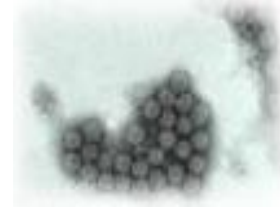
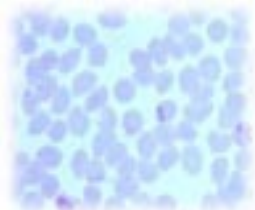
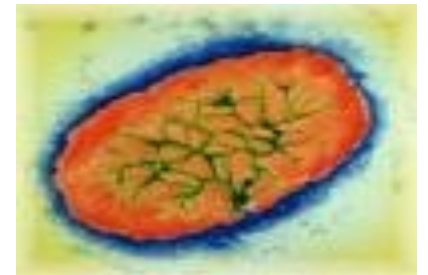
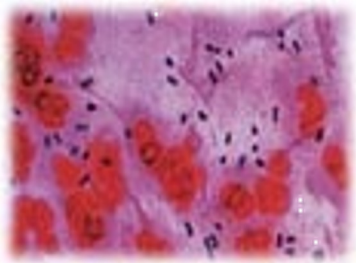




# Exploring ways to apply AI and opportunities for research collaborations

Informal Medicine Quality meeting  
Oxford 24 October 2024

Andrew Farlow  
University of Oxford

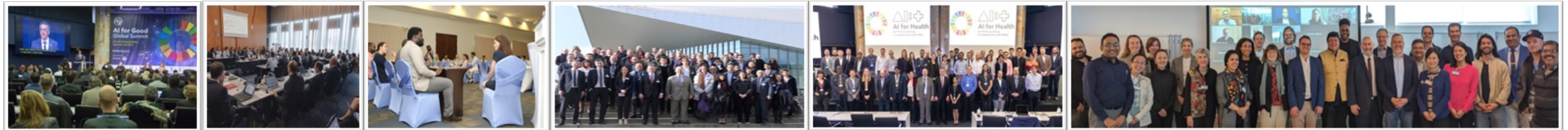
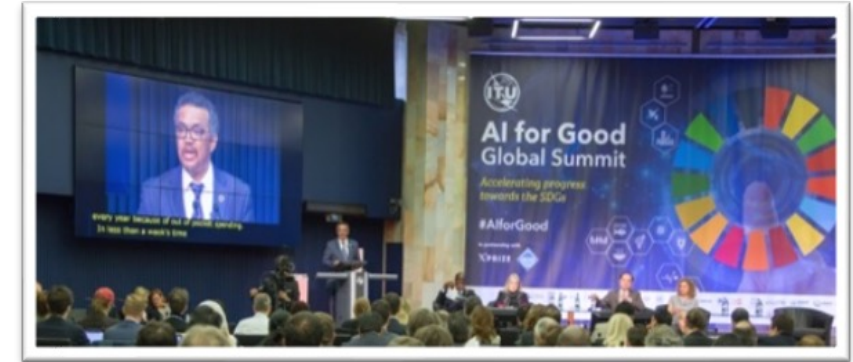


# WHO-ITU AI4Health focus group

## AI benchmarking for all

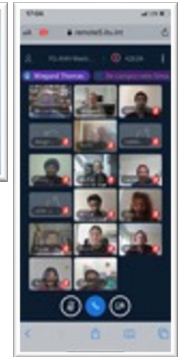


- Established in **2018** as a **joint focus group** between **ITU** and **WHO** and 100+ experts and researchers.
- Brought together specialists to develop a **benchmarking framework** for **international policies and standards**.



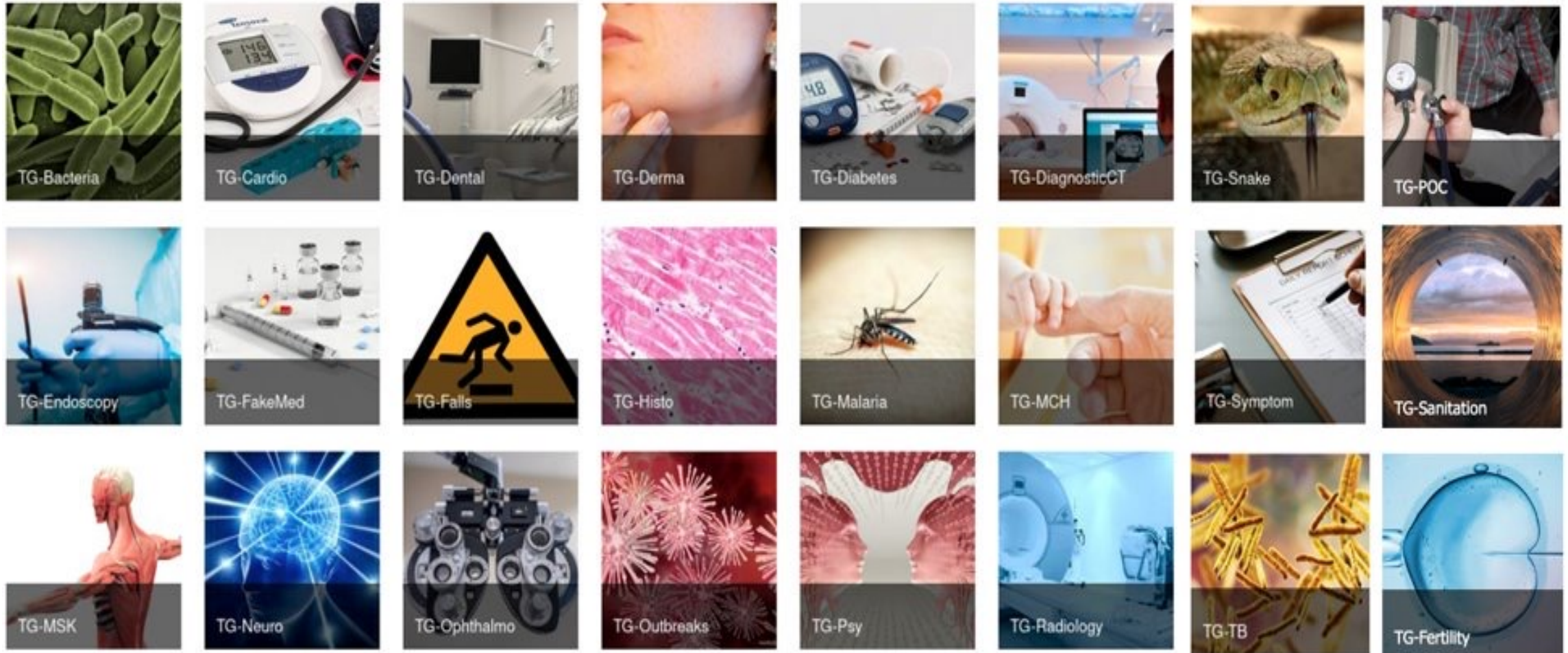
5/2018 AI for Good Geneva  
 11/2018 Columbia University NYC  
 4/2019 World Expo Shanghai  
 9/2019 UCSAF Zanzibar  
 1/2020 PAHO/WHO Brasilia  
 5/2020 Online  
 1/2021 Online  
 9/2021 Online  
 05/2022 Berlin  
 12/2022 Douala

10/2018 WHO HQ Geneva  
 1/2019 EPFL Lausanne  
 5/2019 AI for Good Geneva  
 11/2019 ICMR & NICF New Delhi  
 3/2020 AI in Singapore  
 9/2020 Online  
 5/2021 Online  
 2/2022 Online  
 9/2022 Helsinki  
 03/2023 Harvard/MIT

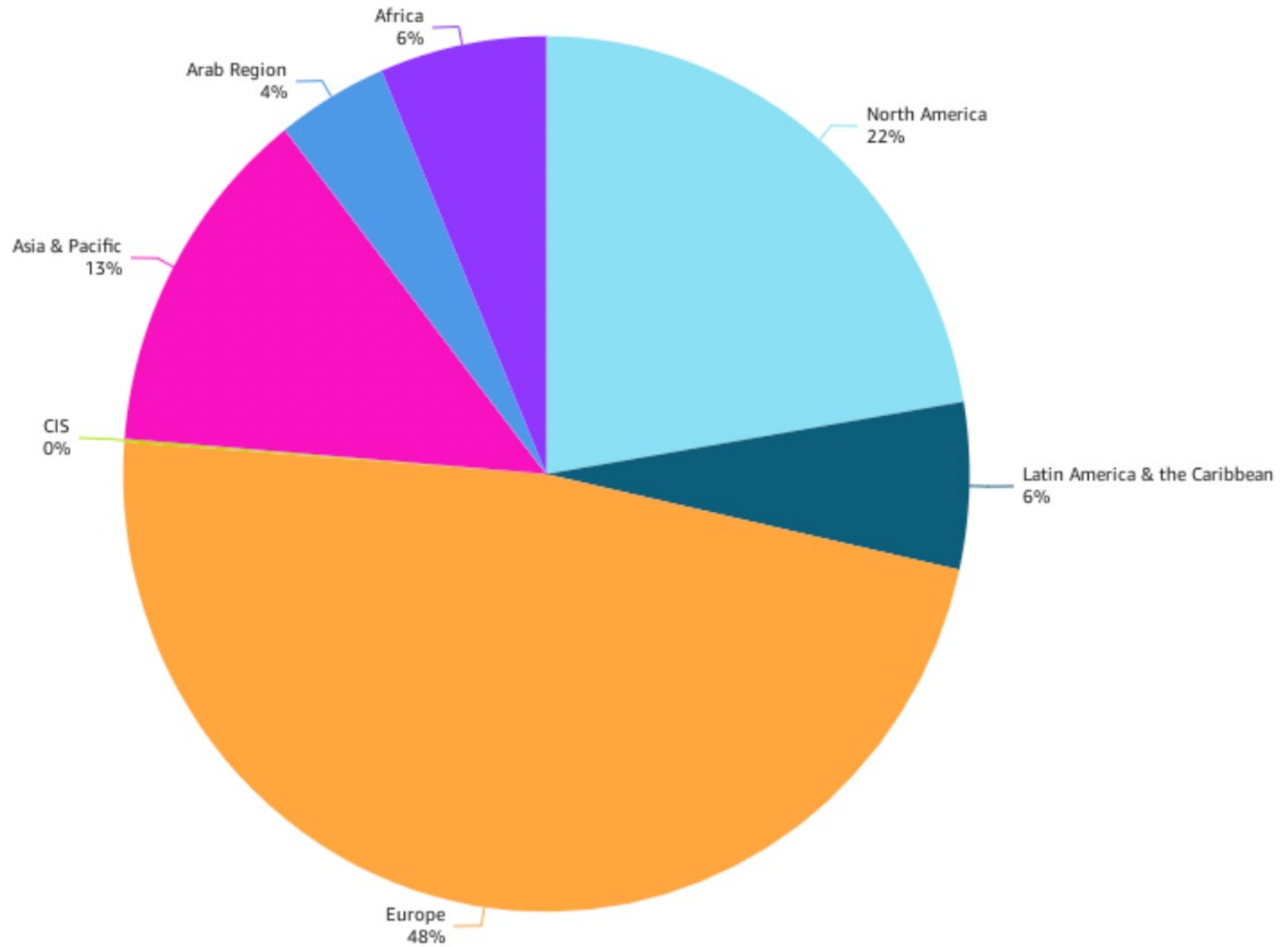




# TGs created benchmarking standards for AI-for-health

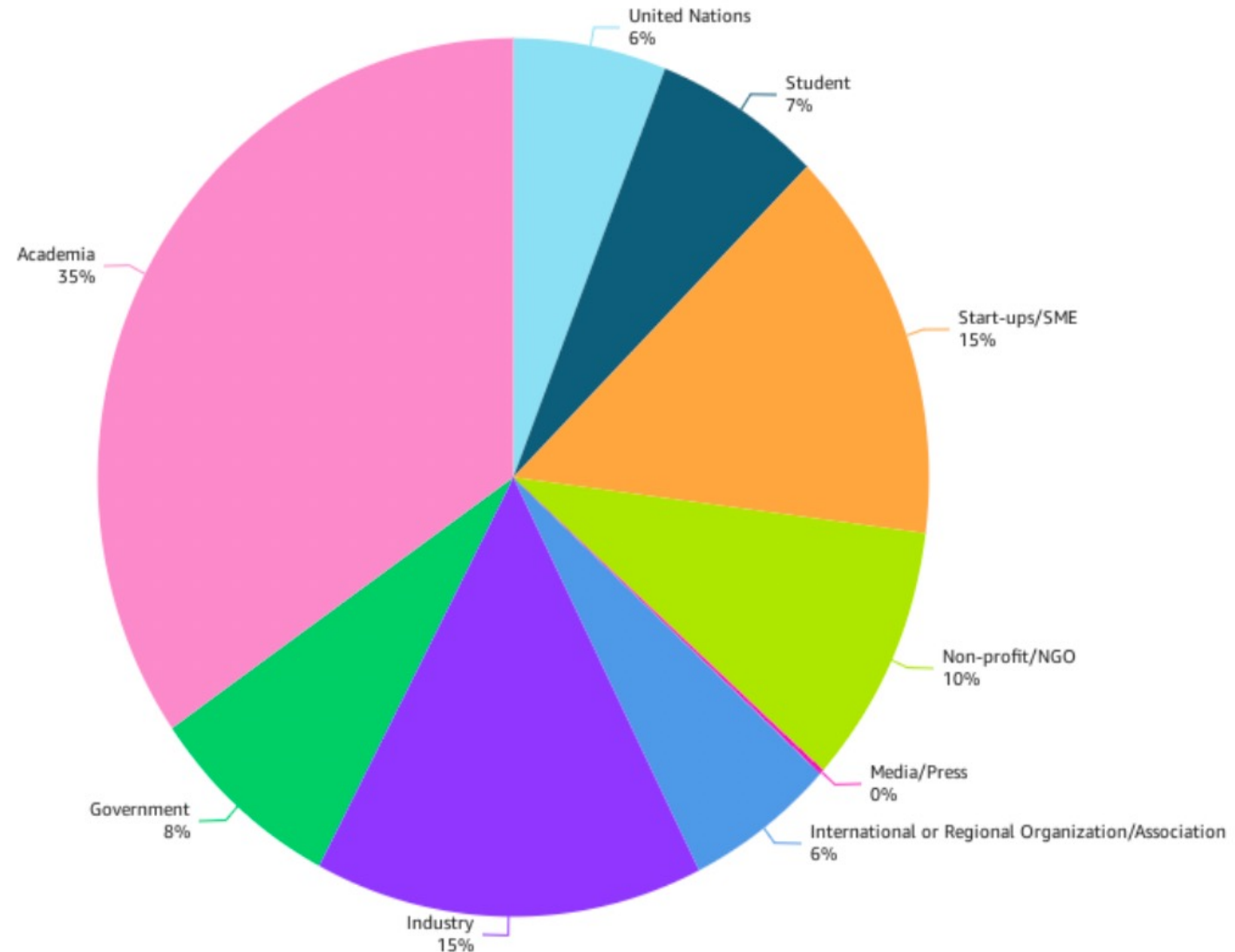


# BUT: Participants by region...

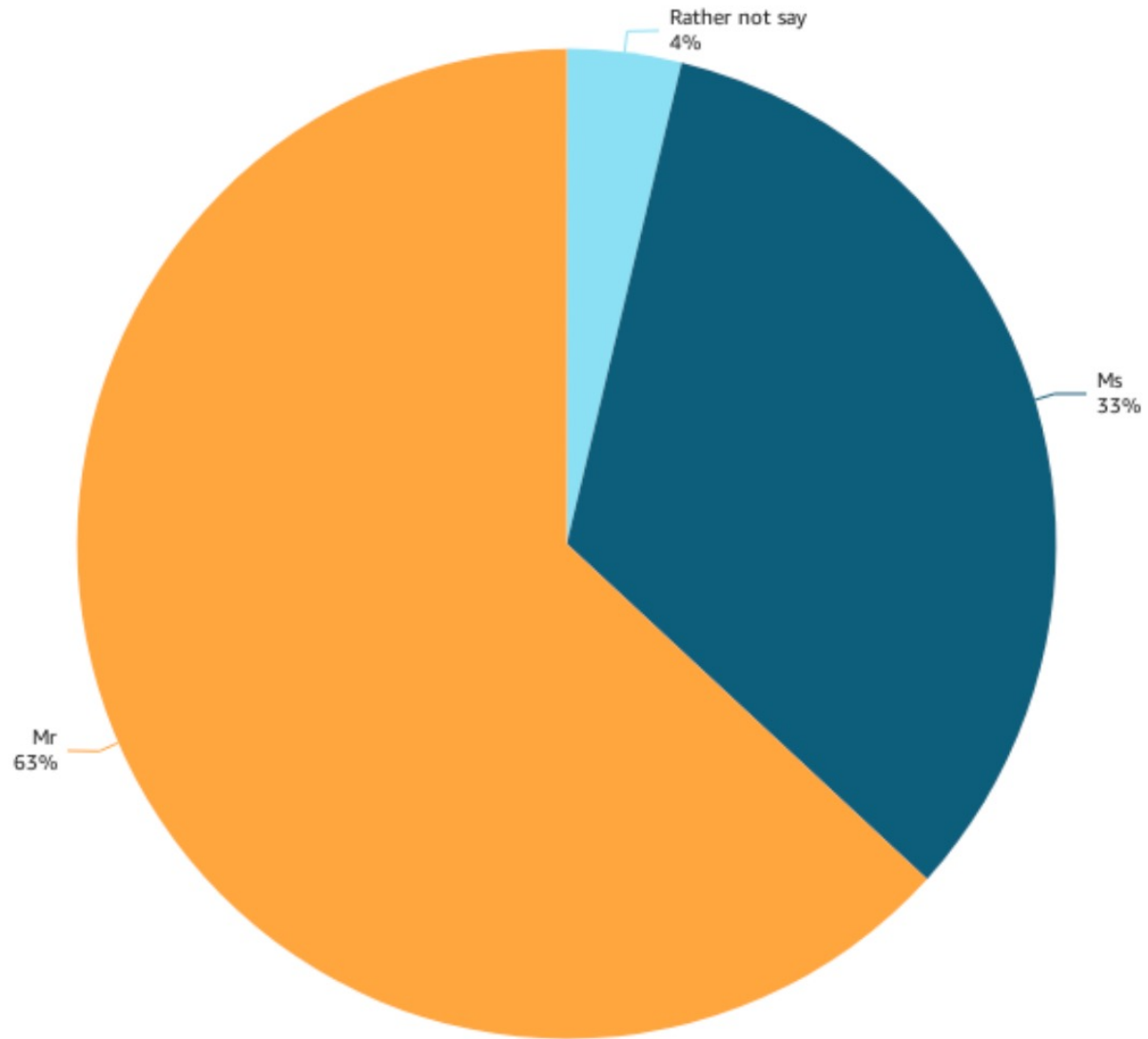


Group By: region name

# Participants by organizational type...



# Attendees by gender

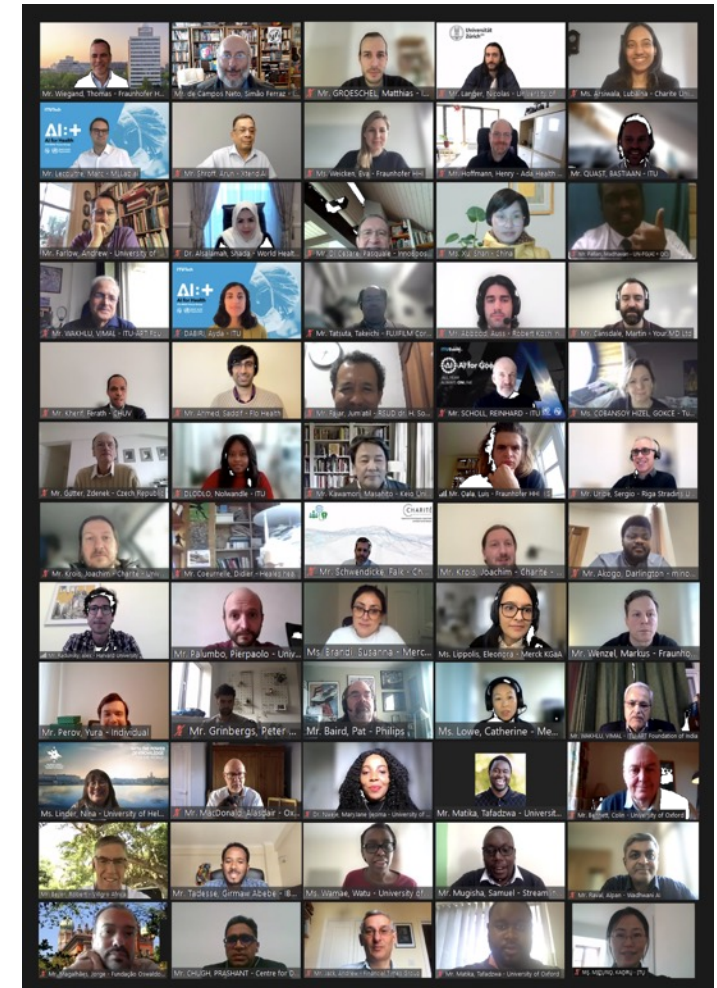


Group By: prefix



# Working Group to build and strengthen global collaborations

- A **community of practice** around digital health and AI-for-health, foster collaborations, and promote outreach.
- **Expertise across the entire ecosystem** of support needed, deploying scientific rigor, so that more high-quality interventions will make it into use.
- **Local ‘intelligence’** to improve health data in terms of skills and the organisation of people to meaningfully use such data, health systems that are continuously learning and improving, to put **local knowledge/context at the heart of application and scale-up**.
- **Government** understanding of, and **buy-in** to, digital and AI innovations.
- **Evaluation frameworks**.
- **Local innovation capacity**.
- **Equitable access and local control** over AI in health.





Andrew Farlow



MaryJane Ijeoma Nweje



Taf Matika



Humayra Bashir



Sea Yun Joung



Anna Worm Hortelano



Mohamed Bella Jalloh

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# COVID-19 VACCINE ACCESS

Achieving equitable access to quality COVID-19 vaccines, using digital, AI, and GIS tools



Prof Mojisola Adeyeye, NAFDAC, Director-General



Prof Paul Newton, IDDO and MORU, Head



Bright Simons, Mpedigree, CEO



Prof Andy Pollard, Oxford Vaccine Group, Director



Hamidreza Setayesh, COVAX, Senior Country Manager



Zabi Kamran, UNICEF, Immunization Specialist



Deogratias Mzurikwao, Villgro Africa, AI lead



Harriet Teare, RAND Europe, Research leader



Paul Lotay, CHMP, CEO, Co-chair of the workshop



Darlington Akogo, minoHealth AI Labs, Founder and Director



James Bolster, Zenysis Technologies, Manager



Moz Siddiqui, Gavi, Head of Strategic Innovation and Partnerships



Elvis Sedah, Africa CDC, Trusted Vaccines Cluster Coordinator



Laila Pelletier, Harras-Covid-19 Research Coalition, Associate



Prof Anurag Agrawal, Lancet-Financial Times Commission, Co-chair



Folasade Osho, NAFDAC, Assistant Chief Regulatory Officer



Saleem Sayani, Aga Khan Development Health Resource Centre, Director

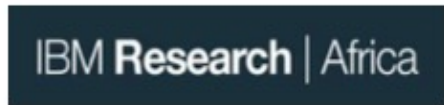


Andrew Farlow, Oxford in Berlin, Head of Global Health Initiatives, Co-chair of the workshop

# Catalyzing innovation in LMICs



AGA KHAN DEVELOPMENT NETWORK



World Health Organization



mPedigree  
Bringing Quality to Life







**AI for Health**

An ITU Focus Group  
In collaboration with WHO

**DNDi**

Drugs for Neglected Diseases *initiative*

**“Equitable data infrastructures to support equitable and effective pandemic intelligence”**

**COVID-19**  
Clinical Research Coalition



UNIVERSITY OF GHANA

**MORU**  
Tropical Health Network



**H3ABioNet**

Pan African Bioinformatics Network for H3Africa

**GLPID-R**

Global Research Collaboration for Infectious Disease Preparedness





# Cameroon December 2022

# REPORT

The workshop was organized by:

- **The International Telecommunication Union (ITU)**



- **The World Health Organization (WHO)**



- **The Global Health Policy Partnership**



In partnership with:

- **The Minister of Posts and Telecommunications, Cameroon**



- **TrueSpec-Africa, Cameroon**

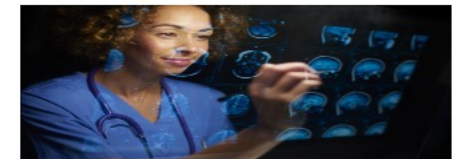


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-WHO/ITU WORKSHOP- ARTIFICIAL INTELLIGENCE FOR HEALTH FOCUS GROUP

---

**“AI and digital innovation for health and human development in Africa: From Ideas to Impact”**



**6 December 2022  
Douala - Cameroon**

# Cameroon December 2022



## 09.00-10.30: Session I, Keynote addresses and opening remarks



- Franck Verzefé, TrueSpec-Africa, Welcome from the host
- Thomas Wiegand, FG-AI4H Chair, HHI, Germany, Introduction to the ITU/WHO Focus Group on AI for Health
- Sarah Agbor, Africa Union Commissioner for Technology
- Phaniel Habimana, WHO Cameroon Director
- Andrew Farlow, University of Oxford and Chair FG-AI4H Working Group Collaborations and Outreach, 'AI and digital Innovation for Health and Development in Africa: From Ideas to Impact'
- Khahlil Louisy, President of the Institute for Technology and Global Health, MIT/Harvard, USA
- Minette Libom Likeng, Minister of Posts and Telecommunications of Cameroon, Opening remarks & speech on innovation in Africa

**Panel discussion (30 mins)**

**Moderators: TBA**





# Cameroon December 2022



## 10.45-12.00 11.20-12.35 Session II: Health system strengthening, infectious disease, outbreaks, health finance to support Universal Health Coverage (UHC)

- Ziraba Abdhahah, Kenya, health systems strengthening
- Sunny Ibeneme, Nigeria, health systems strengthening ONLINE
- Daniel Opoku, Ghana. Management of non-communicable diseases, outbreaks and pandemic prevention ONLINE
- Vitalis Fete, Cameroon, outbreak detection and response
- Terrence Beteck Epie, Cameroon, Epidemic and HIV drug control ONLINE
- Diana Ratsiambakaina, Madagasker, Digital tools to serve health finance and UHC has covid 19

### Joining discussion from the ITU-WHO

- Simão Campos, Secretariat ITU-WHO online

### Moderators:

- Robert Beyer, [Villgro Africa](#)
- Deogratias Mzurikwao, [Villgro Africa](#)

## 13.00-14.00 13.20-14.20 Session III: Innovation and entrepreneurial support

- Guisilla Dedino, Cameroon, digital innovation in times of conflict and trauma ONLINE
- [Christabel Ngwashi](#), Cameroon, digital innovation in conflict zones
- Deogratias Mzurikwao, Tanzania, Entrepreneurial support for impact (cf recent [“Innovations in Healthcare in Africa”](#))
- Karim Lekadir, Director, AI in Medicine Lab, Universitat de Barcelona, Spain, Inclusive Artificial Intelligence for Accessible Medical Imaging Across Resource-Limited Settings
- Foutse Khomh, Canada, Software Quality Assurance for Machine Learning Applications

### Joining discussion from the ITU-WHO

- Marc Lecoulre, [Mllab.ai](#), Chair, [Data and AI solution handling](#), Team leader, [Open Code Initiative \(OCI\)](#)

### Moderators:

- Darlington Akogo, [minoHealth AI Lab](#), Ghana
- Robert Beyer, Villgro Africa



# Cameroon December 2022



## 14.15-15.20 (14.30-15.30) 15.10-15.55)-Session IV: Telemedicine, medicine, noncommunicable diseases (NCDs)

- Brenda Tanyi, Cameroon, Telemedicine, maternal care
- Yunusa M. Garba, Uganda, Telemedicine
- Françoise Nepveu, France, Drug quality control
- Sintieh Ekongefeyin, Cameroon, Non-communicable diseases (NCDs)
- Conrad Tankou, Cameroon, Breast and cervical cancer
- Sandra Nzeneu Canada (Cameroon), skin lesions, cancer
- Jawa Zabah Muhammad, Sultan Qaboos University Hospital, Oman, Nuclear medicine in Africa

### Joining discussion from the ITU-WHO

- Markus Wenzel, Co-chair: [Operations \(WG-O\)](#)

### Moderators:

- Franck Verzefé, [TrueSpec-Africa](#), Cameroon
- Eva Weicken, Co-Chair: [Clinical evaluation of AI for health \(WG-CE\)](#); Fraunhofer HHI, Germany

## 15.00-16.30 (15.45-17.00) 16.00-17.00 Session V: Radiology

Benjamin Sarkodie, Medical School, University of Ghana, Challenges Facing AI in Africa Radiology

Judy Wawira, Emory University USA, Challenges Facing AI in Radiology

Darlington Akogo (MinoHealth AI Labs & FG-AI4H TG AI for Radiology; Ghana), Opportunities in AI for Radiology

- Issah Samori, University of Ghana III R

**Moderators of interactive session: TBA**

# Cameroon December 2022



# AI for Health Workshop July 2023

## 09:00 - 09:15 - Introduction & Welcome

### Speaker(s)



Sameer Pujari  
Lead AI for health  
**World Health Organization (WHO)**



Simão Campos  
Head of Secretariat, Focus Group on AI  
for Health  
**International Telecommunication  
Union (ITU)**

## 09:15 - 10:30 - Session 1: Focus Group AI for Health

### Speaker(s)



Andrew Farlow  
Senior research fellow  
**University of Oxford**



Marc Lecoultré  
CEO  
**MLLab.ai**



Rohit Malpani  
Independent Consultant  
**World Health Organization (WHO)**



Shada Alsalamah  
Technical Officer  
**World Health Organization (WHO)**



Thomas Wiegand  
Chair of ITU/WHO Focus Group on AI  
for Health  
**Fraunhofer Heinrich Hertz Institute  
(HHI)**

## 11:00 - 12:30 - Session 2: Focus Group on AI for Health

### Speaker(s)



Auss Abbood  
Data Scientist and Project Lead  
**Robert Koch Institute**



Eva Weicken  
Chief Medical Officer  
**Fraunhofer Heinrich Hertz Institute  
(HHI)**

<https://aiforgood.itu.int/speaker/auss-abbood/>



Falk Schwendicke  
Professor  
**Charité Berlin**



Henry Hoffmann  
Director of Research  
**Ada Health**



Luis Oala  
Head of Machine Learning  
**Dotphoton**



Martin Cansdale  
Chief Scientist (VP of AI)  
**Healthily**



Nina Linder  
Senior Scientist  
**University of Helsinki**



Alexandre Chiavegatto Filho  
Professor  
**Universidade de São Paulo**



# AI for Health Workshop July 2023

14:00 - 14:45 - Session 3: GI-AI4H Objectives

## Speaker(s)



Thomas Wiegand  
Chair of ITU/WHO Focus Group on AI  
for Health  
**Fraunhofer Heinrich Hertz Institute  
(HHI)**



Bilel Jamoussi  
Deputy to the Director and Chief of  
Telecommunication Standardization  
Policy Department, TSB  
**International Telecommunication  
Union (ITU)**



Lothar Wieler  
Chair  
**Digital Global Public Health**



Stefan Germann  
Chief Executive Officer  
**Fondation Botnar**



Ulrike Till  
Director IP and Frontier Technologies  
Division  
**World Intellectual Property  
Organization (WIPO)**



Ricardo Baptista Leite  
CEO  
**I-DAIR International Digital Health  
& AI Research**

14:45-15:15 - Flash Panel

## Speaker(s)



Matthew Arentz  
Consultant  
**FIND**



Brian Yau  
Technical Officer  
**World Health Organization (WHO)**

15:45-17:00 - Session 4: Enabling, Facilitating and Implementing GI-AI4H

## Speaker(s)



Sameer Pujari  
Lead AI for health  
**World Health Organization (WHO)**



Mariam Nouh, Ph.D.  
VP Future Economies Sector, Cyber  
Security Researcher & Consultant  
**KACST, KSA**



André Rabello Dos Anjos  
Machine Learning, Computer Vision,  
Medical Imaging & Health Data  
Analysis, Reproducibility, Ph.D.  
**iDiap Research Institute,  
Switzerland**



Rigveda Kadam  
Head of Digital Access  
**FIND**



Rohit Malpani  
Independent Consultant  
**World Health Organization (WHO)**



Pradeep Dua  
**World Health Organization (WHO)**

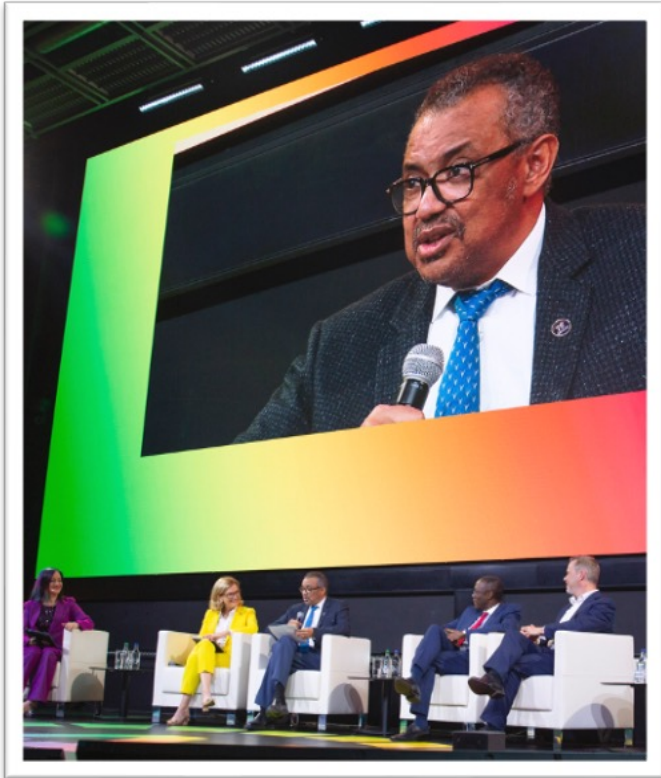
<https://aiforgood.itu.int/speaker/rohit-malpani/>



Andrew Farlow  
Senior research fellow  
**University of Oxford**

17:00-17:15 - Final discussion and closing

# July 2023: Launch of Global Initiative on AI for Health (GI-AI4H)



*(L-R: Ms. Doreen Bogdan-Martin (SG ITU), Dr. Tedros Adhanom Ghebreyesus (DG WHO), Mr. Edward Kwakwa (ADG WIPO))*

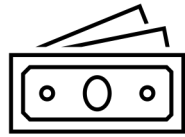
**Launched on July 6, 2023**

# Partners and collaborators

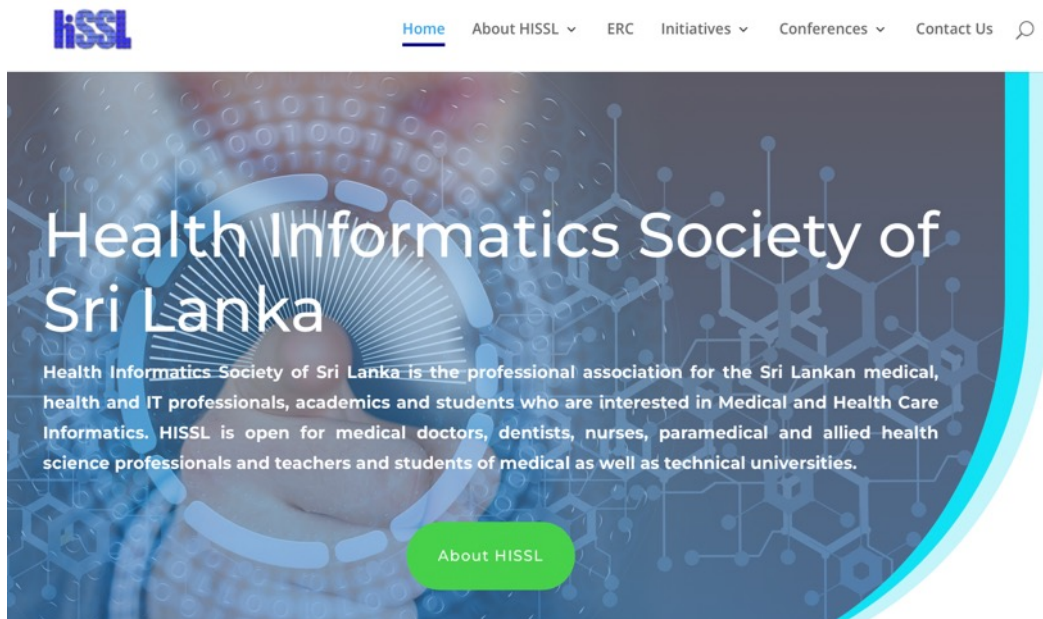
	 <p>وزارة الصحة Ministry of Health</p>	 <p>आयुष मंत्रालय Ministry of Ayush</p>	 <p>FINNISH GOVERNMENT</p>	 <p>KACST مدينة الملك عبدالعزيز للعلوم والتقنية</p>
 <p>UNIVERSITY OF OXFORD</p>	 <p>Massachusetts Institute of Technology</p>	 <p>HARVARD UNIVERSITY</p>	 <p>UNIVERSITY OF CAMBRIDGE Judge Business School</p>	 <p>Stanford University</p>
 <p>University of Zurich <sup>UZH</sup></p>	 <p>HSLU Hochschule Luzern</p>		 <p>NUS National University of Singapore</p>	 <p>جامعة الملك سعود King Saud University</p>
 <p>FIND Diagnosis for all</p>	 <p>Fraunhofer HHI</p>	 <p>UNIVERSITÄT LUZERN</p>	 <p>Erasmus MC</p>	 <p>fondation BOTNAR</p>
 <p>human reproduction programme research for impact UNDP • UNFPA • UNICEF • WHO • WORLD BANK</p>	 <p>PATH</p>	 <p>CAICT 中国信通院</p>	 <p>Stop TB Partnership</p>	 <p>ACCESS health international</p>
 <p>HEALTH AI The Global Agency for Responsible AI in Health</p>	 <p>Unitaid</p>	 <p>TDR For research on diseases of poverty UNICEF • UNDP • World Bank • WHO</p>		



# Forthcoming (?) Sri Lanka: AI for Health – Perspective of Social Determinants of Health



# Sri Lanka partners



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Health Informatics Society of Sri Lanka is the professional association for the Sri Lankan medical, health and IT professionals, academics and students who are interested in Medical and Health Care Informatics. HISL is open for medical doctors, dentists, nurses, paramedical and allied health science professionals and teachers and students of medical as well as technical universities.

[About HISL](#)



## Sri Lanka College Of Health Informatics



"Leveraging Data Driven Evidence For Better Health Care"



# Other forthcoming?

Phix  
ai

## Public Health Impact through Artificial Intelligence

Accelerating scaling of innovations at the intersection of AI and Public Health to sustainably achieve Universal Health Coverage

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6 September 2024 Track 4 14:00 - 15:00

### Accelerating AI in Public Health: Fostering South-South Collaborations

PATH

Target Audience: All

<p><b>Michelle M. Lang-Alli</b> Director- Office of Health USAID /Ind</p>	<p><b>Dr. Karthik Adapa</b> Regional Adviser, Digital Health WHO-SEARO</p>	<p><b>Prof. Andrew Farlow</b> Professor, University of Oxford, Chair Outreach and Collaboration GI-AI4H (WHO-ITU-WIPO), and Chair Global Health Policy Partnership, University of Oxford</p>
<p><b>Anurag Mairal</b> Prof. Stanford Byers Center for Biodesign Stanford University</p>	<p><b>Madan Kumar Upadhyaya</b> Division Chief, Quality Standard and Regulations- Government of Nepal</p>	<p><b>Sameer Kanwar</b> Digital Health Director, India &amp; South Asia PATH Moderator</p>



**HPI** Hasso Plattner Institut

RESEARCH CLUSTER "DIGITAL HEALTH"





# THANK YOU

