



**ERF ST Data Base
Version 1.0**

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**ECONOMIC
RESEARCH
FORUM**



**منتدى
البحوث
الاقتصادية**

**OPEN ACCESS MICRO DATA INITIATIVE (OAMDI)
*for the Arab Countries,
Iran and Turkey***

ERF ST Data Base

Sectoral-Level Data Sources:

- (1) National Accounts Main Aggregates Database (UNSD)*
- (2) International Labour Organization (ILO) – LABORSTA & ILOSTAT
- (3) Groningen Growth and Development Center Database (GGDC)*
- (4) World Input-Output Database (WIOD)
- (5) Supporting Economic Transformation (SET)
- (6) UNIDO Industrial Statistics Database (INDSTAT)
- (7) UNIDO Industrial Demand-Supply Balance Database (IDSB)

Non-Sectoral-Level Data Sources:

- (8) Total Economy Database (TED)
- (9) Penn World Table (PWT)*

* Sources used by: McMillan, M., D. Rodrik and I. Verduzco-Gallo. 2014. Globalization, Structural Change, and Productivity Growth with an Update on Africa. *World Development* Vol. 63, pp. 11–32.

(1) National Accounts Main Aggregates Database (UNSD)

Overview

- Presents a series of analytical national accounts tables. The database is updated in December of each year with newly available national accounts data for all countries and areas.
- 200+ country
- Free access in Excel
- <https://unstats.un.org/unsd/snaama/introduction.asp>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>	<u>Variables</u>	<u>Sectors</u>
1970 to 2015	23 country Algeria Comoros Egypt Iraq Kuwait Libya Oman Palestine Sudan Syria Turkey Yemen Bahrain Djibouti Iran Jordan Lebanon Morocco Qatar SA South Sudan Tunisia UAE	- Value Added by Economic Activity - Gross Domestic Product (GDP) - Per capita GDP - GDP growth rate - GDP, Implicit Price Deflators. - GDP by kind of Expenditure. - Gross National Income (GNI) - Per capita GNI - Exchange rates - Population	1. Agriculture, hunting, forestry, fishing (ISIC A-B) 2. Mining, Manufacturing, Utilities (ISIC C-E) 3. Manufacturing (ISIC D) 4. Construction (ISIC F) 5. Wholesale, retail trade, restaurants and hotels (ISIC G-H) 6. Transport, storage and communication (ISIC I) 7. Other Activities (ISIC J-P)

(2) International Labour Organization (ILO) - LABORSTA & ILOSTAT

Overview

- All countries
- 1969 to 2021
- Free access in Excel or Xml
- <http://data.un.org/Explorer.aspx> <http://www.ilo.org/ilostat/>
- LABORSTA is no longer available however its data is still accessible on UNDATA.

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>	<u>Variables</u>	<u>Sectors</u>
1993 to 2008	10 country Algeria Bahrain Egypt Iran Kuwait Morocco Oman Qatar SA Syria	Employment by sex	17 sectors (ISIC classification)
2009 To 2021	23 country Algeria Bahrain Comoros Djibouti Egypt Iran Iraq Jordan Kuwait Lebanon Libya Mauritania Morocco Oman Qatar Saudi Arabia Somalia Sudan Syria Tunisia Turkey UAE Yemen	- Employment by sex (ILO estimates)	Agriculture (Broad sector) Industry (Broad sector) Services (Broad sector)

(3) Groningen Growth and Development Center Database (GGDC)

Overview

- The GGDC 10-Sector Database provides a long-run internationally comparable dataset on sectoral productivity performance in Africa, Asia, and Latin America.
- 42 country; Including 11 countries in Africa, 11 countries in Asia, 2 countries in the Middle East and North Africa, 9 in Latin-America, the USA and 8 European countries.
- Free access in Excel & Stata
- <http://www.rug.nl/ggdc/productivity/10-sector/>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>	<u>Variables</u>	<u>Sectors</u>
1947 to 2013	2 country Egypt Morocco	❖ Persons engaged ❖ Gross value added at current national prices ❖ Gross value added at constant 2005 national prices	Economic activities distinguished (ISIC rev. 3.1 code)

(4) World Input-Output Database (WIOD)

Overview

- There are two releases
 - ❖ **WIOD 2013** covers 3 topics:
 - I) World Input-Output Tables
 - II) Socio Economic Accounts
 - III) Environmental Accounts
 - 40 country; Including 27 EU countries and 13 other major countries in the world
 - Free access in Excel & Stata and the environmental accounts on Excel only
 - <http://www.wiod.org/release13>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>	<u>Variables</u>	<u>Sectors</u>
1995 to 2011	One country Turkey	<ul style="list-style-type: none">❖ Annual time-series of world input–output tables❖ Employment (number of workers and educational attainment)❖ Capital stocks❖ Gross output❖ Value added at current constant prices❖ Industry energy use❖ CO2 emissions and emissions to air.	Data for 35 sectors are classified according to the International Standard Industrial Classification revision 3 (ISIC Rev. 3).

❖ **WIOD 2016** covers two topics

- I) World Input-Output Tables
- II) Socio Economic Accounts: Expected to be published in the summer of 2017
- 43 country; Including 28 EU countries and 15 other major countries in the world
- Free access in Excel & Stata & R
- <http://www.wiod.org/release16>

Content & Coverage

Years

**2000
to
2014**

ERF Countries

**One country
Turkey**

Variables

- ❖ Annual time-series of world input–output tables
- ❖ Figures in millions of us dollars

Sectors

Data for **56** sectors are classified according to the International Standard Industrial Classification revision 4 (ISIC Rev. 4).

			Use by country-industries						Final use by countries			Total use	
			Country 1			...	Country M			Country 1	...		Country M
			Industry 1	...	Industry N	...	Industry 1	...	Industry N		...		
Supply from country- industries	Country 1	Industry 1											
		...											
		Industry N											
	Country M	Industry 1											
		...											
		Industry N											
Value added by labour and capital													
Gross output													

Figure 1. Schematic Outline of a World Input–Output Table (WIOT)

(5) Supporting Economic Transformation (SET)

Overview

- The SET portal provides analysis on various types of data, relevant for analyzing economic transformation, in select low-middle income and middle-income countries.
- The data is comprised of both macro-economic and micro-economic data, as well as trade data.
- To measure economic transformation, they depend on three types of data:
 1. Economic structures
 2. Trade
 3. Household and firm-level data
- 28 country
- Free access in Word & Excel
- <http://set.odi.org/data-portal/>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>	<u>Variables</u>	<u>Sectors</u>
1947 to 2013	4 country Somalia Sudan West bank and Gaza Yemen	<p>- Economic structures (8 inds, 5 by sector- listed below) GDP, employment and relative productivity levels Relative productivity and changes in employment shares by sector Decomposition of labour productivity change Productivity gaps Employment by sex</p> <p>- Factor productivity at firm level (2 inds, 1 by sector) Dispersion in productivity across firms by sector</p> <p>- Trade in value added (8 inds, 5 by sector) Compound annual growth rate of DVA embodied in gross exports by sector Sectoral DVA as a share of total DVA Compound annual growth rate of FVA embodied in gross exports by sector Sectoral FVA embodied in exports as a share of sectoral gross exports Sectoral FVA as a share of total FVA</p> <p>- Wages by occupation - Trade (11 indicators by product and market) - Trade Diversification (at SITC 1d levels) - Revealed comparative advantage (by HS section)</p>	<p>Agriculture Mining & utilities Manufacturing Construction Wholesale, retail, hotels Transport, storage, comms Other</p> <hr/> <p>Agriculture Electrical and Machinery Financial Intermediation and Business Activities Fishing Food & Beverages Hotels and Restaurants Metal Products Mining and Quarrying Other Manufacturing Petroleum, Chemical and Non-Metallic Min.Products Post and Telecommunications Textiles and Wearing Apparel Transport Transport Equipment Wood and Paper</p>

(6) UNIDO Industrial Statistics Database (INDSTAT)

Overview

- There are three versions

❖ INDSTAT2

- Manufacturing sector only
- More than 40 years
- 170 country
- Includes the index numbers of industrial production ~ the real growth of the volume of production
- Classified by 2-digit of ISIC Rev. 3.
- Licensed- Free upon registration on the ERF Data portal in SPSS & Stata
- <http://www.erfdataportal.com/index.php/catalog/119>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>	<u>Variables</u>	<u>Sectors</u>
1963 to 2014	19 country Algeria Egypt Iraq Kuwait Morocco Qatar SA Sudan (including South Sudan) Syria Turkey Yemen Bahrain Iran Jordan Libya Oman Palestine Tunisia UAE	<ul style="list-style-type: none">❖ Number of establishments❖ Employment❖ Wages and salaries❖ Output❖ Value added❖ Gross fixed capital formation❖ Number of female employees	<ul style="list-style-type: none">❖ The data are arranged at the 2-digit level of the International Standard Industrial Classification of All Economic Activities (ISIC) Revision 3 pertaining to the manufacturing sector, which comprises 23 industries.

❖ INDSTAT4-Rev.3

- Manufacturing sector only
- 1985 onwards
- 138 country
- Classified by 3-4-digit of ISIC Rev. 3.
- Licensed- Free upon registration on the ERF Data portal in SPSS & Stata
- <http://www.erfdataportal.com/index.php/catalog/120>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>	<u>Variables</u>	<u>Sectors</u>
1985 to 2013	19 country Algeria Bahrain Egypt Iran Iraq Jordan Kuwait Lebanon Morocco Oman Qatar Palestine SA Sudan (including South Sudan) Syria Tunisia Turkey UAE Yemen	<ul style="list-style-type: none">❖ Number of establishments❖ Employment❖ Wages and salaries❖ Output❖ Value added❖ Gross fixed capital formation❖ Number of female employees	<ul style="list-style-type: none">❖ The data are arranged at the 3- and 4-digit levels of the International Standard Industrial Classification of All Economic Activities (ISIC) Revision 3 pertaining to the manufacturing, which comprises more than 150 manufacturing sectors and sub-sectors.

❖ INDSTAT4-Rev.4

- Manufacturing sector only
- 2005 onwards
- 79 country
- Classified by 3-4-digit of ISIC Rev. 4.
- Licensed- Free upon registration on the ERF Data portal in SPSS & Stata
- <http://www.erfdataportal.com/index.php/catalog/121>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>	<u>Variables</u>	<u>Sectors</u>
2005 to 2013	6 country Egypt Jordan Oman Palestine Tunisia Turkey	<ul style="list-style-type: none">❖ Number of establishments❖ Employment❖ Wages and salaries❖ Output❖ Value added❖ Gross fixed capital formation❖ Number of female employees	<ul style="list-style-type: none">❖ The data are arranged at the 3- and 4-digit levels of the International Standard Industrial Classification of All Economic Activities (ISIC) Revision 4 pertaining to the manufacturing, which comprises more than 160 manufacturing sectors and sub-sectors.

(7) UNIDO Industrial Demand-Supply Balance Database (IDSB)

➤ There are two versions

❖ IDSB-Rev.3

- Manufacturing sector only
- 1990 onwards
- 120 country
- Classified by 4-digit of ISIC Rev. 3.
- Licensed- Free upon registration on the ERF Data portal in SPSS & Stata
- <http://www.erfdataportal.com/index.php/catalog/117>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>	<u>Variables</u>	<u>Sectors</u>
1990 to 2013	16 country Algeria Egypt Iraq Kuwait Morocco Qatar SA Turkey	Bahrain Iran Jordan Lebanon Oman Palestine Tunisia Yemen	<p>(1) Domestic output. (2) Total world imports (= 5 + 6). (3) Total world exports (= 7 + 8). (4) Apparent consumption (=1 + 2 - 3). (5) Imports from developing and emerging industrial economies. (6) Imports from industrialized economies. (7) Exports to developing and emerging industrial economies. (8) Exports to industrialized economies.</p> <p>❖ The data are arranged at the 4-digit level of the International Standard Industrial Classification of All Economic Activities (ISIC) Revision 3 pertaining to the manufacturing sector, which comprises 127 manufacturing categories.</p>

❖ IDSB-Rev.4

- Manufacturing sector only
- 2005 onwards
- 74 country
- Classified by 4-digit of ISIC Rev. 4.
- Licensed- Free upon registration on the ERF Data portal in SPSS & Stata
- <http://www.erfdataportal.com/index.php/catalog/118>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>	<u>Variables</u>	<u>Sectors</u>
2005 to 2013	5 country Egypt Jordan Oman Palestine Turkey	(1) Domestic output. (2) Total world imports (= 5 + 6). (3) Total world exports (= 7 + 8). (4) Apparent consumption (=1 + 2 - 3). (5) Imports from developing and emerging industrial economies. (6) Imports from industrialized economies. (7) Exports to developing and emerging industrial economies. (8) Exports to industrialized economies.	❖ The data are arranged at the 4-digit level of the International Standard Industrial Classification of All Economic Activities (ISIC) Revision 4 pertaining to the manufacturing sector, which comprises 137 manufacturing categories.

(8) Total Economy Database (TED) - *Non-Sectoral data*

Overview

- TED is published every year in May, including projections for the ongoing year.
- 123 countries
- Free access in Excel and txt formats
- <https://www.conference-board.org/data/economydatabase/index.cfm?id=27762>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>		<u>Variables</u>
1950 To 2016	17 country		Growth in GDP, Labor quality, Capital services
	Algeria	Bahrain	Contributions of Labor quality, Capital services to GDP growth
	Egypt	Iran	Total factor productivity
	Iraq	Jordan	Population
	Kuwait	Morocco	Employment
	Oman	Qatar	Employment hours
	SA	Sudan	Per Capita Income and Labor Productivity
	Syria	Tunisia	
	Turkey	UAE	
	Yemen		

Sectors



(9) Penn World Table - *Non-Sectoral data*

Overview

- PWT is a database with information on relative levels of income, output, input and productivity.
- 182 countries
- Free access in Excel, Stata formats and provides an online access tool
- <http://www.rug.nl/ggdc/productivity/pwt/>

Content & Coverage

<u>Years</u>	<u>ERF Countries</u>		<u>Variables</u>	<u>Sectors</u>
1950 To 2014	21 country		Real GDP Employment Population levels Current price GDP Capital stock TFP National accounts-based variables Exchange rates Shares in CGDPo Price levels, expenditure categories and capital	
	Algeria	Bahrain		
	Comoros	Djibouti		
	Egypt	Iran		
	Iraq	Jordan		
	Kuwait	Lebanon		
	Morocco	Oman		
	Qatar	Palestine		
	SA	Sudan		
	Syria	Tunisia		
	Turkey	UAE		
	Yemen			

Aggregated Availability Matrix (All sources)

Indicator	Source	Year	# of ERF Countries	Sectoral	All sectors	Comments
Value added	UNSD	1970-2015	23	√	√	
	GGDC	1947-2013	2	√	√	Egypt and Morocco
	WIOD	1995-2011	1	√	√	Turkey
	UNIDO	1963-2014	19	√	X	Manufacturing only
Employment	ILO	1993-2021	23	√	√	Broad, Agriculture, Industry and services sectors
	WIOD	1995-2011	1	√	√	Turkey only
	SET	1947-2013	4	√	√	By sex: Somalia, Sudan, WB & Gaza, Yemen
	GGDC	1947-2013	2	√	√	Egypt and Morocco
	UNIDO	1963-2014	19	√	X	Manufacturing only
	TED	1950-2016	17	X		
	PWT	1950-2014	21	X		
Capital stock/formation	WIOD	1995-2011	1	√	√	Turkey only
	UNIDO	1963-2014	19	√	X	Manufacturing only
	PWT	1950-2014	21	X		
Output	WIOD	1995-2011	1	√	√	Turkey only
	UNIDO	1963-2014	19	√	X	Manufacturing only (INDSTAT)
	UNIDO	1990-2013	16	√	X	Manufacturing only (IDSB))
Productivity	SET	1947-2013	4	√	√	Somalia, Sudan, WB & Gaza, Yemen
	TED	1950-2016	17	X		
Input-output table	WIOD	1995-2011 2000-2014	1	√	√	Turkey only
Trade (value added)	SET	1947-2013	4	√	√	Somalia, Sudan, WB & Gaza, Yemen
	UNIDO	1990-2013	16	√	X	Manufacturing only (IDSB))
GDP*	UNSD	1970-2015	23	X		
	SET	1947-2013	4	√	√	Somalia, Sudan, WB & Gaza, Yemen
	TED	1950-2016	17	X		
	PWT	1950-2014	21	X		
GNI	UNSD	1970-2015	23	X		
Population	UNSD	1970-2015	23	X		
	TED	1950-2016	17	X		
	PWT	1950-2014	21	X		
Exchange rate	UNSD	1970-2015	23	X		
Wages	SET	1947-2013	4	X		Somalia, Sudan, WB & Gaza, Yemen
	UNIDO	1963-2014	19	√	X	Manufacturing only
	TED	1950-2016	17	X		

* GDP growth, Per capita, by kind of expenditure, price deflator