# 0 Introduction

**1 Foreword and 2 Acknowledgements**

1. Over the decades, the World Bank has invested heavily in the tools available to its country economists to analyze, forecast and monitor economic activity.
2. The data and equations of MFMod are updated twide
3. twice-annual (don’t think this is a valid phrase) compendium [**Macro Poverty Outlook**](https://www.worldbank.org/en/publication/macro-poverty-outlook) (is bolded)
4. “the Bank” – is that a term being used for the World Bank? If not search and replace.
5. *Growth and Jobs reports*. No link of any kind?
6. implement their NDCs (meaning?) and develop
7. Links ok
8. Code can be executed

# 1 1Introduction (1) – same name as first download?

**1 Introduction**

1. The impetus for this paper and the work that it summarizes was (or were?) to make available…

## **1.1  The MFMod Framework at the World Bank**

1. …Standalone… used several times in sentences where capitals should not be used.
2. …World Bank's isimulate paltform… maybe italics on isimulate
3. ….economic analysis, and is used… not sure comma is appropriate.
4. …and is used by…. Maybe an “it” is missing.
5. …twice annual… was used in last section also. Not sure if it is appropriate, but if used “-“ or not should be used consistently.
6. :::{index} single: Boxes; Box 1. TLDR - Too long did not read
7. :::{admonition} Box 1. TLDR - Too long did not read
8. … each Jpuyter notebook….

1.1.1 **Climate-aware version of MFMod**

1. …changes in informality, health…. (don’t know what that means?)
2. emissions, like 𝐶𝑂2,𝑁2𝑂,𝐶𝐻4,...CO2,N2O,CH4,...) …formatting?
3. … variants on the model initially….(of?)

**1.2  Early steps to bring the MFMod system to the broader economics community**

1. ….stand-alone models (collectively known as called MFModSA….. with or without “-“ in stand-alone plus choose between known as / called.
2. … to client governments…. funny sound
3. ….dissemination around….meaning?
4. …designed to train government…maybe educate?

## **1.3  Moving the framework to an open-source footing**

1. These were followed with CGE models.. replace with “by”?
2. …models, [started out](https://www.gams.com/about/company/) as a p… maybe move link to “GAMS” earlier in the sentence
3. … simpler consistency framework for economic… consistency or consistent?
4. Links ok.

General comment: Somewhere you need a section that explains the story you told me in our last visit, about how the models integrate. It is a question in the back of the head of any reader. This is not simple stuff, so the user will be experience/skilled and will have that question to understand the frameworks way of working.

# 1 2 Macrostructural models

## **1  Macrostructural models**

1. … Ministries of Finance; and professional … semi colon?
2. …discard out-of-hand policy models… out-of-hand? Meaning?
3. …  been previously favored by academics… the reference to “previously” is a bit off.

## **1.1  A system of equations**

1. … is **definitionally** equal… by defitinion?
2. …Behavioural, which are…. Sounds wrong. Same problem in next section with “exogenous”.
3. ….Typically there are set … comma (I believe) and there=They
4. … important to determining exports in the modeled developing country… why developed?
5. …but are unlikely to be …. Are=is?
6. …Mathematically system of equations can be expressed as below:…sounds like a word is missing
7. ….many equations as there are unknown (endogenous variables)…… unknowns?

## **1.2  The MFMod Framework**

1. Not sure the list in 1.2 serves a purpose in a good way. I guess it is not complete. Maybe an annex instead?
2. …Income accounts (Wage Bill, Gross Operating surplus (Profits), Combined incomes)… are capitals used in a consistent (and correct) way?
3. ... Other taxes, (Fees and charges)… comma used inconcistently
4. ….The output of firms is sold to household, the … “s” missing in households
5. …This flow of funds idea common to…. An “is” is missing
6. This code at the end, does not produce anything for me, when I press shift Enter?  is illustrated in the following schematic. height: 225px name: Flow of Funds diagram ---The Flow of funds in MFMod
7. The code in cell 1 works.
8. Generally, this section suffers from lack of rationale. The list of equations/variables is limited and the description of how macro models work also. Which can be fine if it serves a clear purpose. Without that, it is either too much or not enough.