Data Justice and the Next One Billion

Richard Heeks

“Data Science for Connecting the Next One Billion” Turing Workshop
Datafication of Development

1. No Poverty
2. Zero Hunger
3. Good Health and Well-being
4. Quality Education
5. Gender Equality
6. Clean Water and Sanitation
7. Affordable and Clean Energy
8. Decent Work and Economic Growth
9. Industry, Innovation and Infrastructure
10. Reduced Inequalities
11. Sustainable Cities and Communities
12. Responsible Consumption and Production
13. Climate Action
14. Life Below Water
15. Life on Land
16. Peace, Justice and Strong Institutions
17. Partnerships for the Goals

The Value of Data for Development

Knowledge

Data - Source - Capture

Information - Process - Output

Decisions

Actions

Results

Upstream  Midstream  Downstream  Instrumental

Learning

- Faster
- Cheaper
- More
- Better
- New

Source: https://www.tandfonline.com/doi/full/10.1080/1369118X.2019.1599039
Data Justice

“The specification and pursuit of ethical standards for data-related resources, processes and structures”

http://bit.ly/DatJus1
Procedural Data Justice

Instrumental Data Justice

Sources: http://www.educationviews.org/why-orwell-is-superior-to-huxley/
Rights-Based Data Justice

Sources: https://www.independent.co.uk/life-style/gadgets-and-tech/on-the-savanna-mobile-phones-haven-t-transformed-maasai-lives-yet-a7828371.html
Distributive Data Justice

Sources: https://fabiusmaximus.com/2012/10/02/barlett-steele-income-inequality-america-43704/
Structural Data Justice

Sources: https://en.wikipedia.org/wiki/Pyramid_of_Capitalist_System
Data Justice Analytical Framework

Context

Institutional Control

Structural Relations

Resource Control

Utility

Data System

Practice: Information Value Chain

Results

Data Rights

Data Justiceification

Institutional Control

Resource Control

Epistemic Control

Utility

Data Justiceification

Context

DISTRIBUTIVE DATA JUSTICE

STRUCTURAL DATA JUSTICE

PROCEDURAL DATA JUSTICE

RIGHTS-BASED DATA JUSTICE

INSTRUMENTAL DATA JUSTICE

Sources: https://www.tandfonline.com/doi/full/10.1080/1369118X.2019.1599039
Data Justice Manifesto

DATA JUSTICE FOR DEVELOPMENT

A MANIFESTO

1. Demand just and legal uses of development data.
2. Demand data consent of citizens that is truly informed.
3. Build upstream and downstream data-related capabilities among those who lack them in developing countries.
4. Promote rights of data access, data privacy, data ownership and data representation.
5. Promote data system outcomes that address international development goals and priorities; including the goals and priorities of data subjects.
6. Support “small data” uses by individuals and communities in developing countries.
7. Advocate sustainable use of data and data systems.
8. Support social movements of “data subalterns” in the Global South.
9. Stimulate an alternative discourse around data-intensive development that places issues of justice at its heart.
10. Develop new organisational forms such as data-intensive development cooperatives.
11. Lobby for new data justice-based laws and policies in developing countries (including action on data monopolies).
12. Open up, challenge and provide alternatives to the data-related technical structures (code, algorithms, standards, etc) that increasingly control international development.

Professor Richard Heeks, A Structural Model and Manifesto for Data Justice for International Development. Read more at bit.ly/DataJustice
Data Justice: Further Reading

Datafication, development and marginalised urban communities: an applied data justice framework
Richard Heeks and Satyarupa Shekhar


https://www.gdi.manchester.ac.uk/research/publications/di/