

Open Data Changes Lives

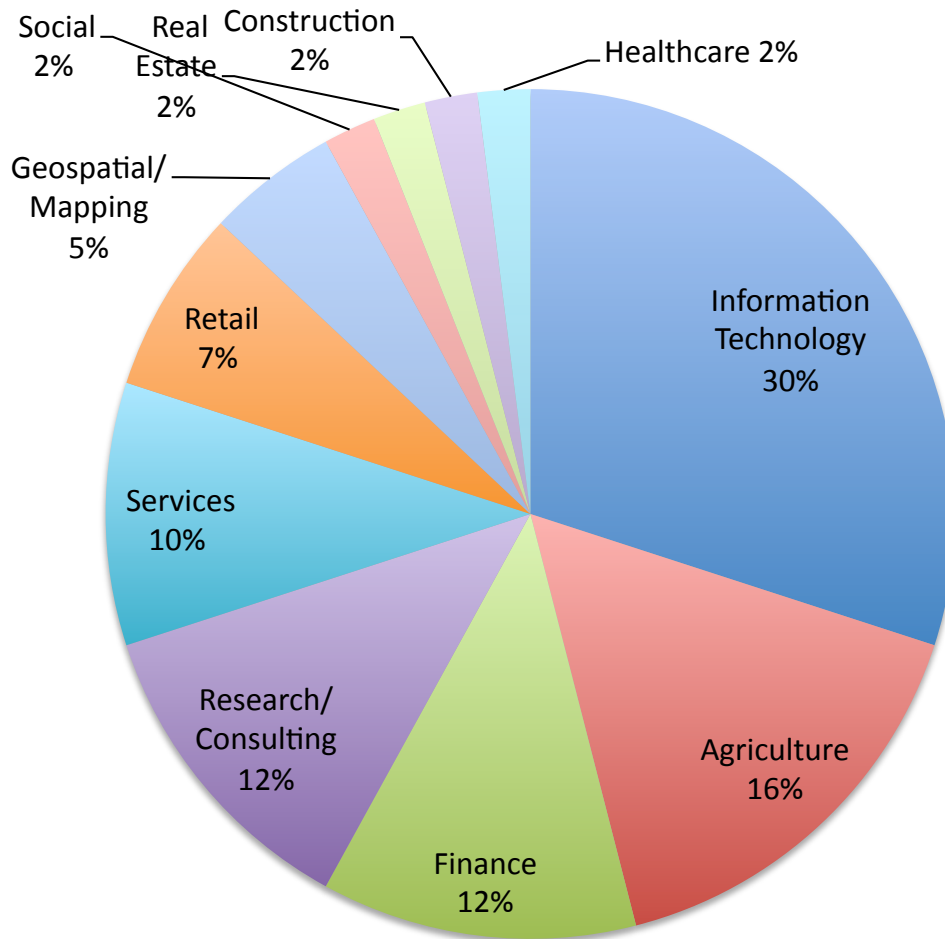
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Why Should the Private Sector Care About Open Data?

Sectoral Distribution of Companies in Africa using Open Data based on World Bank Survey



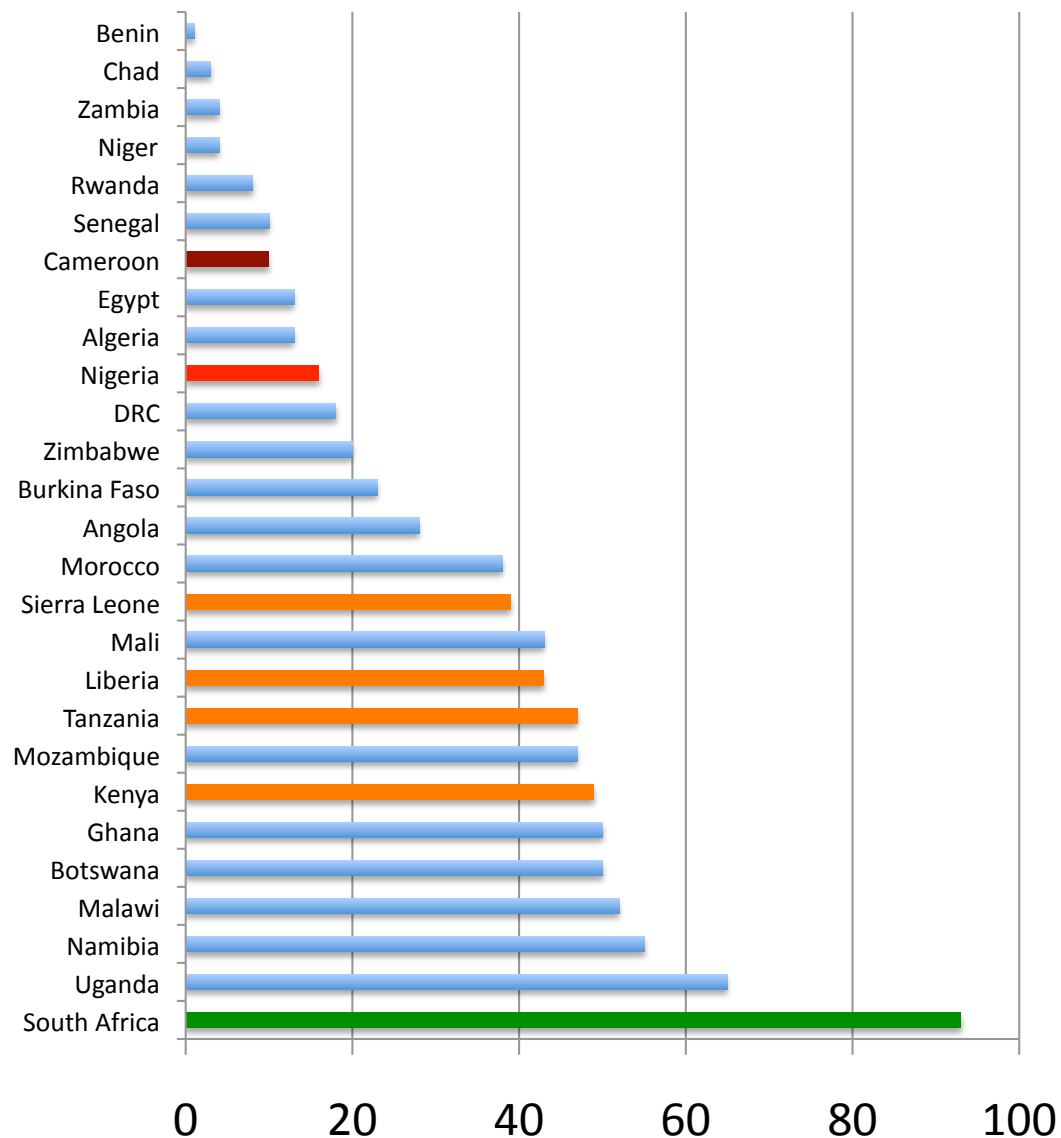
Source: World Bank, Digital Data Divide

Channels by which open data helps the private sector

- Policy predictability: deeper links between Policies and Impacts allowing evidence-based decision-making
- Political Uncertainty: enabled linkages between Politics and Policy
- Price Transparency: access to price information across markets
- Business Opportunities: new business models and platforms

What Examples Exist of Changed Lives from Open Data?

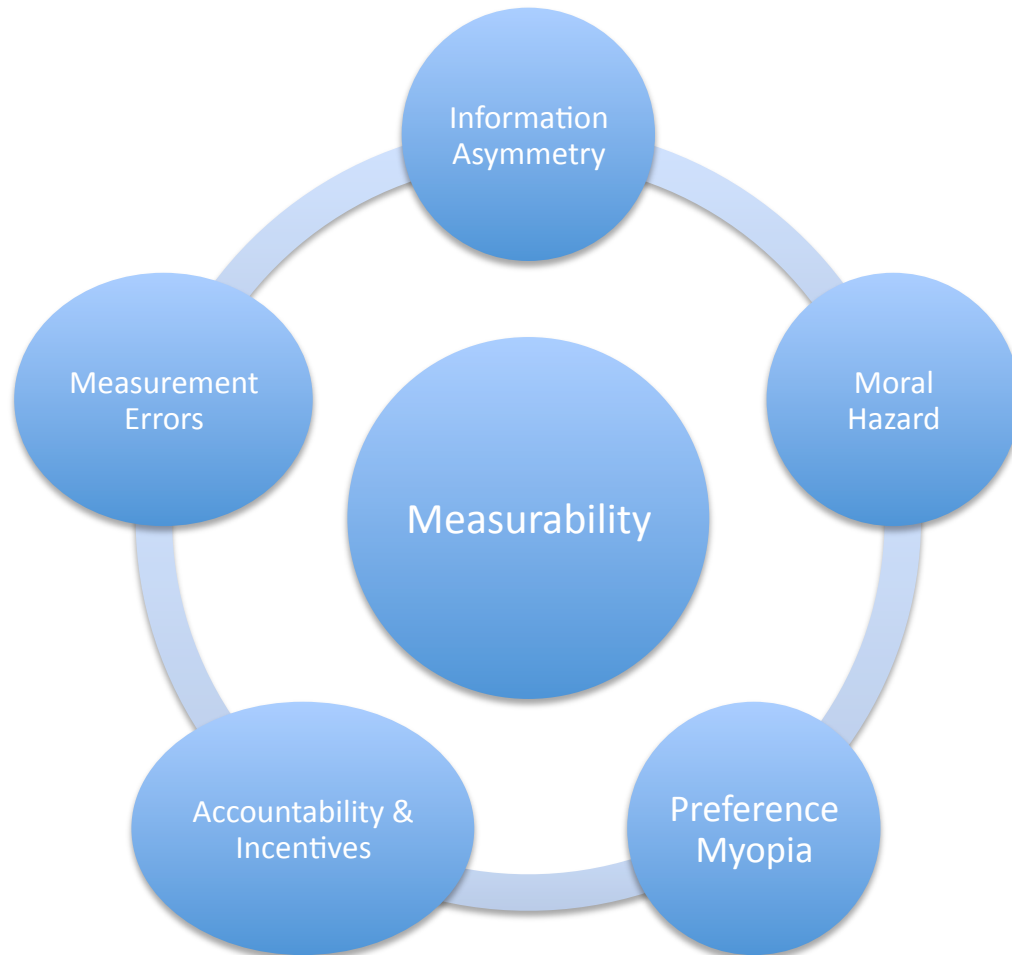
Open Budget Index Rankings 2014



Examples from Practice in Africa

- Services: Budget transparency; and access to services (waste collection & urban transport)
- Agriculture: food prices; and access to inputs
- Research/Consulting: access to cassava data for research and learning; and risk management for pandemics
- Healthcare: access to pharmaceuticals; and managing pandemics

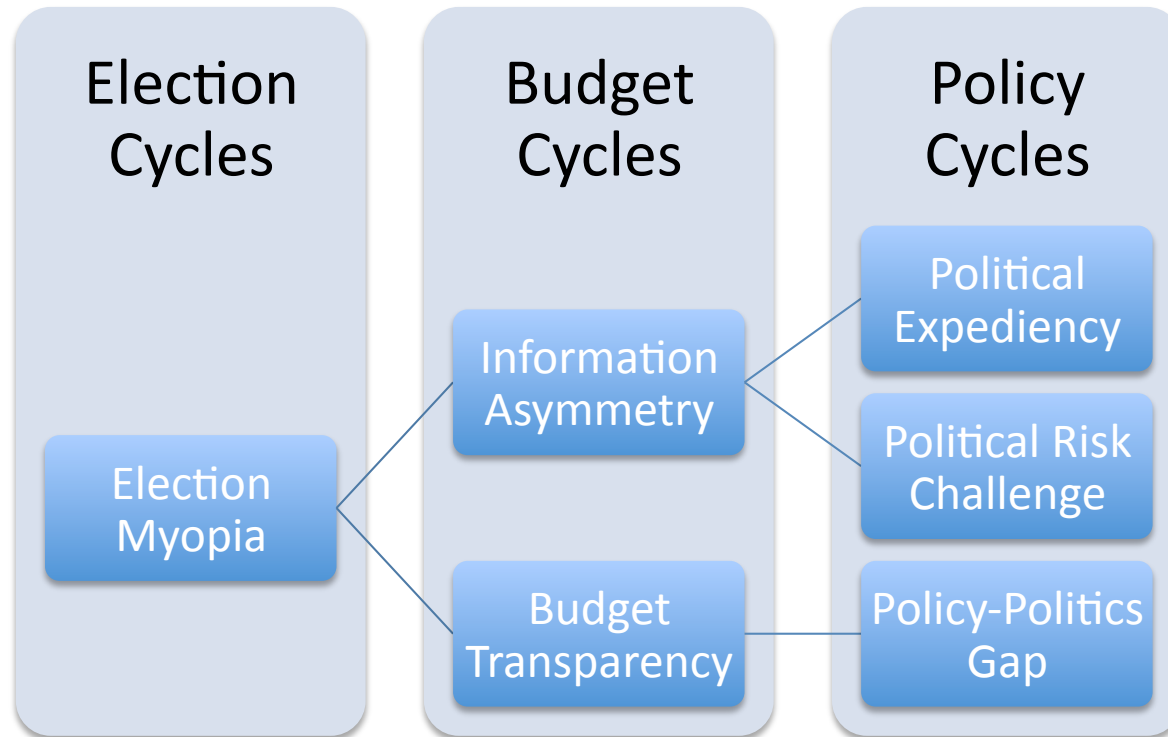
Policy Predictability: Open Data Deepens Links Between Policies and Impacts Allowing Evidence-Based Decision-making



Open Data allows effective evolution of links between key policies and economic and social impacts by enhancing:

- (a) enhancing measurability;
- (b) addressing information asymmetry;
- (c) limiting moral hazard;
- (d) reducing preference myopia;
- (e) reducing measurement errors; and
- (f) introducing accountability & incentives.

Political Uncertainty: Open Data Enables Linkages Between Politics and Policy



Taken from Léautier, F. (2014): *Leadership in a Globalized World: Complexity, Dynamics and Risks*. Pages 199-203. London: Palgrave MacMillan.

Governance: Tackling citizen myopia and increasing transparency and accountability

Citizen Enabled--Interactive



- Tweets, interactive data, and infographics to enhance citizen understanding of budget and engagement on critical policy tradeoffs

Government Enabled--Website



- Provides an Interactive Map and Budget Breakdown (capital budget and utilities services budget)
- Provides access to citizens and investors on service provision and efficiency

Waste Management Trucks as Data Collection Ants in PPP Between Local Government and IBM for Applied Research in Nairobi



Challenge: Illegal behavior by drivers of garbage trucks to transport sand and building stones for private businesses instead of collecting and disposing garbage.

Context: Roads riddled with potholes causing havoc to traffic and contributing to congested roads and air pollution



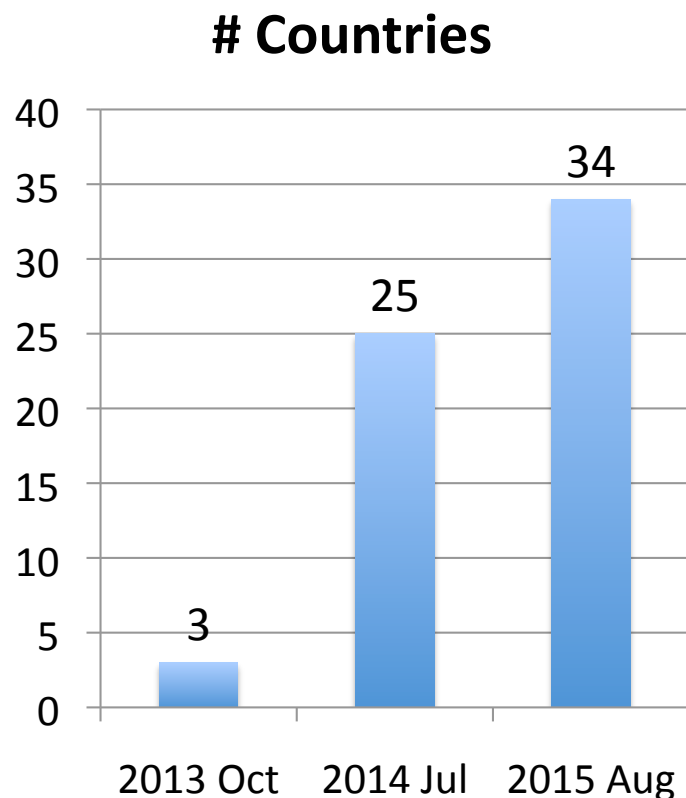
Solution: garbage trucks fitted with mobile phones, modified gyroscope & accelerator

Result: Trucks acting as “data collection ants” gather data on road conditions making it easier to know where to spend resources.....Garbage collection increased from 800 to 1,400 metric tons a day



Buying & Selling: Africa Food Prices

Number of Countries Reporting

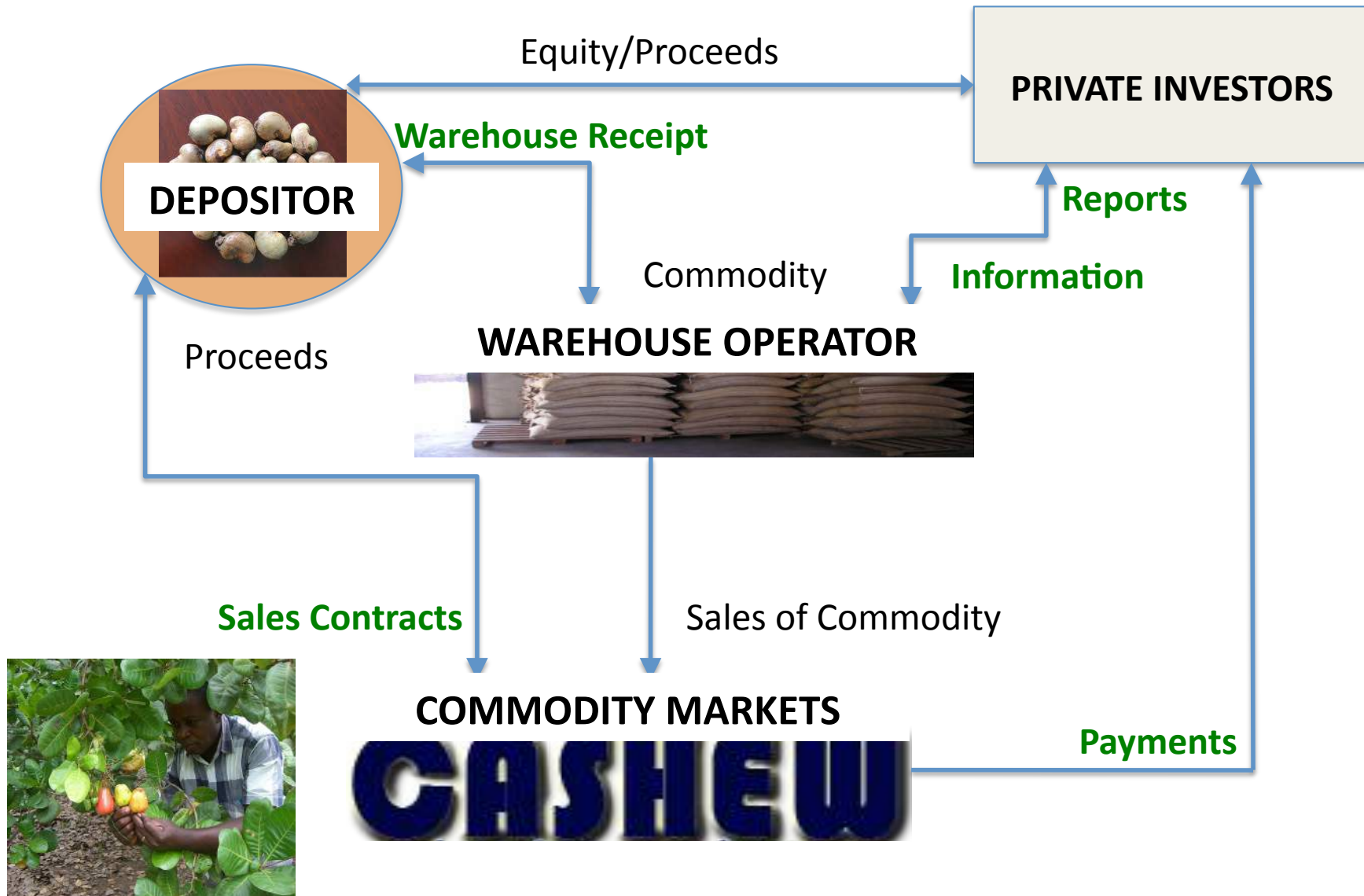


Trends in Price Data: Pasteurized Unskimmed Milk (\$ per litre)

#	2013 Oct	2014 Jul	2015 Aug
1	Zambia (1.38)	Ghana (3.49)	Cameroon (3.22)
2	Senegal (1.25)	Nigeria (3.07)	Nigeria (3.22)
3	Tunisia (0.65)	DRC (2.49)	Eritrea (3.08)
4		Cameroon (2.49)	DRC (2.82)
5		Togo (2.49)	Ghana (2.76)
6		Benin (2.38)	Togo (2.40)
7		Mauritius (1.74)	Benin (2.34)
8		Cote d'Ivoire (1.71)	Gabon (2.30)
9		Zambia (1.72)	Mali (2.27)
10		Botswana (1.54)	Cote d'Ivoire (1.94)

Benefits to farmers through better prices; consumers through cheaper prices as a result of price competition across and within countries; and to health through child nutrition.

Open Data & Investments in Cashew Nut Value Chain



Access to Data for Research & Learning

S&T and Applied Research



CASSAVABASE

- Cassava is a main staple for over 500 million people globally
- It is indispensable for food security in Africa

Value of Open Data on Cassava

- Data and tools for breeders and researchers enhance productivity
- Examples include:
 - genomic selection algorithms and analysis capacity;
 - cassava genome browser and ontology tools;
 - phenotyping tools, maps & markers; and
 - social networking capability

Health Services: Cheaper and Speedier Pharmaceuticals

Tackling Speed in Urgent Health Transactions

- Large demand for safe and speedy solutions to pharmaceutical needs
- Speed Pharma created as an information network built on an Internet platform with purchasing and delivery service
- Organized delivery of medication and optimized management of medicine stocks

Value of Open Data

- Fast access to stocks of medication by location to handle urgent and emergency needs for medication
- Effective logistics and supply chain management of pharmaceutical stocks with potential value during emergencies and pandemics in addition to day-to-day urgent needs



Before

- >6-7 days
- Depleted stocks

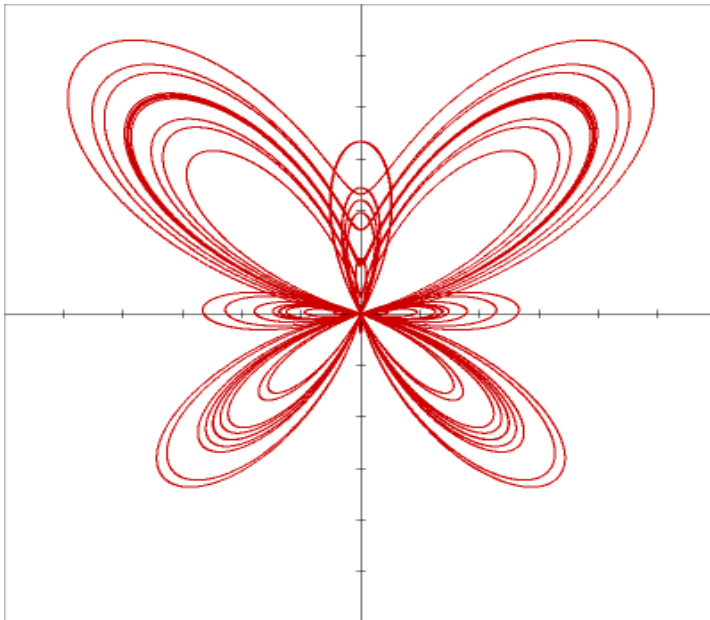
After

- <72 hours
- Always in stock

Effective risk management changes lives. How does Open Data support Risk Management?

Provide data to enhance effectiveness of parametric measures

- Residual risk-what cannot be measured?



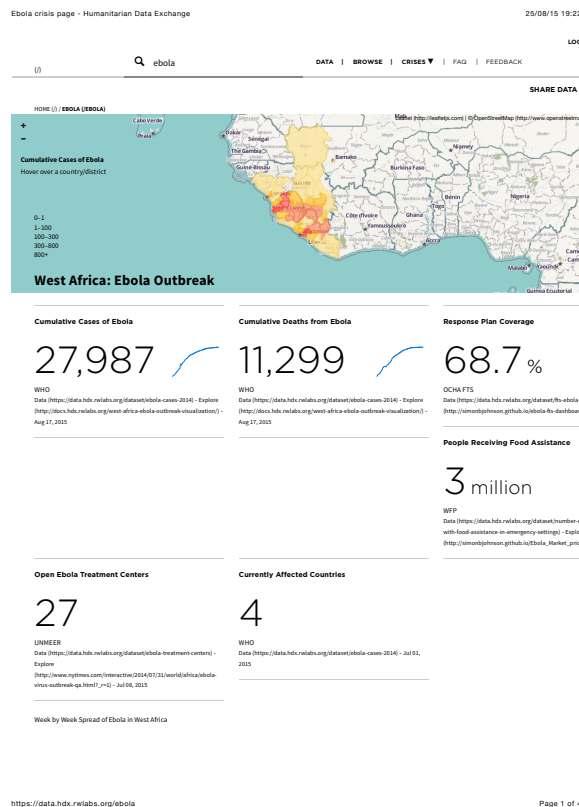
Provide insights and information for the use of non-parametric measures

- What cant you see or what dont you know?



Risk Management: Pandemics

Ebola Crisis Page—Humanitarian Data Exchange



Value of Open Humanitarian Data

- 130 curated indicators that are comparable across countries for researchers, policy makers, and business needs
- User-contributed data by location, topic, and organization that lowers the cost of data collection and allows speedier « knowing » of ground-truth

What needs to be done to support open data solutions in Africa?

Government Role



- Enact policies that enable access to data and information
- Provide framework and backbone for investments in technology, data collection and analysis
- Publish policies, budgets and outcomes and engage in dialogue

Citizen Role



- Contribute to providing data on services
- Engage in commenting on policies, budgets, and outcomes
- Use data for effective decision-making on consumption, services, and political engagement