

Domination or Dependence for data collaboration in Africa

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Background: Evolution of Ethical considerations

- Science is not only created using data: Rational purity vs opinions!
- Open data: What is open and for Who?
- Aspirations: Hidden agendas, contentious intent and objectives
- Confusing, fragmented landscape, tools, methods, truncated
- Data disparity between Global North and South: The power relationships
- Lack of feedback mechanisms between data providers and users
- Complex environmental issues through Transdisciplinary data



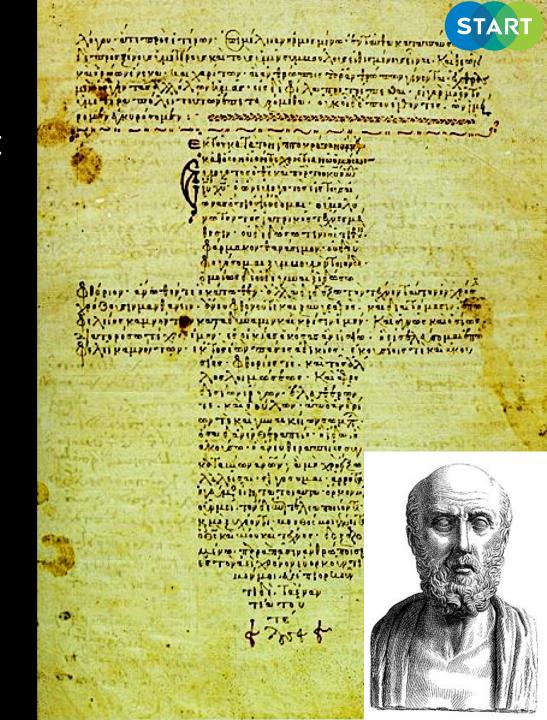


Hippocratic Oath (IV Century Before JC)

"I swear upon a number of healing gods that he will uphold a number of professional ethical standards.

I swear by Apollo, the healer, Asclepius, Hygieia, and Panaceae, and I take to witness all the gods, all the goddesses, to keep according to my ability and my judgment:

- Never do harm to anyone
- -Not give a lethal drug to anyone if I am asked,
- -will preserve the purity of my life and my arts"



Where data ties with ethics



Legal-administrative sphere:

Which rules count? Which kinds of regulations are appropriate?

Technological sphere:

What can we do about/it?

Political sphere:

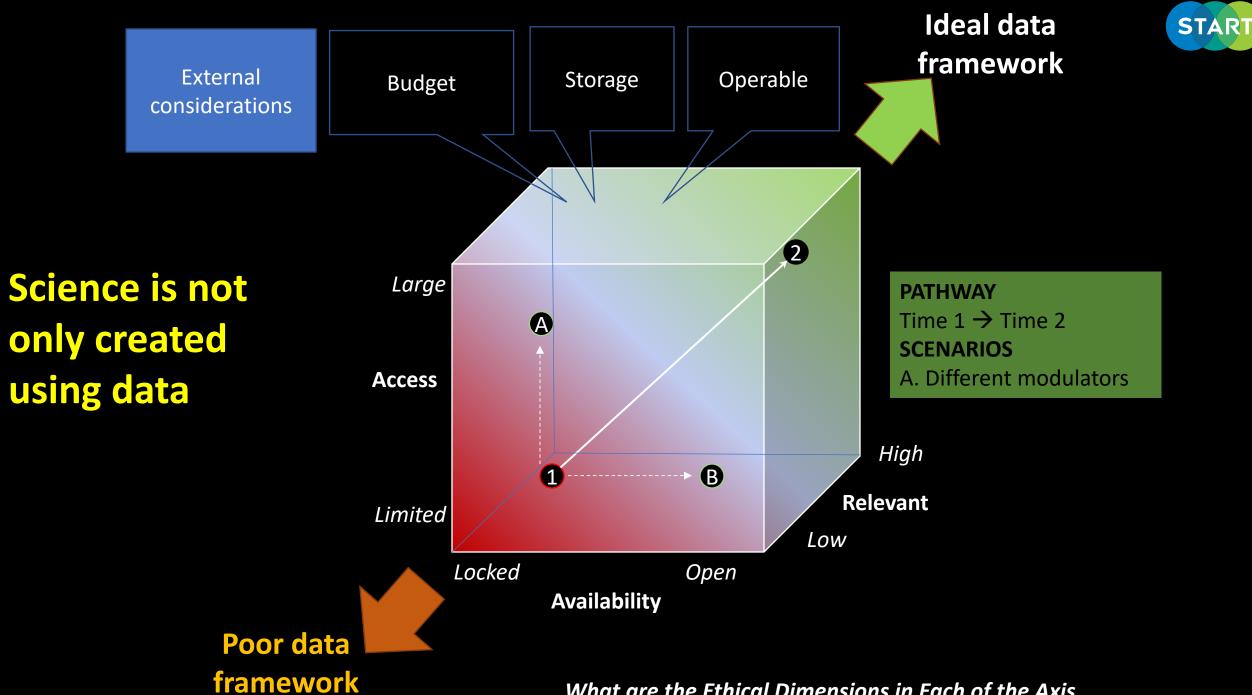
Who decides? Which interests are involved?

Natural science sphere:

What is going on? Which measures and indicators are useful

Ethical-cultural sphere:

Is this a problem?
Why? Is it of
cultural significance?
What place in human history?



What are the Ethical Dimensions in Each of the Axis

What data matters?



Integration (not fragmentation)

Process of monitoring /quality assurance

Relevance, salience, legitimacy etc.

Research application

Negotiating among various priorities and values

Research impact on actors



A Big Continent with a Lot of Resources

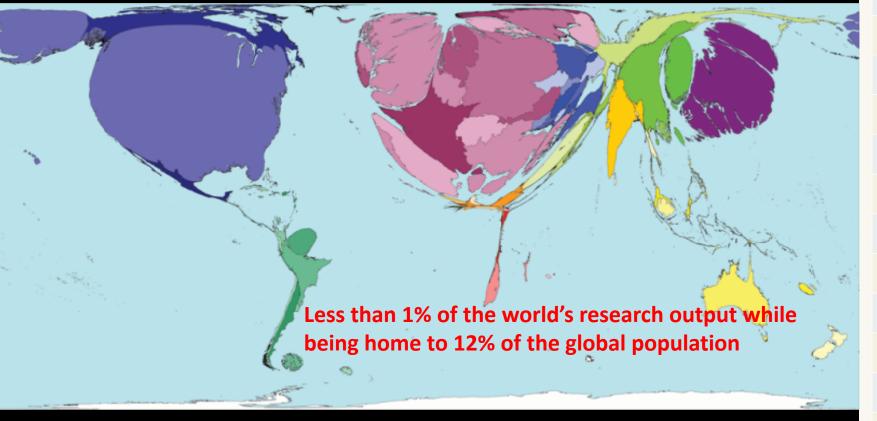
But Who is telling us the region's stories?



Normative science vs domestic knowledge



- Addressing common problems through transdisciplinary research
- Europe and USA dominates the Science in Africa!



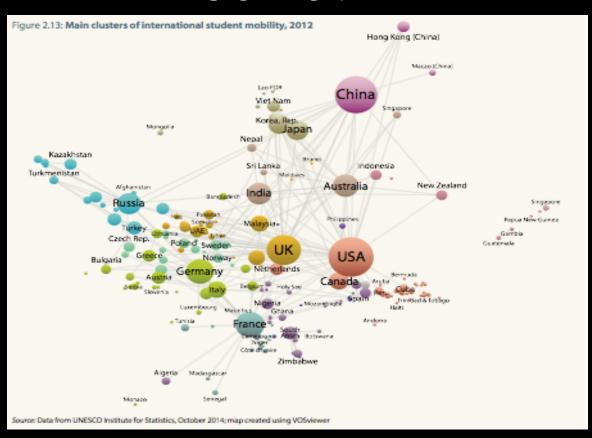
ain foreign partners 008–2014 (# papers)	1st collaborator
Benin	France (529)
Burkina Faso	France (676)
Cabo Verde	Portugal (42)
Côte d'Ivoire	France (610)
Gambia	UK (473)
Ghana	USA (830)
Guinea	France (71)
Guinea-Bissau	Denmark (112)
Liberia	USA (36)
Mali	USA (358)
Niger	France (238)
Nigeria	USA (1309)
Senegal	France (1009)
Sierra Leone	USA (87)
Togo	France (146)

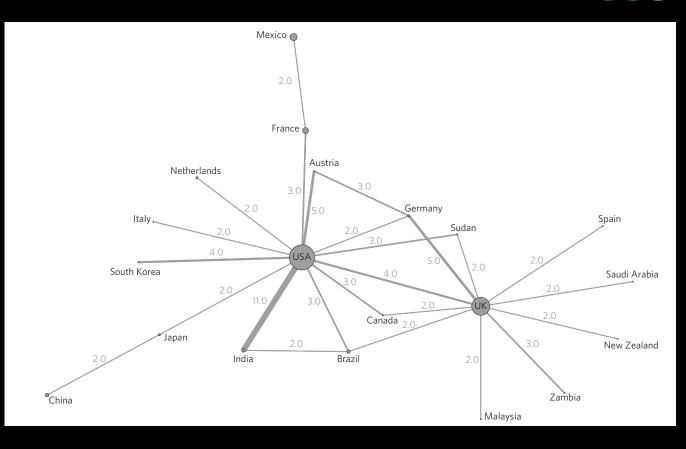
Source: Thomson Reuters' Web of Science, Science Citation Index Expanded, 2014

The value of affiliation

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- A global Family or a global competition?
- Developing soft power through data
- Asymmetrical power relationship largely related to <u>funding</u> disparities (Command control vs Engage-align)





Abstracts supposedly originating from leading US and German universities scored higher than identical ones attributed to top universities in Ethiopia and Malawi (M. Harris et al. Health Aff. 36, 1997–2004; 2017)

Context specific data and power relationships



- Data & knowledge means power, and thus that the struggle to have data is an inherently political one.
- Engaging users to identify what data they need to act (Legitimacy and salience/relevance)
- Mobilizing various epistemic groups-not just scientists- to produce that knowledge, in ways that...
 - Integrate knowledge of practitioners, outside experts
 - Assure access by all to the fruits of such knowledge mobilization



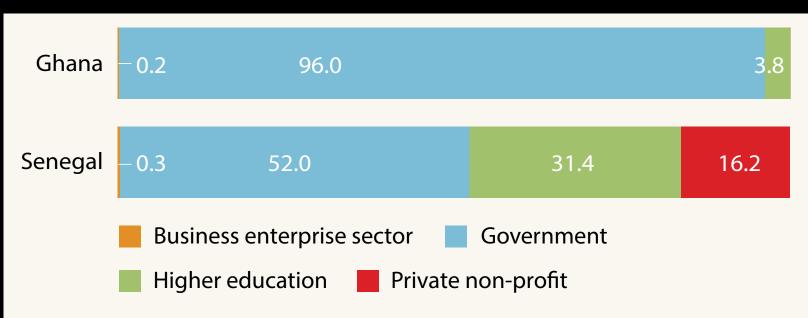


Opportunities Prioritization

- Double equation
 - Where the money comes from?
 - Where the money is invested?







Note: Complete data for each sector are unavailable for other West African countries.

Source: UNESCO Institute for Statistics, January 2015







Economic Stakes entails Legal implications

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Managing the tension between:

confidentiality and transparency

Discovery



Innovation

Transformation









Jérôme Béranger

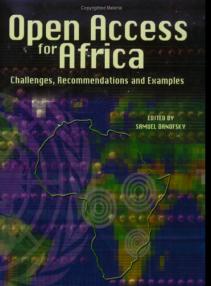
The Medical Datasphere





35% of African population has access to internet









Data fatigue

Are we producing data we use Who takes credit of the data collected in Africa

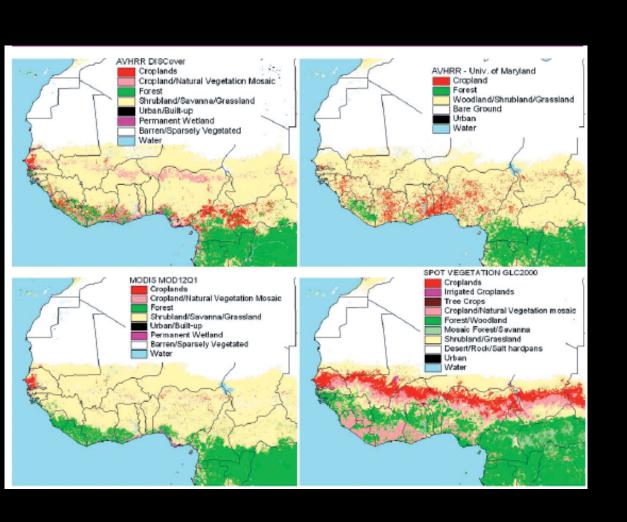


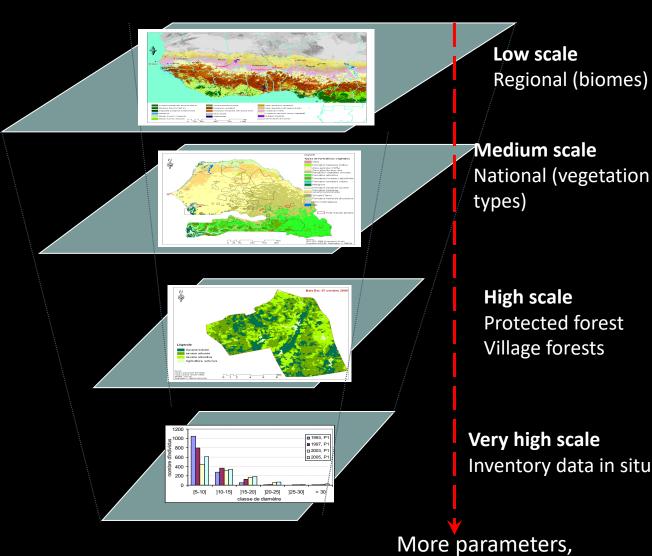


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Dieversity of products: Products and scales







Higher complexity

Data Governance: Scaling up information

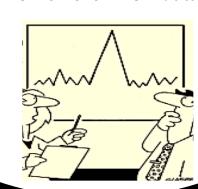


Knowledge transfer platform



Curation of data

Audit/Screening of Demand driven data



Research Centers

Data Governance

Data by sector vs integrated data



Application, scaling up, partners





All Actors / **Partners Lessons learnt**



Data Package

The value chain of data has many missing links in AFRICA



RESILIENCE &PREPAREDNESS

START

Building Resilience Through Data

https://www.prepdata.org/

PREP — both through the Partnership and its PREPdata platform — helps visualize and customize data, improves access to datasets, and supports the climate resilience ecosystem.

PREP Membership Today

Coordination & Core Partners WORLD RESOURCES INSTITUTE United States Global Change Research Program Public Sector Partners NASA SONOMA COUNTY Climate Resilience Team

EARTH OBSERVATIONS







Ninad Bondre



- At times, the role of the local researchers is reduced to that of a tourist guide: they help negotiate and open up the physical and cultural terrain rather than conceive of projects or contribute equally.
- These local researchers, too, accept this role, perhaps because the resources/facilities at their disposal don't always allow them to rectify the imbalances of privilege. For them, thus, the choice is between being the last author on a paper versus not being an author at all.
- There are many good recommendations, hopefully some of them will be implemented with unrelenting diligence!