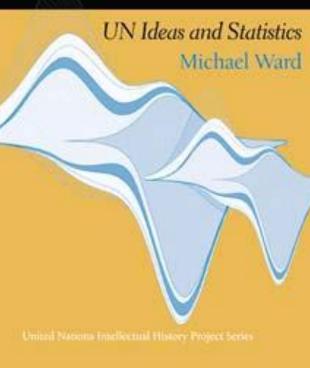
MORTEN JERVEN

#### **POOR NUMBERS**

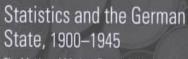
HOW WE ARE MISLED BY AFRICAN DEVELOPMENT STATISTICS AND WHAT TO DO ABOUT IT



# Quantifying the World UN Ideas and Statistics



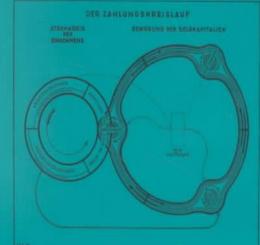




CAMBRIDGE STUDIES IN MODERN ECONOMIC HISTORY

The Making of Modern Economic Knowledge

J. Adam Tooz



### Auditing the World: The IMF

Morten Jerven - Norwegian University of Life Sciences @mjerven

www.mortenJerven.com

# Ruling the World By Numbers

| 06.02.2017 | 1. Ruling the world by numbers: introduction                                    |  |  |  |  |  |  |
|------------|---|--|--|--|--|--|--|
| 13.02.2017 | 2. States and statistics: Why do states count?                                  |  |  |  |  |  |  |
| 20.02.2017 | 3. Auditing the world: The IMF  |  |  |  |  |  |  |
| 27.02.2017 | 4. Counting the poor: The World Bank  |  |  |  |  |  |  |
| 06.03.2017 | 5. A world that counts: from millennium development goals (MDGs) to sustainable |  |  |  |  |  |  |
| 00.03.2017 | development goals (SDGs)  |  |  |  |  |  |  |
| 13.03.2017 | 6. Poor Numbers? Statistical capacity in low income countries                   |  |  |  |  |  |  |
| 20.03.2017 | 7. Governance matters: democracy by numbers                                     |  |  |  |  |  |  |
| 27.03.2017 | 8. Correlates of war: Studying war and peace by numbers                         |  |  |  |  |  |  |
| 03.04.2017 | 9. Evidence based policy: Knowledge and governance requirements                 |  |  |  |  |  |  |
| 11.04.2017 | Easter BREAK  |  |  |  |  |  |  |
| 18.04.2017 | Easter BREAK  |  |  |  |  |  |  |
| 25.04.2017 | 10. Contesting poor numbers: qualitative and quantitative research.             |  |  |  |  |  |  |
| 08.05.2017 | 11. Conclusion  |  |  |  |  |  |  |

# Official Statistics, International Statistics and Global Indicators

Official Statistics



International Statistics

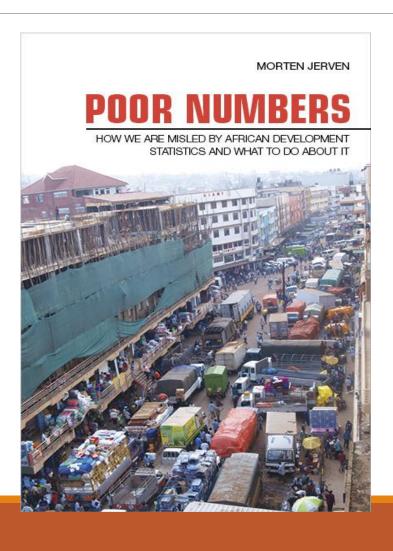


Global Indicators

# Outline

- 1. Poor Numbers
- 2. The IMF

## Poor Numbers



- 1. What Do We Know about Income and Growth in Africa?
- 2. Measuring African Wealth and Progress
- 3. Facts, Assumptions, and Controversy: Lessons from the Datasets
- 4. Data for Development: Using and Improving African Statistics

# The Knowledge Problem

## The Symptom of a Problem

On the 5th of November, 2010, Ghana Statistical Services announced that its GDP for the year 2010 was revised to 44.8 billion cedi, as compared to the previously estimated 25.6 billion cedi.

This meant an increase in the income level of Ghana by about 60 percent and, in dollar values, the increase implied that the country moved from being a low income country to a middle income country overnight.

Undoubtedly – This good news, but a knowledge problem emerges.

### Reactions

- Todd Moss at CGD: Boy we really don't know anything!
- Andy Sumner and Charles Kenny in the Guardian: Ghana escapes the 'poverty trap'. Paul Collier and Dambisa Moyo are wrong!
- UNDP in Ghana: It is a statistical illusion.
- Shanta Devarajan, World Bank Chief Economist for Africa: declares Africa's statistical tragedy.

## Is Africa much richer than we think?

Nigeria just announced the GDP figures – GDP almost doubled...

In 2012 I guesstimated (in African Affairs) that GDP in Nigeria was underestimated that were about 40 'Malawis' unaccounted for inside Nigeria...

## Is Africa much richer than we think?

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In 2012 I guesstimated (in African Affairs) that GDP in Nigeria was underestimated that were about 40 'Malawis' unaccounted for inside Nigeria...

Turns out there were 58...

## A validity test

For year 2000 take all available GDP per capita estimates in international USD for African countries from the three most commonly used data sources and rank them from poorest to richest.

|           | MADDISON                      |       | WDI                  |      | PWT                  |       |
|-----------|-------------------------------|-------|----------------------|------|----------------------|-------|
| 1         | Congo, Dem. Rep.*             | 217   | Congo, Dem. Rep.*    | 92   | Congo, Dem. Rep.*    | 359   |
| 2         | Sierra Leone                  | 410   | Ethiopia             | 115  | Liberia              | 472   |
| 3         | Chad                          | 429   | Burundi              | 139  | Sierra Leone         | 684   |
| 4         | Niger                         | 486   | Sierra Leone         | 153  | Burundi              | 699   |
| 5         | Burundi                       | 496   | Malawi               | 169  | Ethiopia             | 725   |
| 6         | Tanzania                      | 535   | Tanzania             | 190  | Guinea-Bissau        | 762   |
| 7         | Guinea                        | 572   | Liberia              | 191  | Niger                | 807   |
| 8         | Central African Rep.          | 576   | Mozambique           | 191  | Tanzania             | 817   |
| 9         | Comoro Islands                | 581   | Niger                | 200  | Togo                 | 823   |
| 10        | Ethiopia*                     | 605   | Guinea-Bissau        | 210  | Madagascar           | 823   |
| 11        | Togo                          | 614   | Chad                 | 218  | Chad                 | 830   |
| 12        | Zambia                        | 645   | Rwanda               | 242  | Malawi               | 839   |
| 13        | Malawi                        | 656   | Burkina Faso         | 243  | Zambia               | 866   |
| 14        | Guinea Bissau                 | 681   | Madagascar           | 246  | Burkina Faso         | 933   |
| 15        | Madagascar                    | 706   | Nigeria              | 254  | Central African Rep. | 945   |
| 16        | Angola                        | 765   | Mali                 | 294  | The Gambia           | 954   |
| 17        | Uganda                        | 797   | Sudan                | 313  | Rwanda               | 1018  |
| 18        | Rwanda                        | 819   | Togo                 | 323  | Mali                 | 1047  |
| 19        | Mali                          | 892   | Kenya                | 328  | Sudan                | 1048  |
| 20        | Gambia                        | 895   | Central African Rep. | 339  | Uganda               | 1058  |
| 21        | Burkina Faso                  | 921   | São Tomé & Principe  | 341  | Nigeria              | 1074  |
| 22        | Liberia                       | 990   | Uganda               | 348  | Mozambique           | 1093  |
| 23        | Sudan                         | 991   | Gambia, The          | 370  | Benin                | 1251  |
| 24        | Mauritania                    | 1017  | Zambia               | 394  | Kenya                | 1268  |
| 25        | Kenya                         | 1031  | Ghana                | 413  | Congo, Rep.          | 1286  |
| <b>26</b> | Cameroon                      | 1082  | Benin                | 414  | São Tomé & Principe  | 1300  |
| <b>27</b> | São Tomé & Principe           | 1226  | Comoros              | 436  | Comoros              | 1359  |
| 28        | Nigeria                       | 1251  | Mauritania           | 495  | Ghana                | 1392  |
| 29        | Ghana                         | 1270  | Angola               | 524  | Mauritania           | 1521  |
| 30        | Benin                         | 1283  | Lesotho              | 548  | Senegal              | 1571  |
| 31        | Zimbabwe                      | 1328  | Guinea               | 605  | Lesotho              | 1834  |
| 32        | Côte d'Ivoire                 | 1352  | Senegal              | 609  | Angola               | 1975  |
| 33        | Senegal                       | 1358  | Zimbabwe             | 620  | Cote d'Ivoire        | 2171  |
| 34        | Mozambique                    | 1365  | Cameroon             | 675  | Cameroon             | 2472  |
| 35        | Lesotho                       | 1490  | Cote d'Ivoire        | 739  | Guinea               | 2546  |
| 36        | Cape Verde                    | 1777  | Congo, Rep.          | 791  | Zimbabwe             | 3256  |
| 37        | Congo                         | 2005  | Swaziland            | 1538 | Cape Verde           | 4984  |
| 38        | Swaziland                     | 2630  | Cape Verde           | 1541 | Namibia              | 5269  |
| 39        | Namibia                       | 3637  | Equatorial Guinea    | 1599 | Equatorial Guinea    | 6495  |
| 40        | Gabon                         | 3847  | Namibia              | 2366 | Botswana             | 7256  |
| 41        | South Africa                  | 3978  | Botswana             | 3931 | South Africa         | 8226  |
| 42        | Botswana                      | 4269  | South Africa         | 4020 | Swaziland            | 8517  |
| 43        | Seychelles  Equatorial Cuinas | 6354  | Mauritius            | 4104 | Gabon                | 10439 |
| 44        | Equatorial Guinea             | 7973  | Gabon                | 4378 | Seychelles           | 10593 |
| 45        | Mauritius                     | 10652 | Seychelles           | 6557 | Mauritius            | 15121 |
|           |                               |       |                      |      |                      |       |

|           | MADDISON             |       | WDI                  |      | PWT                  |       |
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| 1         | Congo, Dem. Rep.*    | 217   | Congo, Dem. Rep.*    | 92   | Congo, Dem. Rep.*    | 359   |
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| 45        | Mauritius            | 10652 | Seychelles           | 6557 | Mauritius            | 15121 |
|           |                      |       |                      |      |                      |       |

# What do we know about Income and Growth in SSA?

- •World bank data have GDP estimates for all countries from 1960 until 2015.
- •But: some have not yet published numbers there are breaks in the series...

Where does the international databases get their data from?

# Where Does the Data Come From?





### What Happened in Ghana?

- •A revision of the base year...
- •How is GDP measured?
- Y = C + I + G + (X M)
- •Y = Wages + Profits + Rents
- •Y = Sector Production Intermediate Consumption = Value Added
  - (Agriculture + Mining + Manufacturing + Construction + Trade + Transport + Private and Public Services)

### What happened in Ghana?

- •A revision of the base year...
- •How is real GDP measured?
- $\bullet Y = C + I + G + (X M)$
- •Y = Wages + Profits + Rents
- •Y = Sector Production Intermediate Consumption = Value Added
  - (Agriculture + Mining + Manufacturing + Construction + Trade + Transport + Private and Public Services)

•It needs to expressed in constant prices – how is that done?

### What Happened in Ghana?

| Sectors          | 1993  | 1994                             | <br>2010          |
|------------------|-------|----------------------------------|-------------------|
| Agriculture      | Value | Volume or<br>Proxy* 1993<br>Base | Rebase<br>to 2006 |
| Manufacturing    | Value | Proxy*1993<br>Price              | Rebase<br>to 2006 |
| Mining           | Value | Proxy*1993<br>Price              | Rebase<br>to 2006 |
| Construction     | Value | Proxy*1993<br>Price              | Rebase<br>to 2006 |
| Retail/Wholesale | Value | Proxy*1993<br>Price              | Rebase<br>to 2006 |
| Communications   | Value | Proxy*1993<br>Price              | Rebase<br>to 2006 |
| Services         | Value | Proxy*1993<br>Price              | Rebase<br>to 2006 |
| GDP              | SUM   | SUM                              | SUM               |

#### IMPORTANCE OF THE BASE YEAR

- Until 2010 Ghana used 1993 as base year.
- A base year change coincides with changes in methods and basic data.
- A break in the series

# What Do We Know about Income and Growth in SSA?

What happens when there are gaps or breaks in the data?

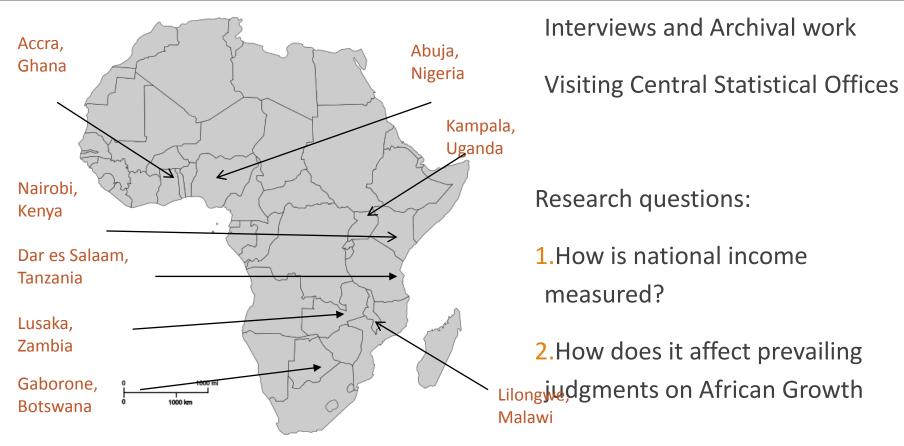
According to the manual: The Bank uses 'a method for filling the data gap'.

In 2007 I wanted to access the real data behind the time series:

"Raw data provided by the National Statistics Agencies are not available for external users and only handful of people at the World Bank have access to it."

"You may want to visit the National Statistics Offices website or contact them directly."

# Field Work, West, East and Central Africa 2007-2010



- + Archival Work
- + Email survey: Burundi, Cameroon, Cape Verde, Guinea, Lesotho, Mali, Mauritania, Mauritius, Morocco, Namibia, Mozambique, Niger, Senegal, Seychelles and South Africa

# The Knowledge Problem Across Space

Table 1.2. Availability of national accounts data at statistical offices in Africa and comparison of country-level GDP and World Development Institute GDP

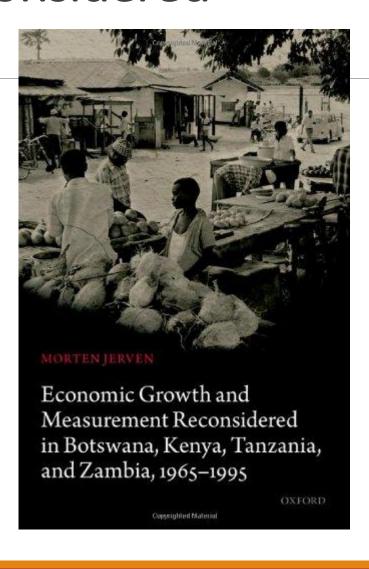
|   |          |           | GDP                       | GDP from         |              |
|---|----------|-----------|---------------------------|------------------|--------------|
| Country                                   | Estimate | Base year | from country <sup>1</sup> | $\mathrm{WDI}^1$ | % difference |
| Angola                                    | _        | _         |                           | 5,989            |              |
| Benin                                     | 2007     | _         | 2,642                     | 2,658            | -0.6         |
| Botswana                                  | 2004     | 1993/94   | 47                        | 47               | 0.0          |
| Burkina Faso                              | 2005     | 1999      | 2,881                     | 2,863            | 0.6          |
| Burundi <sup>2, 3</sup>                   | 2007     | 2006      | 1403                      | 1,060            | 32.4         |
| Cameroon <sup>2</sup>                     | 2009     | 2002      | 11,040                    | 10,474           | 5.4          |
| Cape Verde <sup>2, 3</sup>                | 2007     | 1980      | 107                       | 107              | 0.0          |
| Central African Republic <sup>3</sup>     | 2003     | 1985      | 670                       | 662              | 1.2          |
| Chad <sup>3</sup>                         | 2009     | _         | 3,622                     | 3,228            | 12.2         |
| Comoros <sup>3</sup>                      | _        | _         | _                         | 153              |              |
| Cote d'Ivoire                             | 2005     | 1996      | 9,012                     | 8,631            | 4.4          |
| Democratic Republic of Congo <sup>3</sup> | _        | _         | _                         | 3,366            |              |
| Djibouti <sup>3</sup>                     | 2000     | _         | 91                        | _                |              |
| Equatorial Guinea <sup>3</sup>            | 2002     | 1985      | 1,524                     | 1,496            | 1.9          |
| Eritrea <sup>3</sup>                      | _        | _         | _                         | 18               |              |
| Gabon <sup>3</sup>                        | 2008     | 2001      | 7,033                     | 6,509            | 8.1          |
| Gambia <sup>3</sup>                       | 2008     | 2004      | 23                        | 18               | 27.8         |
| Ghana <sup>2</sup>                        | 2009     | 2006      | 37                        | 37               | 0.0          |
| Guinea <sup>2, 3</sup>                    | 2008     | 2003      | 20,982                    | 20,780           | 1.0          |
| Guinea-Bissau <sup>3</sup>                | 2006     | 1986      | 172                       | 303              | -43.2        |
| Kenya <sup>2</sup>                        | 2009     | 2001      | 2,366                     | 2,274            | 4.0          |
| Lesotho <sup>2, 3</sup>                   | 2008     | 2004      | 13                        | 13               | 0.0          |
| Liberia <sup>3</sup>                      | _        | _         | _                         | 59,840           |              |
|   |          |           |                           |                  |              |

| Madagascar                     | 2009 | 1984 | 16,802 | 16,604    | 1.2   |
|--------------------------------|------|------|--------|-----------|-------|
| Malawi <sup>2, 3</sup>         | 2007 | 2007 | 511    | 484       | 5.6   |
| $Mali^{2,3}$                   | 2008 | 1997 | _      | 3,067     |       |
| Mauritania <sup>2, 3</sup>     | 2007 | 2005 | 915    | 734       | 24.7  |
| Mauritius <sup>2, 3</sup>      | 2010 | 2007 | 300    | 300       | 0.0   |
| $Mozambique^2$                 | 2009 | 2003 | 326    | 280       | 16.4  |
| Namibia                        | 2008 | 2004 | 82     | 74        | 10.8  |
| Niger <sup>2, 3</sup>          | 2010 | 2006 | 2,748  | 2,748     | 0.0   |
| Nigeria <sup>2, 3</sup>        | 2008 | 1990 | 24,665 | 24,553    | 0.5   |
| Republic of Congo <sup>3</sup> | 2009 | 1990 | 3,870  | 4,523     | -14.4 |
| Rwanda <sup>3</sup>            | 2010 | 2006 | 3,282  | 3282      | 0.0   |
| Sao Tome and Principe          | 2006 | 2001 | 1,445  | 1,546     | -6.5  |
| Senegal <sup>2</sup>           | 2009 | 1999 | 6,029  | 6,023     | 0.1   |
| Seychelles <sup>2, 3</sup>     | 2008 | 2006 | 9      | 9         | 0.0   |
| Sierra Leone <sup>2, 3</sup>   | 2007 | 2001 | 4,967  | 5,829     | -14.8 |
| Somalia <sup>3</sup>           | _    | _    | _      | 1,347,900 |       |
| South Africa <sup>2</sup>      | 2010 | 2005 | 2,663  | 2,663     | 0.0   |
| Sudan <sup>4</sup>             | _    | _    | _      | _         |       |
| $Swaziland^3$                  | _    | _    | _      | 12,771    |       |
| Togo <sup>3</sup>              | _    | _    | _      | 28,213    |       |
| Tanzania <sup>2</sup>          | 2010 | 2001 | 32,294 | 32,493    | -0.6  |
| Uganda <sup>2, 3</sup>         | 2009 | 2002 | 34,166 | 30,101    | 13.5  |
| Zambia <sup>2</sup>            | 2008 | 1994 | 55,211 | 54,839    | 0.7   |
| Zimbabwe <sup>2</sup>          | _    | _    | _      | 5,625     |       |

|                           | Base        | Planned                 | Years Btw         |                       | Base | Planned     | Years Btw   |
|---------------------------|-------------|-------------------------|-------------------|-----------------------|------|-------------|-------------|
| Country                   | Year        | Revision                | Revisions         | Country               | Year | Revision    | Revisions   |
| Angola                    | 1987        | 2002 (2013)             | 15                |                       | 2004 | 2013        | 10          |
| Burundi                   | 1996        | 2005 (n/a)              | 10                | Lesotho               |      | (2015/16)   |             |
| Benin                     | 1985        | 1999 (2014)             | 14                | Madagascar            | 1984 |             |             |
| Burkina Faso              | 2006        |                         |                   | Mali                  | 1987 | 1997 (2013) | 10          |
| Botswana                  | 2006        |                         | 10(1996-06)       | Mozambique            | 2003 | 2009 (2013) | 6           |
| Central African           | 1985        | 2005 (2014)             | 20                | Mauritius             | 2007 | 2012 (2015) | 5           |
| Republic                  | 1363        | 2003 (2014)             | 20                | Malawi                | 2009 | 2014        | 5 (2002-07) |
| Cote D'Ivoire             | 1996        |                         |                   | Namibia               | 2004 | 2009(2013)  | 6           |
| Cameroon                  | 2000        |                         |                   | Niger                 | 2006 |             | 19          |
| DRC                       | 1987        | 2002 (2014)             | 15                | Nigeria               | 1990 | 2010 (2013) | not known   |
| Republic of the           | 1990        | 2005 (2013)             | 15                | Rwanda                | 2006 | 2011 (2013) | 5           |
| Congo                     | 4000        | 2007 (2042)             | 47                | Senegal               | 1999 | 2010 (2014) | 11          |
| Comoros                   | 1999        | , ,                     | 17                | Sierra Leone          | 2006 |             | 5 (2001-06) |
| Cape Verde                | 2007        |                         | 28 (1980-07)      | South Sudan           | 2009 |             |             |
| Eritrea                   | 2004        | Not compiled after 2005 |                   | Sao Tome and          | 1996 | 2008 (na)   | 12          |
| Ethiopia                  | 2000/0<br>1 | 2010/11 (2013)          | 10                | Principe<br>Swaziland | 1985 | 2011 (2014) |             |
| Gabon                     | 2001        |                         |                   | Seychelles            | 2006 |             |             |
| Ghana                     | 2006        |                         | 13 (1993-06)      | Chad                  | 1995 | 2005(2014)  | 10          |
| Guinea                    | 2003        | 2006 (2013)             | 3                 | Togo                  | 2000 |             | 22          |
| Gambia                    | 2004        |                         | 28 (1976/77-2004) | Tanzania              | 2001 | 2007        | 6           |
| Guinea-Bissau             | 2005        |                         | 19                |                       | 2002 | 2009/10     | 8           |
| Equatorial Guinea         | 1985        | 2007 (2013)             | 22                | Uganda                | 2002 | (2013)      | J           |
| Kenya                     | 2001        | 2009 (2013)             | 8                 | South Africa          | 2005 | 2010 (2014) | 5           |
| Liberia                   | 1992        | ` '                     | 16                | Zambia                | 1994 | 2011 (2013) |             |
| rce: International Moneta | ry Fund 20  | 013; 21                 |                   | Zimbabwe              | 1990 |             |             |

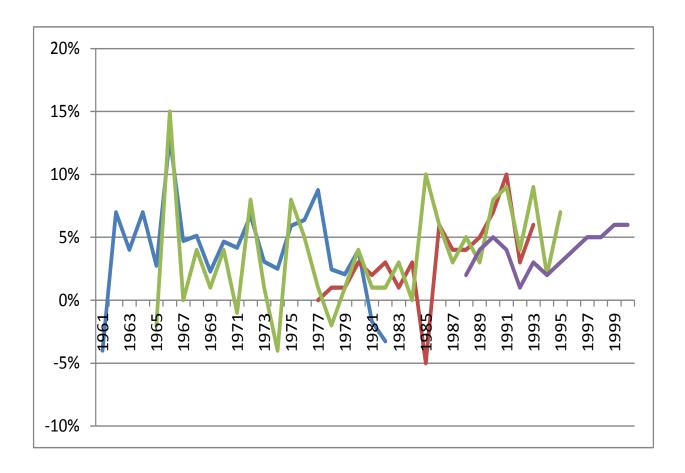
# The Knowledge Problem Across Time: Reliability

# Economic Growth and Measurement Reconsidered



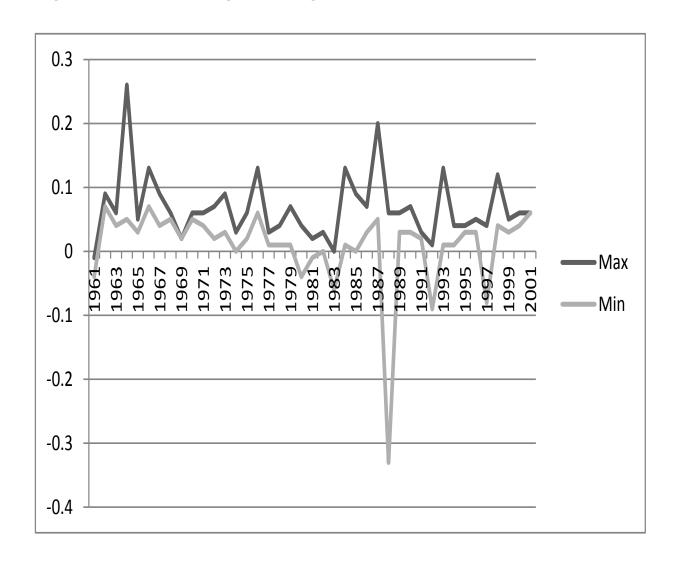
Country studies of Economic Growth in Botswana, Kenya, Tanzania, and Zambia, 1965-1995

Figure 2: GDP growth at constant prices, Tanzania 1961 – 2001



Sources: National Accounts Tanzania (various editions).

Figure 1: Annual Range of Disagreement in GDP Growth Rate, Tanzania 1961 – 2001



Sources: Tanzania: National Account Files, WDI: World Development Indicators 2003, PWT: Penn World Tables Heston A., Summers R. and. Aten B (2006) and Maddison: Angus Maddison (2009).

## A very short history of statistical capacity

- 1. Scholarly and Colonial Estimates
- Rich debates roots of the current system.
- 2. Independence and the Development State
- Richer administrative data + household surveys, industrial census, population census.
- 'Lost Decades'
- Double shock to the statistical system
- The informal economy and constrained administrative funding.
- 4. From Poverty to MDGs
- New demands on an already weakened statistical office.
- MDGs: 8 Goals, 18 indicators and 48 targets
- SDGs: 17 Goals, 169 indicators and 230 targets?

# Auditing the World: The IMF

# Official Statistics, International Statistics and Global Indicators

Official Statistics

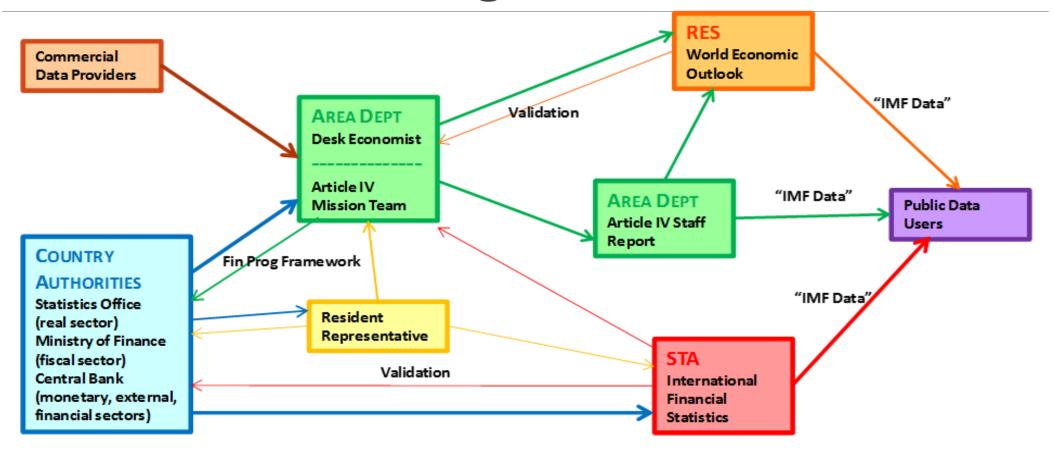


International Statistics



Global Indicators

## How does the IMF get their data?



# Economic expertise and local knowledge



# Quality Assurances?

- 1. Article IV Report
- 2. DDSB
- 3. ROSQ

Problems: Time, Incentives and Resources

## Results

- 1. Decisions based on affiliation and trust, not a sober analysis of the data.
- 2. Data agreement indicate political closeness rather that informational quality.
- 3. Large gaps and disagreements between IMF databases translated into confusion among other databases.

# How the IMF does (or doesn't) check the quality of statistics from low income countries

Table 1. The Managing Director's Position on IEO Recommendations

| Rec | commendation   | Position          |
|-----|--|-------------------|
| 1)  | Develop a long-term strategy for data and statistics in the IMF  | Support           |
| 2)  | Define and prioritize the Fund's data needs and support data provision by members accordingly  | Support           |
| 3)  | Reconsider the role and mandate of STA   | Qualified Support |
| 4)  | Reexamine staff incentive in the area of data management   | Support           |
| 5)  | Make clear the limits of IMF responsibility regarding the quality of disseminated data, together with clarifying the distinction between "IMF data" and "official data." | Support           |

# Beyond GDP: What if the world was not governed according to GDP

- 1. Environment
- 2. Gender Equality
- 3. Leisure