Data for Development, an emerging opportunity

Nicolas de Cordes, Orange Group

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Better policies requires better information
How to measure the new Sustainable Development Goals?

- The UN has redefined the Development Goals for the 2015-2030 period, increasing their numbers from 8 to 17 Sustainable Development Goals (SDG)
  - 17 SDG’s, 169 targets… Potentially 100’s of things you would like to know…
  - the work is still in progress to choose what to measure and evaluate its costs

- A Group of Independant Experts, was invited by the Secretary General of the UN in 2014 to advise on how to measure the SDG’s in particular using modern technologies.

- We delivered a report « A World that Counts » early November 2014
« A world that count » recommends directions, and to leverage the on-going data revolution for the SDG’s

The recommendations have been taken into account and lead to a number of UN initiatives

More on the IEAG on Data Revolution: www.UNdatarevolution.org
Orange’s Data 4 Development projects
Ivory Coast (2012-13) & Senegal (2014-15)

- Reuse technical network management data, to create strongly anonymous data samples that can be used by researchers in a safe and controlled way, to help on country’s development issues

- All results are available at [www.D4D.orange.com](http://www.D4D.orange.com)

- Orange also commercialise privacy compliant Data Analysis services: Flux Vision, ex on Tourism flows
Creating proxies of poverty index at a much granular level, to better focus the efforts

Going from a field survey …to a fresher, and more granular proxy

Neeti Pokhriyal, Buffalo University, NY currently deepening the analysis with ANSD in Senegal.

Model the spread of diseases, and optimise the location of hospitals to improve medical help

Eva Enns et. al., D4D Côte d'Ivoire
Also explored on transmissible disease: Schistosomiasis, Aids, TB, Meningitis, …

Mutafungwa, E., Aalto University (lead author), with univ of Tunis and Bordeaux

Optimise the deployment and analyse the impacts of new transport infrastructures

Graph 1: Potential Links to Be Added and Existing Links to Be Upgraded

Erik de Romph, Yihong Wang, Department of Transport and Planning, Faculty of Civil Engineering and Geosciences, Delft University of Technology

Fetzer, Thiemo, London School of Economics (Lead Author), Sy, Amadou, Brookings Institution, Arezki, Rabah and Chan-Lau, Jorge, IMF

Optimise the deployment of the electric grid, to reduce its cost and improve the quality of service.

Using Mobile Phone Data for Electrification Planning

Level of electrification
- 0%
- 0% - 25%
- 25% - 50%
- 50% - 75%
- 75% - 100%
- 100%

Fig. 1: Comparison of mobile activity and electricity consumption

Fig. 2: Electrification recommendations

The challenges to start actively using Data for society benefits are numerous...

- **Leadership**, priorities, **accountability**, transparency, decision making,…
- **Governance**, Regulation, **Ethics** of Privacy and Usages, ownership/access rights,…
- Culture, **risk** management (commercial, security)
- Skills, **data specialists**, knowledge building & sharing, …
- **Capacity building**, Technologies, anonymisation, standards,…
- Financing (semi) open platforms enabling smooth operations, with local partners ecosystems,…
- **Design** issues of «using Data» in a field and in regions with little **data literacy** and civil risks
- **Creating a market**, by finding **Business Models** and building the first success stories
- … both in **developed** and **developing** countries.
Many initiatives are opening the way… BigData will likely influence public policies and Development

- Data availability is often a consequence of the digitalisation of society
  - it will continue to grow with more Mobile, Machine to Machine, Internet of Things,…

- Significant initiatives are emerging, building the foundations of something new
  - Open Data movement, citizen activism, leading companies exploring the field
  - Major institutions taking initiatives:
    - UN (Launch of Global Partnership), WEF, WorldBank, EU Commission, the White House,…
  - Large foundations starting to invest in the domain of Data & development
  - Apparition of platforms for Data Sharing: Open Data Gov, FiWare, Flexible Data,…

- We can’t afford not to use it or underleveraging its potential (in a safe way)
  - We need it to address the increasingly complex and urgent challenges of the world
    - Climate Change, Growth of Cities, health, ressources management, financial crisis, reducing poverty and gender inequalities,…

- Access to, and usages of data is a complex question, requiring active PPP dialog to find policies that works
  - Pragmatic & safe regulations that promote innovations and the growth of ‘platforms’
Watch this space at COP21