



ICAO



# 2025 ICAO **TRIP** SYMPOSIUM

MONTRÉAL, CANADA | NOVEMBER 4 - 6



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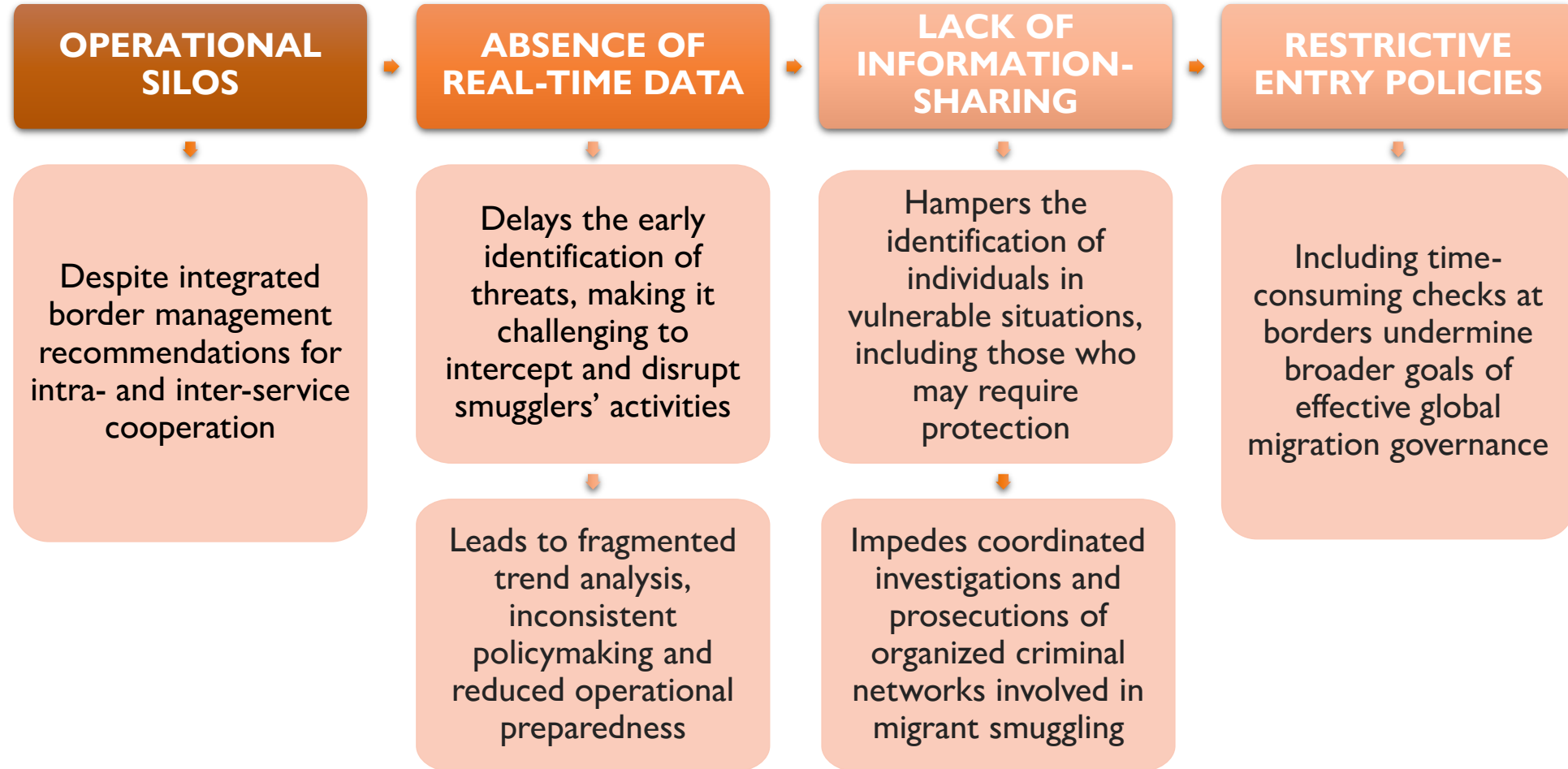


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## Donato Colucci

Head, Border and Identity Solutions Unit  
IOM Headquarters

# Obstacles to Effective Counter-Migrant Smuggling





# Data Exchange Solution for Counter-smuggling (DESC)

**Goal:** Harmonization of diverse migration policies in the region with the ultimate objective of strengthening regional cooperation on countering transnational organized crime involved in irregular migration.

# Overall Objective: Counter Migrant Smuggling

Data

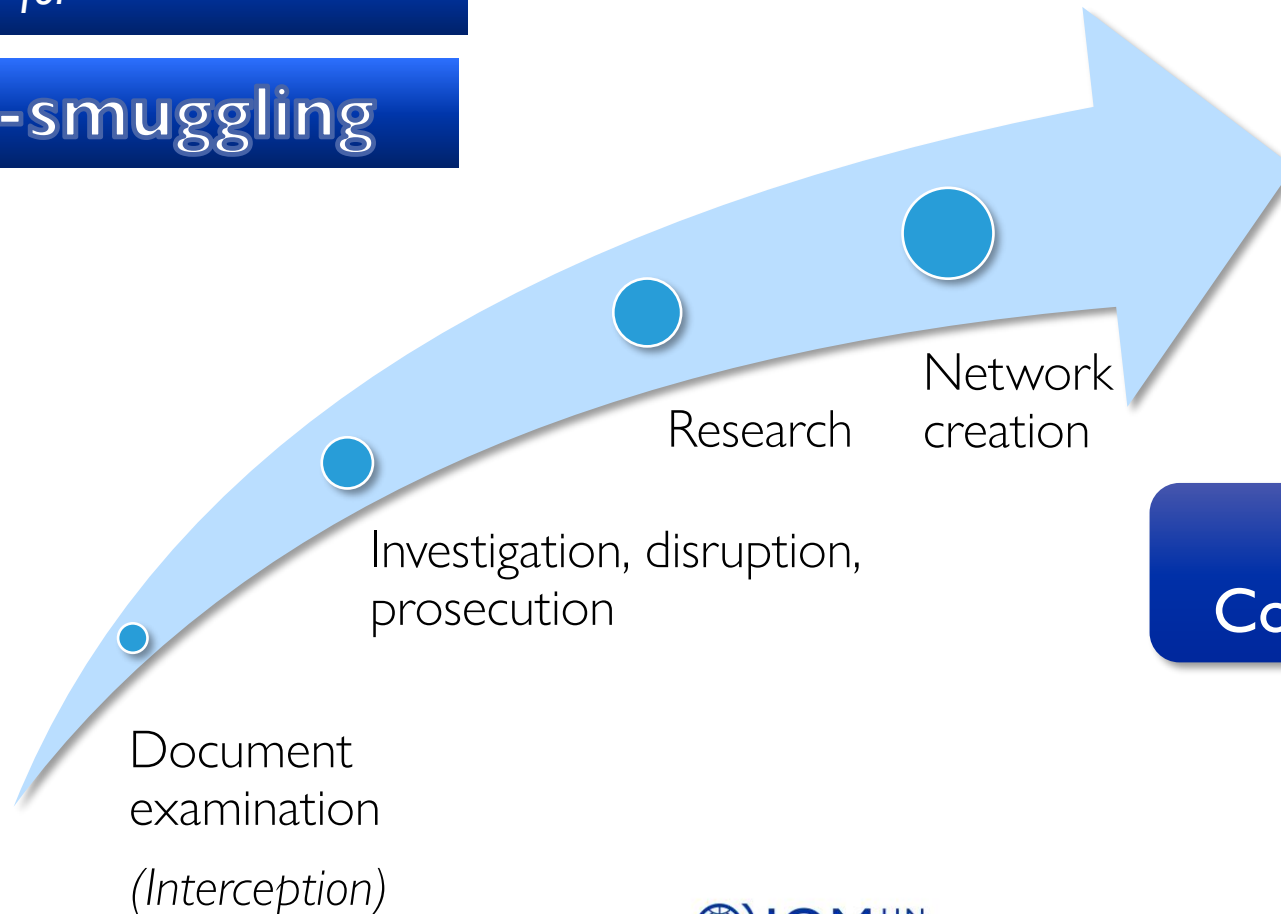
Exchange

Solution *for*

Counter-smuggling

Preventing  
irregular migration  
and curbing  
transnational  
organized crime

**Focus:**  
Cooperation & Participation



Data

Exchange

Solution for

Counter-smuggling

# DESC PILLARS

1. Capacity  
Development  
& Training

Technical  
Expertise &  
Peer-exchange



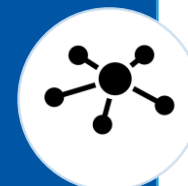
2. Travel  
Document  
Inspection Tools

Technological  
improvements



3. Information  
Exchange

Regional  
Networks of  
Document  
Experts



4. Data  
Management

Global  
platform for  
trends and risk  
analysis



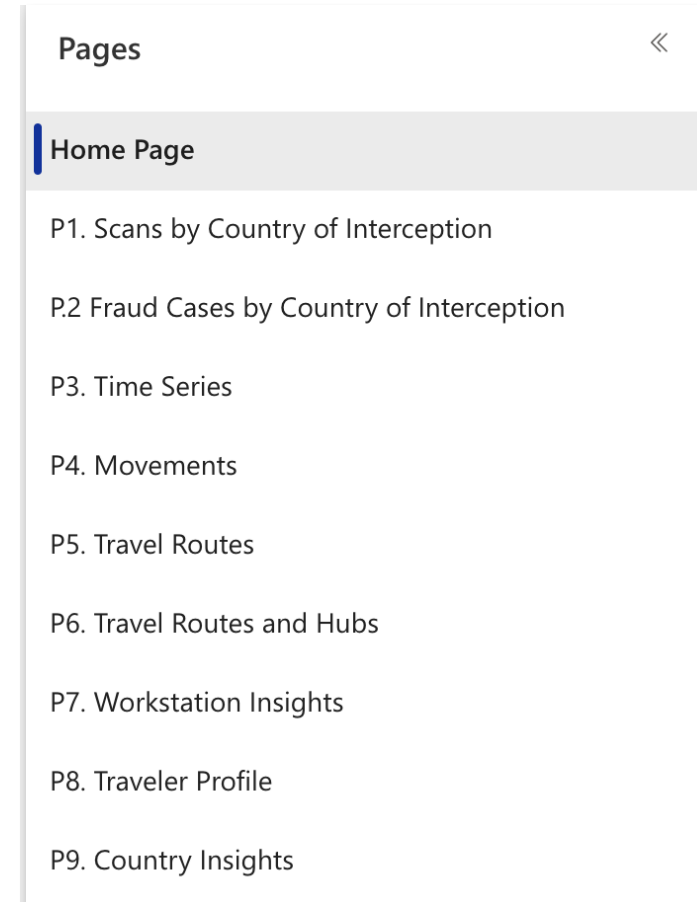
# The DESC Global Data Exchange Platform



- The IOM's web-based global platform designed to facilitate the real-time, secure exchange of non-sensitive data on irregular migration trends and smuggling modus operandi.
- Developed in partnership with Microsoft, DESC leverages AI-powered dashboards to provide instant trend analysis for law enforcement agencies, policymakers, and IOM.

# Global Dashboards on Irregular Migration

- **The online dashboards** of the DESC Global Initiative provide interactive visualizations and disaggregated non-sensitive data on fraud.
- Accessible to **authorized law enforcement** from participating countries
- The platform includes **9 distinct pages**, each featuring with diverse dashboards that visualize the database through various dataset combinations



# Global Dashboards on Irregular Migration

## P1. Scans by Country of Interception

Decomposition of Total Scans by **Case Result** and **Fraud Type** by **Country of Interception**

Frauds per 100 Scans by Country of Interception



## P2. Fraud Cases by Country of Interception

Numbers and Rate Variables over time by Country of Interception and **Border Control Point**

Case Result and Fraud Type by Country of Interception and **Issuing State**

Numbers and Rate Variables:

- Number of Scans
- Number of Fraud Cases (Fraudulent Documents and Imposters)
- Number of Fraudulent Documents
- Number of Imposters
- Frauds per 100 Scans
- Fraudulent Documents per 100 Scans
- Imposters per 100 Scans

# Global Dashboards on Irregular Migration

## P3. Time Series

Data time-series quarter to quarter and quarter to previous year.

## P4. Movements

Geolocation Variables, Numbers and Rate Variables by Country of Interception, Document Type and Issuing State

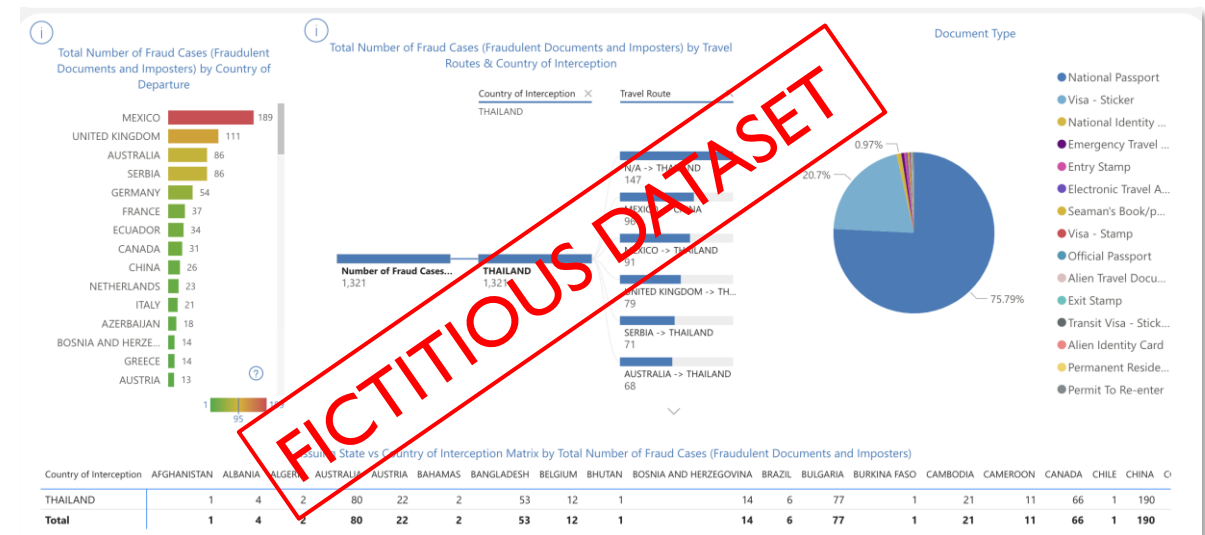
Geolocation Variables:

- Country of Departure
- Intended Destination Country
- Country of Interception
- Issuing State
- Border Control Points
- Travel Route

## P5. Travel Routes

Decomposition trees to identify travel routes and travel patterns

- Travel Route and Document Type
- Travel Route and Document Details
- Issuing State and Document Details



# Global Dashboards on Irregular Migration

## P6. Travel Routes and Hubs

Travel Routes and Border Control Points

## P7. Workstation Insights

Insights of Intercepted Region/Country/Workstation

Geolocation Variables vs Number Variables

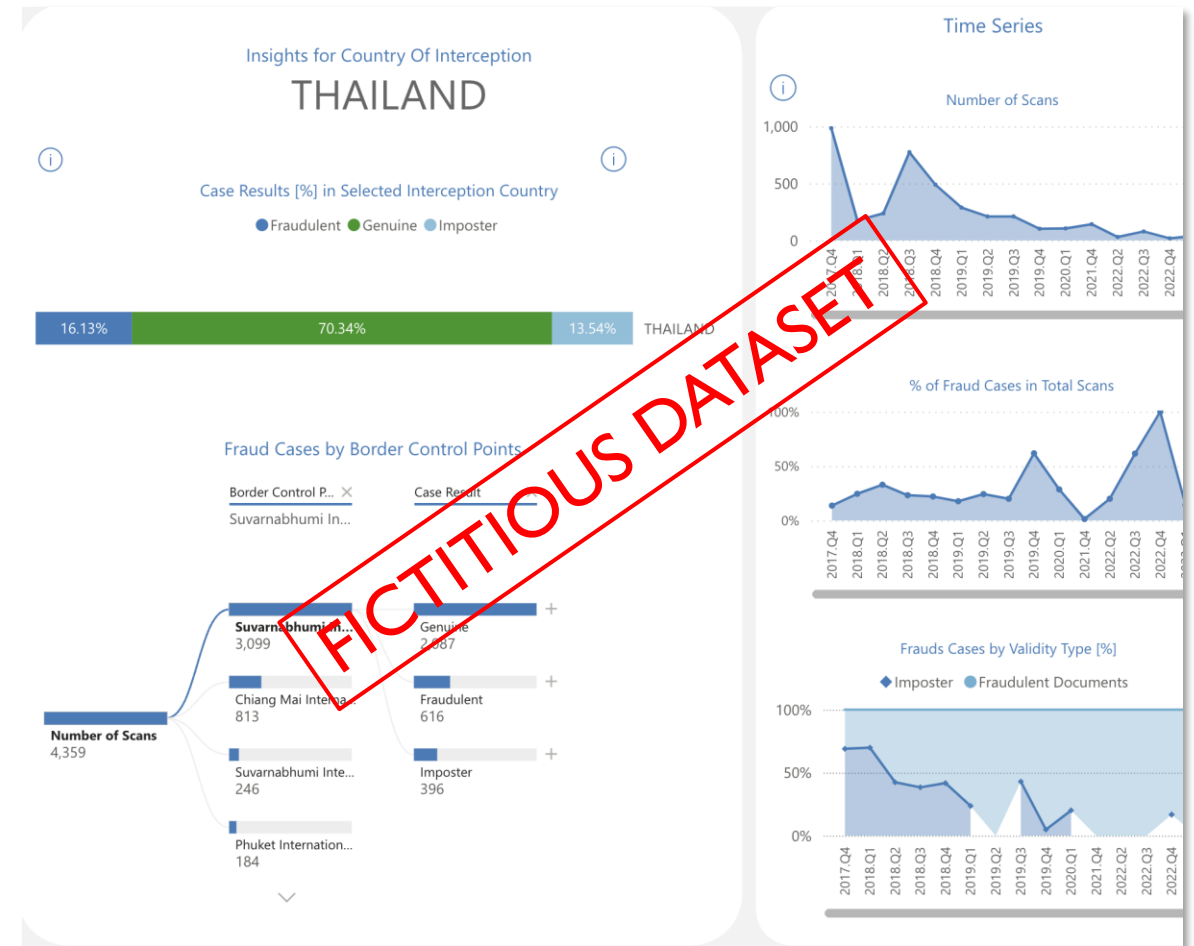
Time Series, Scans Distribution by Case Result, Document Type and Transport Type

## P8. Traveler Profile

Age and Gender

Country of Departure, Country of Interception, Intended Destination Country, Issuing State and Document Type

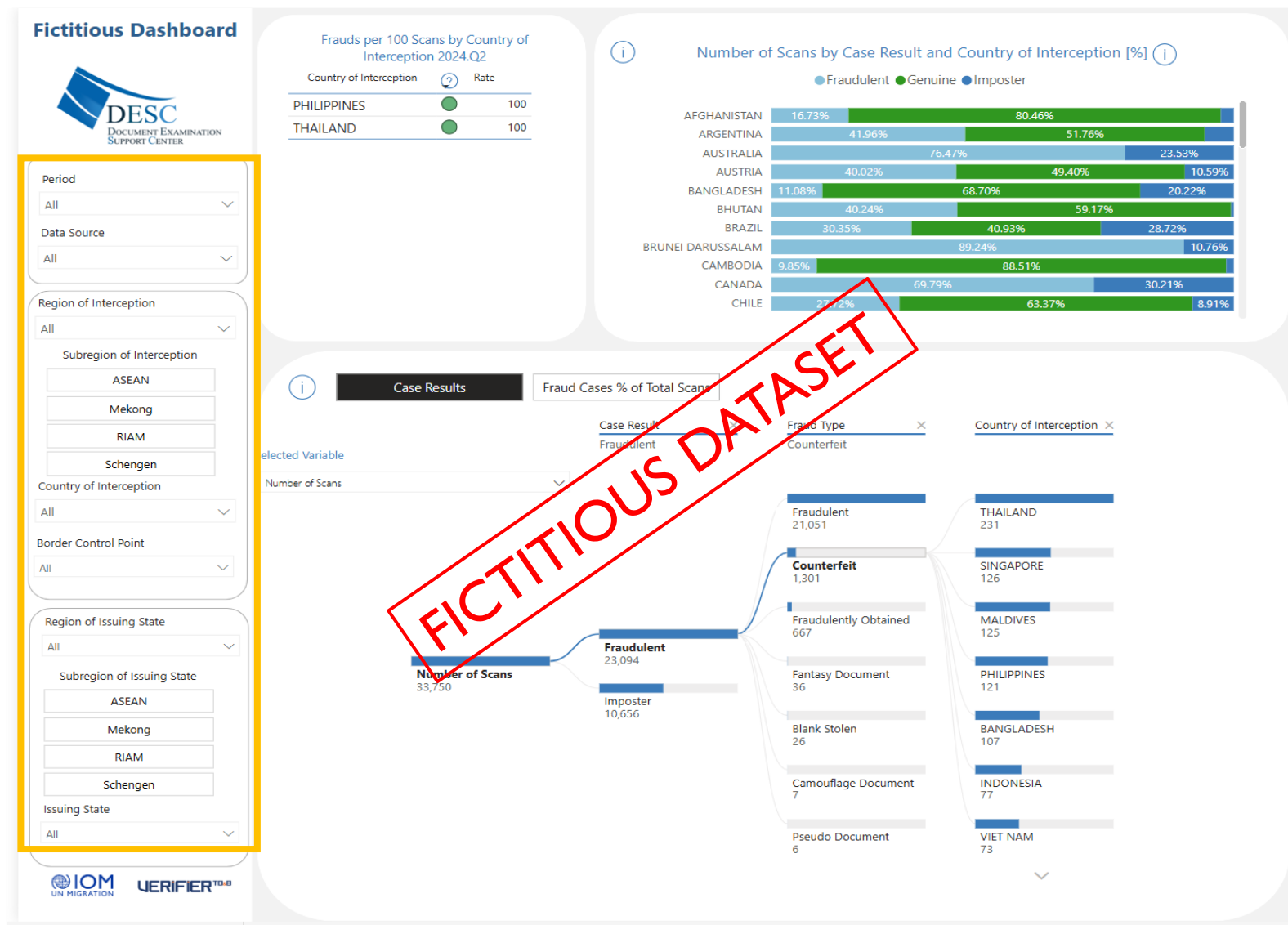
## P9. Country Insights



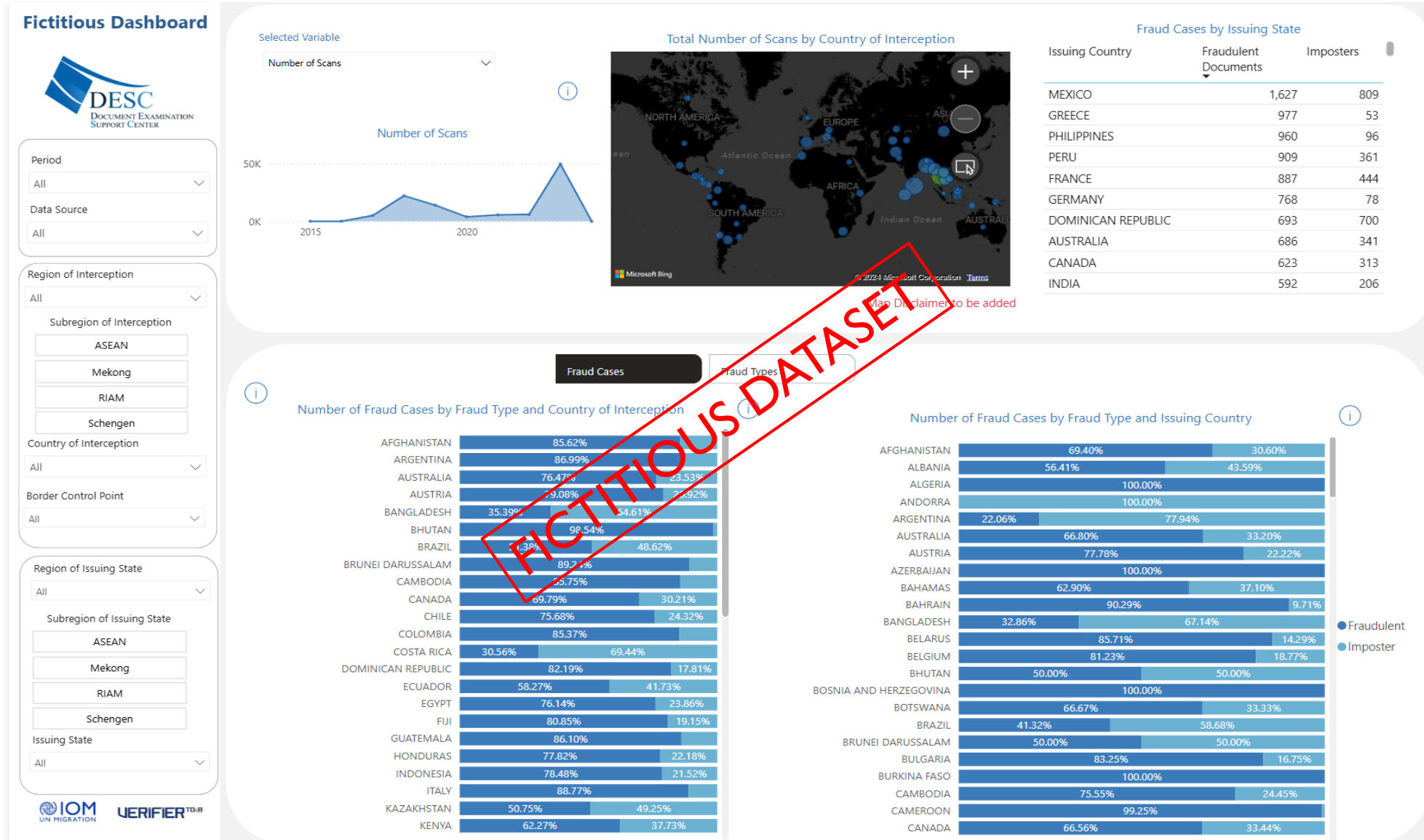
# P1. Scans by Country of Interception

All dashboards can be filtered by:

- Quarter and year
- Different data source
- Region of interception:
  - Africa
  - Americas
  - Asia and the Pacific
  - Europe
  - Middle East
- Subregion of Interception:
  - ASEAN
  - Mekong
  - RIAM
  - Schengen
- Country of Interception
  - (As above)
- Border control post:
  - Arrival/departure
- Region and issuing State of the document used in the fraud case



## P2. Fraud Cases by Country of Interception

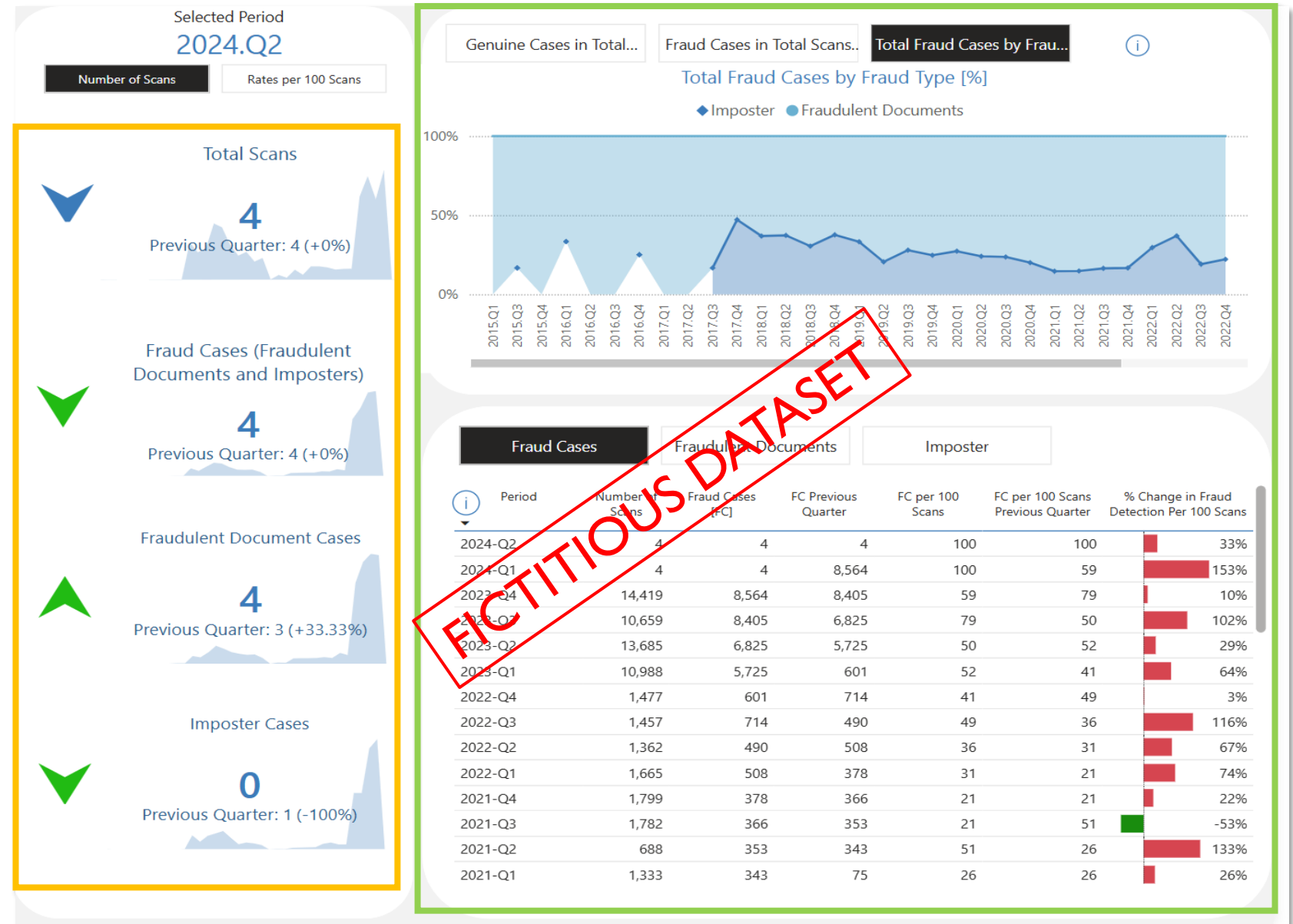


## P3. Time Series

For each selected period, this dashboard shows the total number and comparisons with previous quarter of:

- Total scans
- Total fraudulent cases
- Fraudulent document cases
- Impostor cases

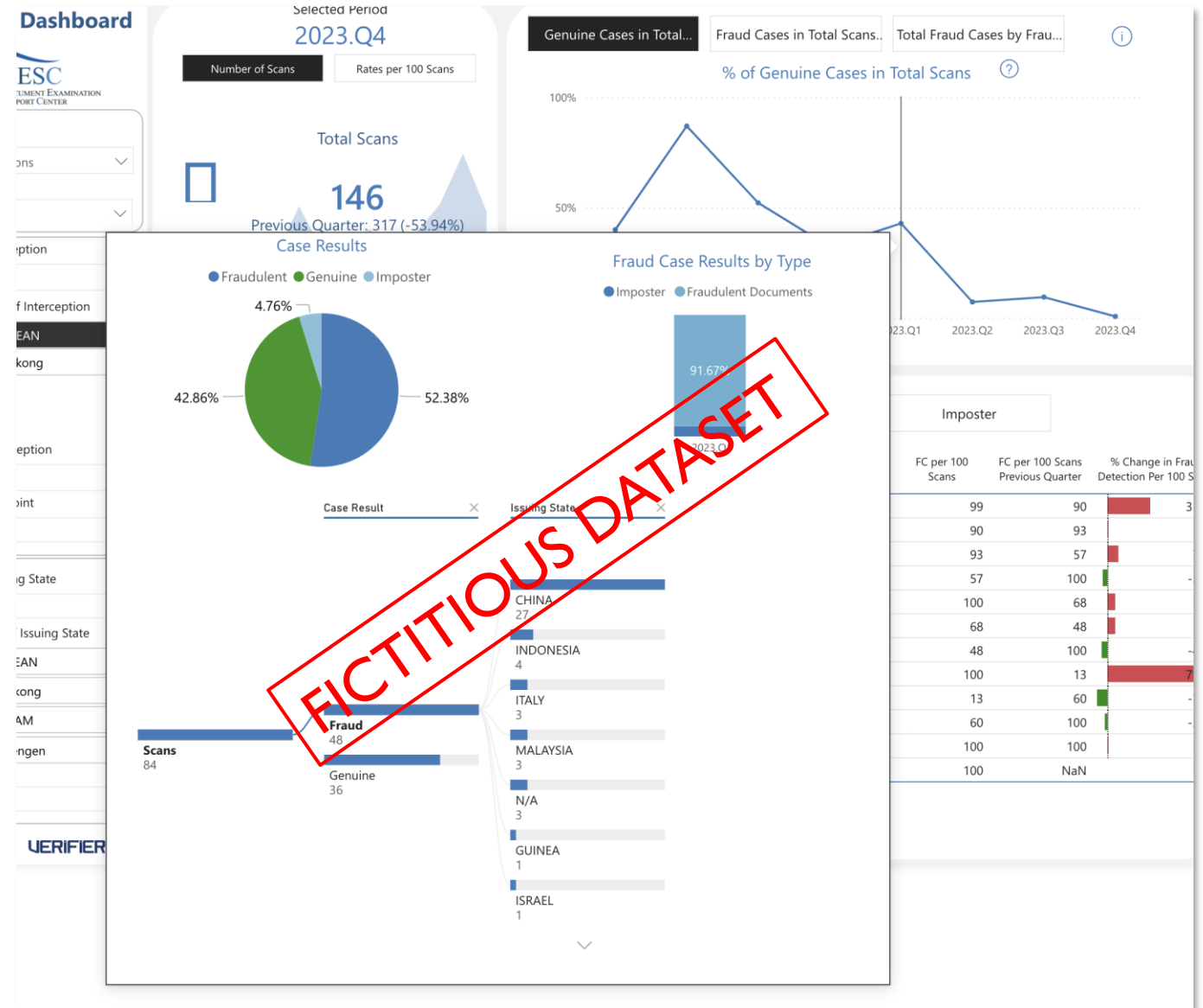
Overall trends and details for each quarters are shown on the two dashboards on the right side of the screen



## P3. Time Series

For each time-period selected, specific details will automatically appear when pointing the cursor on the the different points of the graphics, making it easy to **extract them in PDF format**.

This ensures that data analysts have all the necessary supporting evidence at their fingertips for reporting and/or further analysis.



## P4. Movements

These dashboards provide detailed information on each case, enhancing the ability to analyze fraud incidents trends and contextualize primary-line responses effectively.

Data sets include:

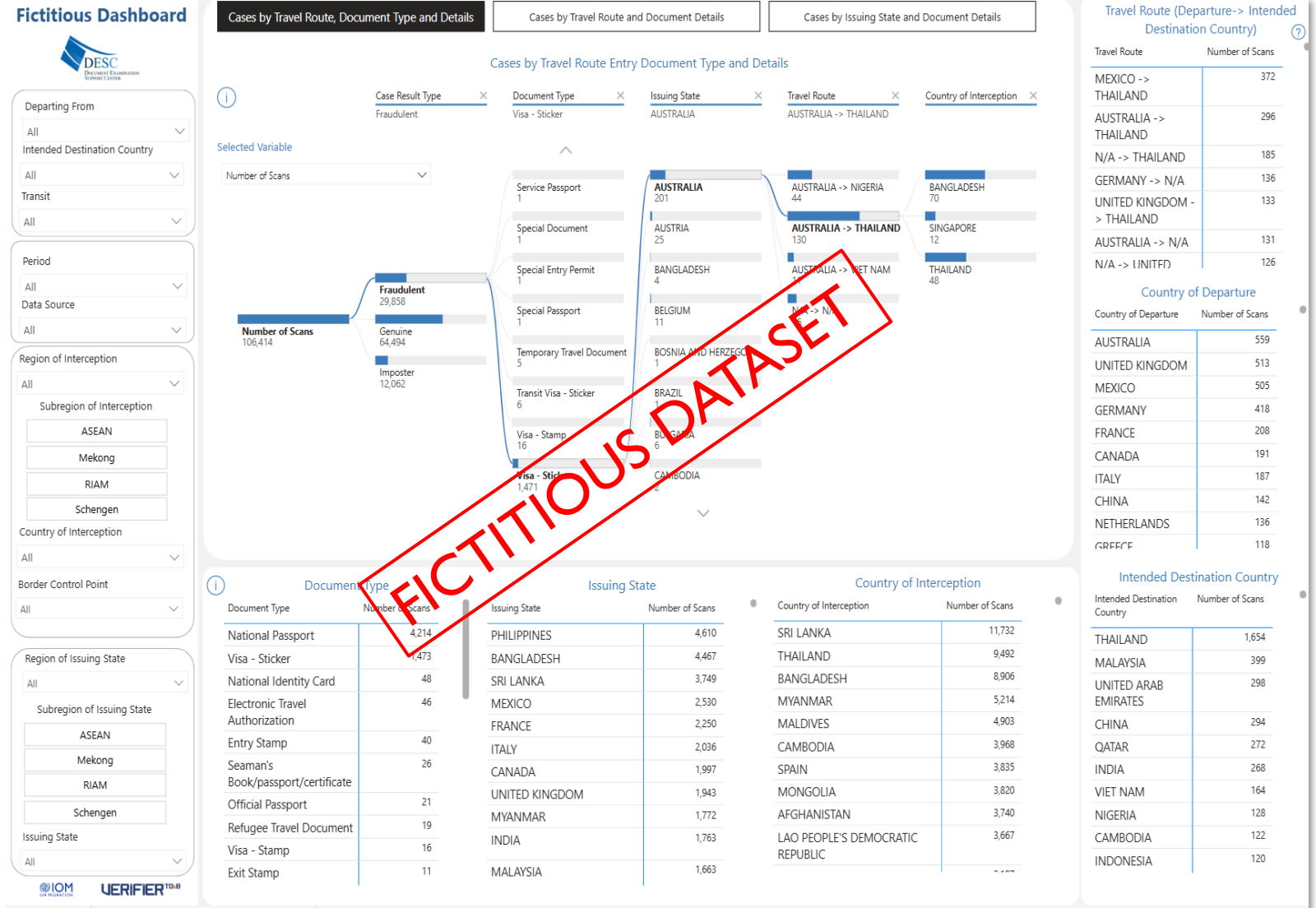
- **Interception Locations:** The dashboards display where the reported fraud cases were intercepted.
- **Issuing country** of the travel document utilized
- **Travel Routes:** They also show the related travel routes used in the intercepted cases.
- **Interactive Visualizations:** Users can interact with the data to gain insights into patterns and trends.



## P5. Travel Routes

This dashboard enables comprehensive risk analysis by interrelating various data sets, including:

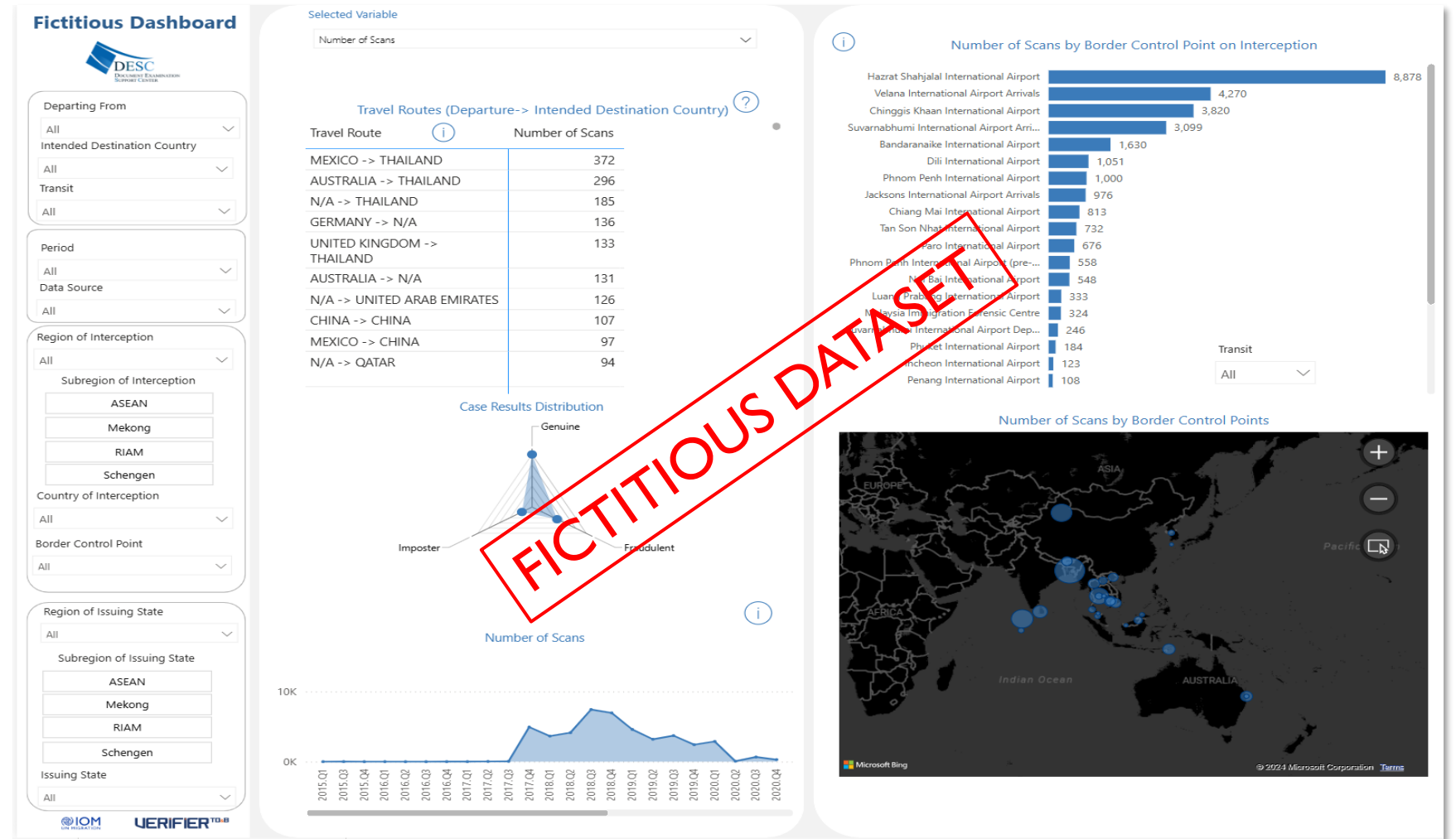
- **Document Type:** To analyze risks based on the type of document used.
- **Issuing State:** To correlate data with the state that issued the document used.
- **Country of Interception:** To identify patterns related to where the document was intercepted.
- **Country of Departure:** To examine risks associated with the country of departure.
- **Travel Route:** To track and analyze the travel routes taken.
- **Intended Country of Destination:** To assess risks based on the intended destination country.



## P6. Travel Routes and Hubs

This dashboard enables focus risk analysis by interrelating:

- **Travel Route Utilized:** To analyze risks based on the travel routes taken.
- **Overall Trend:** To identify and assess overall trends in fraud cases.
- **Case Results Distribution:** To examine the distribution of case results to understand patterns.
- **Specific Border Post Targeted:** To analyze risks by specific border posts, divided by arrival and departure.

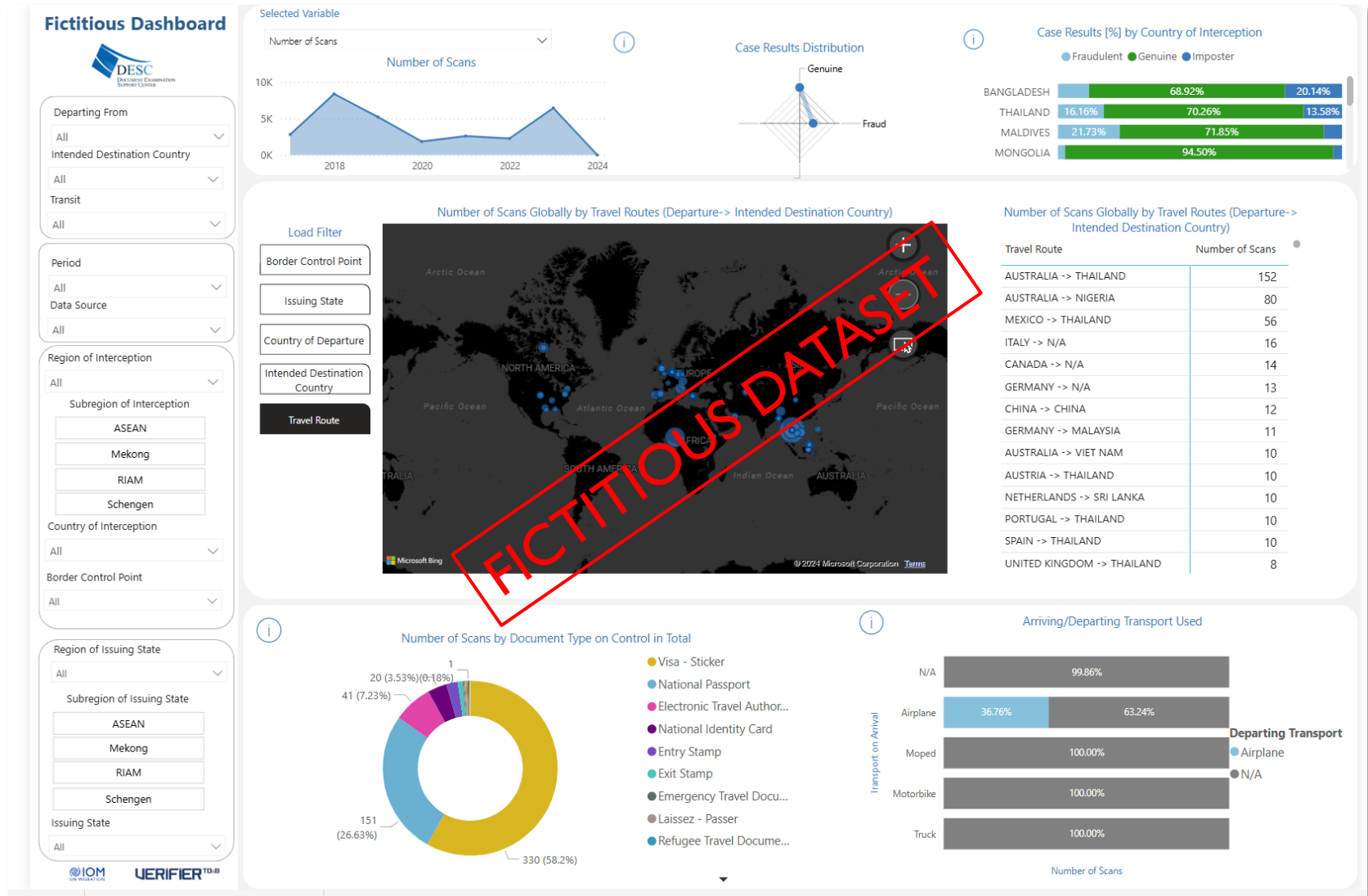


## P7. Workstation Insights

Provides detailed insights into interception locations, helping to identify patterns and trends in fraudulent activities.

Analyzes spatial data by combining location-based information with numerical variables.

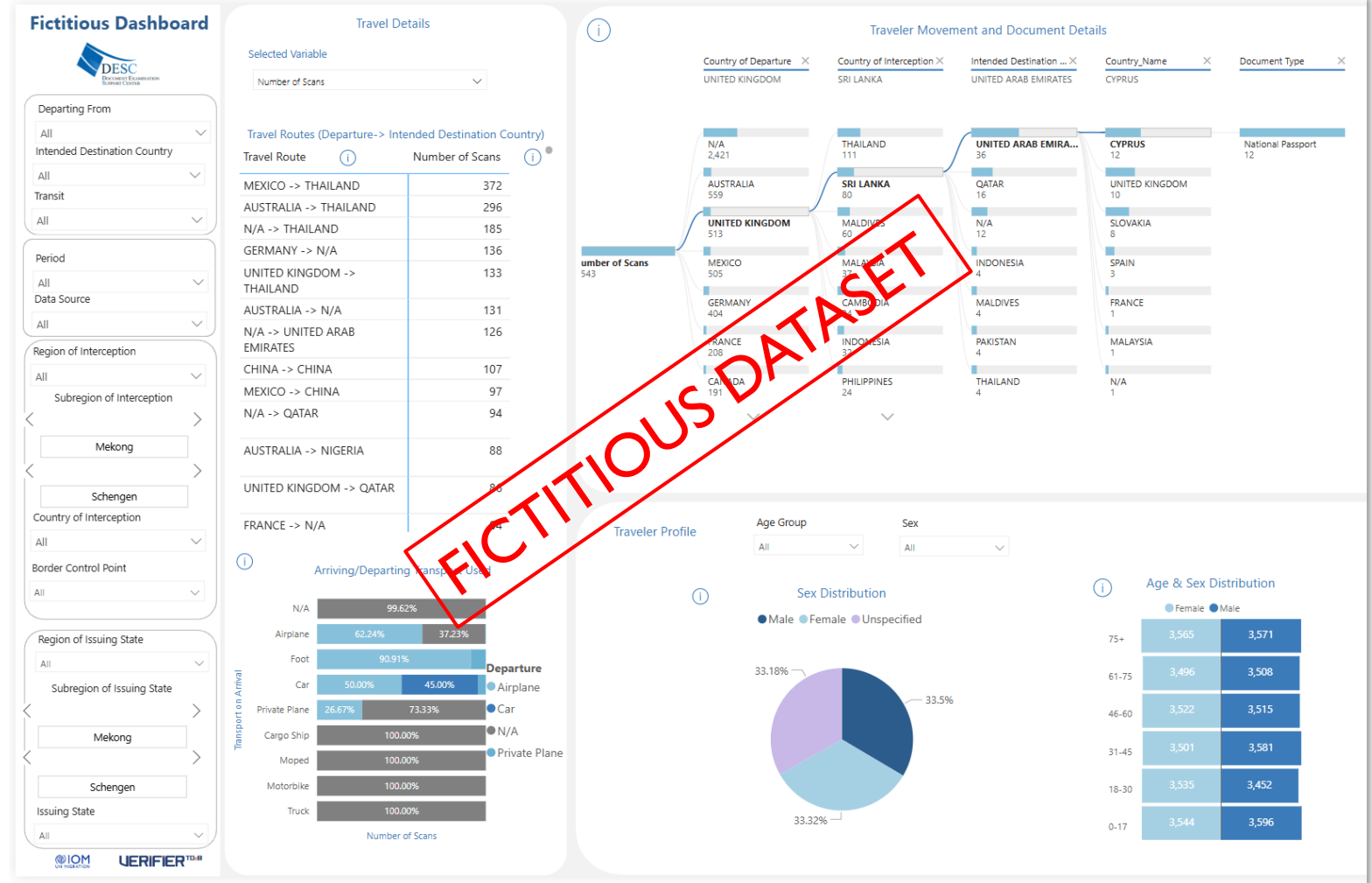
Tracks changes and trends over time, analyzing the distribution of scans by case result, document type, and transport type.



## P8. Traveler Profile

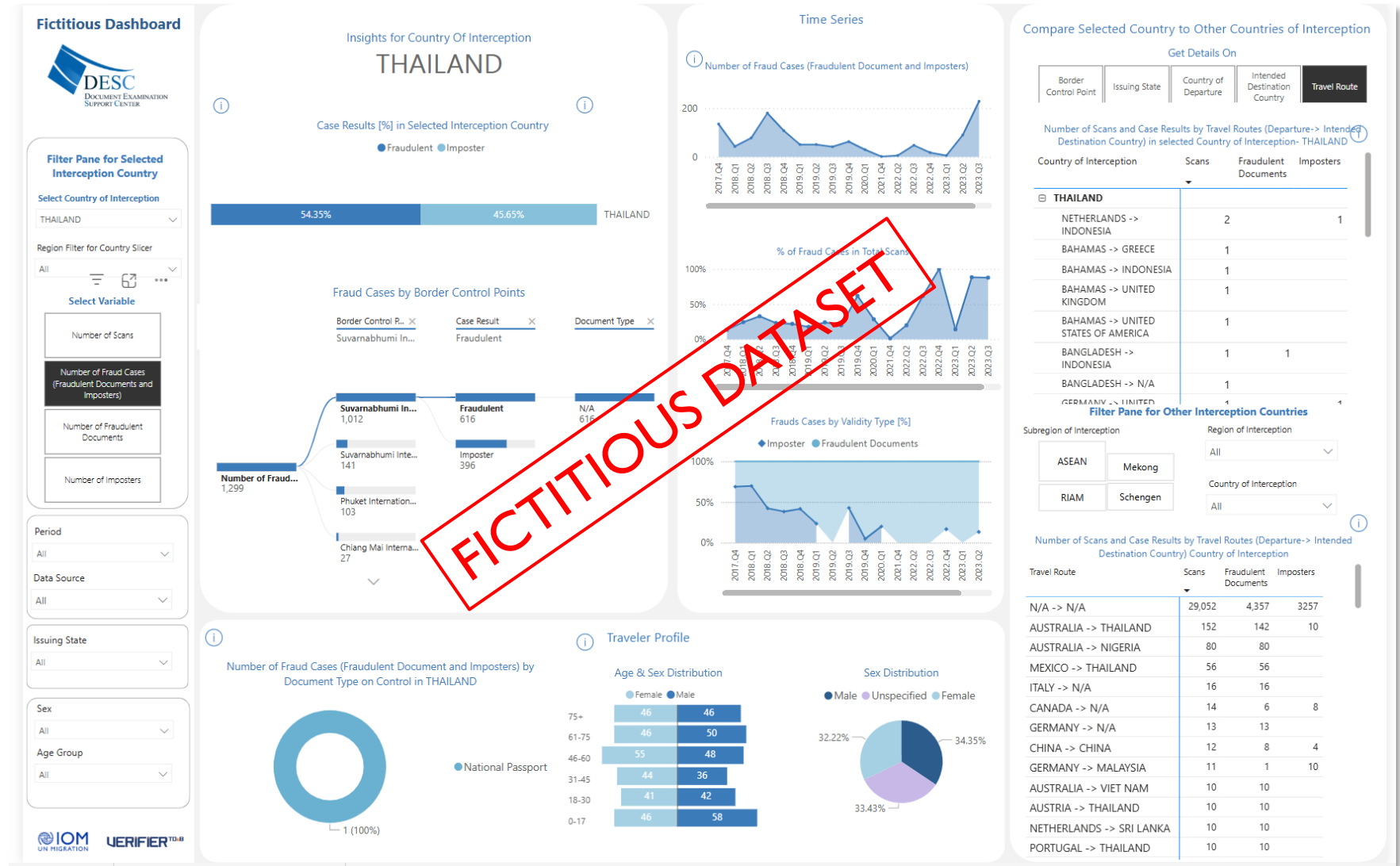
By providing insights into demographic patterns and trends, the dashboard shows how organized crime may adapt their modus operandi in relation to sex, gender, and age-group of intercepted travellers.

This analysis helps in understanding how different demographic groups are targeted and exploited, enabling more effective prevention and intervention strategies.



## P9. Country Insights

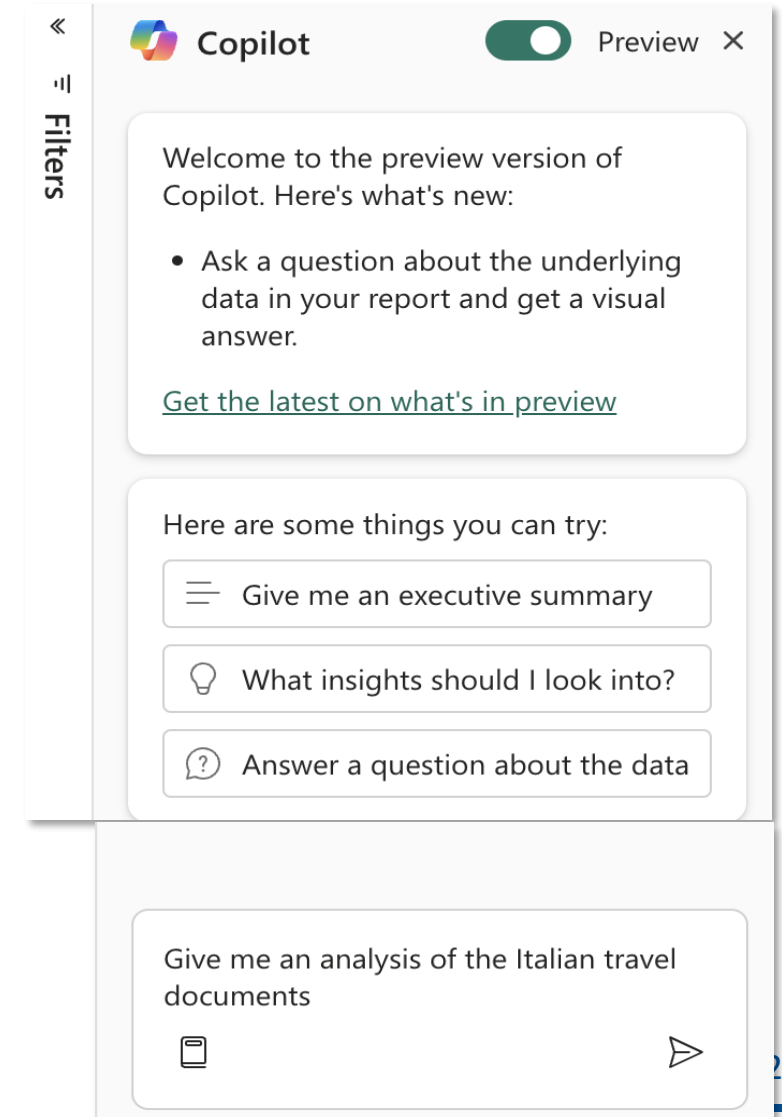
- This dashboard can focus on specific analysis and trends for each participating country, allowing users to gain insights into country-specific patterns and developments.
- It enables the comparison of data across different countries, helping to identify unique patterns, trends and commonalities in the modus operandi of organized crime.



# Copilot: Transforming Data into Actionable Insights



## Pre-Set & Ad-Hoc Prompts



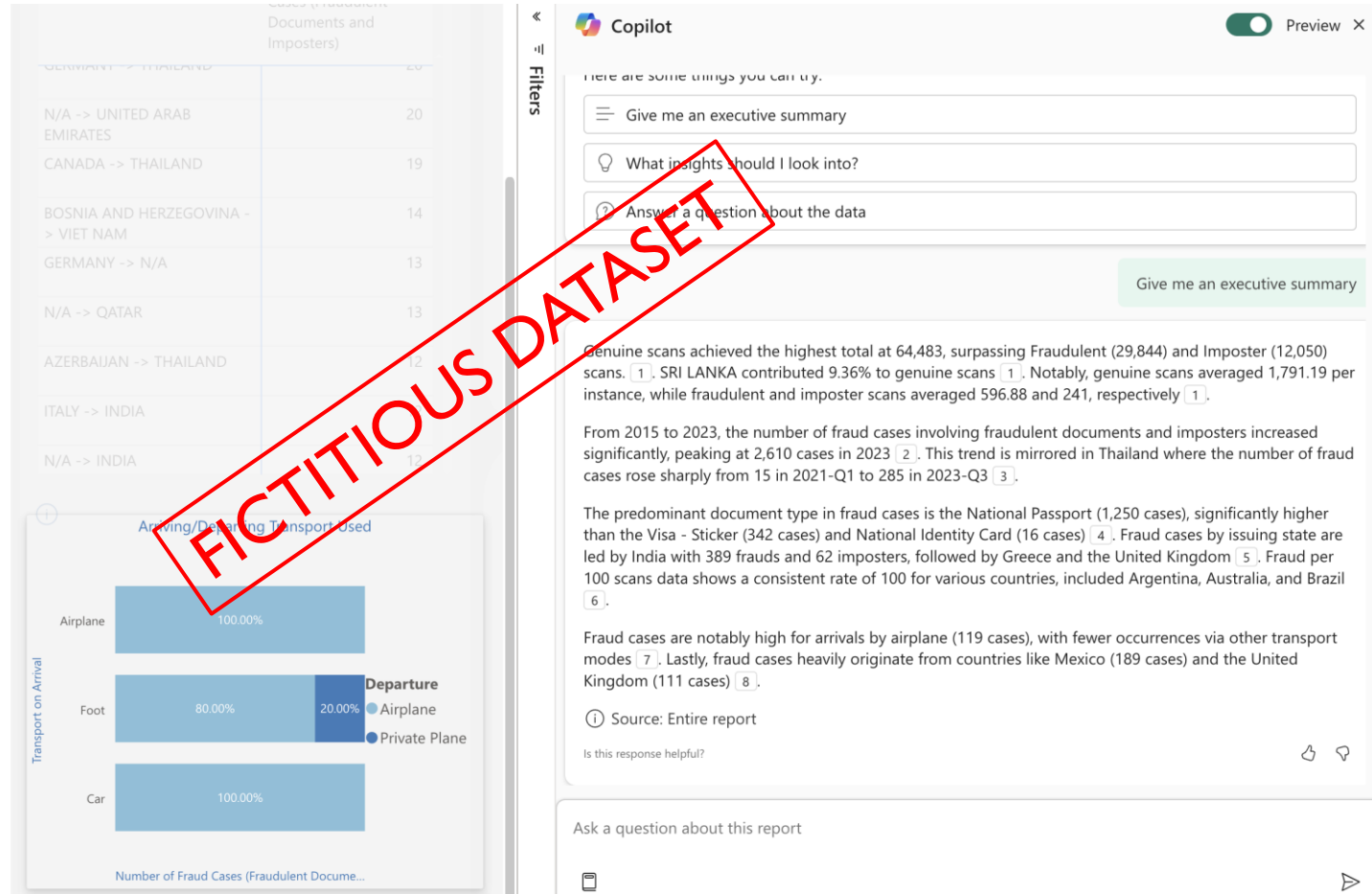
# Copilot: Transforming Data into Actionable Insights



Pre-Set & Ad-Hoc Prompts



Clear & Concise Analysis



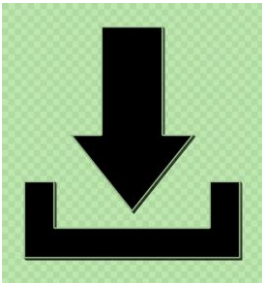
# Copilot: Transforming Data into Actionable Insights



Pre-Set & Ad-Hoc Prompts

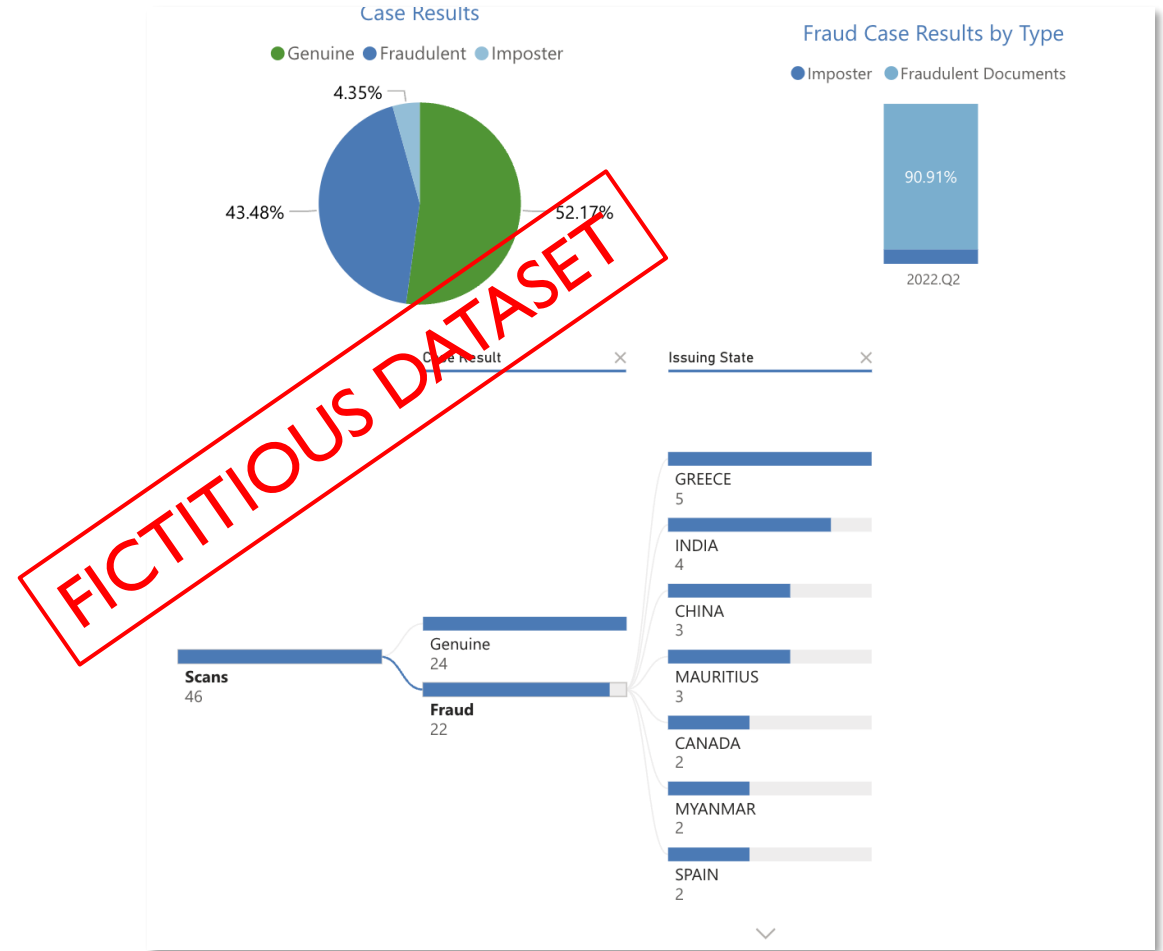


Clear & Concise Analysis



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Downloadable PDF Reports



# AI-Powered Dashboards

- IOM is exploring the integration of the **Copilot** function to provide quick yet comprehensive analysis of the data.
- This new feature will leverage the existing database to generate insights, ensuring that all analyses are based solely on internal data.

Importantly, Copilot will **NOT** have access to any external or public sources, maintaining the integrity and confidentiality of the information.

## Possible pre-set prompts:



Give me an executive summary.



What are the current trend of fraud cases in Thailand? What do border authorities need to pay attention to?



What are the major trends in the last three months?



*..and many others!*

# Ongoing Global Expansion

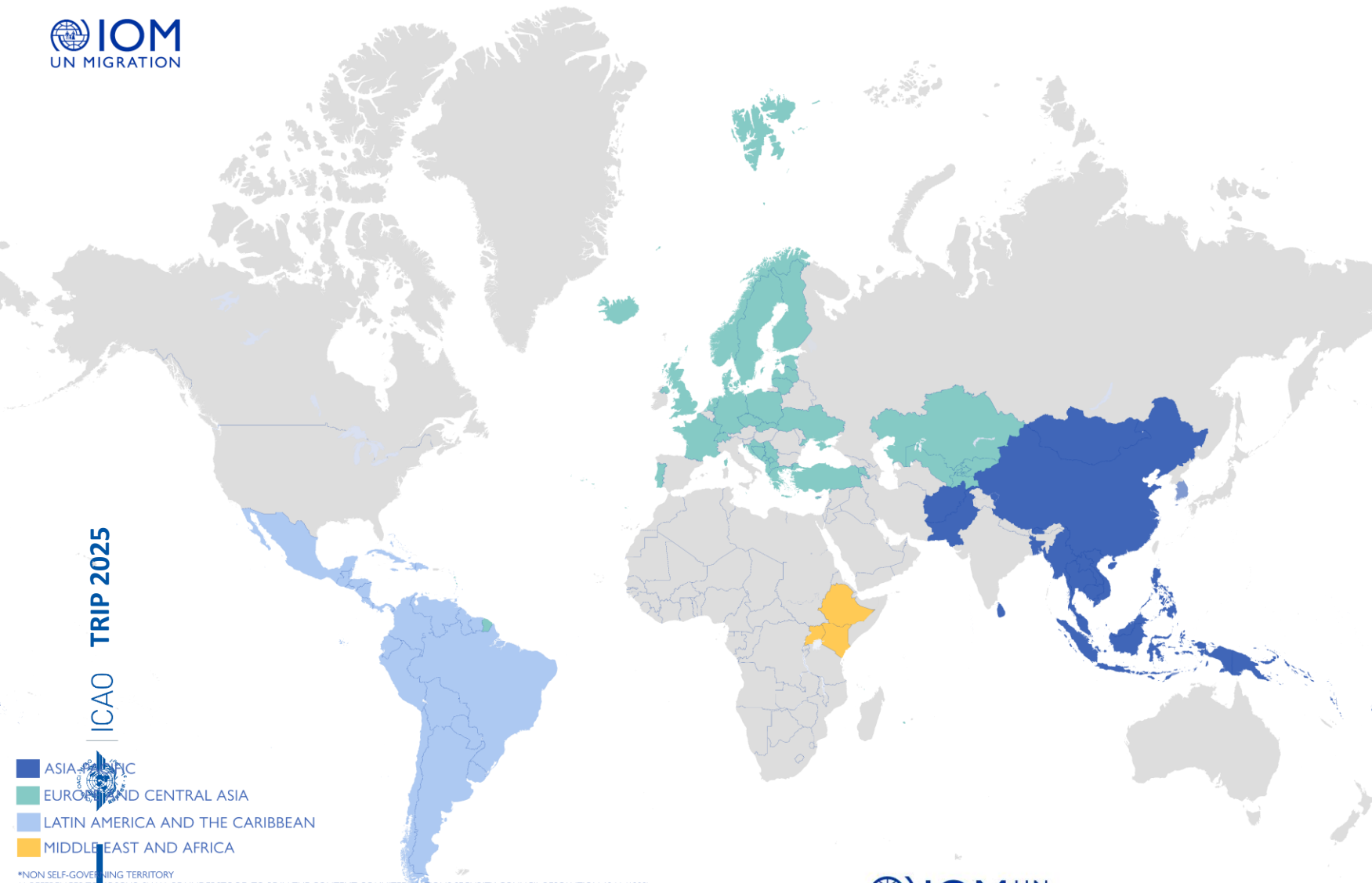


Data

Exchange

Solution *for*

Counter-smuggling



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- ASIA AND THE PACIFIC
- EUROPE AND CENTRAL ASIA
- LATIN AMERICA AND THE CARIBBEAN
- MIDDLE EAST AND AFRICA

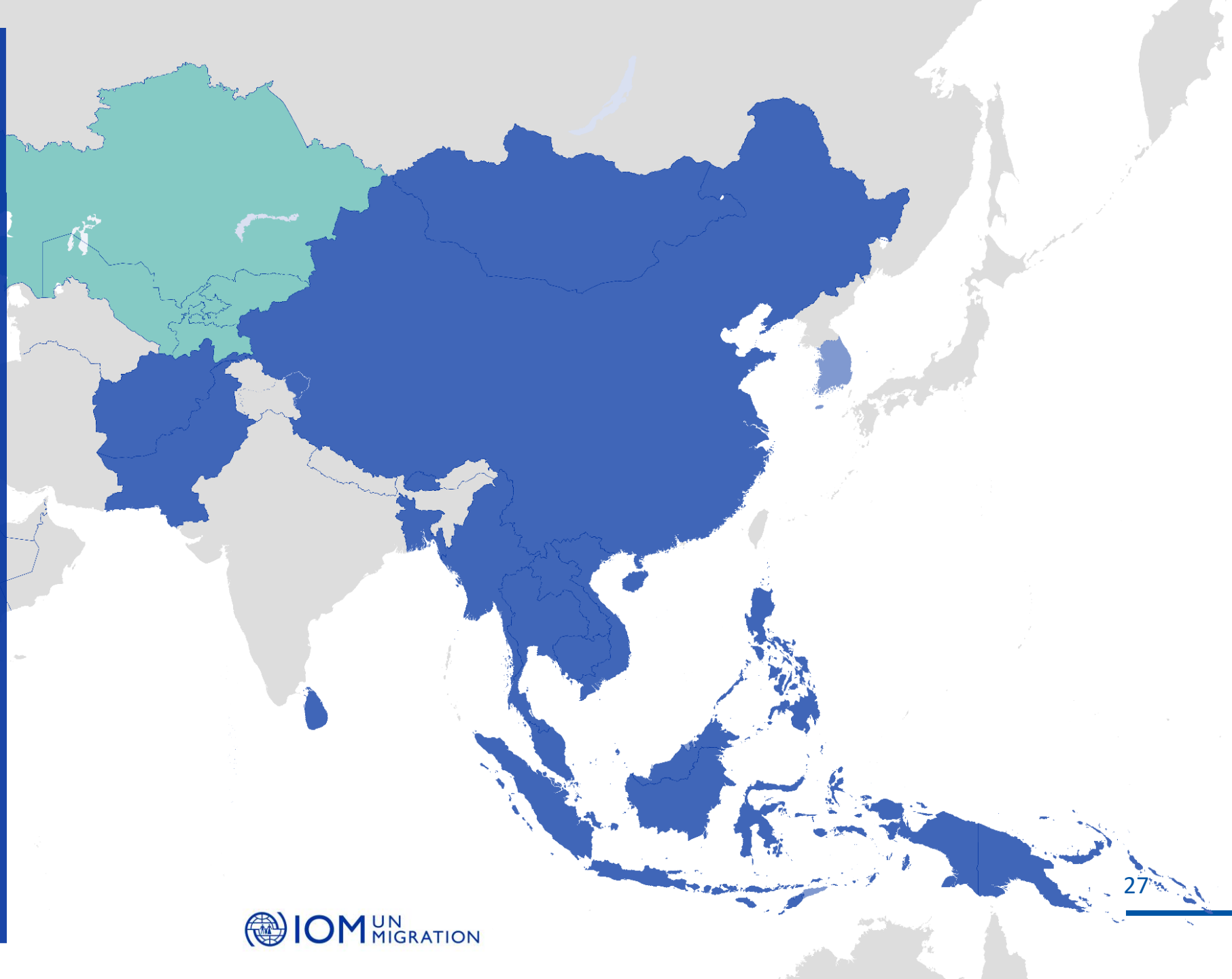
\*NON SELF-GOVERNING TERRITORY  
\*\* REFERENCES TO KOSOVO SHALL BE UNDERSTOOD TO BE IN THE CONTEXT OF UNITED NATIONS SECURITY COUNCIL RESOLUTION 1244 (1999).  
THIS MAP IS FOR ILLUSTRATION PURPOSES ONLY. THE BOUNDARIES AND NAMES SHOWN AND THE DESIGNATIONS USED ON THIS MAP DO NOT IMPLY OFFICIAL ENDORSEMENT OR ACCEPTANCE BY THE INTERNATIONAL ORGANIZATION FOR MIGRATION



# ASIA & THE PACIFIC

## Engaged/Active:

1. Afghanistan (inactive)
2. Bangladesh
3. Bhutan
4. Brunei Darussalam
5. Cambodia
6. China
7. Fiji
8. Indonesia
9. Lao People's Democratic Republic
10. Malaysia
11. Maldives
12. Marshall Islands
13. Mongolia
14. Myanmar
15. Pakistan
16. Papua New Guinea
17. Philippines
18. Republic of Korea
19. Singapore
20. Solomon Islands
21. Sri Lanka
22. Thailand
23. Timor-Leste
24. Tonga
25. Vanuatu
26. Viet Nam



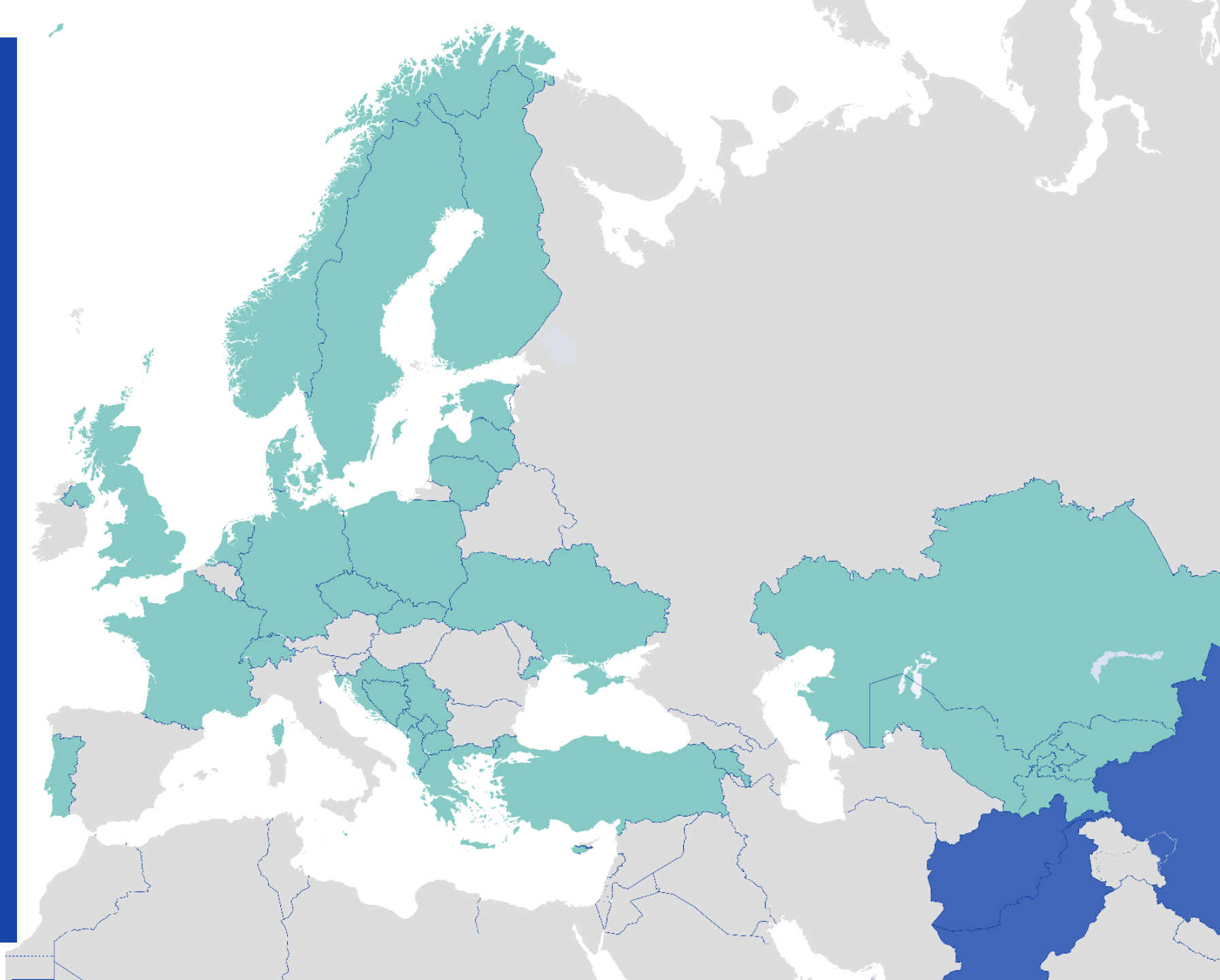
# EUROPE AND CENTRAL ASIA

## Engaged/Active:

1. Albania
2. Armenia
3. Bosnia & Herzegovina
4. Czech Republic
5. Denmark
6. Estonia
7. Finland
8. France
9. Germany
10. Iceland
11. Kazakhstan
12. Kosovo
13. Kyrgyzstan
14. Latvia
15. Lithuania
16. Luxembourg
17. Malta
18. Montenegro
19. Netherlands
20. North Macedonia
21. Norway
22. Poland
23. Serbia
24. Sweden
25. Tajikistan
26. Türkiye
27. UK
28. Ukraine
29. Uzbekistan

## Pending:

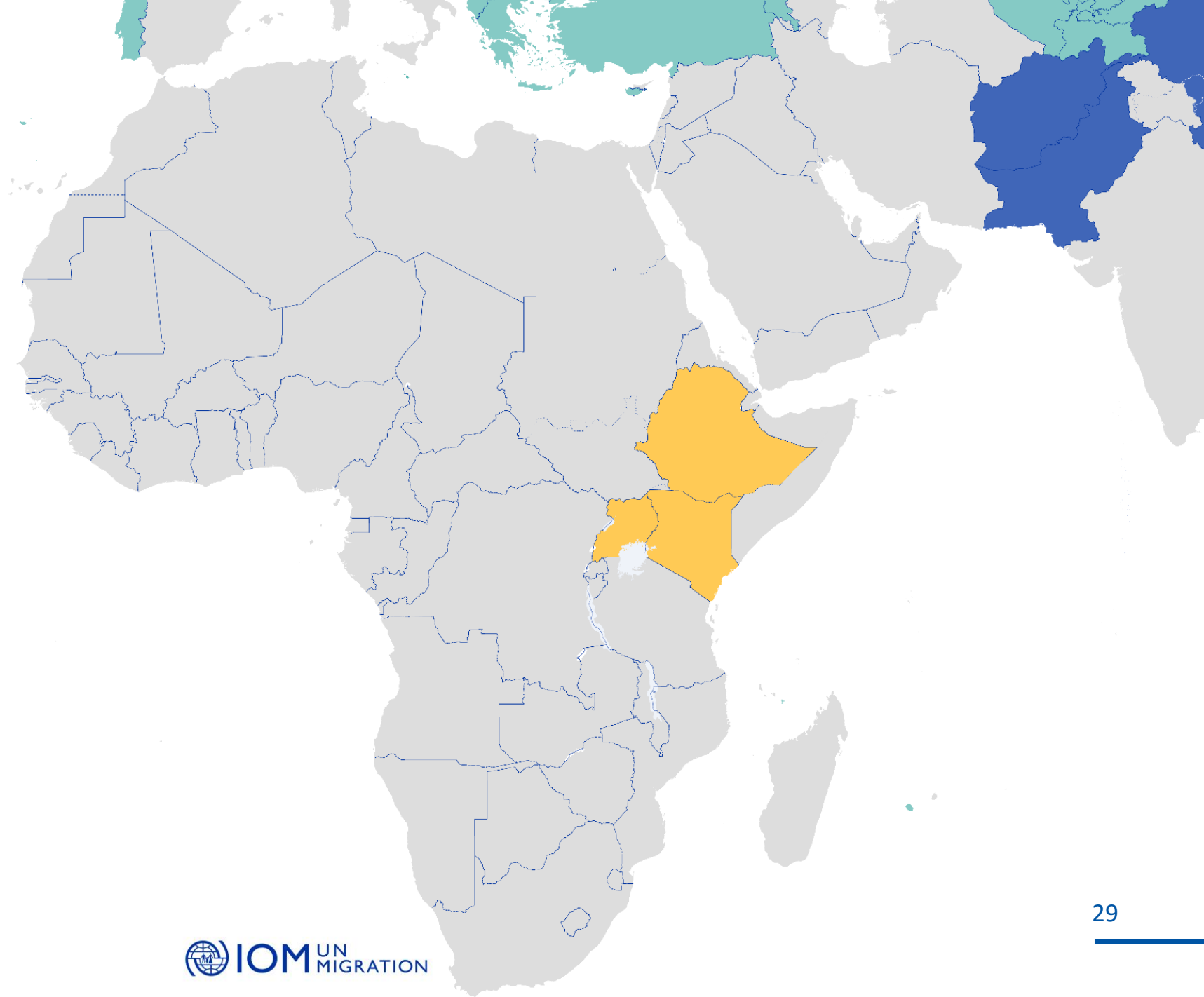
1. Belgium
2. Croatia
3. Cyprus
4. Greece
5. Italy
6. Portugal
7. Slovakia
8. Switzerland



# MIDDLE EAST AND AFRICA

## Engaged/Active:

1. Ethiopia (IOMDF)
2. Kenya (IOMDF)
3. Uganda (IOMDF)



# LATIN AMERICA AND THE CARIBBEAN

## Engaged/Active:

1. Antigua and Barbuda
2. Argentina
3. Bahamas
4. Barbados
5. Belize
6. Bolivia
7. Brazil
8. Colombia
9. Costa Rica
10. Dominican Republic
11. Ecuador
12. El Salvador
13. Guatemala
14. Guyana
15. Honduras
16. Mexico
17. Panama
18. Paraguay
19. Peru
20. Saint Kitts and Nevis
21. Saint Lucia
22. Suriname
23. Trinidad and Tobago

## Pending:

1. Chile
2. Cuba
3. Curacao
4. Dominica
5. Grenada
6. Haiti
7. Jamaica
8. Nicaragua
9. Saint Vincent and the Grenadines
10. Uruguay
11. Venezuela



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# Thank You

