Counting the Cost: Defining, estimating and disseminating statistics on illicit financial flows in Africa





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Background and introduction

Introducing the types of illicit financial flows, the measurement methods available and how this project is structured. Countries with high IFFs spend on average (UNCTAD, 2020):

25% less on health



58% less oneducation



Introduction

Illicit financial flows (IFFs) have a substantial and crippling effect on societies and economies, not only on the African continent, but also around the world. The COVID-19 pandemic, the war in Ukraine and the increasing costs of climate change and environmental challenges have had a particularly devastating impact on developing economies, highlighting the critical need for addressing the financing gap.

IFFs drain resources that would be needed to fulfil human rights and pursue sustainable development. Domestic resource mobilisation, assets recovery and curbing IFFs is more critical than ever.

Illegal practices such as trade misinvoicing, tax evasion and corruption, as well as some legal practices, such as tax avoidance are often used to divert funds earmarked for social development to tax and financial havens.

Those most affected are the poor, who have no choice but to rely on the government for social services. Research found that countries with high IFFs spend an average of 25% less on health and 58% less on education (UNCTAD, 2020)¹.

The 2030 Agenda for Sustainable Development, specifically Target 16.4 of Sustainable Development Goal (SDG) 16, outlines the impact and risk of IFFs to countries. The indicator aims to "significantly reduce IFFs and arms flows, strengthen the recovery and return of stolen assets, and combat all forms of organised crime" by 2030. Echoing this, the Addis Ababa Action Agenda on financing for development, calls for participating countries to prioritise efforts to reduce IFFs by 2030.

Reducing IFFs requires the global community to work collectively to understand the overall problem, the extent of the flows, their origins, routes and destinations, and country-specific circumstances. This information is key to taking action to curb IFFs. However, the absence of a globally accepted, standardised method for measuring these flows has been a persistent obstacle to working together.

¹ United Nations Conference on Trade and Development. Tackling IFFs for Sustainable Development in Africa. Economic Development in Africa Report, 2020.

By 2030, [Target 16.4 of SDG 16 aims to] significantly reduce IFFs and arms flows, strengthen the recovery and return of stolen assets and combat all forms of organised crime."

Project plan

A United Nations Development Account Project on **Defining, estimating and disseminating statistics on illicit financial flows in Africa** was initiated to address the lack of accepted standards in measuring flows. The project has led to globally agreed definitions, methodology and tools for producing more reliable and comparable estimates of the flows. This in turn has strengthened the statistical capacity of African countries and empowered them to develop more effective policies for measuring and tackling these flows. [IS2]

These resources are now available at the UNCTAD website for all countries dedicated to tackling IFFs and to enable them to measure and report on SDG indicator 16.4.1 *"Total value of inward and outward illicit financial flows"*.

Project activities

The project's activity plan comprises of three steps:



Project custodians and key organisations

The United Nations Conference on Trade and Development (UNCTAD) and the United Nations Economic Commission for Africa (UNECA) have jointly coordinated the IFF project in Africa, which is mirrored by similar projects in other regions. These projects include:

Region	Latin America	Africa	Asia- Pacific
Project	Developing indicator on illicit financial flows and monitoring them in Latin America	Defining, estimating and disseminating statistics on illicit financial flows in Africa	Statistics and data for measuring illicit financial flows in the Asia-Pacific region
Start/end date	July 2017 – December 2020	January 2018 – June 2022	July 2020 – December 2022
Focuses on	20		
	Criminal activities	Tax and commercial activities	Criminal activities and tax and commercial practices
Pilot countries	Colombia, Ecuador, Mexico, Peru	Angola, Benin, Burkina Faso, Gabon, Ghana, Mozambique, Namibia, Nigeria, Senegal, South Africa, Zambia	Bangladesh, Maldives, Nepal, Viet Nam, Kyrgyzstan, Uzbekistan
Key organisations	UNDEC UNDEC UNE UNITED ANTONS	UNDOCC Under Making Office on Drugs and Crime	UNCEC UNITED NATIONS UNITED NATIONS UNITED NATIONS
	UNITED NATIONS E C L A C	United Nations Economic Commission for Africa	

Conceptual Framework

Defining illicit financial flows

The definition of illicit financial flows in SDG indicator 16.4.1 (see right) was endorsed by the UN Statistical Commission in March 2022 as part of the Conceptual Framework for the Statistical Measurement of Illicit Financial Flows. "IFFs are financial flows that are illicit in origin, transfer or use, that reflect an exchange of value and that cross country borders."

Main features for defining illicit financial flows



Types of illicit financial flows

SDG indicator 16.4.1 calls for the measurement of the "total value" of IFFs, which is useful for gaining an overall, high-level view of the problem. However, for deeper insights into the IFFs at country levels, it is useful to categorise the flow by type and source.

IFFs can be classified into four types: tax and commercial activities, illegal markets, corruption, exploitation-type activities and financing of crime and terrorism. The pilot studies in Africa focused on the measurement of tax and commercial IFFs, which is also the focus of this report (see Annex 1 for 'Decision tree for IFF taxonomy').



IFFs from aggressive tax avoidance

This can take place through the manipulation of transfer pricing, strategic location of debt and intellectual property, tax treaty shopping and the use of hybrid instruments and entities. These flows need to be carefully considered, as they generally arise from legal business transactions and only the illicit part of the cross-border flows belongs within the scope of IFFs.

IFFs from illegal commercial and tax practices

These include illegal practices such as tariff, duty and revenue offences, tax evasion, competition offences and market manipulation. Most of these activities are non-observed, hidden or part of the "shadow economy", the underground economy or the informal economy that may generate IFFs. METHOD 1

METHOD 3

METHOD 5

METHOD 2

METHOD 4

METHOD 6

Measuring illicit financial flows from tax and commercial activities

The Conceptual Framework provides a standardised basis for measuring and comparing IFFs consistently and comprehensively. Several specific measurement methods are recommended for IFFs arising from tax and commercial activities (see table). These include:

Partner Country Method Plus

Discrepancies in reported bilateral trade flows are reviewed in this method. For example, country A's reported imports from country B are cross-checked against country B's reported exports to country A. Each possible reason for a discrepancy, such as valuation and partner country attribution, is addressed systematically to ascertain which asymmetries may have contributed to IFFs.

Price Filter Method Plus

This method uses granular, transaction-level microdata rather than relying on partners' reported transactions. It applies a price filter to identify abnormally priced transactions in international trade that could be contributing to IFFs. The limitations and uncertainties of this method are somewhat offset by the involvement of national customs experts.

- Global distribution of multi-national enterprises' (MNEs) profits and corporate taxes

The underlying assumption here is that an MNE is likely to shift its profits from one country to another to benefit from lower tax rates there. This method identifies potential IFFs by examining how an MNE's profits are distributed among its units globally relative to the effective corporate tax rates in different countries and the economic activities of specific units. Using unitlevel microdata where it is available produces the most reliable estimates of profit-shifting by MNEs.

- MNE versus comparable non-MNE profit shifting

By comparing MNE units with domestic (non-MNE) units with a similar profile, this method identifies potentially tax-avoidance behaviours and estimates the amount of profit that may have been shifted as a measure of IFFs. The method is based on business statistics microdata readily available to statistical authorities in many countries, although it may be more challenging to fully implement in smaller economies where the number of businesses may be lower.

Flows of undeclared offshore assets indicator

IFFs sometimes arise from undeclared offshore assets. This method compares an individual's declared offshore assets with internationally reported estimates of offshore assets held by that individual. This method has significant data requirements and several assumptions must be made to transform stock measures into flow measures for approximating outward IFFs for a country.

Flows of offshore financial wealth by country

In this method, estimates of global offshore financial wealth are first derived by studying global imbalances between international portfolio assets and liabilities. This is then broken down by country of ownership and by the International Financial Centre, and the level of illicit flows is identified by making an assumption about the non-compliance rate on offshore wealth. As in the previous method, transforming stock into flow measures is a challenge and constrained by the data availability.

Tax and commercial illicit flows: sources, transfers and methods for each category



METHOD 2 Price filter method plus

corporate taxes **METHOD** MNE vs comparable non-MNE profit shifting indicator

country

METHOD 6

Flows of offshore

financial wealth by

8

Guidelines and tools for measuring tax and commercial illicit financial flows

SECTION

This section provides a step-by-step guide to measuring IFFs from tax and commercial practices. It includes a flow diagram that leads national statistical authorities through the measurement journey, a checklist for each step and links to necessary tools. Step-by-step journey to start measuring IFFs



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template

Step-by-step measurement journey

Step 4 —

Method selection

The selection of a method is

based on the availability and

commercial flows in a specific

assessment is suggested to choose the most

country. Useful tools include:

quality of data on tax and

• A tier-classification

appropriate method

based on the national

• Method fact sheets have

also been made available

Where possible, more than

applied when estimating and

one method should be

measuring IFFs to cross-

validate the results and

to further refine the process

circumstances

of selection

.

Step 5

Measurement plan with an operational definition

The national statistical authority, with input from experts and stakeholders, draws up a pilot testing plan based on the country's specific circumstances.

Measuring all IFFs in a country is a nearly impossible task. A more pragmatic focus would be to identify:

• The most prevalent and detrimental types of flows

• The most crucial data needs of that country

An operational definition is a clear, concise and detailed description of what an indicator aims to capture.

Step 6

Compilation and dissemination of IFF statistics

This step involves testing the chosen measurement methods with the available data in one or two aspects or sectors to produce initial estimates of the flows.

Through iteration and testing, the process can then be refined until a comprehensive analysis of IFFs is conducted at the country level.

Estimates can be published and shared with participating pilot countries, policy makers and wider audience through official statistics dissemination process.

Tools used

Action plan template

Pilot study report template

Proposed work plan



confirm their reliability.

Criteria for assigning points in the quality assessment framework

Method fact sheets





Measurement Journey: checklist

This checklist is a guide to the steps of IFF measurement with reference to relevant sections of the Methodological guidelines to measure tax and commercial illicit financial flows.

Step	Activity	Reference in guidelines	Check
	Review official statistics on illegal economy, informal economy, non-observed economy.	Part III, Chapter 1, p. 79	Ø
	Review research, studies, literature on IFFs.	Part III, Chapter 1, p. 79	Ø
IFF risk assessment	Interviews with experts.	Part III, Chapter 1, p. 79	Ø
	Preliminary analysis (early assessment) of IFFs.	Part III, Chapter 1, p. 80	© © ©
	Develop priorities for statistical work.	Part III, Chapter 1, p. 80	Ø
	Identify relevant national agencies through a set of questions.	Part III, Chapter 2, p. 82-83	Ø
Mapping of national agencies	Determine roles of agencies: lead, supporting, other.	Part III, Chapter 2, p. 84; Part IV, Chapter 3, Section B, p. 129	Ø
	Determine agencies' involvement in the statistical process: compiling or data providing agency.	Part III, Chapter 2, p. 84; Part IV, Chapter 3, Section B, p. 129	Ø
Data availability	Consider practical questions, such as who has the data, what data etc.	Part III, Chapter 3, p. 85	Ø
	Assess national statistical context for measuring IFFs.	Part IV, Chapter 3, Section A, p. 119	Ø
	Process data availability and quality review of data sources by method.	Part IV, Chapter 3, Section C, p. 133-139	Ø
Method	Select method(s) to measure IFFs using evaluation framework, tier-classification of methods and method fact sheets, basing decision also on data availability.	Part III, Chapter 4, p. 88-90;	Ø
selection	If possible, triangulate methods, use more than one method.	Part IV, Chapter 3, Sections D and E, p. 140-158	Ø
Operational definition	Parl III Loaniers n Mi		Ø
Compile and disseminate IFF statistics	Test the measurement of IFFs covering only some aspects or sectors, produce preliminary and early estimates of IFF statistics.	Part III, Chapter 6, p. 92	Ø
	Conduct in-depth and thorough analysis of IFFs, when possible.	Part III, Chapter 6, p. 92	Ø
	Compile estimates disaggregated by relevant types of IFFs (minimum and additional disaggregation levels).	Part III, Chapter 6, p. 92	Ø
	Publish IFF estimates clearly and transparently.	Part III, Chapter 6, p. 92	Ø

National Activities

What are the initial results? A snapshot of statistical outcomes from pilot countries across the continent.

Statistical outcomes

This map shows the results of 2021-2022 pilot testing, with countries using different methods and covering different types of IFFs, commodities and activities. Therefore, direct comparison between countries' preliminary estimates is not possible. Even though there is a requirement to report inward and outward IFFs for SDG Indicator 16.4.1, not all preliminary estimates provide this breakdown. These preliminary estimates still need to be fine tuned by national technical working groups in pioneering countries.



This means that efforts to curb IFFs in these countries, based on clear and robust evidence provided by a monitoring tool, could free important resources that could be used to finance development interventions, with a potentially high impact on the economy and the living conditions of the population.



Country Profiles

A snapshot of the process and results for each of the eleven pilot countries.



Pilot country profile: Angola

During the project, Angola was led by the National Statistics Institute. They plan to define a country-level task force to be able to identify the source of IFFs and produce preliminary results.

1. Pilot country process



2. Organisations of the Technical Working Group

Lead Institution

National Statistics
 Institute

Data Providers and Support

- Ministry of Finance
- Secretary to the President on Economic Affairs
- National Bank of Angola
- General Tax Authority
- Ministry of Economy and Planning
- Ministry of Justice and Human Rights



- General Inspectorate of State Administration
- Committee for the Implementation of the United Nations Convention Against Corruption

Others

- Office of UN Resident
 Coordinator
- UNDP Country Office
- UNODC Country
 Office

Law Enforcement

- Financial Information Unit
- Attorney General's Office
- Intelligence and State Security Service
- Court of Appeal and Supreme Court

To create national buy-in, meetings were held with Secretaries to the President on both economic and judicial affairs. The UN in-country team (UNDP, RCO, UNODC) enabled key institutions to prepare for the training."

Method **1** Partner Country Method Plus

Method 2 Price Filter Method Plus



Method 1: Worked well but with slight weaknesses in practical implementation.

Method 2: Worked well with some weaknesses and lack of definition of criteria for excluding abnormal prices up to half of the sample.

Trade mispricing occurs when the unit price of a given transaction differs from the normal prices assumed by a price filter, i.e, when an abnormal price of a particular transaction is identified.

4. Magnitude of IFFs





5. Benefits and Challenges



Benefits

- Capacity building
 and strengthening
- National buy-in
- Support from UNCTAD/ECA
- Collaboration with UN-in country teams

G

Allocating time to the task

Challenges

- Absence of exchange platform with pilot countries
- Language and communication

The way forward...

- Define a country-level task-force on IFFs
- Adopt good practices from neighbouring or partner countries in identifying possible IFFs
- Build capacity on identifying IFFs



Pilot country profile: Benin

The Pilot country process in Benin is being led by the National Institute of Statistics and Demography (INStaD). INStaD has the support of relevant institutions working together to identify the source of IFFs.

1. Pilot country process



2. Organisations of the Technical Working Group

Lead institution

 National Institute of Statistics and Demography

Data providers and support

- Central Bank of West African States
- National Financial Information Processing Unit
- Directorate General of Customs and Indirect Taxation
- Directorate General of State Holdings and Denationalisation
- General Tax Administration

- General Administration of Trade
- General Directorate
 of the Treasury and
 Public Accounting
- Professional Association of Banks and Financial Institutions
- National Agency for the Supervision of Decentralized Financial Systems



- Law enforcement
 - National Anti-Corruption Authority
 - Central Office for the Repression of Cybercrime
 - General Directorate of the Republican
 Police
 - Central Office for the Repression of Illicit Drug Trafficking and Precursors

Private institutions

Webb Fontaine and Benin Control

Method 1

Partner Country Method Plus

Method 2

Price Filter Method Plus

4. Magnitude of IFFs

Both methods were chosen to assess the extent of IFFs in the export of cashew nuts and cotton. These two commodities are considered essential to Benin's export industry.



Both methods' results differed significantly demonstrating the need to further refine the data collected to achieve reliable results.



Both methods were easy-to-use

partner countries and there were difficulties accessing contractual data.

and allowed access to data. However, more information was required from

Cotton fibre

Estimations of IFFs on the export of cotton fibre, using the PCM+ and PFM+, are not yet finalised due to a lack of available data.

No estimations were carried out for imports of cotton or cashew nuts. This is due to the weakness of inward flows in these categories.

5. Benefits and Challenges



Benefits

- Awareness raising
- Establishment of the TWG
- National consultant



Challenges

- Insufficient governmental support
- Data availability and confidentiality
- Lack of support from UNCTAD and ECA

The way forward...

- Review the report on the results of the pilot tests
- Continue the Technical Working Group
- Make a plan for the measuring of IFFs
- Get buy-in from stakeholders
- Improve data gathering
- Coordinate efforts to report on SDG indicator 16.4



Pilot country profile: Burkina Faso

In Burkina Faso, the pilot project was led by the National Institution of Statistics and Demography. The country benefited from close collaboration with UNCTAD experts.

1. Pilot country process



2. Organisations of the Technical Working Group

Lead institution

 National Institute of Statistics and Demography

Data providers and support

- General Directorate of Taxes
- General Directorate of Customs
- General Directorate of Treasury and Public Accounting
- National Directorate of the Central Bank of West African States
- Directorate of Criminal Affairs and the Seal, Prosecutor of Faso
- General Directorate for Sectoral Studies and Statistics of the Ministry of Justice
- West African Economic and Monetary
 Union



- General Directorate for Sectoral Studies and Statistics(of the Ministry in charge of Energy and Mines
- Extractive Industries Transparency Initiative
- National Financial Information
 Processing Centre

Private institutions

- Journal l'Économiste du Faso
- Professional Association of Banks and Financial Institutions

Civil society organizations

- Integrity Lab Architecture and Anticorruption Building in Afrika
- Organisation pour le Renforcement des Capacités de Développement
- National Anti-Corruption Network
- Norbert Zongo Cell for Investigative Journalism

Method 1 Partner Country Method Plus

What worked:

- Stakeholder engagement
- Access to statistical data
- Data collection
- In-depth and detailed estimates at product level
- Training of stakeholders

What can be improved:

- Estimates were not completed
- Delay in updating Burkina's UNComtrade data
- Automate the gap calculation for easy annual calculation
- Visualization of data
- Exchange of information agreements with countries

4. Magnitude of IFFs

Preliminary estimates suggest the presence of potential IFFs in different sectors including:



5. Benefits and Challenges



Benefits

- Mapping of institutions
- IFFs have been identified
- Establishment of the TWG
- National Action plan
- Support from UNCTAD and ECA



Challenges

- Support from the government
- Provide the institutions with appropriate softwares
- Data availability and confidentiality
- Absence of exchange platform with other countries

The way forward...

- Strengthen the TWG's technical capacity on measurement methods
- Strengthen technical capacity of institutions in charge of monitoring and verification
- Enhance local expertise at different levels of the extractive industry value chain
- Build technical capacity of the Tax Intelligence Unit on transfer pricing and international taxation
- Set up databases in operational structures such as General Directorate of Taxes, General Directorate of Customs, General Directorate of Treasury and Public Accounting, Extractive Industries Transparency Initiative
- Strengthen the collection of specific data in order to allow the use of other evaluation methods



Pilot country profile: Gabon

Pilot process in Gabon is being led by the National Commission for the Fight Against Illicit Enrichment (CNLCEI). With CNLCEI's support, more integrated policies and actions will be implemented to combat IFFs.

1. Pilot country process



2. Organisations of the Technical Working Group

Lead institution: National commission against corruption and illicit enrichment (CNLCEI)

Civil society stakeholders: Brainforest, Malachie Gabon, ROLBG

Law enforcement: Court of Audit, Bureau de Documentation et de l'Immigration, Bureau Central National Interpol

Private institutions: Chamber of commerce, Gabonese Employers' Confederation, Union Pétrolière Gabonaise, Union of Mining Professionals, Union des Forestiers et Industriels du Bois du Gabon, National Order of Cartered Accountants, Association Professionnelle des Etablissements de Crédit **Data providers and support:** Ministry for the Promotion of Good Governance and the Fight against Corruption; Ministry of Justice, Keeper of the Seals, in charge of Human Rights; Directorate General of Public Accounts and Treasury, Directorate General of Taxes, Directorate General of Statistics, Directorate General of Customs and Indirect Taxation, Direction Générale de la Documentation et de l'Immigration, Ministry of Water, Forests, Sea and Environment (in charge of the Climate Plan and the Land Allocation Plan), Ministry of Agriculture, Livestock, Fisheries and Food, Ministry of Oil, Gas and Mines, Economic, Social and Environmental Council, Central African Banking Commission

Method

Partner Country Method Plus

Method **2**

Price Filter Method Plus

These methods were used to produce estimates of trade-related IFFs for the period 2010-2021



The quality of the results was affected by erroneous estimations of the weight and quantities of certain products. This influenced the unit price and distorted evaluations made using

the price filter. No adjustments were made to this inaccurate data.

4. Magnitude of IFFs

Between 2010 and 2021, Gabon suffered from trade mis-invoicing in the following areas:



5. Benefits and Challenges



of TWG

exchange platform with pilot countries

The way forward...

- Operationalise the TWG and set up a monitoring and information-sharing system to reduce risks on the various activities that are generating IFFs
- Strengthen national capacities, • including those of the CNLCEI and National Statistical System institutions to measure and monitor IFFs
- Train a panel of national experts on different methods assessing IFFs to ensure the production of annual monitoring reports for SDG indicator 16.4



Pilot country profile: Ghana

The Ghana Statistical Service has been leading the country's IFF measurement process.

1. Pilot country process



2. Organisations of the Technical Working Group

 ISODEC/Tax Justice Network - Civil Society



Method 1

Partner Country Method Plus

Method 2

Price Filter Method Plus

These methods were used to produce estimates of IFFs for the period 2012-2021



Experience with the methods shows PFM is easy to use since it does not require trade data from partner countries.

4. Magnitude of IFFs

For the period 2000-2012, preliminary estimates for gold, cocoa and other extractive industries show that between Ghana, the US and the EU, inward and outward IFFs amounted to **US\$8.44 billion**.



5. Benefits and Challenges



Benefits

- Awareness raising
- Set-up of TWG
- Support from
 UNCTAD and ECA



Challenges

- Support from Government
- Data availability/ confidentiality
- Exchange platform with pilot countries

The way forward...

This project has generated interest among policymakers and academics who want to understand the impact of IFFs, locally, and so take the necessary steps to prevent further damage.

Data availability has been the biggest challenge so far, with detailed, itemlevel (HS10) trade data needed from Ghana and partner countries. Efforts to collect this data from Ghana's customs are currently underway with the help of the Ministry of Finance, which will collate the figures and ensure general acceptability for all stakeholders.



Pilot country profile: Mozambique

Under the leadership of the National Statistical Office, Mozambique was able to produce preliminary results of IFFs.

1. Pilot country process



2. Organisations of the Technical Working Group

Data providers and Lead agency support National Statistical Tax authority Office Bank of Mozambigue • Ministry of Finance Private institutions/ Ministry of Industry CSOs/Academia and Commerce • UN RCO Ministry of Agriculture Ministry of Mineral Resources Law enforcement Anti-corruption • Financial Central Office Intelligence Unit National Criminal • Republic Investigative General Attorney Service

Method 1

Partner Country Method Plus

This method was used to produce estimates of trade misinvoicing for the period 2017 to 2020



Estimation accuracy is achieved when limitations of the method are overcome. In this case no adjustments were made for:

- time difference
- special classifications related to miscellaneous category (defence)
- data coverage
- legal informal trade and registration errors
- misclassification

4. Magnitude of IFFs

There are no reported results for the magnitude of IFFs.

5. Benefits and Challenges



Benefits

- Capacity building
- Support
- Networking
- Challenges
- FundingMaintaining
- technical skills & knowledge
- Data availability / confidentiality

The way forward...

- Consolidate and continue to develop capacities among TWG members
- Improve the quality of statistical information to allow for PFM to be applied to the country
- UNECA/UNCTAD to continue to provide specific and in-depth training on the remaining methods suggested in the methodological guidelines
- Build partnerships with other countries to enable collaboration on the various aspects, from data crossing to IFFs measurement

At the end of the Training Workshop, 10 members of the TWG, with knowledge of statistical tools, were selected to be part of a small group in charge of the pilot estimation and report drafting. During the process, the group met once a week under the leadership of INE to discuss results."



Pilot country profile: Namibia

During the project, the process was led by the Bank of Namibia. They plan to further strengthen their capacity by appointing a Secretariat to continue the measurement of IFFs.

1. Pilot country process



2. Organisations of the Technical Working Group



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Method 1

Partner Country Method Plus

Method 2 Price Filter Method Plus

4. Magnitude of IFFs

Results using Method **2** have been summarised as the following:

Statistical Method

Market Price Method



All members of the TWG were trained on the six methodologies and attended specific training on the Partner Country Method Plus and Price Filter Method Plus. All members now know how to measure IFFs using these two methods and can comfortably extract the data and apply the methods to achieve IFF estimates."



Pilot country profile: **Nigeria**

In Nigeria, the pilot project was led by the National Bureau of Statistics. Further training and collaboration is needed in order to give reliable estimates.

1. Pilot country process



2. Organisations of the Technical Working Group

- Central Bank of Nigeria
- Economic and Financial
 Crimes Commission
- Federal Ministry of Finance, Budget and National Planning
- Federal Inland Revenue Service
- National Bureau of Statistics
- National Drug Law Enforcement Agency
- Nigeria Customs Service
- Nigeria Extractive Industries Transparency Initiative



- Nigerian Financial Intelligence Unit
- Independent Corrupt Practices & Other Related Offences Commission

The process has been very inclusive as all agencies had representatives. The Technical Working Group also received a refresher tutorial on some of the statistical software."

Others

 UN Resident Coordinator's Office

Method D Partner Country Method Plus

Method 3 Global distribution of multi-national enterprises' (MNEs) profits and corporate taxes

Method 1: Estimated IFFs based on trade misinvoicing. Compares import (or export) values reported by one country with the corresponding export (or import) values reported by its partner country. It is based on a trade gap, defined as discrepancy in the values of a trade transaction, independently reported by both trading partners (1).

Method 3: Estimated IFFs by examining the distribution of profits of an MNE among its units globally based on microdata and relates it to the corresponding corporate (effective) tax rates and underlying economic activity of a particular unit. It assumes that an MNE unit is likely to shift profits out of the country if another unit's tax regime induces a lower tax rate (2).

4. Magnitude of IFFs

Exploratory estimations

Data limitations and time constraints meant that no definite results of IFFs could be obtained.

5. Benefits and Challenges



Benefits

- Capacity building and strengthening
- National ownership
- National action plan



Challenges

- Low levels of funding
- Inadequate technical skills and knowledge of TWG
- Limited time to the task

The way forward...

- Have regular meetings of the TWG
- Discuss data issues and create datagathering templates
- Increase collaboration and data gathering amongst all agencies
- Comprehensive data gathering to facilitate robust estimation of IFFs

¹ https://unctad.org/system/files/non-official-document/20210917_IFFsGuidelinesForPilots_en_0.pdf

² https://unctad.org/system/files/non-official-document/20210917_IFFsGuidelinesForPilots_en_0.pdf



Pilot country profile: Senegal

In Senegal, the pilot project was led by the National Institute of Statistics and Demography. Support from UNCTAD contributed significantly to success in the project.

1. Pilot country process



2. Organisations of the Technical Working Group

Lead institution

- National Agency for Statistics and Demography
- Data providers and support
- Central Bank of West African States
- National Financial Information Processing Unit
- General Directorate of Taxes and Domains

· Ministry of the

Ministry of Fisheries

Directorate/Ministry

Ministry of the

Environment

Human Rights

of Justice

Interior

- General Directorate of Customs
- Directorate General of the Financial Sector

- CSOs / Academia
 - Legs Africa
- Forum Civil

Private institutions

 Extractive Industries Transparency Initiative

Law enforcement

 National Office for the Fight against Fraud and Corruption During this project, institutions such as the National Institute of Statistics and Demography, the Directorate-General for Customs and the General Directorate of Taxes and Domains, learned about IFF estimation methodologies and how to understand what adjustments need to be made to data to achieve reliable estimates."

Method **1** Partner Country **Method Plus**

Method **2** Price Filter Method Plus

These methods were used to estimate IFFs from trade mis-invoicing from 2015 to 2019

Method 3 Global distribution of multinational enterprises' (MNEs) profits and corporate taxes

This method was used to measure semi-elasticity of tax rates to declared profits taxation

Method 1 – Several adjustments were made to improve the accuracy of estimates.

Method 2 – The PFM+ was implemented on a single product (pepper) because of its relative price stability.

Method 3 – National tax declarations of MNEs operating in Senegal have been used as a data source.

4. Magnitude of IFFs

Estimates show that IFFs are concentrated in the following sectors:



Financial and insurance activities



Information and communication services sector



Extractive activities



IFFs were identified:

Using Methods 1, 2 and 3, the following

Profit shifting by multinationals accounts for a significant share of annual reported taxable profits, on average, from 2017 to 2019. This was calculated using Method 3.



Incoming IFFs represent a significant share of Senegal's annual foreign trade over the period 2015-2019. This was calculated using **Methods** 1 and 2.



Outgoing IFFs are weak compared to Senegal's foreign trade. This was calculated using **Methods** (1) and (2).

5. Benefits and Challenges



Benefits

- Capacity building and strengthening
- Establishment of the TWG
- Support from UNCTAD/ECA
- National action plan

Challenges

- Funding
- Absence of exchange platform with pilot countries
- Allocating time to the task

The way forward...

- Improve the quality of customs and tax data
- Implement a permanent framework for data exchange and statistics estimates on IFFs
- Expand external sources of information • (e.g., access to the COMMOPRICE database on international goods prices, access to and collection of data on international banking transactions)



Pilot country profile: South Africa

South Africa benefited from an Inter-Agency Working Group which established a sub-committee to measure IFFs. IFFs and key role players were identified, and results were provided using the methodological processes.

1. Pilot country process



2. Organisations of the Technical Working Group

Law enforcement and intelligence agencies

- Financial Intelligence
 Centre
- South African Police Service (Crime intelligence)
- Directorate Priority Crime Investigation (DPCI)
- Asset Forfeiture Unit
- National Prosecuting Authority



- Secret Service
 Agency
- Financial Sector
 Conduct Authority

Statutory Bodies

- National Treasury
- Statistics South Africa
- South African Revenue Services (tax and customs)
- South African Reserve Bank (Financial Surveillance Department)

Method D Partner Country Method Plus

4. Magnitude of IFFs

South Africa's IFFs are most prevalent in the following countries:



The net outflow amounted to \$18,4 billion and the cumulative illicit flows amounted to \$62,3 billion.

5. Benefits and Challenges



Benefits

- Capacity building and strengthening
- National consultant
- Support from UNCTAD/ECA



Challenges

- Allocating time to the task
- Absence of exchange platform with pilot countries
- Capacity to measure, since this is outside the scope of the day-to-day activities of TWG officials

The way forward...

- Improve interagency collaboration
- Make measurement a function of the IAWG through the sub-committee
- Automate the PCM+ and PFM+ methods with SARS and develop machine learning to identify trade misinvoicing at a consignment level and identify perpetrating firms
- Improve the quality of data
- Train and refine the methodologies



Pilot country profile: Zambia

Zambia was able to produce early estimates with the Zambia Statistics Agency, who led the methodological process with support from the Zambia Revenue Authority. A plan has been put in place to produce the first set of reliable estimates.

1. Pilot country process



2. Organisations of the Technical Working Group



All institutions have complementary roles in the process. The members were appointed by the Secretary to the Treasury to ensure buy-in at the highest level and day-to-day activities delegated to the National Statistical Office, an authority in data collection, measurement and dissemination."

Method 1

Partner Country Method Plus Led by the Zambia Statistics Agency

Method 3

Global distribution of multinational enterprises' (MNEs) profits and corporate taxes

Led by Zambia Revenue Authority

4. Magnitude of IFFs

Method 1

The preliminary findings based on seven major trading partners, show that US\$44.9 billion was potentially misinvoiced during the period 2012-2020:

- Obtained trade statistics (merchandise imports and exports) for 2012-2021 and compared between ZamStats and UN Comtrade data
- Used at least 80% of the total trade by year to determine major partners
- Identified 22 countries as major partners
- Highlighted countries with significant mirror discrepancies for both inbound and outbound trade

5. Benefits and Challenges



Benefits

- Capacity building and strengthening
- Establishment of TWG
- Awareness raising
- Network



Challenges

- Low levels of funding
- Data availability and confidentiality
- Allocating time to the task



More work is required to account for:

- differences in classification systems used
- adjustments for merchanting
- re-exports
- differences in trade systems
- adjustments for differences in shipment times
- partner-country attribution

Method 3

Obtained database of MNEs operating in Zambia during 2019-2020 from International Taxation Unit, Zambia Revenue Authority:

- Classified MNE's based on number of employees; total value of sales; operating profit; profit before tax; profit after tax; tax paid; total fixed assets; and total assets
- Profiled MNEs based on the above variables to determine which thresholds to use

The way forward...

- Determine a more holistic picture of trade mis-invoicing
- Account for remaining asymmetries
- Establish a mechanism for better tracking the effective destination of Zambian exports
- Explore the use of weighting procedures
- Complement the findings with qualitative methods
- Further analysis on the use of the Price Filter Method



Resources

List of resources relating to IFFs

Resources

Define IFFs: https://www.youtube.com/playlist?list=PLji49uujoC9rySbe6hNQ2ZXPomyFWctTS

Interviews and other videos: https://www.youtube.com/ watch?v=j4OyF_yw10o&list=PLji49uujoC9o1CJneBwlpN52Je-_zP4L_

Statistical measurement of tax and commercial IFFs: https://www.youtube.com/ playlist?list=PLji49uujoC9o0E2QBbsrZbWMOFE4Td8o7

UNCTAD Africa IFF project: stats.unctad.org/iffs

UNCTAD Stat Youtube channel: https://www.youtube.com/channel/ UCbRSDgH8NS-U6aAJ_Q6B14w

UNCTAD website dedicated to IFFs: https://unctad.org/statistics/illicit-financial-flows

Webflyer for the Conceptual Framework: https://unctad.org/webflyer/conceptual-framework-statistical-measurement-illicit-financial-flows

Webflyer for the Guidelines: https://unctad.org/webflyer/methodological-guidelines-measure-tax-and-commercial-illicit-financial-flows-methods-pilot



Annexes

Additional information

ANNEX 1. A decision tree to identify activities generating illicit financial flows

The decision tree for IFF taxonomy



Each activity is being analysed considering three aspects:

- Change in income: This considers whether the activity is economic (directly or indirectly generating a change of income) or non-economic;
- Direct or indirect flows: This activity generates a change of income with or without direct exchange of resources;
- Productive or non-productive activities: falling within or outside the production boundary as defined in the SNA.

Such taxonomy allows for addressing not only whether each activity generates IFFs, but also which part(e.g, income generation or income management) thus guiding IFF measurement. For more information, see: Statistical measurement of illicit financial flows (unctad.org).

ANNEX 2. Definition of Statistical Method and Market Price Method

Statistical Price Filter Method: The statistical determination of the price filter uses statistical elements, mostly regarding the variation or the range of the price filter (lower- and upper-bound prices). A 3-day moving average in Namibia was used for the estimation.

Market Price Filter Method: The market price calculation of the price filter is when the international market price has been used as the central price, with an agreed variation of 10% (up and down) to determine the price filter. This technique was applied in Namibia.