

# **Teal Insights' Guide to Working with the World Bank International Debt Statistics**

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# Table of contents

<b>Preface</b>	<b>3</b>
Part One: Foundations of IDS Data . . . . .	3
Part Two: Applied Analysis with the {wbids} R Package . . . . .	4
About Teal Insights . . . . .	4
<b>1 Introduction</b>	<b>6</b>
1.1 Introduction to the International Debt Statistics . . . . .	6
1.2 What is the International Debt Statistics? . . . . .	6
1.3 Origins and Development . . . . .	6
1.4 Accessibility and Updates . . . . .	6
1.5 Significance for Stakeholders . . . . .	7
1.6 Key Insights Enabled by IDS Data . . . . .	7
<b>2 Summary</b>	<b>9</b>
<b>References</b>	<b>10</b>

# Preface



# TEAL INSIG

This guide is designed to serve as a comprehensive resource for understanding and utilizing the World Bank's International Debt Statistics (IDS). It is structured to fulfill two primary objectives, each aimed at enhancing the reader's capacity to work effectively with this critical dataset.

## Part One: Foundations of IDS Data

The initial section of this book is dedicated to providing readers with the necessary background to become informed consumers of IDS data. It encompasses:

1. A detailed overview of the data available within the IDS, including its scope, structure, and key variables.
2. An exploration of the types of policy-relevant questions that can be addressed using IDS data, with illustrative examples from recent economic research and policy analysis.

3. A thorough examination of the data creation process, from initial reporting through the Debtor Reporting System (DRS) to the final compilation and release of the IDS.
4. A critical discussion of the strengths and limitations inherent in the IDS dataset, enabling readers to approach the data with appropriate context and caveats.

This section aims to equip readers with a nuanced understanding of the IDS, ensuring they can interpret and apply the data with confidence and accuracy.

## **Part Two: Applied Analysis with the {wbids} R Package**

The second section of this book focuses on practical application, introducing readers to the {wbids} R package. This tool has been developed to facilitate efficient analysis of IDS data within the R programming environment. This section covers:

1. Detailed instructions for accessing and manipulating IDS data using the {wbids} package.
2. Tutorials on conducting common analytical tasks and creating informative visualizations.
3. Guidance on integrating IDS data with other relevant datasets to produce more comprehensive analyses.

This practical component is designed to cater to R users of varying experience levels, providing a pathway to enhanced analytical capabilities in working with IDS data.

## **About Teal Insights**

This guide has been developed by Teal Insights, a research consultancy specializing in the application of modern data science tools and deep domain expertise to tackle global issues. Teal Insights extracts actionable insights from complex information and messy data. Our work primarily serves policymakers, investors, and non-governmental organizations, with a focus on international finance, sustainability, and policy analysis.

Teal Insights' approach combines modern data science tooling with deep domain expertise about financial markets, global economics, and sustainability. By developing open-source tools such as the {wbids} R package and resources like this guide, we aim to broaden access to critical datasets and empower a diverse audience to engage in sophisticated analysis and informed decision-making.

It is our hope that this guide will not only enhance readers' understanding and utilization of the IDS data but also inspire innovative approaches to leveraging data for impactful research and decision-making in the fields of international finance and development.

We invite you to explore the wealth of information contained within the International Debt Statistics and to discover new insights through its analysis.

**i** This is a product of Teal Insights, not the World Bank

This book and the accompanying `{wbids}` R package are products of Teal Insights. While they are designed to work with the World Bank's International Debt Statistics, they are independent creations and are not produced, endorsed, or officially supported by the World Bank Group. The authors have experience working with the World Bank as consultants, but this work is separate from those engagements. Users should be aware that while we strive for accuracy, the World Bank is the authoritative source for its data and any interpretations thereof.

# 1 Introduction

## 1.1 Introduction to the International Debt Statistics

The World Bank’s International Debt Statistics (IDS) is a comprehensive resource for understanding external debt in low- and middle-income countries. This guide will introduce you to the IDS dataset and demonstrate how the `{wbids}` R package can help you leverage this valuable information.

## 1.2 What is the International Debt Statistics?

The IDS is the most authoritative and comprehensive publicly available database on the external debt of low- and middle-income countries. It provides a detailed view of debt stocks, flows, and key debt ratios, offering unparalleled insights into the financial health of developing economies.

## 1.3 Origins and Development

The World Bank has been meticulously collecting this data since the 1950s. The information is gathered primarily from debtor countries through the World Bank’s Debtor Reporting System (DRS), supplemented with data from creditors and market sources. This long-standing effort ensures a rich historical perspective on debt trends.

## 1.4 Accessibility and Updates

The IDS is updated annually, typically in December, and is freely accessible through the World Bank’s website. The `{wbids}` R package streamlines the process of working with this extensive dataset, making complex analyses more accessible to researchers and practitioners.

## 1.5 Significance for Stakeholders

The IDS is a valuable resource for a wide range of professionals, including:

- Emerging market investors
- International financial institution economists
- Finance ministry officials
- Academic researchers
- Policymakers in both debtor and creditor countries

It provides crucial data for assessing debt sustainability, informing policy decisions, and understanding global financial flows.

## 1.6 Key Insights Enabled by IDS Data

The IDS dataset allows for a range of important analyses. Here are some examples of the insights you can gain:

1. **Evolution of Creditor Composition:** The IDS provides detailed breakdowns of debt by creditor type (bilateral, multilateral, private). This allows you to track the rise of new creditors, such as China, and analyze how the creditor landscape has shifted over time.
2. **Comprehensive Debt Picture:** By including data on both public and publicly guaranteed debt as well as private non-guaranteed debt, the IDS enables a more complete assessment of a country's external liabilities. This comprehensive view can reveal potential hidden risks, such as the debts of state-owned enterprises.
3. **Market Access Trends:** The IDS includes data on bond issuances, allowing you to track how low- and middle-income countries' access to international capital markets has evolved. This can provide insights into changing financing strategies and risk profiles.
4. **Interest Rate Risk Exposure:** The dataset provides information on the composition of debt in terms of interest rate structure (fixed vs. variable). This allows for analysis of countries' vulnerability to global interest rate fluctuations.
5. **Debt Service Burden Analysis:** By combining data on debt stocks, debt service, exports, and GNI, the IDS enables the calculation of key debt burden indicators. This allows for assessment of how debt service requirements compare to a country's economic output and ability to generate foreign exchange.

Through our R package, you'll be able to easily access and analyze these aspects of the IDS data, unlocking valuable insights into the complex world of international debt. In the following sections, we'll guide you through how to use the package to explore these dimensions and more.



## 2 Summary

In summary, this book has no content whatsoever.

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## References