

DS-I Africa

Data Science for Health Discovery and Innovation in Africa

The Data Science for Health Discovery and Innovation in Africa (DS-I Africa) Initiative aims to leverage data science technologies to transform biomedical and behavioral research and develop solutions that would lead to improved health for individuals and populations.

3

Annual consortium meetings



38

Total number of projects

4



ELSI research projects

7



Training projects

20



Research projects



350+

Consortium members

6



Research education projects

5



Crosscutting working groups

22



African countries collaborating



12

NIH funding institutes, centers, and offices

100

Steering Committee members



106



Travel awards

1

Open data science platform and coordinating center



\$888 million

Funding for 5 years

Program Goals



Create a pan continental network with broad academic, public, private and industry partnerships.



Establish recognized regional and continental DS Centres of Excellence.



Demonstration of the feasibility of advanced DS to improve health in Africa



Advances in policy surrounding ethical issues



Facilitate resource access to the global scientific community. Resources may include medical image repositories to be used as a basis for machine learning.



Enhance Data Science capacity through training toward developing a new generation of interdisciplinary African Data Scientists..



Enable new interdisciplinary collaborations and new scientific knowledge.



Develop new data collection and analytic systems, applications, and tools with attention to usages that are population-relevant, affordable, acceptable, and scalable.

Research hub

- Focus on a critical health research problem
- Bring together multi-disciplinary expertise
- Engage partners from government and private sector

ELSI projects

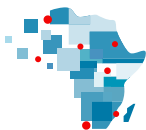
- Research studies that address the spectrum of policy, security, and cultural barriers to data science and innovation in Africa
- Engage with coordinating center and hubs to advise on new policies and implement research findings

Training projects

- Develop and implement new MS and PhD curricula
- Strengthen faculty
- Train next gen data scientists

Open Data Science Platform & Coordinating Centre

- Scientific Function
- Facilitate data and tool sharing
- Develop portals
- Lead trans-network projects
- Lead curriculum harmonization
- Develop/Deliver short eCourses
- Administrative Function
- Facilitate WGs and network meetings
- Network Website Communications



DS-I Africa

Data Science for Health Discovery and Innovation in Africa



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National Institutes of Health