

Big Data for Development

The Capacity Building Pillar

*5th International Conference on Big Data for
Official Statistics, NISR*

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AIMS-NEI Ecosystem of Transformation

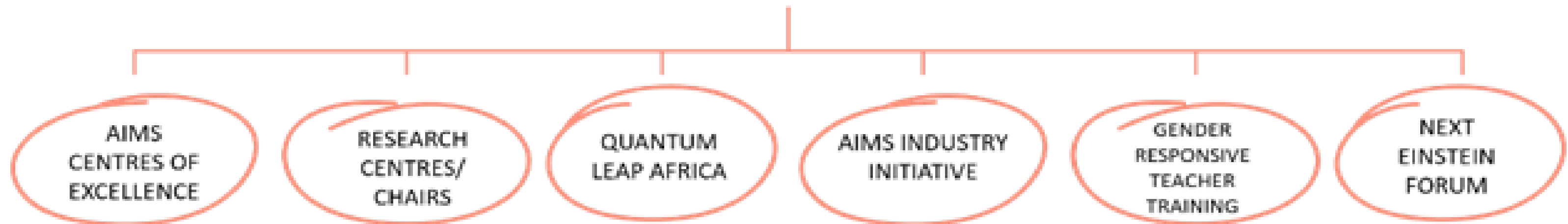
Socio-Economic Transformation of Africa

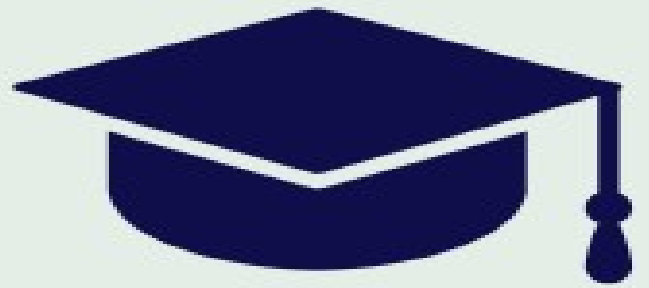
Innovative scientific
training (Human
Capital Development)

Technical advances
and breakthrough
discoveries



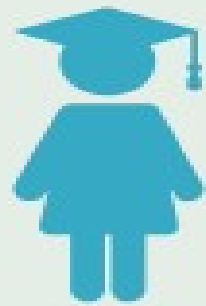
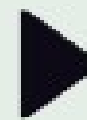
Strategic Foresight
& Innovative Policy
Design





1,760

SINCE ITS ESTABLISHMENT
IN 2003



32%

ARE WOMEN

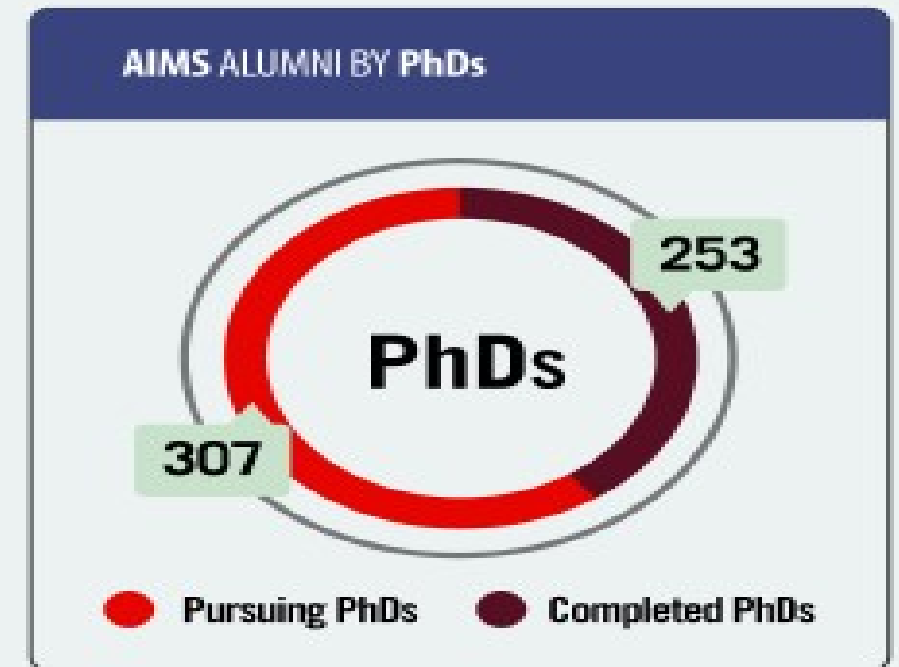
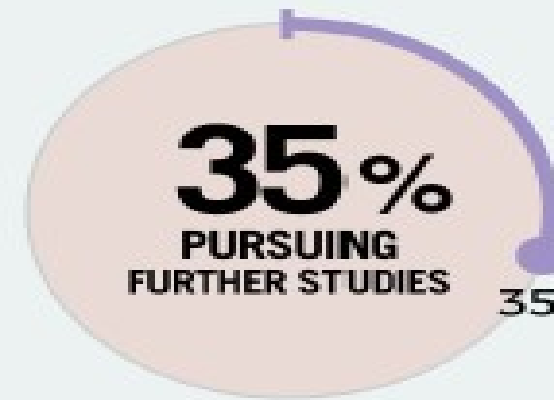
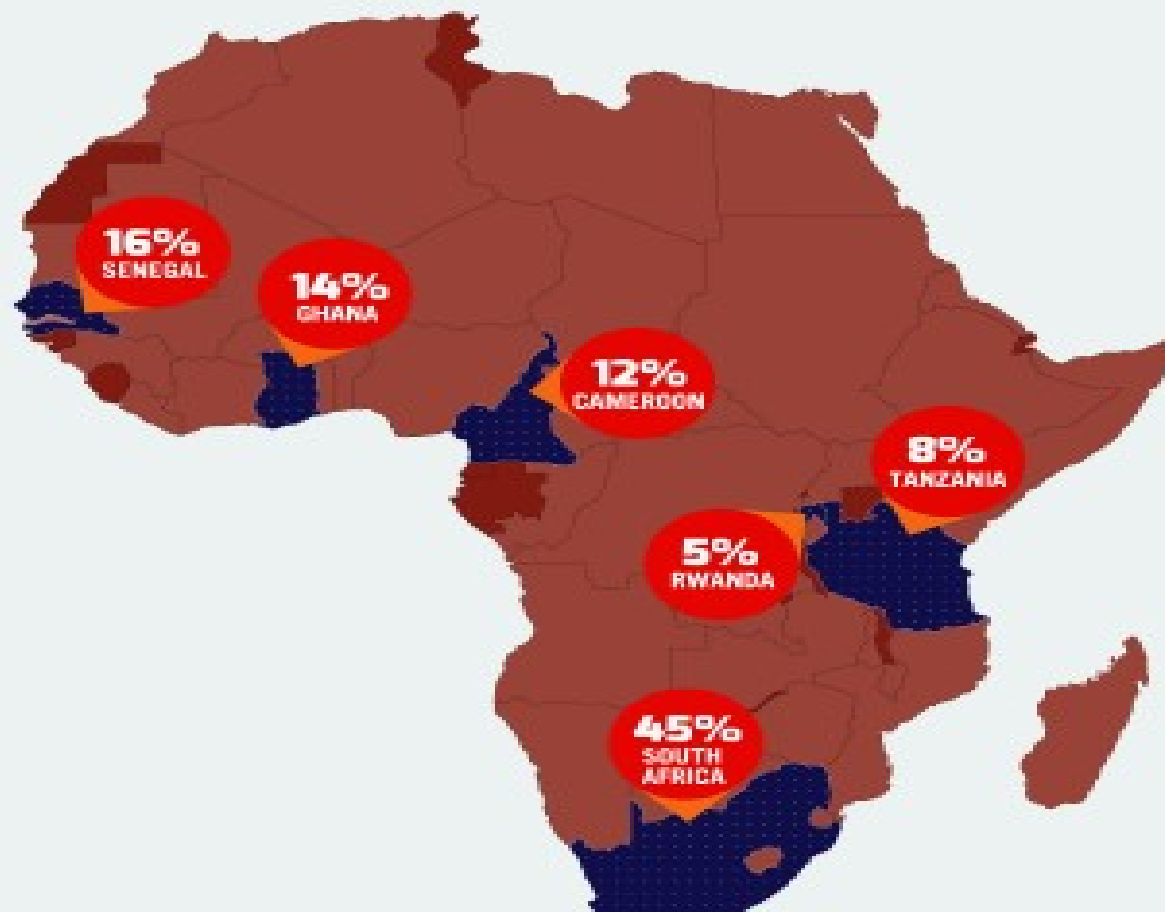


Over 70%

Alumni remain
on continent

AIMS ALUMNI BY CENTERS

ALUMNI FROM **43** COUNTRIES



49%

OF ALUMNI ARE
WORKING IN THESE
TEN FIELDS





BIG DATA

FOR DEVELOPMENT

Network

LATAM

**SUB-SAHARAN
AFRICA**

ASIA

Capacity building among partners

With the support of



**DATA FOR
PUBLIC POLICY**

**BEYOND
GDP**

**EARLY
ALARMS**

**DEVELOPMENT
OPPORTUNITIES**



Policies based on data in real time

Measure multidimensional indicators

Define trends based on the use of digital tools for disaster prevention and response

Generate data and local innovation



WHY A BIG DATA NETWORK?

1

Innovations and techniques on Big Data analysis for sustainable development need to be fostered in the **Global South**

2

Research on Big Data still has dimensions to be addressed collectively

3

The **Global South** needs to be more involved in the discussions of the **policy agenda on Big Data**

THE OBJECTIVES

Prioritize **gender** as a focus of **Big Data** research

Engage the private sector and **policy markets** in collaborative initiatives

Inform and influence relevant **national, regional and global** policy processes

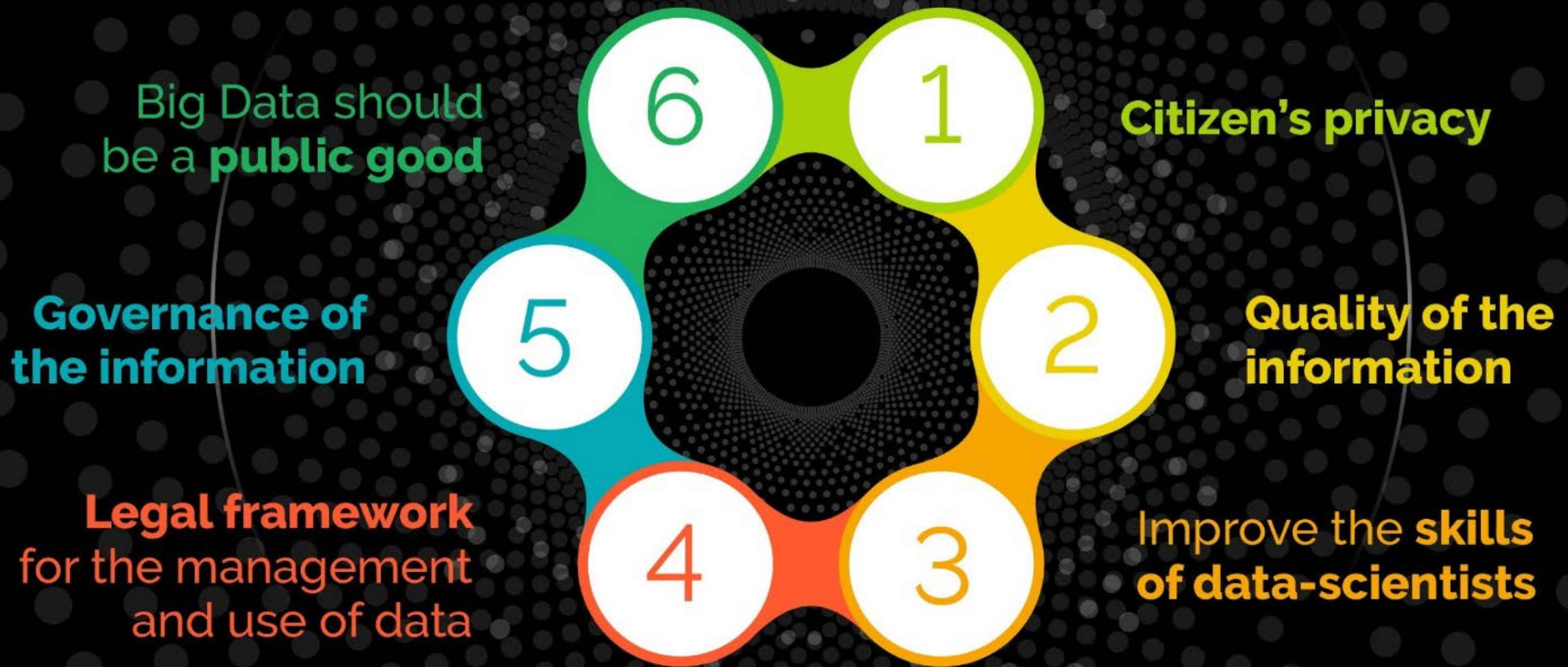


Apply **Big Data** techniques for development problems

Facilitate a holistic approach for the **governance of Big Data**

Develop the **capacity** of Southern actors to use **Big Data for development** and to address data governance issues

THE CHALLENGES



ACTIVITIES - SUB-SAHARAN AFRICA HUB (AIMS & LDRI)



Capacity Development

Training on Big Data
Infrastructure for Big Data analytics

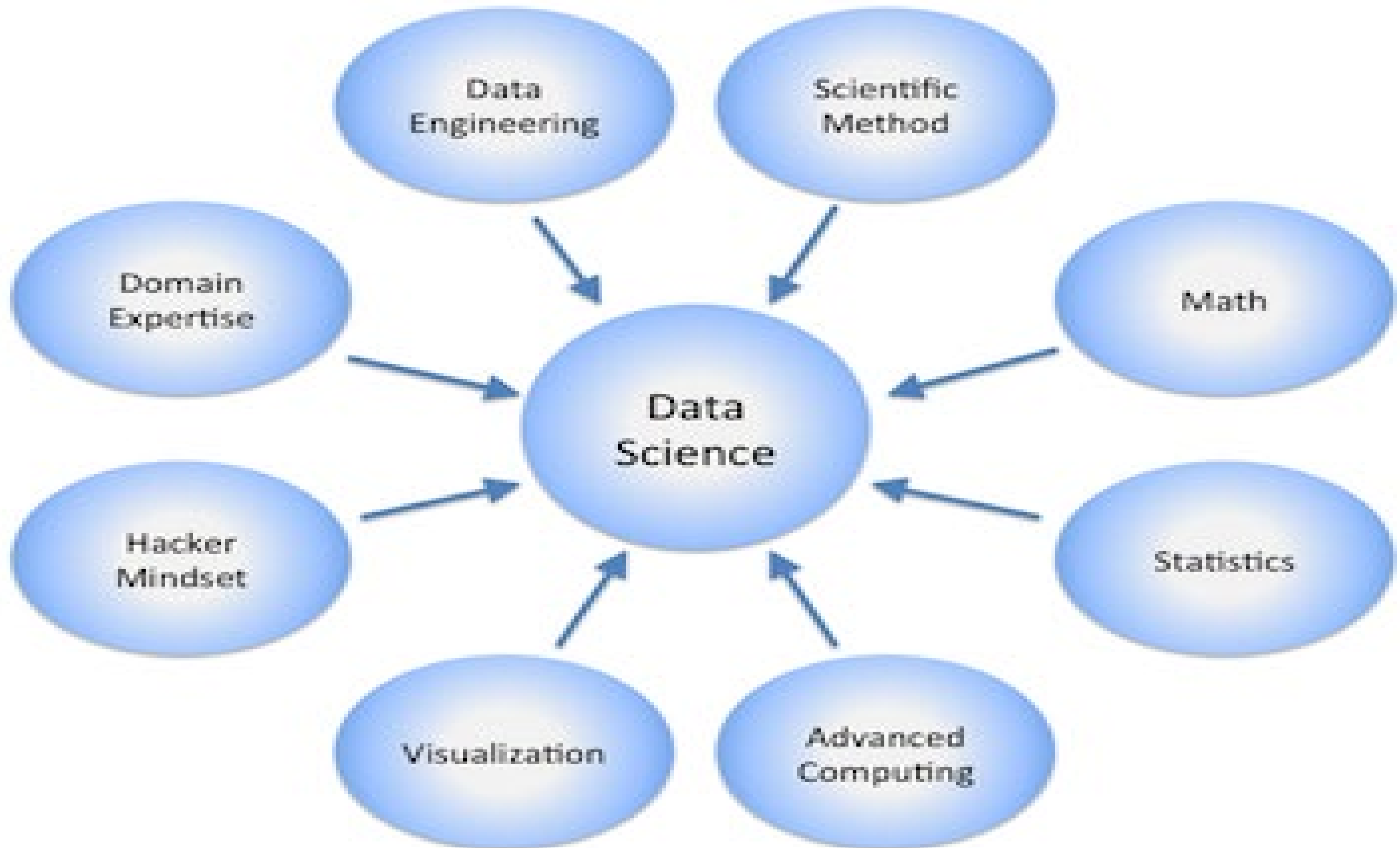
Supporting Policy & Innovation for Development

Development seminar series
Development challenge
Development session
Study on the state of Big Data for Development in Africa

Supporting On-going Research Initiatives

Organize workshops that aim to share the best practices

Data Science Ecosystem



Big Data for Development Short Course Program

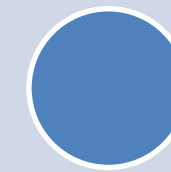
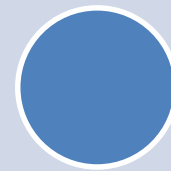
(a) 11-15 March 2019, Rwanda 

(b) July 2019, Senegal

June – July 2019, Rwanda

TBC

(c) September 2019, Cameroon



Big Data Analytics
with Python

Leveraging the Power
of Big Data - Executive
Education

Big Data training for
Policy Makers

Big Data Analytics with Python – Application Stats

Applications Received

Total number: 268

Females: 23.2% , Males: 76.8%

Nationality:

Rwandans: 62.5%

Kenyans: 7%

Cameroonians: 4.5%

Country of Residence:

Rwanda: 57.7%

Qualification:

MSc: 56.6%

BSc: 36.3%

Ph.D. 5%

Institutions: 102

Selected Candidates

Total number: 48

(18% of applications)

Females: 46%

Males: 54%

Qualification

MSc: 71%

BSc: 25%

Ph.D.: 2%

Institutions: 31

(30.4% of institutions)

Business Sectors

1. Agriculture
2. Development & Humanitarian
3. Education
4. Energy
5. Finance
6. Geographic Information System
7. Health
8. ICT
9. Insurance
10. Meteorology
11. Statistics
12. Tax Administration
13. Telecommunication

Big Data Analytics With Python



COLLABORATE WITH THE NETWORK



Engage

Data scientists, visualizers, communicators, journalist and development experts of different areas can donate their time to participate in the analysis and visualization of data.



Provide data

We invite private companies, public institutions and other organizations to donate their Big Data sets to contribute for better decision making on the sustainable development.



Finance

Finance specific activities such as visualizations, mapping of data ecosystems, etc. to expand the project.

BD4D-ICP AfDB's High-Fives

1

- ***Light up and power Africa:*** universal access to electricity

2

- ***Feed Africa:*** agricultural transformation in order to make Africa a net food exporter

3

- ***Integrate Africa:*** regional integration

4

- ***Industrialize Africa:*** industrialization and economic diversification

5

- ***Improve the quality of life for the people of Africa:*** access to social and economic opportunities to all.



BIGDATA **FOR DEVELOPMENT**

Network

#BD4DGLOBALSOUTH

WWW.BD4D.NET



AIMS

African Institute for
Mathematical Sciences
NEXT EINSTEIN INITIATIVE

