

# Reproducibility package for the report

“Prosperity Unearthed:  
Wealth Sharing Mechanisms for Peace and Equitable Growth in the MENA Region”  
(January 2025)

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## Data availability statement:

Most of the data used in this report are publicly available from the sources listed below.  
Some data cannot be made publicly available; see also below.

### 1) Figures

**Figure 1.1** • GDP per capita (constant 2015 US\$) from World Development Indicators (accessed in June 2024): <https://databank.worldbank.org/source/world-development-indicators>

**Figure 1.2, 1.3, 1.4**

- Data on GDP per capita, GDP per capita growth, population, gas rents, oil rents, natural resource rents, child mortality, HDI, Gini coefficient, and poverty rate come from the World Bank’s World Development Indicators database (accessed in May 2024): <https://databank.worldbank.org/source/world-development-indicators>
- Additional data on Gini coefficient come from the World Income Inequality Database (accessed in May 2024): <https://wid.world/>
- Data on human capital index (HCI) come from the World Bank’s Human Capital Index database (accessed in May 2024): <https://www.worldbank.org/en/publication/human-capital>

**Figure 1.5**

- Data on Contributory Pensions, Other Direct Transfers, Healthcare, Education, and Indirect Subsidies are taken from the reports below (*some are not publicly available*):
  - o Iraq: <https://commitmentoequity.org/wp-content/uploads/2024/01/ceq133.pdf>
  - o West Bank and Gaza: <https://documents1.worldbank.org/curated/en/099646401302432923/pdf/IDU11fba1aab1fb111482e1a1441122a743dfde3.pdf>
  - o Iran: *Upcoming CEQ Report*
  - o Egypt: <https://openknowledge.worldbank.org/server/api/core/bitstreams/fe52ffe9-5da5-544b-8199-6fe6ea88b65a/content>
  - o Morocco: Report not published\*
  - o Tunisia: [https://www.commitmentoequity.org/publications\\_files/Tunisia/CEQ\\_WP38\\_Jouini%20Lustig%20Moummi%20Shimeles\\_Jan6\\_2017\\_XR.pdf](https://www.commitmentoequity.org/publications_files/Tunisia/CEQ_WP38_Jouini%20Lustig%20Moummi%20Shimeles_Jan6_2017_XR.pdf)
  - o Djibouti: <https://documents.worldbank.org/en/publication/documents-reports/documentdetail/099062223112522461/p1745720795cc20d10b03e00aeaea566192>
  - o Saudi Arabia: Ministry of Finance, Budget statement\*

**Figure 1.6** • International Energy Agency (accessed in December 2024): <https://www.iea.org/data-and-statistics/charts/value-of-fossil-fuel-subsidies-by-fuel-in-the-top-25-countries-2022>

**Figure 1.7**

- Data on Marginal contribution to poverty reduction of Direct taxes, Indirect taxes, Indirect subsidies,

and direct transfers are taken from the reports below (*some are not publicly available*):

- o Iraq: <https://commitmenttoequity.org/wp-content/uploads/2024/01/ceq133.pdf>
- o West Bank and Gaza: <https://documents1.worldbank.org/curated/en/099646401302432923/pdf/IDU11fba1aab1fb111482e1a1441122a743dfde3.pdf>
- o Iran: *Upcoming CEQ Report*
- o Egypt: <https://openknowledge.worldbank.org/server/api/core/bitstreams/fe52ffe9-5da5-544b-8199-6fe6ea88b65a/content>
- o Morocco: Report not published\*
- o Tunisia: [https://www.commitmenttoequity.org/publications\\_files/Tunisia/CEQ\\_WP38\\_Jouini%20Lustig%20Moummi%20Shimeles\\_Jan6\\_2017\\_XR.pdf](https://www.commitmenttoequity.org/publications_files/Tunisia/CEQ_WP38_Jouini%20Lustig%20Moummi%20Shimeles_Jan6_2017_XR.pdf)
- o Djibouti: <https://documents.worldbank.org/en/publication/documents-reports/documentdetail/099062223112522461/p1745720795cc20d10b03e00aeeaea566192>

**Figure 2.1** • IMF - Primary Commodity Price System (accessed in 2024): <https://www.imf.org/en/Research/commodity-prices>

**Figure 2.2**

- IMF - Primary Commodity Price System (accessed in 2024): <https://www.imf.org/en/Research/commodity-prices>

**Figure 2.3**

- Data on general government total expenditure come from the IMF's World Economic Outlook database: <https://www.imf.org/en/Publications/WEO/weo-database/2023/October>
- Data on oil price (dollars per barrel) come from the U.S. Energy Information Administration: <https://www.eia.gov/opendata/>

**Figure 2.4**

- Adapted from Bogetić & Naeher (2024), “Is Escaping the Fiscal Pro-Cyclicality Trap Possible? Evidence from the Middle East and North Africa”, World Bank Policy Research Working Paper, No. 10959: see Figure 2 (only the coloring of the bars has been changed).
- To replicate the figure from scratch, use the replication package from Bogetić & Naeher (2024) available here: <https://hdl.handle.net/10986/42316>

**Figure 2.5**

- Gross domestic product, constant prices, percent change from the IMF's World Economic Outlook database April 2024 (accessed in August 2024): <https://www.imf.org/en/Publications/WEO/weo-database/2024/April/download-entire-database>
- 2-years of historical data and 6-years of forecast data for real GDP growth (ngdp\_rpch) from the Historical WEO Forecasts Database (accessed in August 2024): <https://www.imf.org/-/media/Files/Publications/WEO/WEO-Database/WEOhistorical.ashx>

**Figure 2.6**

- This figure shows a hypothetical example based on made-up data.

**Figure 3.1**

- Obi from the International Budget Partnership, 2023 (accessed in December 2024): <https://internationalbudget.org/open-budget-survey/download>

**Figure 3.2**

- Obi from the International Budget Partnership, 2023 (accessed in December 2024): <https://internationalbudget.org/open-budget-survey/download>

**Figure 3.3**

- Obi from the International Budget Partnership, 2023 (accessed in December 2024): <https://internationalbudget.org/open-budget-survey/download>

**Figures 4.1, 4.2**

- Data on conflict-related deaths come from the Uppsala Conflict Data Program (accessed in August 2024): <https://ucdp.uu.se/downloads>

- Data on gas rents, oil rents, natural resource rents come from the World Bank’s World Development Indicators database (accessed in May 2024): <https://databank.worldbank.org/source/world-development-indicators>

**Figure 4.3**

- Wage bill as a percentage of GDP from the World Bank’s Worldwide Bureaucracy Indicators (accessed in December 2024): <https://datacatalog.worldbank.org/search/dataset/0038132/Worldwide-Bureaucracy-Indicators>

**Figure 4.4**

- Data comes from the Iraq Ministry of Finance and cannot be made publicly available.

**Annex figures**

- The results shown in these figures are based on simulated data (not empirical or historical), and were generated solely for illustrative purposes.

## 2) Tables

**Table 1.1**

- Crude oil including lease condensate reserves (billion b), crude oil including lease condensate production (Mb/d), natural gas reserves (tcf), and dry natural gas production (bcf) from the U.S. Energy Information Administration (accessed in July 2024): <https://www.eia.gov/international/data/world>

**Table 1.2**

- GNI per capita, Atlas method (current US\$), Poverty headcount ratio at \$3.65 a day (2017 PPP) (% of population), Human capital index (HCI) (scale 0-1), and Gini index from the World Development Indicators (accessed in November 2024): <https://databank.worldbank.org/source/world-development-indicators>

**Table 2.1**

- Oil and gas production from the U.S. Energy Information Administration (accessed in August 2024): <https://www.eia.gov/international/data/world>
- Oil and gas price from the World Bank Commodity Price Data (accessed in August 2024): <https://www.worldbank.org/en/research/commodity-markets>
- GDP from the World Development Indicators (accessed in August 2024): <https://databank.worldbank.org/source/world-development-indicators>
- Non-oil revenue, General government, in percent of Non-oil GDP; Non-oil sector weights from the IMF’s Regional Economic Outlook database <https://data.imf.org/?sk=4cc54c86-f659-4b16-abf5-fab77d52d2e6&sid=1390030341854> ; Bahrain Central Informatics Organization; Iran Central Bank of the Islamic Republic of Iran; Kuwait Central Statistical Bureau; Oman National Centre for Statistics and Information; Yemen Central Statistical Organization; (<https://www.ceicdata.com.cn/>)
- Expenditure, % of GDP (Fiscal data) from the World Bank’s MFMOD database

## Reproduction Instructions:

Follow the steps below to reproduce the tables and figures in the report.

**Figure 1.2, 1.3, 1.4, 2.3, 4.1, 4.2**

- 1) Navigate to the folder “Figures Stata”
- 2) Open the do-file “MENA Dofile\_replication package.do” in STATA
- 3) Define the path to the folder (code line 11)
- 4) Run the do-file
- 5) Open the folder “Tabfigs” in the previously specified path to view the figures

**Figure 2.4**

- 1) This figure is adapted from Bogetic & Naeher (2024), “Is Escaping the Fiscal Pro-Cyclicality Trap Possible? Evidence from the Middle East and North Africa”, World Bank Policy Research Working Paper, No. 10959.
- 2) Navigate to the folder “Figures Stata”
- 3) Open the working paper (“Bogetic Naeher WB WPS No 10959.dpf”) and browse to Figure 2: it is the same as Figure 2.4 in the report (only the coloring of the bars has been changed)
- 4) To replicate the figure from scratch, use the replication package from Bogetic & Naeher (2024) available here: <https://hdl.handle.net/10986/42316>

#### **Figure 1.5, 1.7**

- 1) Navigate to the folder “Figures 1.5 and 1.7”
- 2) Open the file “Figure 1.5 and 1.7.xlsx” in Excel.
- 3) Navigate to the sheet for the figure you want to reproduce.
- 4) The underlying data has been copied from different reports as described in the sheet.

#### **Figure 2.1, 2.2, 2.5, 2.6**

- 1) Navigate to the folder “Figures 2.1, 2.2, 2.5, 2.6”
- 2) Open the respective Excel file.
- 3) Navigate to the sheet for the figure you want to reproduce.
- 4) The underlying raw data can be found in the other sheets in the same Excel file.

#### **Figure 1.1, 1.6, Table 1.1, 1.2**

- 1) Navigate to the folder “Figures 1.1, 1.6, 3.1, 3.2, 3.3, 4.3, 4.4, Table 1.2, 1.2, 2.1”
- 2) Open the respective Excel file.
- 3) Navigate to the sheet for the figure/table you want to reproduce.
- 4) The underlying raw data can be found in the sheets in the same Excel file.

#### **Figure 3.1, 3.2, 3.3**

- 1) Navigate to the folder “Figures 1.1, 1.6, 3.1, 3.2, 3.3, 4.3, 4.4, Table 1.2, 1.2, 2.1”
- 2) Navigate to the folder “Figure 3.1, 3.2, and 3.3”
- 3) Open the Excel file “Figure 3.1, 3.2, and 3.3.xlsx”.
- 4) Navigate to the sheet for the figure you want to reproduce.
- 5) The underlying raw data can be found in the sheets in the same Excel file as well as “ibp\_data\_2006-2023\_statfile\_0.xlsx” in the same folder.

#### **Figure 4.3, 4.4**

- 1) Navigate to the folder “Figures 1.1, 1.6, 3.1, 3.2, 3.3, 4.3, 4.4, Table 1.2, 1.2, 2.1”
- 2) Navigate to the folder “Figure 4.3, 4.4”
- 3) Open the Excel file “Figure 4.3, 4.4.xlsx”.
- 4) Navigate to the sheet for the figure you want to reproduce.
- 5) The underlying raw data can be found in the sheets in the same Excel file as well as “World-wide\_Bureaucracy\_Indicators\_(WWBI)\_Wage bill as a percentage of GDP.xlsx” in the same folder.

#### **Table 2.1**

- 1) Navigate to the folder “Figures 1.1, 1.6, 3.1, 3.2, 3.3, 4.3, 4.4, Table 1.2, 1.2, 2.1”

- 2) Navigate to the folder “Table 2.1”
- 3) Open the Excel file “Table 2.1.xlsx”.
- 4) Navigate to the sheet for the table you want to reproduce.
- 5) The underlying raw data can be found in the folder “rawdata and calculation for every country” in the same folder.