



| **Foundation**

First steps:

Supporting science in sub-Saharan Africa

Karl Collins

Health Economics and Pharmacoeconomics
Opportunities for German - African Cooperation
30-31 October 2021

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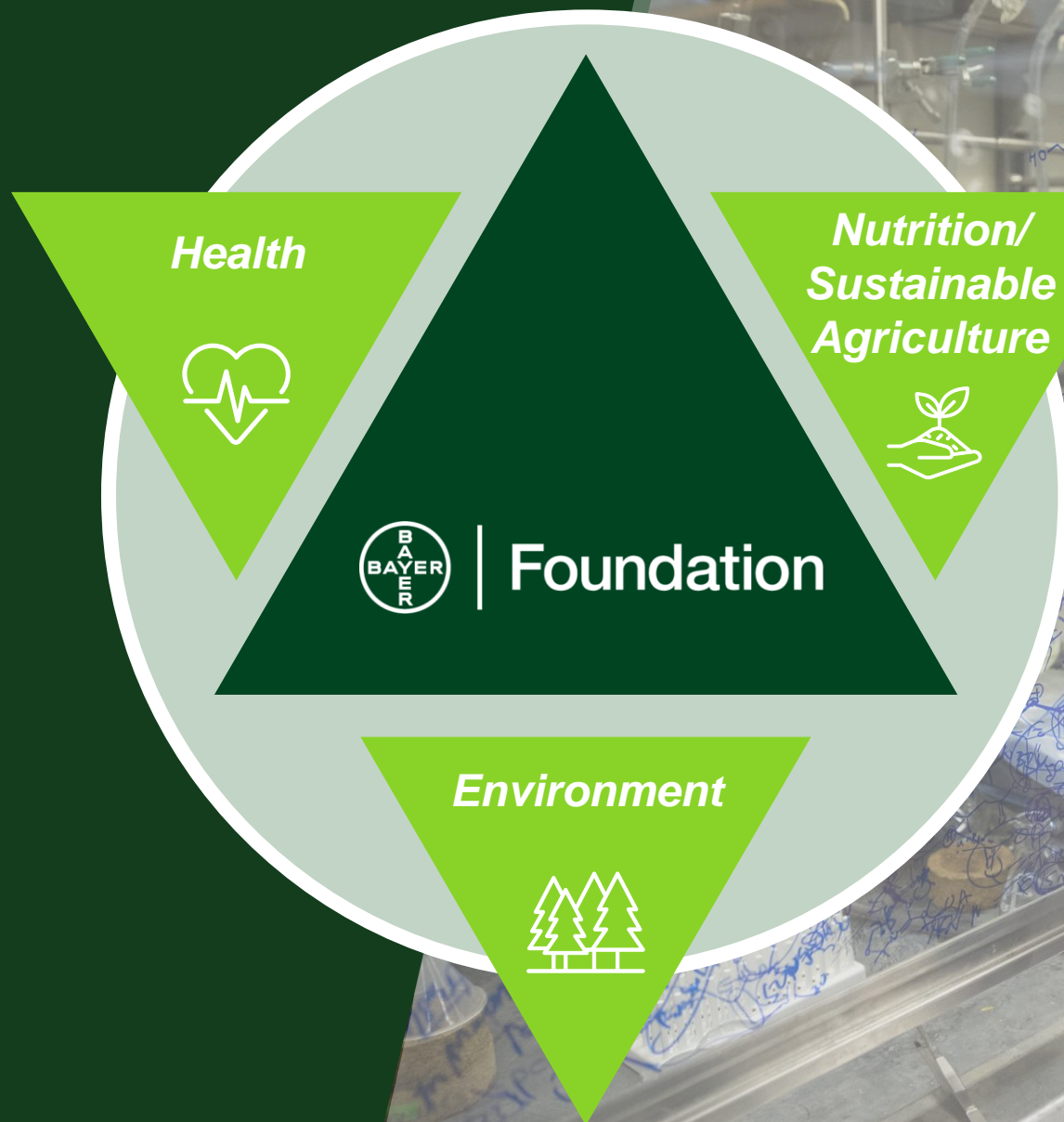


Our
Vision...

*“Catalyze advances in
Science and Social
Innovation for a world with
**Health for All and
Hunger for None**”*



| Foundation





Foundation

Two pillars

Working towards our vision



Science

*Enhance the impact of
science as the basis of
societal progress...*



Social Innovation

*...and empower social
innovators as enablers of
long-lasting change.*

Empower women as key change makers

Enhancing the impact of science as the basis for societal progress

“Health for All, Hunger for None”

1

Equality in science is essential to address the needs of a global population. Everyone needs a seat at the table.

2

Collaboration in science and interdisciplinary research is essential to develop innovative solutions needed to address societal challenges in health and nutrition.

3

Societal trust in science and technology is critical for effective implementation and acceptance of these innovative solutions.



Alexander von Humboldt
Stiftung/Foundation

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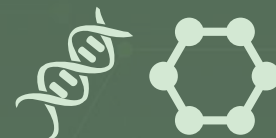
Build scientific capacity across sub-Saharan Africa



Enabling scientists to define and address
regional challenges



PhD fellowships in
biodiversity and sustainable agriculture



Postdoc fellowships in
the life sciences focus on regional development



1 Research Hub
addressing pandemics and their effects

3 million € **6** years

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Research Hubs in sub-Saharan Africa

Center for Emerging and Re-emerging Infectious Disease (Molecular Biology Hub)

- Collaborative project
 - Prof. Velavan, University Hospital Tübingen
 - Prof. Osman, University of Khartoum
- Sustainable Impact
 - 3 Postdocs; 5 PhD students in Nigeria/ Sudan
 - Workshops, trainings & conferences
 - Establish biobank in Nigeria & Sudan



Professor Dr Daniel Olusola Ojurongbe

Medical Microbiology,
Ladoke Akintola University of Technology, Nigeria

The role of Bayer Foundation

Beyond financial support



**Science
Network**

- 1) Amplify & enhance the visibility of the science and scientists involved in the research hub.
- 2) Provide opportunity to engage with Bayer R&D including opportunity for collaboration & expertise/consultancy
- 3) Develop our scientific network across Africa, providing opportunities for exchange, collaboration & networking



Foundation



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Research Hubs in sub-Saharan Africa

Additional hubs:

1) **Professor Dr Ezra Chitando**, Religious Studies, University of Zimbabwe

Fighting pandemics with religion? How female religious actors in Africa (can) contribute to ensuring healthy lives

2) **Professor Dr Romain Lucas Glèlè Kakai**, Statistics, Biometrics, University of Abomey-Calavi, Benin

Socio-Ecological modelling of COVID-19 dynamics in Africa (HRH-SEMCA)

3) **Professor Dr Simeon Fogue Kouam**, Organic Molecular Chemistry, Université de Yaoundé I, Cameroon

Center of Competence for the study of Antimicrobial NATural PROducts from Fungi (CECANAPROF)

4) **Professor Dr Francine Ntouni**, Medical Microbiology, Fondation Congolaise pour la Recherche Médicale, Republic Congo

Humboldt Research Hub COvid-19 in Central Africa (HRH-COCA): Systematic Evidence of the Viral Dynamics of SARS-CoV-2 and Effectiveness of Vaccination in Co-Infected Individuals

5) **Professor Dr James Olopade**, Veterinary Medicine, Neurosciences, University of Ibadan, Nigeria

Alexander von Humboldt Center of Excellence for Zoonotic Arbovirus Diseases (ACEZAD)

Press release: <https://www.humboldt-foundation.de/en/explore/newsroom/press-releases/humboldt-foundation-supports-six-new-research-hubs-in-africa>

Science Portfolio



Shaping the Future

Breakthrough Science,
STEM Education & Trust in Science

Enhance the Impact of Science

as a driver of societal progression



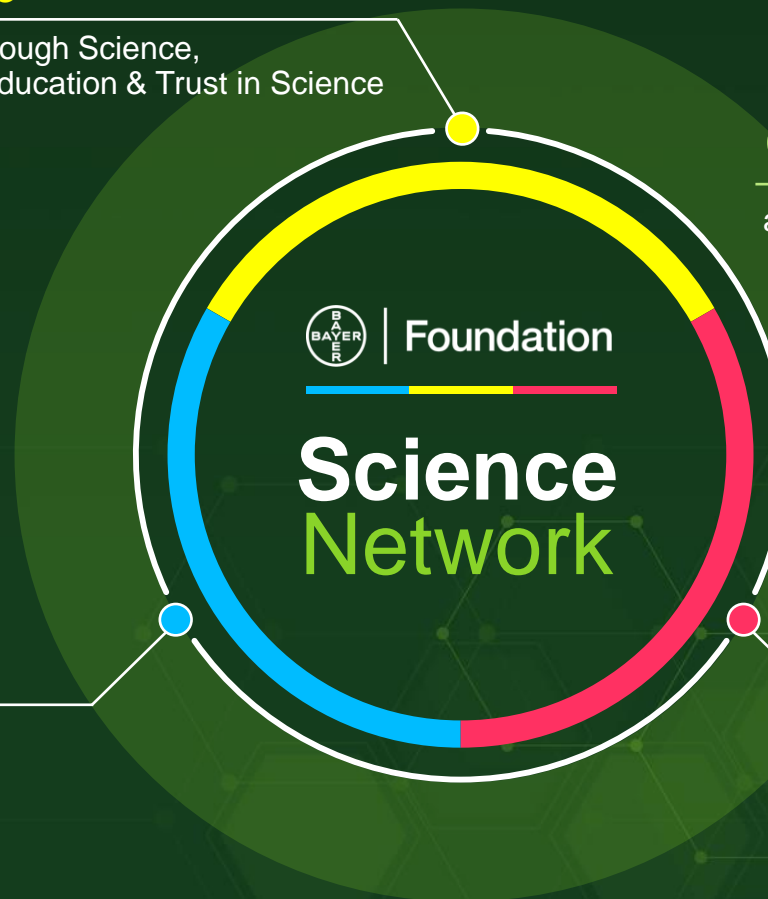
Remarkable Scientists

Awards, Fellowships,
Lectures



Empowering People

Equality & Capacity
Building



Bayer Foundation **Science Network**

Enhancing the impact of science as the basis for societal progress



**Science
Network**

Enhancing the impact of science...

**...by connecting boundary breaking
scientists around the world.**

**Academic
experts**

**Industry
researchers**

Physicians

**Early career
scientists**

Bayer Foundation Awards

Recognising outstanding scientists to **enhance the impact of science**



Otto Bayer Award
for the Life Sciences



Hansen Family Award
for Medical Research



Bayer Thrombosis Research Award



Early Excellence in Science Awards
Chemistry, Biology, Medicine & Data Science

Bayer Foundation International Scientific Fellowships

Identifying and nurturing the next generation of scientists

Foster **interdisciplinary collaborations** across borders
and
provide unique opportunities for **personal development**



for Drug Discovery



for Agricultural
Science



for Medical Sciences

For master and PhD students in natural science, data science,
pharmacy, medicine and related fields



Bayer Foundation Prize Winners Lecture Series

Engage and Inform the scientific community about cutting-edge research



MAR
24

Josep Cornella "Reagents, Ligands and Catalysts for Organic Synthesis"

Wed, Mar 24, 4:00 PM
Teams Live Event



APR
21

Ruth Ley "The human gut microbiome: ecology and evolution"

Wed, Apr 21, 3:00 PM
Teams Live Event



MAY
26

Marinka Zitnik - EESA Award for Data Science in the Life Sciences

Wed, May 26, 4:00 PM
Teams Live Event



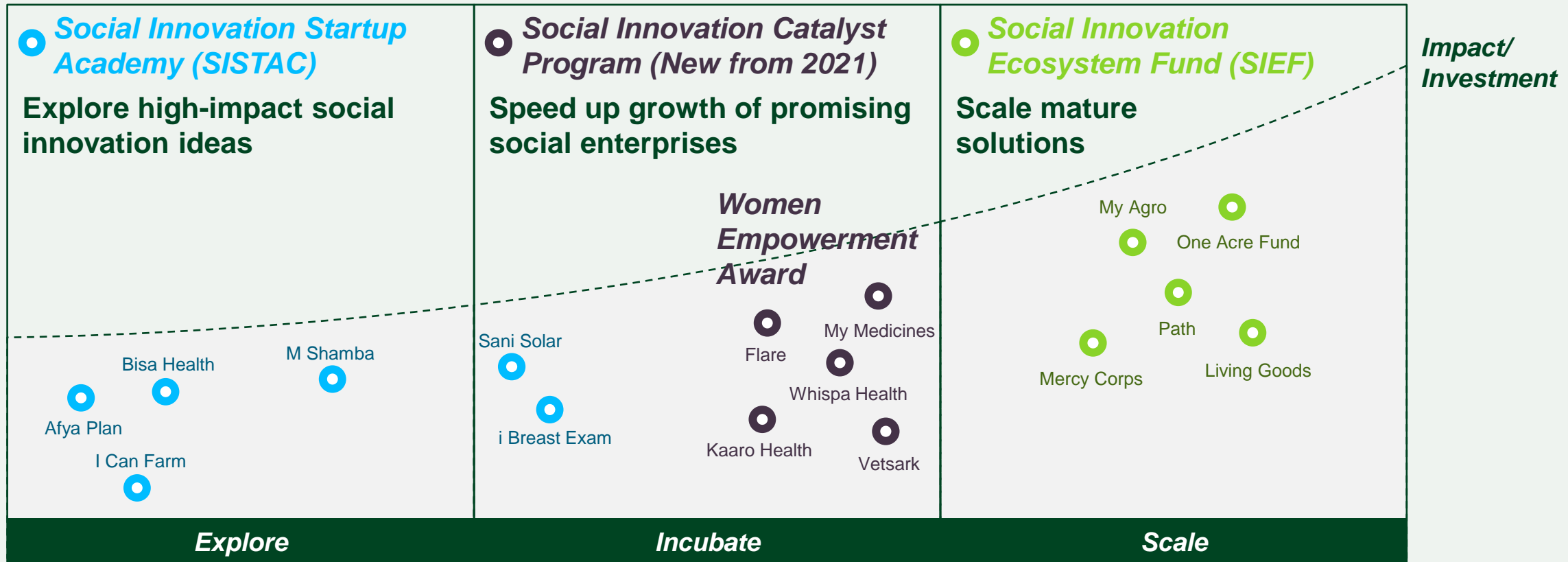
Enhance **visibility**
of innovative research.



Science
Network

Social Innovation Program Landscape

Bayer Foundation aims to build its social innovation program portfolio by empowering social innovators



Projects shown here are examples of our growing portfolio

New Market Creation





Foundation



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