Friday Seminar on Emerging Issues

## The Data Revolution in Action

Vision of a federated system of SDG data hubs and innovation platforms

MARCH 2, 2018

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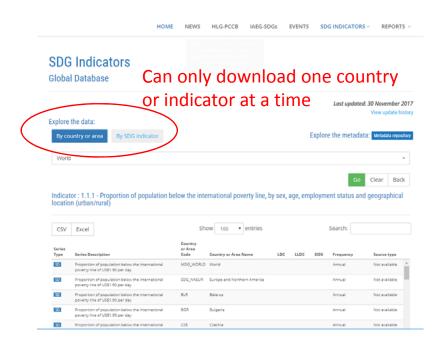
## Make Data Convenient

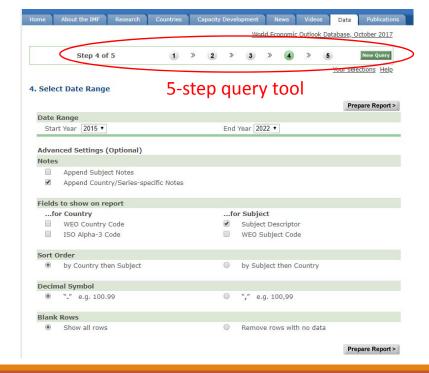
## The WDI Experience





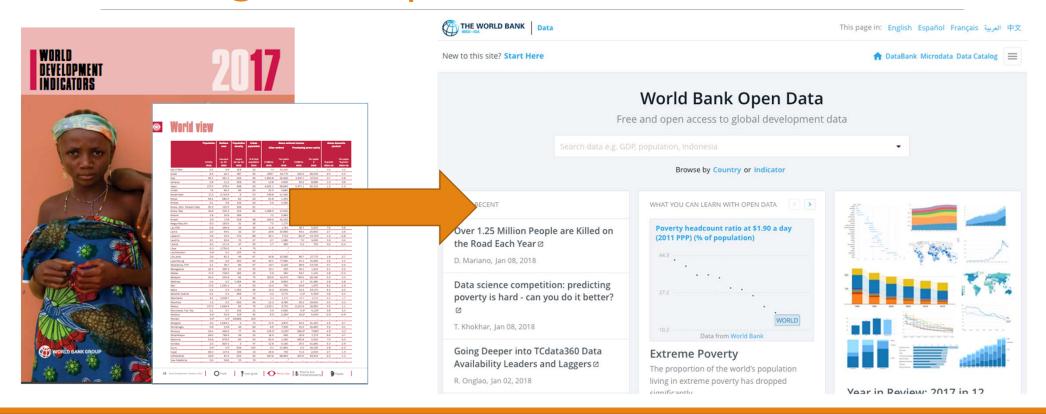
## Data are often far from Convenient





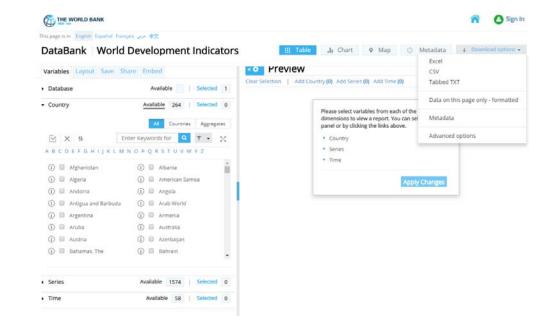
### Make Data Convenient:

# Making Data Open



# Open data doesn't have to be complex

- ✓ Not only query tools linkable pages with data that can all be found by Google
- ✓ Bulk downloads of CSV/XLS files + APIs
- ✓ Standard licenses e.g. Creative Commons Attribution.

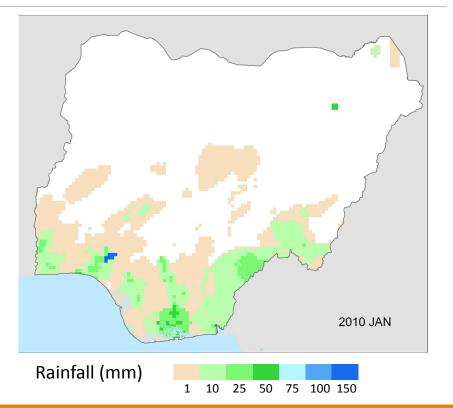


### Make Data Convenient:

## Making Data (*Technically*) Interoperable

## **Technical** Interoperability

- □ Data formats (downloadable, machine-readable)
- ☐Geo-referencing
- Open source tools



### Make Data Convenient:

## Making Data (Conceptually) Interoperable

## **Conceptual** Interoperability

- Extensible, open-ended, modifiable standards
- ☐Good metadata
- ☐ Future-proofing our data ecosystem
- ☐ "Premature optimization is the root of all evil" Donald Knuth

Humanitarian Exchange Language hxlstandard.org

#

**Places** multi-country region #region country name #country #adm1 administrative .. #adm5 subdivisions #adm1+code admin level 1 p-code #loc place (camp, building, etc.) #geo geographical info #geo+lat latitude Ionaitude #geo+lon

# People and households#affectednumber affected#inneednumber in need#targetednumber targeted

#targeted number targeted
#reached number reached
#population population category
#beneficiary beneficiary category

hxlstandard.org

Responses and other operations project or activity name #activity organisation name #org #contact contact info #sector sector or cluster name #subsector subsector name #indicator indicator name #capacity response capacity #output activity output

### **Crises and incidents**

#operations

#crisis crisis/emergency name
#cause crisis or incident cause
#impact crisis or incident impact
#severity crisis or incident severity

operation-related info

#### **Extras**

#date day or period
#status e.g. active
#description general text
#meta general meta data

# Make Data Credible

### Make Data Credible:

## Relevance, Transparency, Reproducibility





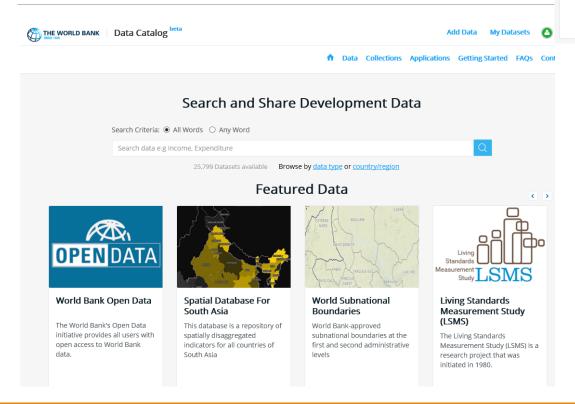


### Make Data Credible:

## Agile, Extensible Standards

"Don't let the perfect be the enemy of the good!"

# Learning Together





### Time Series (20,855)

Datasets and Indicators level data that is a sequence of numbers collected at regular intervals over a period of time



#### Microdata (7,918)

Unit-level data obtained from sample surveys, censuses, and administrative systems



### Geospatial (1,129)

Data that has explicit geographic positioning information included within it in either vector or raster format