Informing a Development Data Revolution

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PARIS 21

Partnership in Statistics for Development in the 21st Century

What we are NOT

- 21st district in Paris
- (only) statistical nerds
- OECD DAC



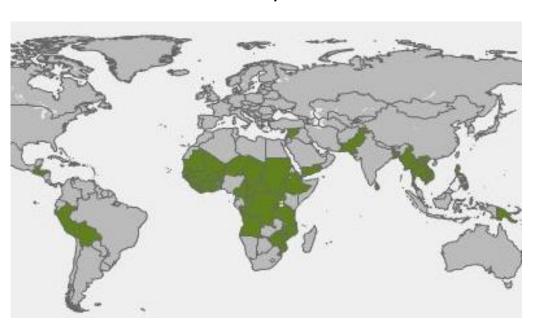
PARIS21: Global partnership on statistical capacity development

National & Regional

- Strategic planning (NSDS & RSDA)
- Advocacy
- Data (e.g. micro-data dissemination)

Global

- Co-ordination (BAPS, PRESS)
- Knowledge sharing





Why a data revolution, why now?

The challenge

- Old problems
 - Data gaps
 - Communication

- Emerging priorities
 - National data for global development goals
 - New indicators for new areas

The opportunity

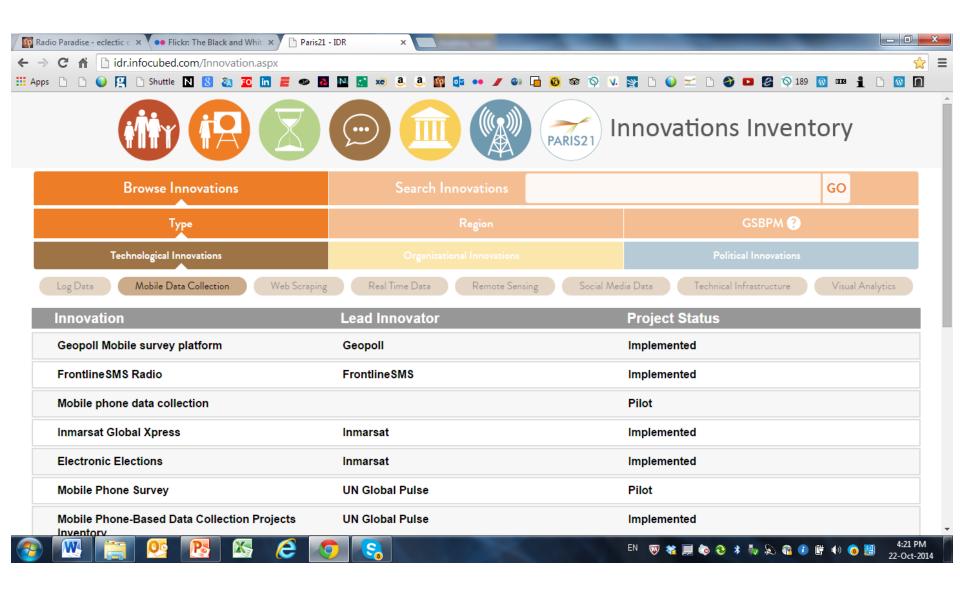
Positive lessons from MDGs

- More surveys, data and statistics available
- Statistical capacity efforts NSDS as strategic approach

Countries are well positioned

- Existing structures
- Growing capacity to generate; analyze; store data
- Innovations and momentum for change

Inventory of Innovations



The IDR project is...

- taking stock of data supply, demand, and gaps in a number of developing countries
- exploring innovations: Innovations Inventory and the Metabase
- carrying out a research program
- producing a Road Map for a Data Revolution
- funded by the Gates Foundation.





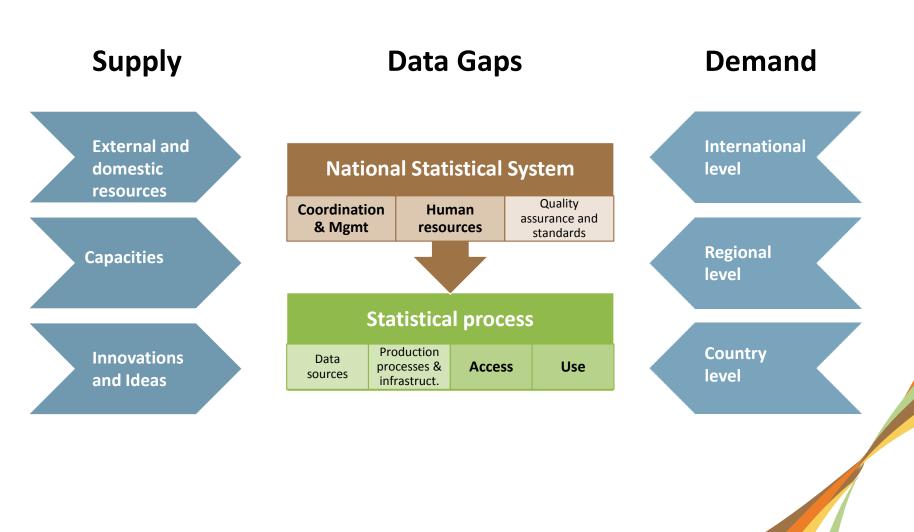
Data needs identified in the IDR project

Needs assessment based on:

- A series of working papers
- A series of consultative workshops at country and regional level covering most regions of the world
- A cross-country analysis of 27 statistical systems
- A series of in-depth studies in 7 countries

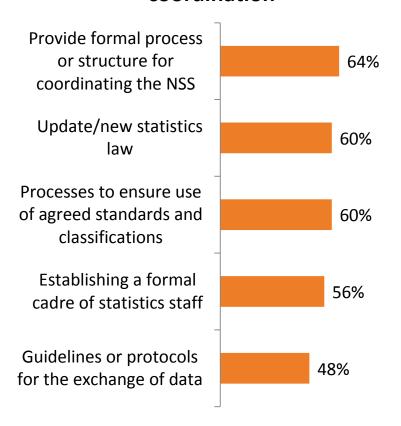


Needs Assessment: Conceptual framework



1. NSS Coordination & Management

Priorities for management and coordination



- NSDS used in nearly all countries
- Co-ordination within NSS remains weak

2. Developing people & skills

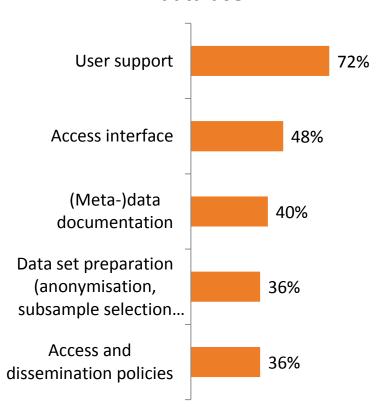
Priorities for skills development



 Half the countries surveyed don't have an annual training plan in place for more than half of their professional staff

3. Data access and use

Country priorities for Improving data use



- User support is a key priority in 72% of countries
- Only 10 of the 25
 countries hold periodical
 user-producer dialogues
 or conduct regular user
 satisfaction surveys

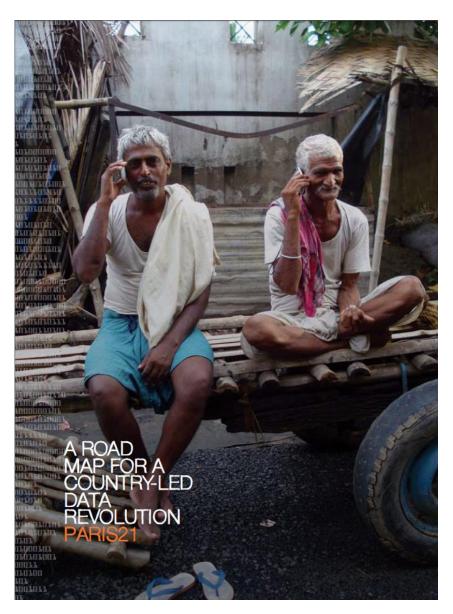
Summary

- Fixing basic nuts and bolts of statistical production - revolution as evolution
- 2. System-wide coordination and management
- 3. Investing in human resource development
- 4. Data dissemination & use are a priority area



Recommendations in the IDR Road Map

The IDR Road Map



The IDR Road Map – 3 Big Ideas

- 1. Increased funding: This report calls for Official Development Assistance (ODA) for statistics to rise from around 0.5% of ODA at present to around 1%.
- 2. Data compact: This report recommends creating a system where countries sign up to a limited set of basic principles and receive, in return for progress, enhanced and flexible financial and technical assistance.
- 3. Progress report: This report calls for the establishment of an annual Data for Sustainable Development Report, prepared by PARIS21, to measure countries progress in developing their statistical capacity and to report on funding for statistics.



Source:

Bruckschen, Schmid, Zbiranski (2015). Cookbook for a socio-demographic basket, D4D: Orange Data for Development Challenge.

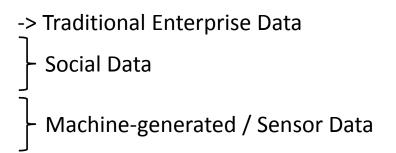
Big Data for Development

Population Statistics: Census or civil registration



Non-traditional (Big Data)

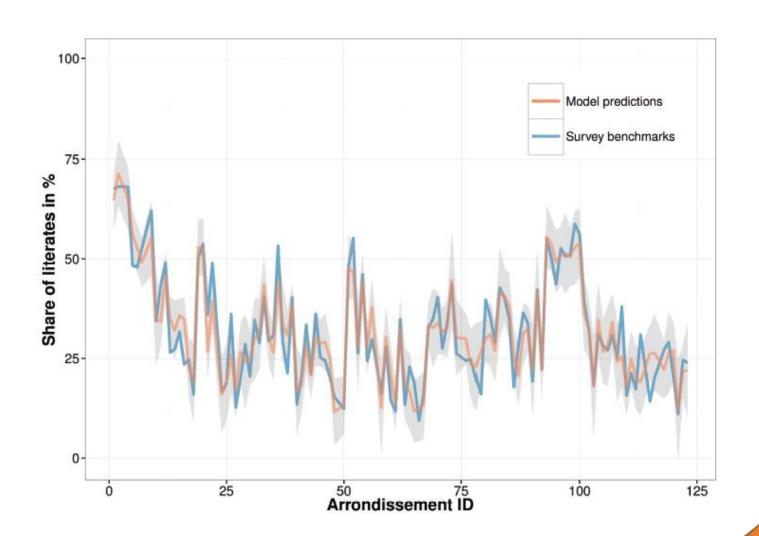
- Transaction Data
- Social Media Data
- Search Queries
- Satellite Imagery
- Mobile Phone Data



Can "big data" substitute for surveys?

- Hypothesis: mobile phone user behaviour reveals socio-economic characteristics
- Approach:
 - re-build survey data with model using "call logs"
 - estimate literacy level on monthly basis
 - consistency check with survey results
- Call logs: location (antenna +/- 2km), time, emitter and receiver (identifiers)
- Advantage: cheap, granular, timely

County level fit



Literacy levels in Senegal

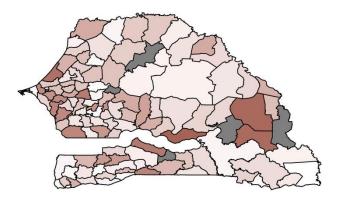
How the international community sees it

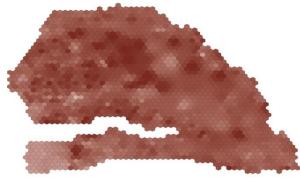
How a national policymaker sees it

How national policymakers could see it



Source: africanpresidentialcenter.com





In conclusion

Benefits of big data

- Applications in various fields
- New business opportunities and possibilities to foster innovation
- Leap-frogging potential (e.g. Stats in DC's)

Methodological challenges and risks

- Spurious relationships and sampling bias
- Bigger questions: privacy, regulatory framework, trust, skill development

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