

Capacity building and smart investments for innovation: What is needed in developing countries?

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PARIS21

Partnership in Statistics for
Development in the 21st Century

Context

- Huge demand on NSO's to produce more and better data
- Existing new opportunities
- Old problems persisting

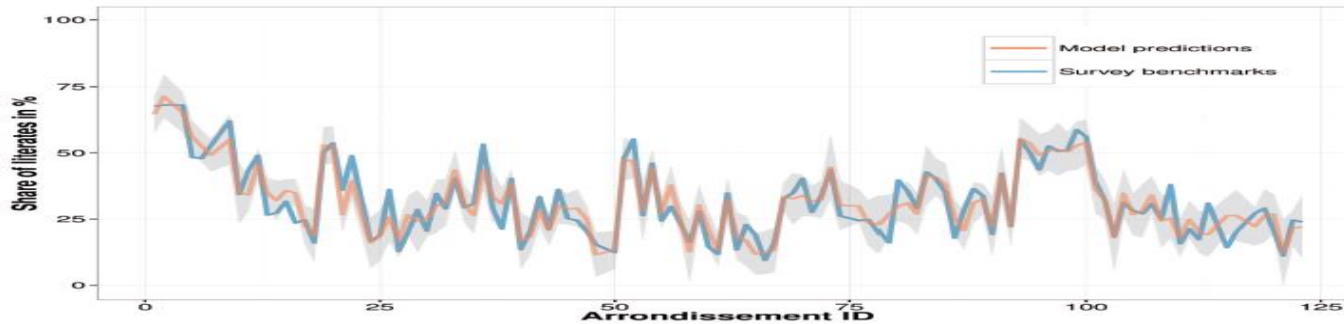
>> What role for big data – what impact on capacity development?

Big Data Paradox in development

- Great need given huge demand
 - SDG's 230 indicators
- Opportunities:
 - leap-frogging
 - cheaper, real-time, granular
 - data in new areas

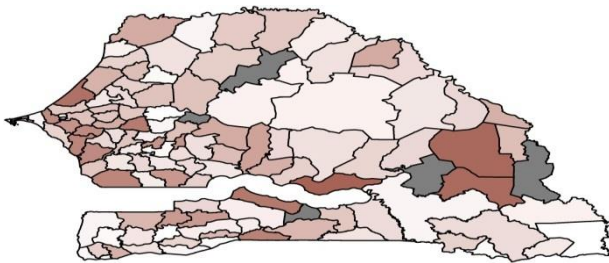
D4D project results

Model validation for literacy rates

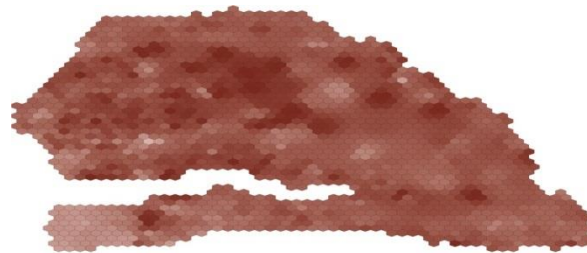


Model results

How we see it:



How we **could** see it:



Source: Bruckschen et al. (2015). Cookbook for a socio-demographic basket: Constructing key performance indicators with digital breadcrumbs.

Big Data Paradox

- Risks

- Same as in developed countries

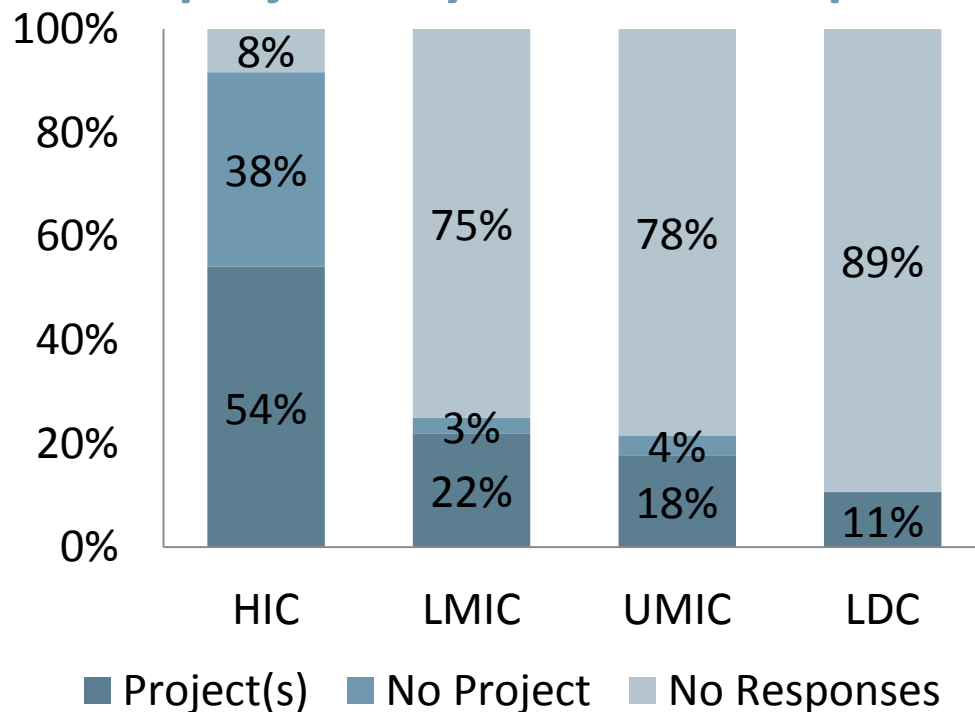
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- governance and legal framework not in place – weak to manage them

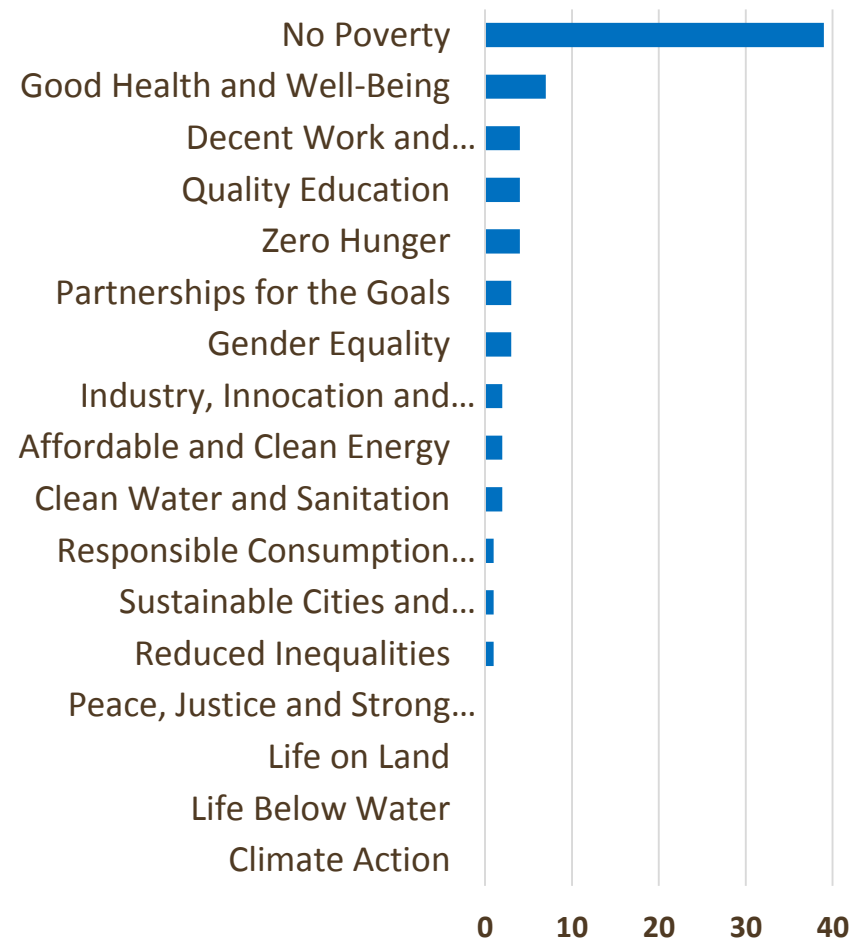
Reality of today: not many big data projects to produce official statistics in place

Big data projects by NSOs

Percentage of NSOs with projects by Income Group



Count of projects by SDG Goal



Source: 2016 Global Survey of the Task Team on “Big Data for SDGs”.

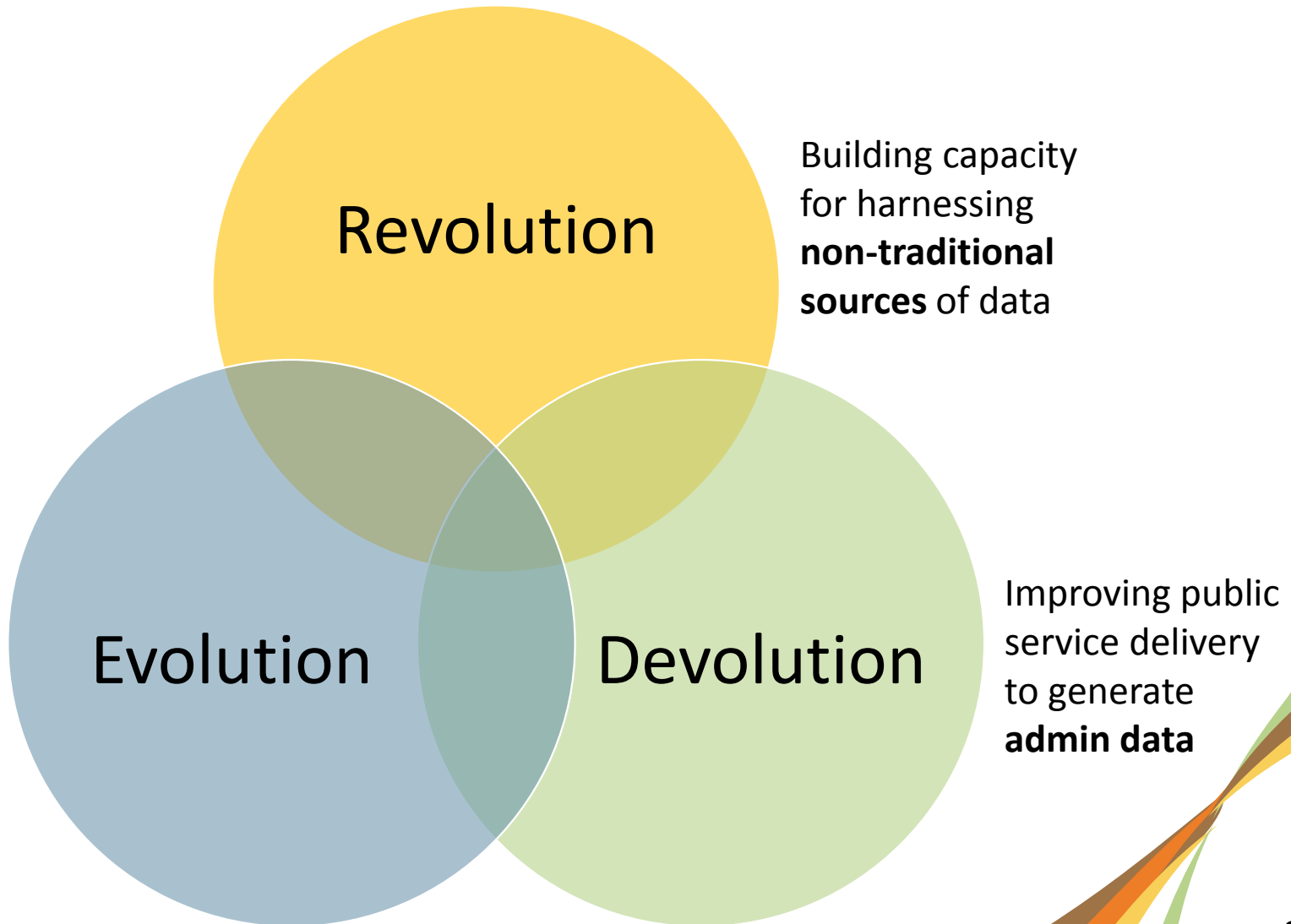
Smart investments in innovations

A working definition:

Smart investments ...

1. enable revolution, evolution and devolution of the statistical system at large
2. respond to national needs and demands
3. encourage new forms of partnerships.

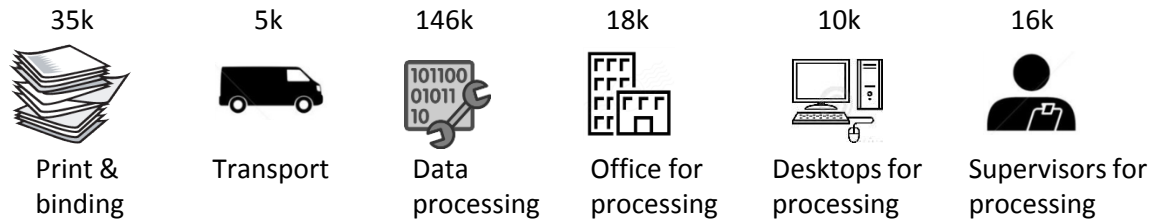
Smart investments



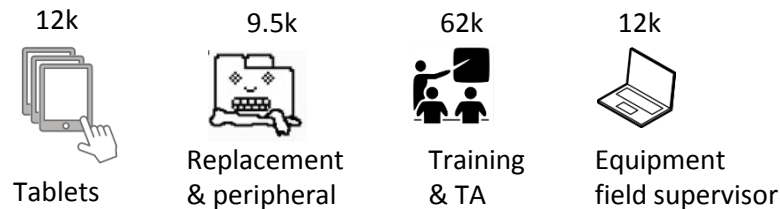
Tablet-based HH surveys

- Case-study for 13,000 HH in East Africa

Paper-based data collection: \$230k



Data collection with Android tablets: \$96k



➤ Cost-savings in Data Processing over 3-years is 60%

Source: PARIS21 (2015). A Roadmap for a Country-led Data Revolution.

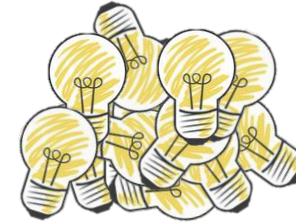
PISTA: Platform for Innovations in Statistics

Identification & Classification

Statistical Capacity Assessments



Development Data Innovators



Informing Modernisation Processes



To find out more, go to pista.paris21.org

Summary

- Big Data part of the solution, in developing countries for some time smaller part
- Innovation key and critical – look at all of them: technical, institutional and governance
- Smart investment in innovation calls for supporting a comprehensive approach to capacity building

Questions

- Should NSOs in prioritise big data or statistical essentials?
- Should NSOs invest in data literacy to manage big data or leave it to the private sector?
- How do we ensure that investments in big data projects results in crowding in of national capacities?