

Kyle McNabb UNU-WIDER

The Government Revenue Dataset (GRD)

14 September 2018



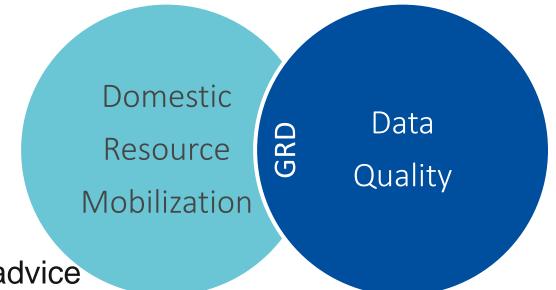
Overview

- The Government Revenue Dataset
 - Why important
 - Difficulties in using revenue data to make X-country comparisons of tax performance
 - Improvements over other sources
- Data trends and highlights: GRD 2018
- Research findings
 - Fiscal Policy, State Building and Economic Development
- Next Steps



Taxation and Development: Cross-Country Data

- 2 motivating concerns
- Data Quality
 - Poor existing revenue data.
 - Risk of misleading research & policy advice
- Domestic Resource Mobilization
 - Embedded in SDG efforts, etc.





- Cross-Country dataset of gov't revenues & tax subcomponents
- Partnership with ICTD
- GRD project began 2010; launched 2014; Updated Sept. 2018
- Why? Concerns over existing data
 - Very poor developing country coverage
 - Inconsistencies across sources and across countries
 - Differences arising from underlying GDP figures
 - Questions over accuracy / perceived shortcomings of IMF's Government Finance Statistics





- GRD takes data from
 - IMF Government Finance Statistics
 - OECD Revenue Statistics
 - Latin America, Asia, Africa
 - CEPALSTAT / ECLAC
 - Individual Country Sources
 - IMF Article IV Consultations
- Takes all figures in LCU, then expresses as % of a 'Common' GDP figure







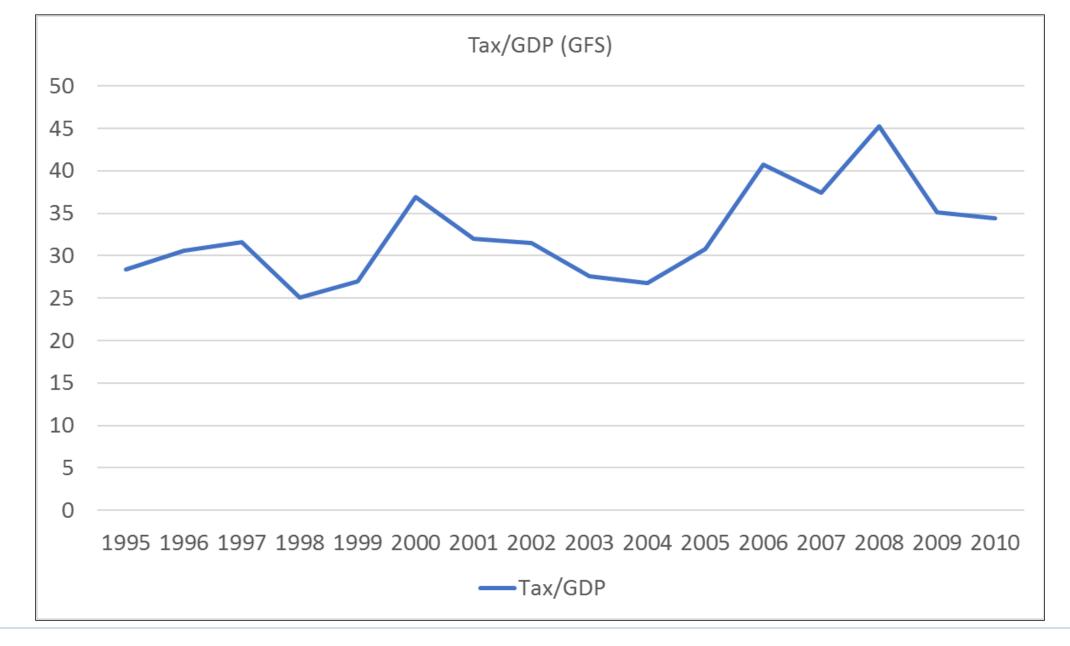


- Improved country coverage
 - > 195 countries
 - 1980-2016
- Presents revenues inclusive and exclusive of
 - Natural Resource Revenues
 - Social Contributions
- User guidance and notes
- Available www.wider.unu.edu

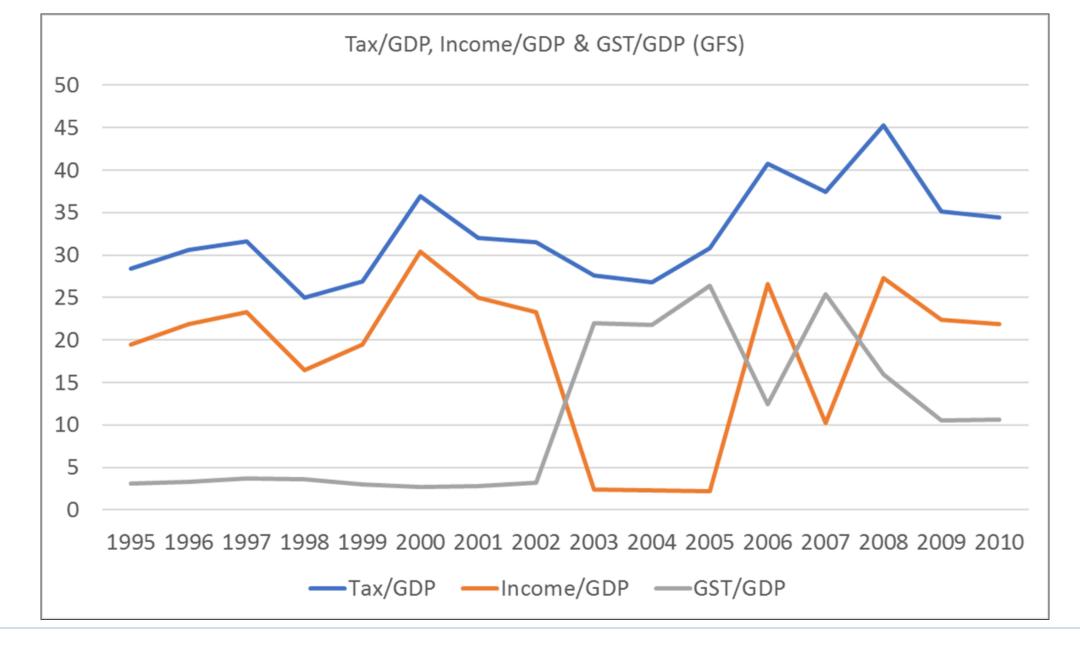


- An example of "bad" data
 - Importance of guidance, interpretation, notes when using revenue data.
 - An (extreme, but not isolated) example...
 - Algeria's taxes.

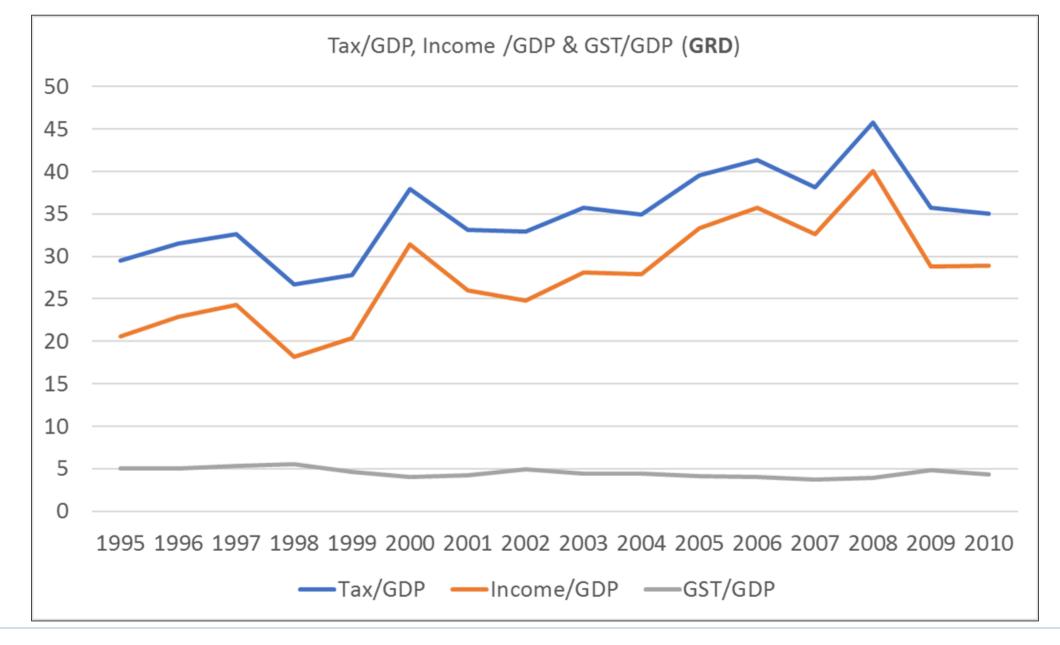




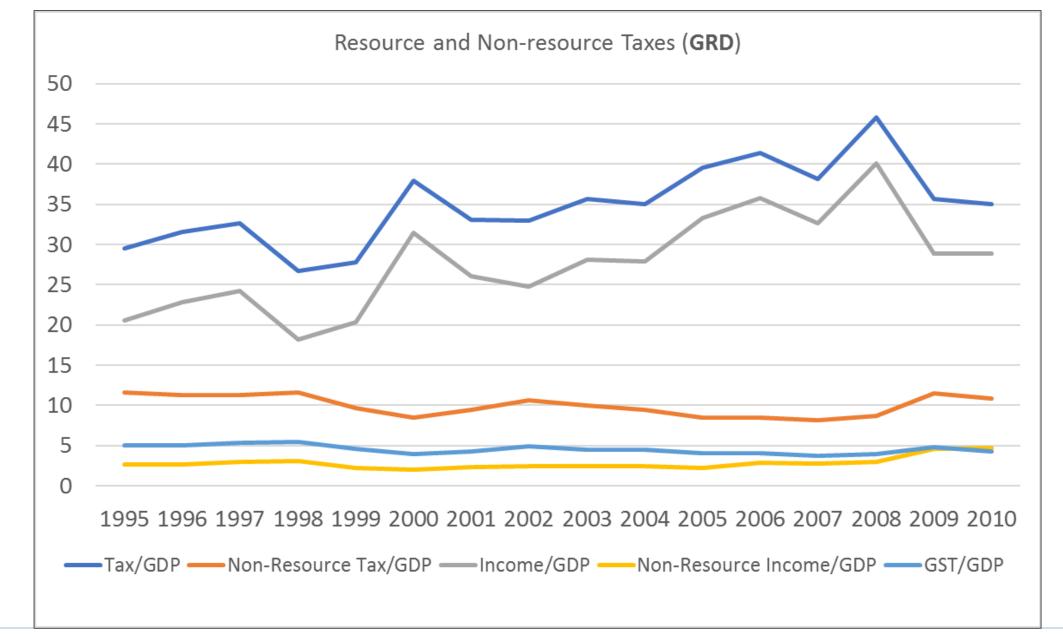










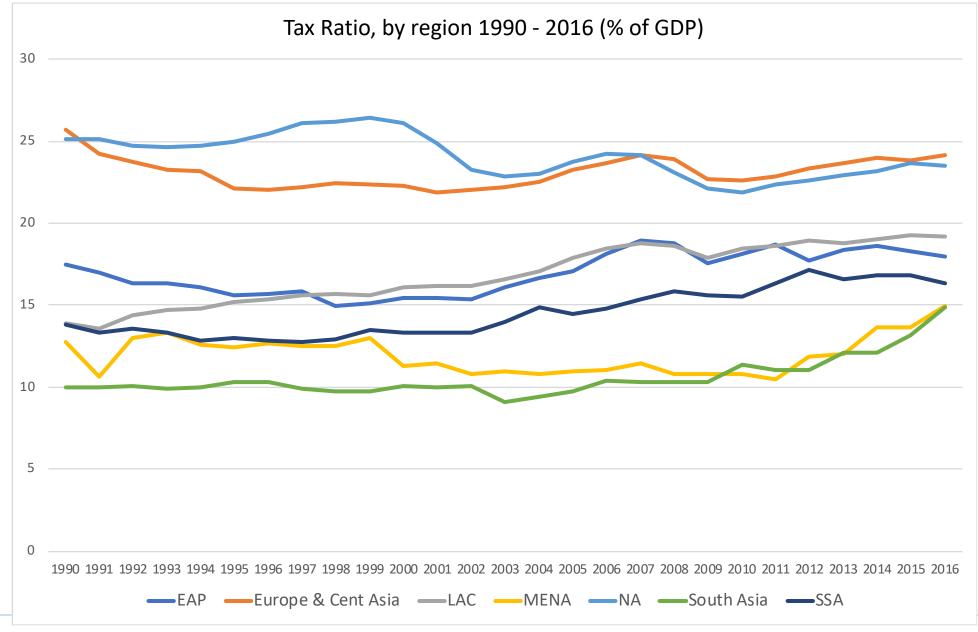




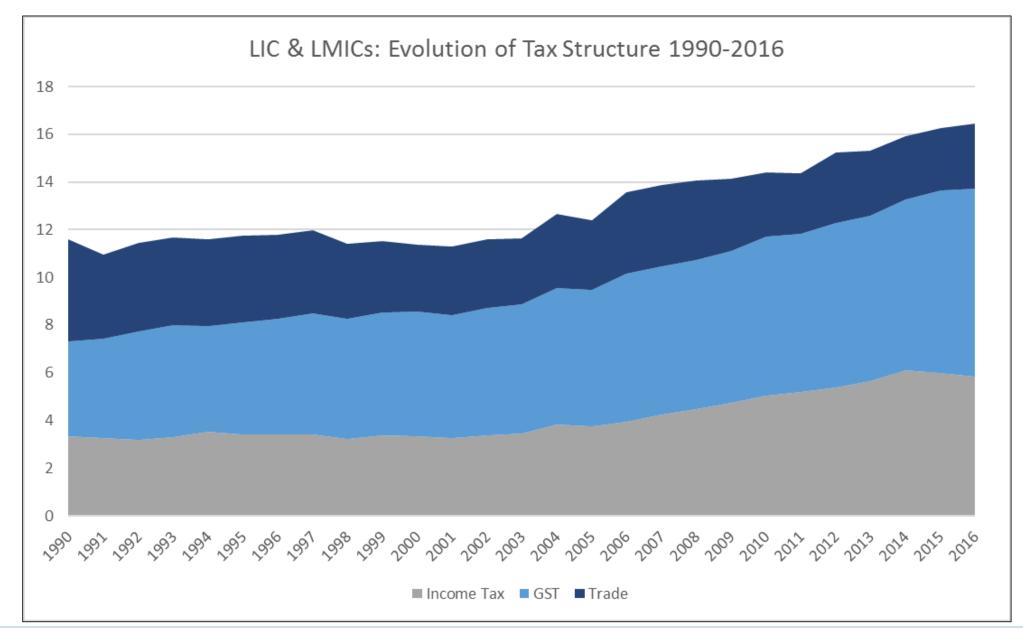
Recent Trends: First insights from 2018 GRD

- Continual improvements in tax ratio in developing countries & regions.
 - Encouraging
 - Masks outliers: Somalia, Senegal.
- Changes in tax structure over time
 - Reliance on trade: quickly declining in developing countries
- Struggles for resource-dependent economies

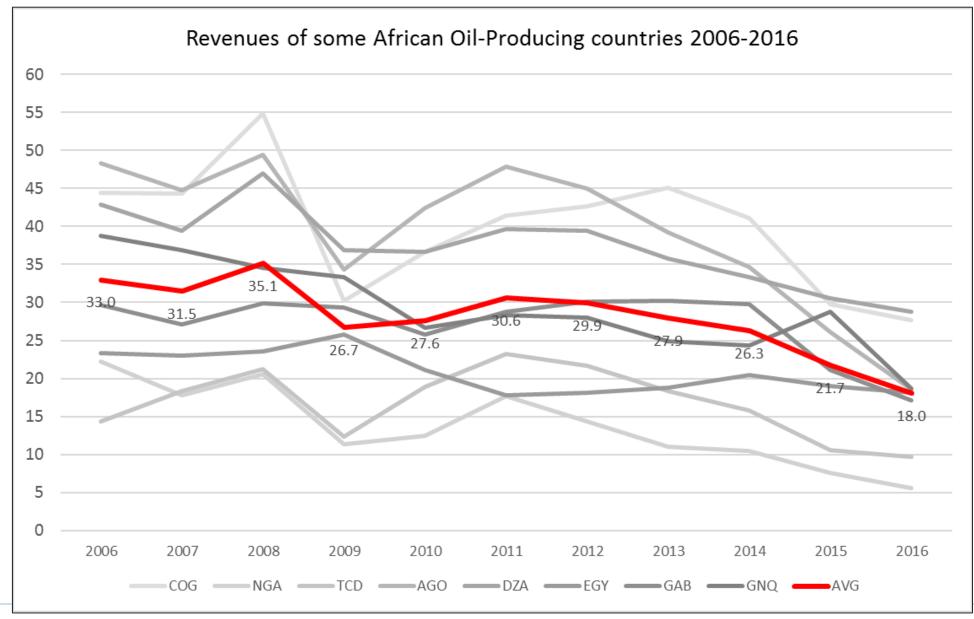














GRD 2018

- Thorough revisions
 - Occasional removal: More ≠ better
- New VAT data
- Available <u>www.wider.unu.edu</u>

	GRD 2018
Total Revenue	77.95%
Total Tax	80.91%
Income Tax	68.84%
Domestic GST	68.62%
Trade Tax	69.79%
Other Tax	65.39%
Property	58.85%

(% of total available obsv. 1980-2016)



GRD: Research



Volume 30, Issue 2

Fiscal Policy, State Building and Economic Development

Pages: 159-364

March 2018

Collection of 9 open-access articles utilising the GRD





GRD: Research



Volume 30, Issue 2
Fiscal Policy, State Building and Economic Development

Pages: **159-364**

March 2018

- Global distribution of Revenue Loss from Corporate Tax Avoidance (*Cobham & Jansky*)
- When do Developing Countries Compete Away their Corporate Tax Base? (*Hearson*)
- Taxation and Inequality in Developing Countries (*Martorano*)
- Party System Institutionalisation and Reliance on Personal Income Taxation in Developing Countries (von Schiller)
- Political Competition and Tax Revenues in Developing Countries (Yogo & Ngo Njib)
- Does the Political Resource Curse Affect Public Finance? (von Haldenwang & Ivanya)
- Tax Revenue Mobilization in Conflict-Affected Countries (van den Boogard et al.)
- Tax Structures, Economic Growth: New Evidence from the GRD (*McNabb*)



GRD: Research

- GRD has also been used in a large # of publications since launch
 - Journals
 - Working Papers
 - Reports (e.g. UN)
 - NGOs & IO's (Our World in Data, Mo Ibrahim Foundation, etc.)
 - Media: NYTimes, Economist



Next steps: Data visualisation



Next steps: Data visualisation

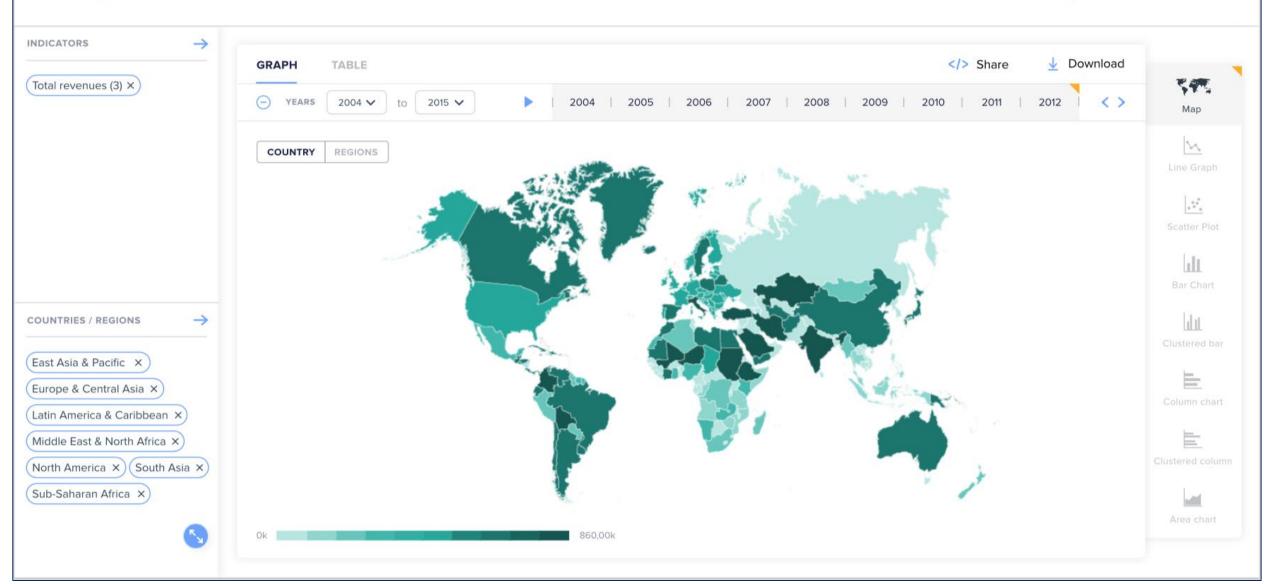
- GRD Explorer
- Software designed around the GRD.
 - Help users get the most out of the data
 - Designed as a hub for tax data and info.
 - Guidance, notes, etc.
 - Desktop, tablet, mobile functionality.
 - Mockups:





PROJECTS PUBLICATIONS DATA EXPERTS EVENTS LEARNING BLOG IMPACT

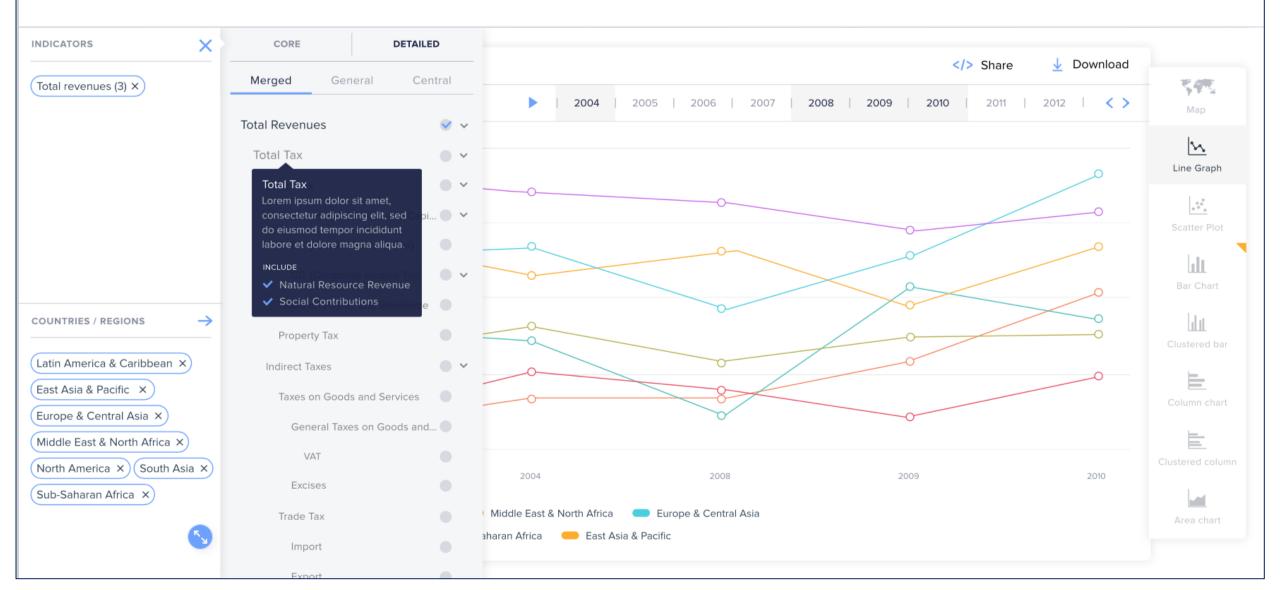






PROJECTS PUBLICATIONS DATA EXPERTS EVENTS LEARNING BLOG IMPACT







PROJECTS PUBLICATIONS DATA EXPERTS EVENTS LEARNING BLOG IMPACT







Total Tax 40%

Total Revenue 45%

GDP per Capital \$ 39.000

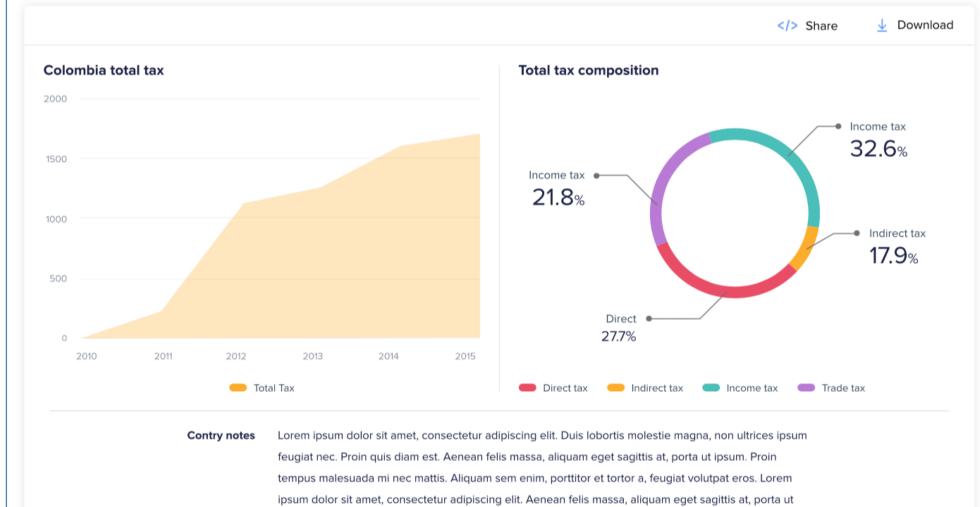
Currency Euro

Income Group High

Region Latin America & Cari...

Other Clasification OECD, EU, etc

More info →



Next steps: Data visualisation

- Built with UX in mind, idea is to engage users, especially those outside of research (policy, I.O.'s).
 - GRD already widely used in research community but hope that the tool stimulates discussion around taxation and use of the data in wider circles.
- Visualizations can be easily exported to include in reports, articles, blogs, twitter, wherever.
- Feedback welcome... see PC in Network Cafe.



Concluding Remarks

- Data quality remains an issue
 - "Better than bad" (Moore, 2015)
 - The GRD is a 'sticking plaster' on the issue. International commitment required to ensure continual improvements in availability and quality of tax data going forward.
- Balance caution whilst still encouraging use of the data.
- But, at least for the foreseeable future, there is a real need for this kind of dataset and the commitment of UNU-WIDER to fund its existence.



