Reproducible Research Repository

Prosperity Unearthed: Wealth Sharing Mechanisms for Peace and Equitable Growth in the MENA Region

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This review verifies the reproducibility of the exhibits included in the paper *"Prosperity Unearthed: Wealth Sharing Mechanisms for Peace and Equitable Growth in the MENA Region"*.

Contents in this review:

1. Main findings

2. List of exhibits and reproducibility status

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Main findings

- **Every exhibit has been reproduced accurately.**

- The code was successfully executed on a new computer after:

  1. Change the file paths in the main do file

- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.

- The code takes approximately 3 minutes to run.

- We conducted our reproducibility analysis based on the paper shared by the authors by email on April 28th, 2025.

- **Reproducibility Summary**:

  - **Data**: Some data is restricted and has not been included in the reproducibility package. For more details, please refer to the README file.

  - **Code**: All code files (from cleaning to analysis) are included in the reproducibility package.

  - **Outputs**: All outputs are generated by code included in the reproducibility package.

  - **Reproducibility verification**: Reviewers used data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. The reviewers did not verify if publicly available data matches the data provided by the authors.

  - **Dependencies environment**: The reviewers created a new environment using the latest versions of dependencies available at the moment of the review.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Table 1.1** Reproduced

- **Figure 1.1** Reproduced

- **Figure 1.2a** Reproduced This figure was compared against *Fig_1-2_HCI_gdppc.png*

- **Figure 1.2b** Reproduced This figure was compared against *Fig_1-2_pov365_gdppc.png*

- **Figure 1.3a** Reproduced This figure was compared against *Fig_1-3_childmortality_gdppc.png*

- **Figure 1.3b** Reproduced This figure was compared against *Fig_1-3_gini_gdppc.png*

- **Table 1.2** Reproduced

- **Figure 1.4** Reproduced The formatting for code output is different but values match so it is considered reproducible. This figure was compared against *Fig_1-4_HCI_gdppc_MENA.png*

- **Figure 1.5** Reproduced.

- **Figure 1.6** Reproduced This figure was compared against the figure from International Energy Agency (IEA) - Value of fossil-fuel subsidies by fuel in the top 25 countries, 2022.

- **Figure 1.7** Reproduced.

- **Figure 2.1** Reproduced

- **Figure 2.2** Reproduced.

- **Figure 2.3** Reproduced

- **Figure 2.4** Reproduced This figure was compared with the figure from Zeljko Bogetic; Naeher,Dominik. Is Escaping the Fiscal Pro-Cyclicality Trap Possible? Evidence from the Middle East and North Africa (English). Figure 2 (Expenditure).

- **Figure 2.5** Reproduced.

- **Figure 2.6a-d** Does not apply Does not show analysis results

- **Table 2.1** Reproduced

- **Table 3.1** Does not apply Does not show analysis results

- **Figure 3.1** Reproduced

- **Figure 3.2** Reproduced

- **Figure 3.3** Reproduced

- **Figure 4.1** Reproduced This figure was compared against *Fig_4-1_Dconflict_oilgasrich_MENA.png*

- **Figure 4.2** Reproduced This figure was compared agaisnt *Fig_4-2_conflict_oilgasrich_MENA.png*

- **Figure 4.3** Reproduced

- **Figure 4.4** Reproduced

  Results in the Annex

- **Figure A.1** Reproduced.

- **Figure A.2** Reproduced.

- **Figure A.3** Reproduced.

- **Figure A.4** Reproduced.

Reproduction Environment

- Paper exhibits were reproduced on a computer with the following specifications:

  - OS: Windows 11 Enterprise

  - Processor: Intel(R) Core(TM) i5-1145G7 CPU @ 2.60GHz

  - Memory available: 15.7 GB

  - Software version: Microsoft Excel, Stata 18.0 MP