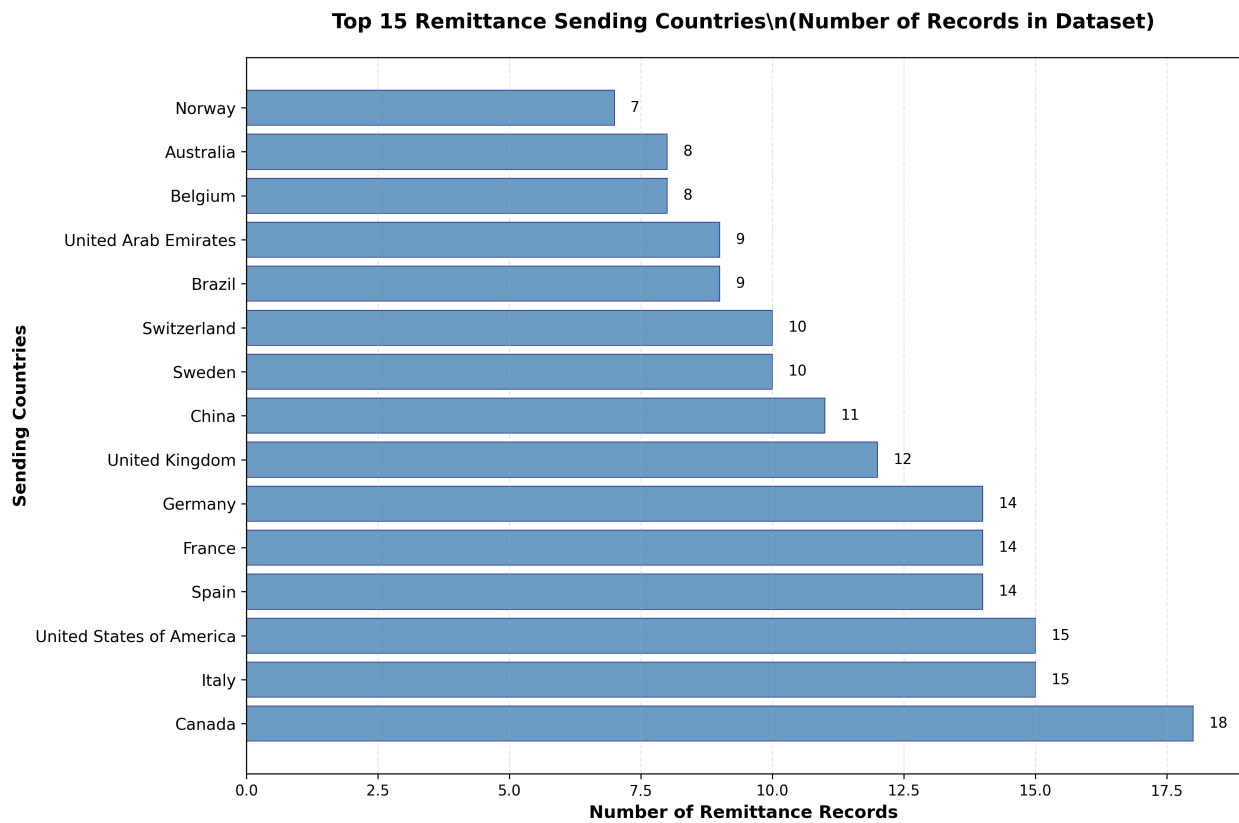


Figure 2: Top 15 Remittance Sending Countries

### Remittance Data Availability: SENDING Countries

Number of remittance records by sending country

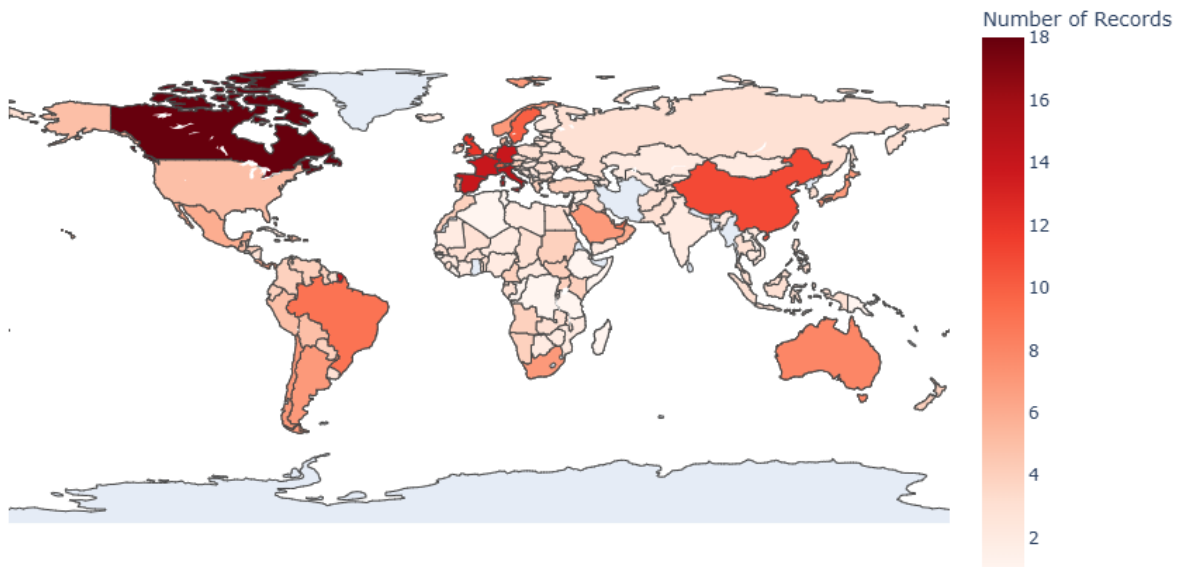


Figure 3: Additional Sending Countries Analysis

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.

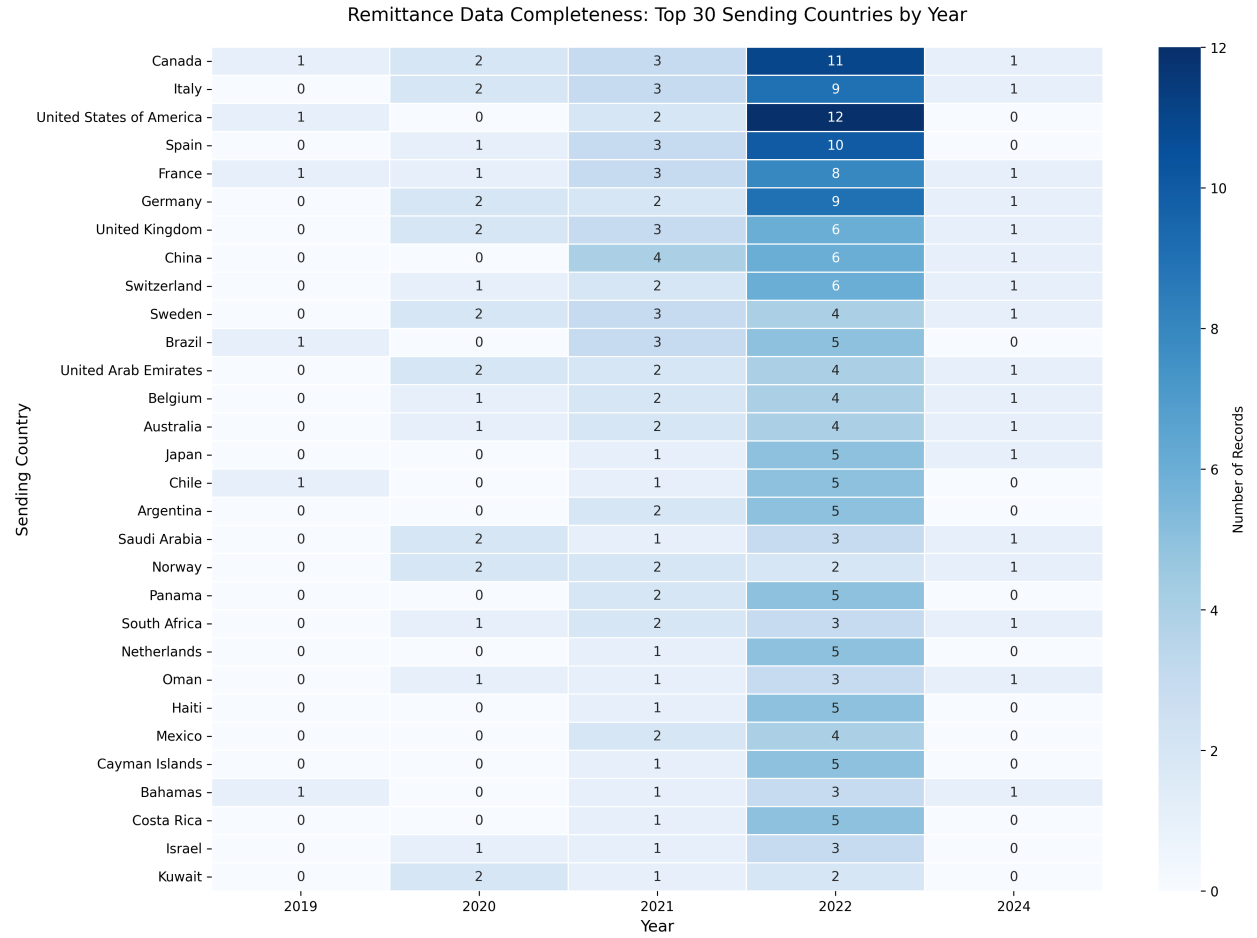


Figure 4: Sending Countries Temporal Heatmap

### 3.1.1 Receiving Countries Analysis

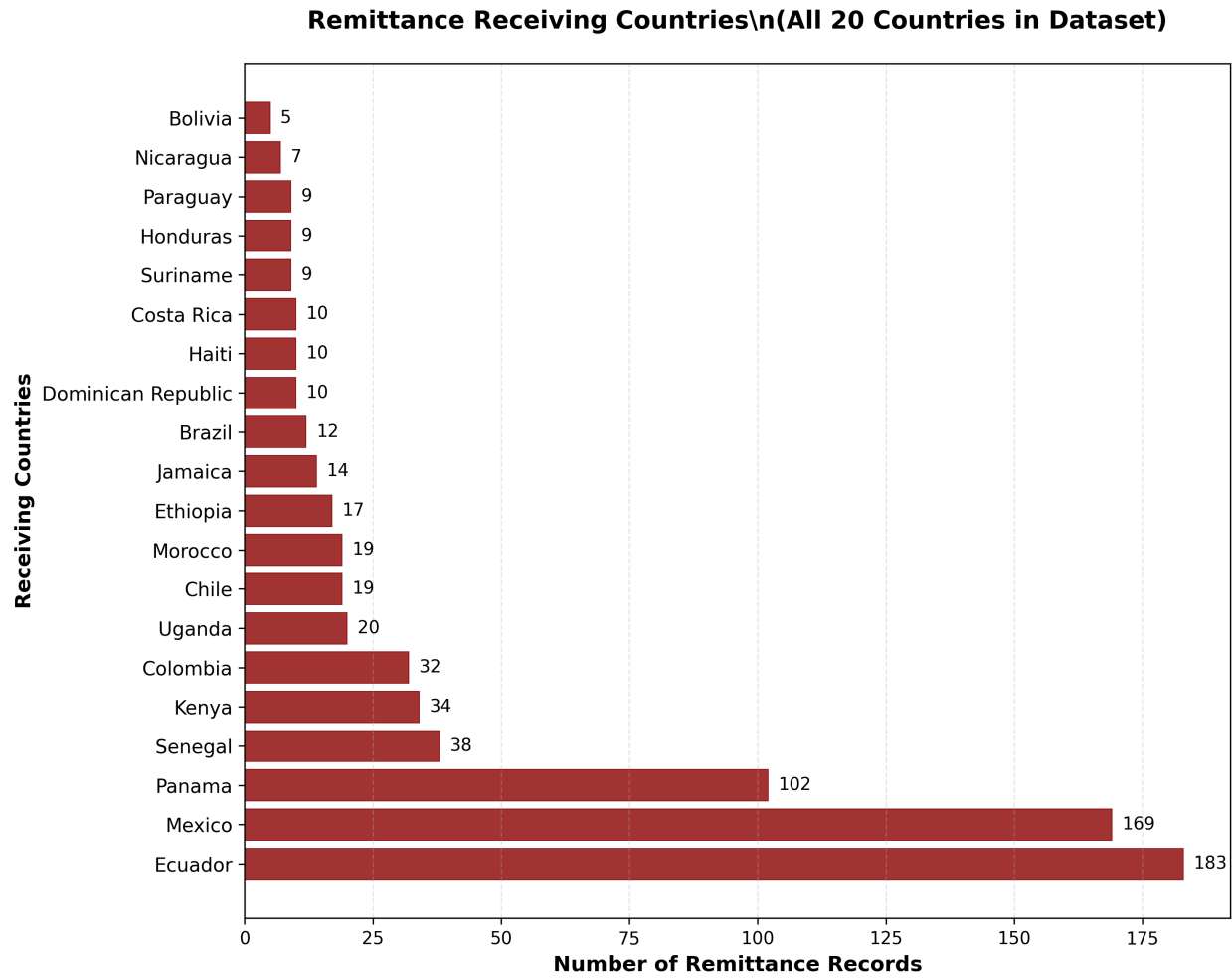


Figure 5: All 20 Remittance Receiving Countries

## Remittance Data Availability: RECEIVING Countries

Number of remittance records by receiving country

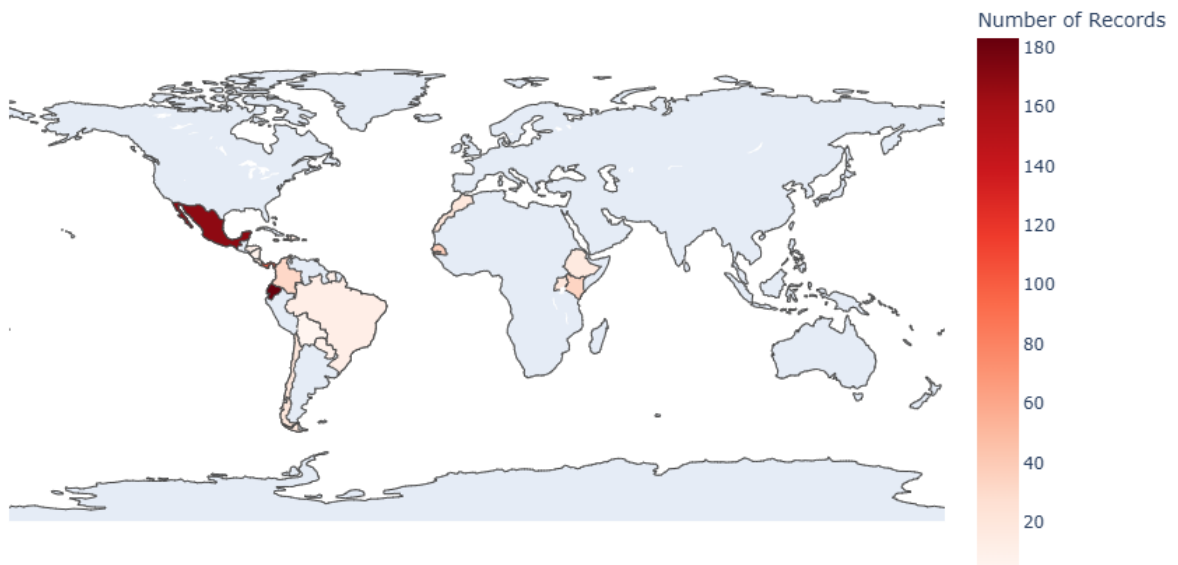


Figure 6: Additional Receiving Countries Analysis

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



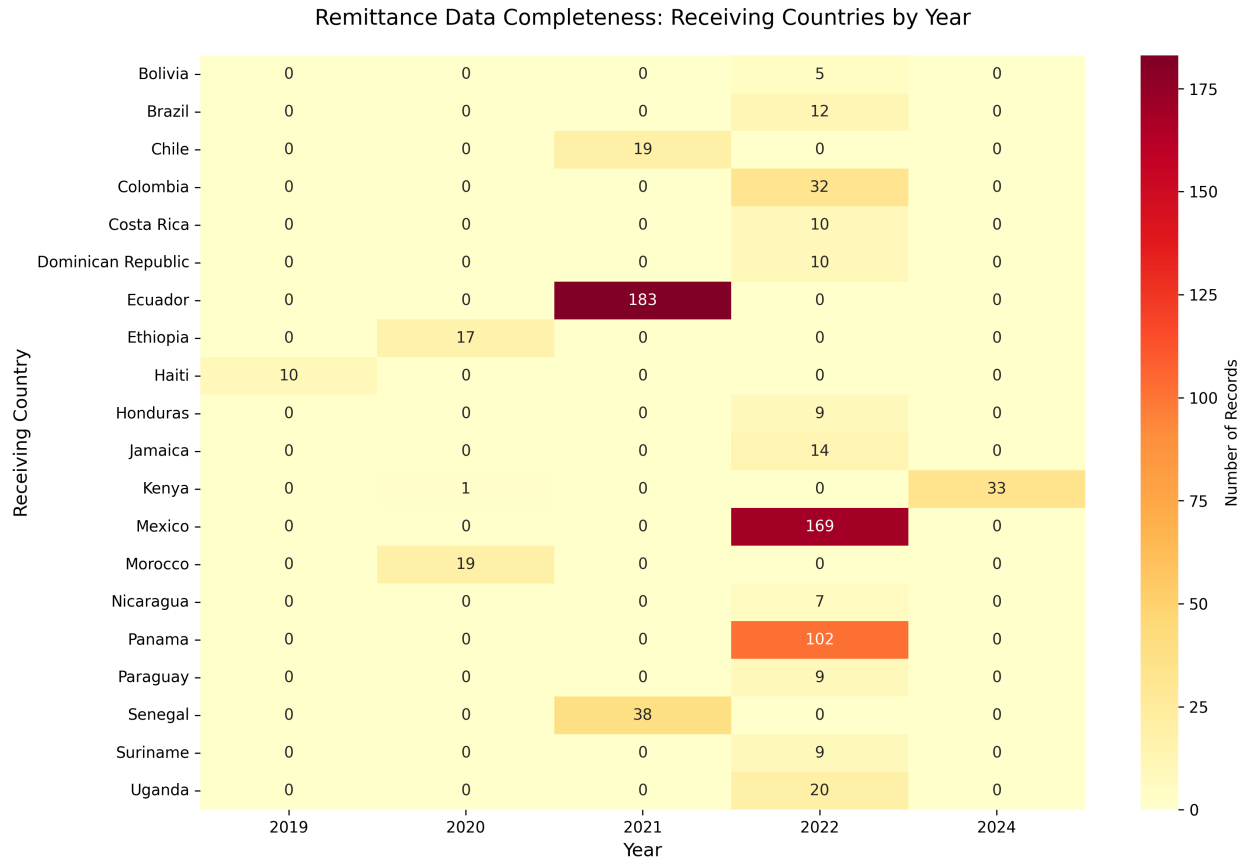


Figure 7: Receiving Countries Temporal Heatmap Detail

### 3.2 Data concentration:

- Top 10 receiving countries: 633/728 records (87.0%)
- Top 10 sending countries: 133/728 records (18.3%)

### 3.3 Main Flows

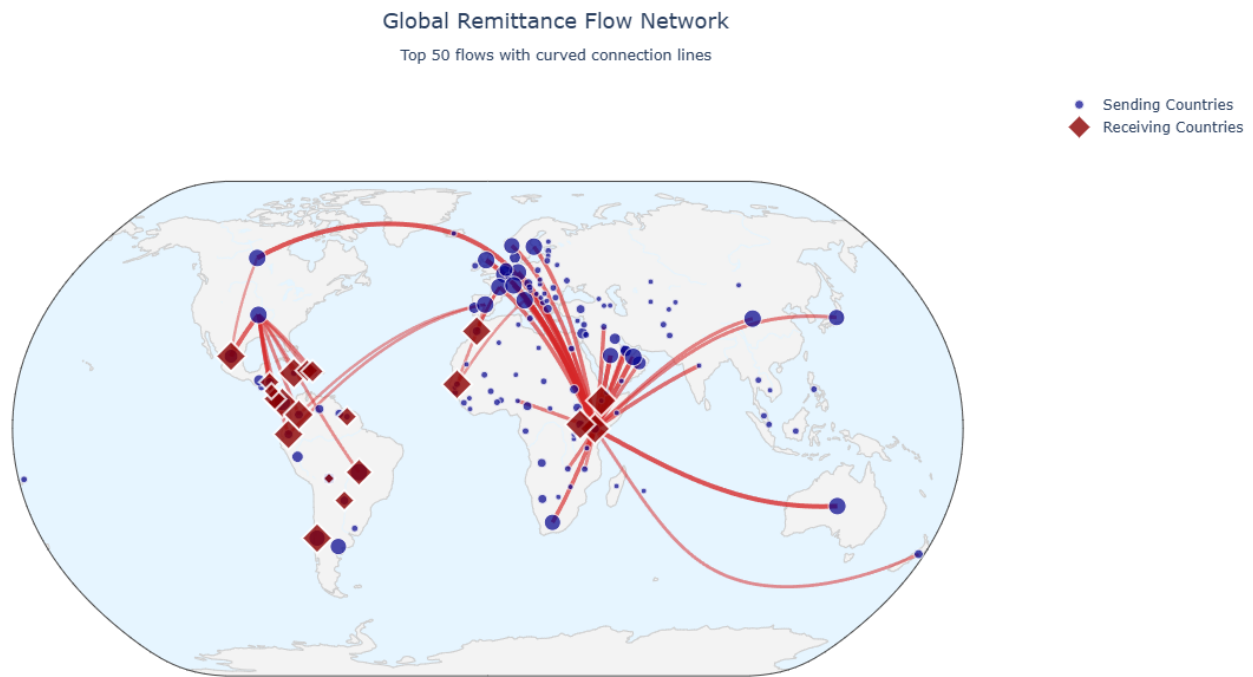


Figure 8: Main Remittance Flow Patterns

Interactive HTML Link: [View Interactive Main Flow Map](#)

### 3.4 Complete Flows

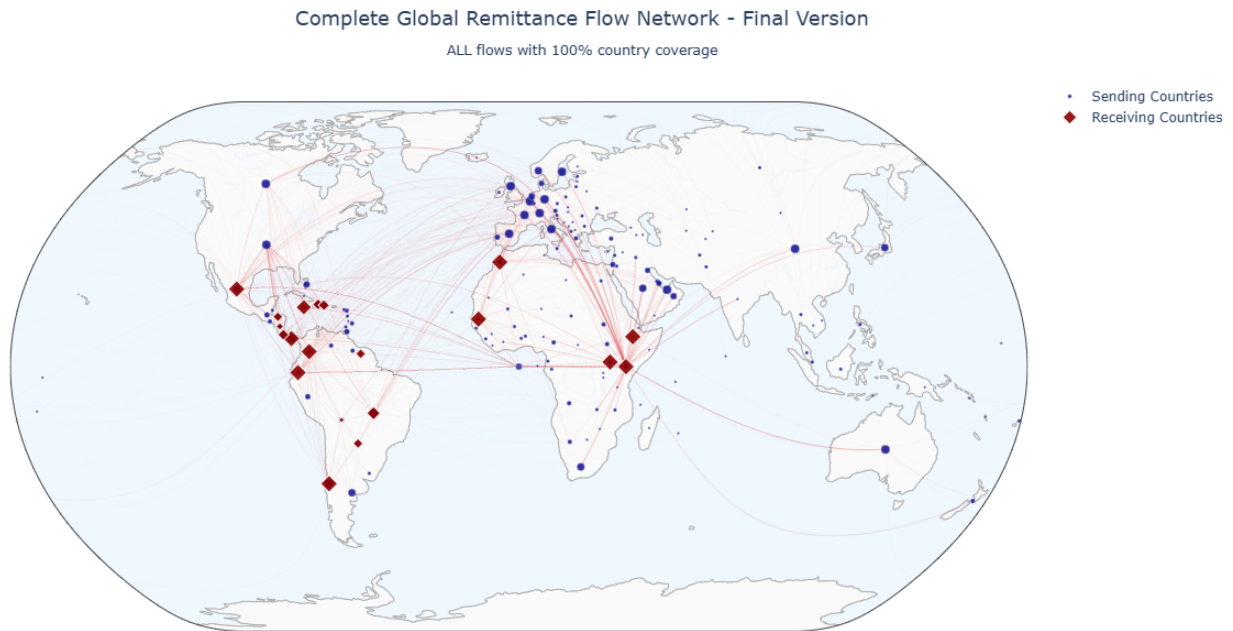


Figure 9: Complete Remittance Flow Coverage

Interactive HTML Link: [View Interactive Complete Flow Map](#)

### 3.5 Complete Flows with Small Flows Visibility

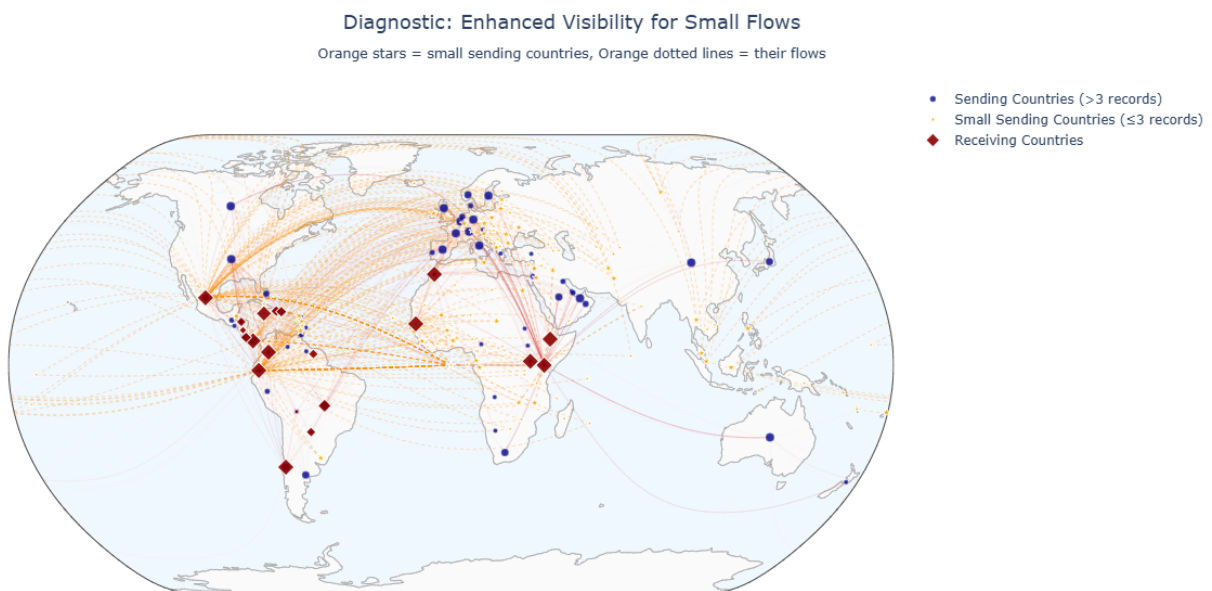


Figure 10: Enhanced Visibility for Small Flows

Interactive HTML Link: [View Interactive Enhanced Visibility Map](#)

### 3.6 Main Flow vs Complete Flow Comparison

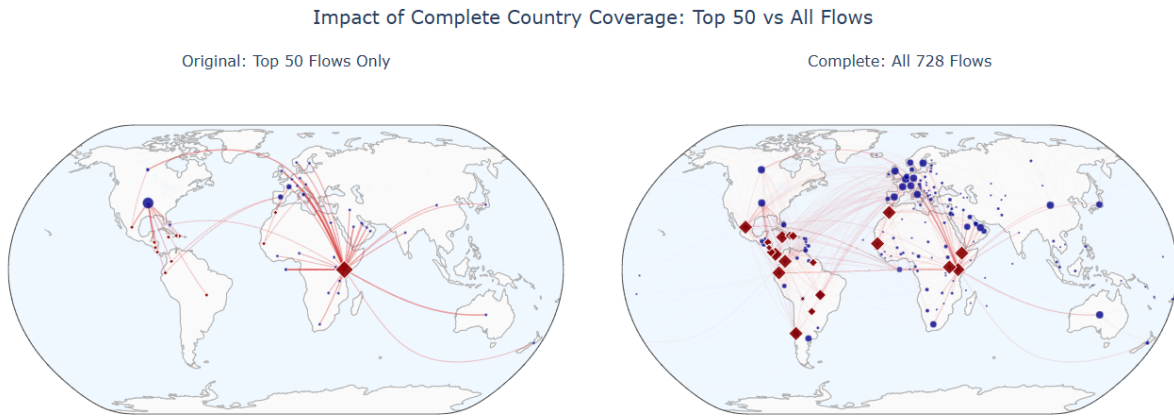


Figure 11: Comparison: Main vs Complete Flows

Interactive HTML Link: [View Interactive Flow Comparison](#)

### 3.7 Key Insights

#### 3.7.1 Network Structure

- **Flow Direction:** Strong unidirectional pattern from developed to developing nations

## 4 Appendix

### 4.1 HTML Interactive Versions of Graphs

Please access the HTML files in: [output\exported\\_figures\](#)