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MAKERERE UNIVERSITY

IDI INFECTIOUS DISEASES INSTITUTE

Academy for Health Innovation Uganda

UN CDF | Impact Capital for Development

2022 HEALTH INNOVATIONS CONFERENCE UGANDA

12th - 13th DECEMBER 2022
SERENA HOTEL KAMPALA

PROGRAMME BOOKLET

Building Resilient Healthcare Systems Through Innovation

WELCOME!

Globally, the COVID-19 pandemic stretched healthcare systems to limits that left them unable to offer holistic care and continuity of services to other none-COVID related patient populations. Focus shifted to responding to the surging numbers of infections. Clinical resources, both human and infrastructural could barely manage the surge. These challenges prompted stakeholders to think innovatively in building resilient healthcare systems to cope with future outbreaks and challenges.

Future-proofing healthcare systems require systems to be rethought from being reactive to proactive, data-enabled and establishing new collaborative models. This will enable systems to optimize the delivery of care, care pathways, and disease management whilst ensuring that healthcare systems are agile and better equipped to handle future crises and long-term needs. This will also require building capacity for preventive medicine that focuses on keeping individuals and populations healthy (Alturkistani, Majeed et al. 2018). With increasing Noncommunicable diseases, coupled with high costs of healthcare services, there is need to reinforce the pillars of preventive medicine so as to 'protect, promote, and maintain health and well-being and to prevent disease, disability, and death' (Alturkistani, Majeed et al. 2018).

Achieving this will require leveraging innovations in technology (Audi, Hagembe et al. 2020). Advancements in AI will enable real-time analysis of data to inform prediction and hotspots for possible outbreaks, sequencing of novel disease genomes, and accelerate vaccine development and rollout.

Digital technologies will offer agile, adaptable, and crisis-resistant supply chain systems to effectively coordinate and allocate medical equipment and drugs. Digitized financial management systems will offer insightful finance resource allocation to support response to emergencies. Interoperable Electronic Health records will enable easy sharing of anonymized medical information for clinical management, contact tracing, and disease patterns in different populations. A spectrum of technologies have registered positive impact in primary prevention and building upon these will not only ensure a healthy population but also contribute to resilience (Alturkistani, Majeed et al. 2018).

At the HIC 2022, we are hosting very engaging and informative sessions, under different subthemes and tracks, led by a spectrum of innovators and stakeholders that are working on solutions for resilient healthcare systems whilst ensuring value. Innovators will showcase their solutions, and share lessons/challenges, with the ultimate goal of building competent support systems to support these solutions to market and scale.

Subthemes:

| Data and Bioinformatics and Its Possibilities for Healthcare | Equity and Inclusion for the Unmet and Under-Met Needs | Healthcare Financing and Sustainability | Capacity Building for Digital Healthcare Workforce | Climate Change and Global Health Security |

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INSTITUTIONAL LEADERSHIP

Dr. Andrew D Kambugu
Executive Director
Infectious Diseases Institute

Dr. Rosalind Parkes Ratanshi
Co-Lead
Academy for Health Innovations

Dr. Ruth Obaikol
Co-Lead
Academy for Health Innovations

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Rebecca Melisa Nakitandwe
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Monday 12th December, 2022 — Day 1

08:00hrs-09:00hrs	Registration (Academy videos and partner videos)
09:00hrs-09:05hrs	Welcome Remarks: Dr. Rosalind Parkes Ratanshi: Director, Academy for Health Innovations
09:05hrs-09:15hrs	Opening remarks: Dr Andrew Kambugu, Executive Director, IDI
09:15hrs- 09:30hrs	Official opening by Guest of Honor: Professor Barnabas Nawangwe: Vice Chancellor, Makerere University (Video)
09:30hrs-09:40hrs	Keynote remarks: Dr. Lisa Nelson, CDC Uganda Director
09:40hrs-09:50hrs	Opening remarks: Ambassador Natalie E. Brown: US Embassy Uganda
09:50hrs-10:30hrs	**Keynote session**: Unlocking Innovation to build resilient and sustainable healthcare systems in Africa. • Dr. Yonas Tegegn Woldemariam: WHO Country Representative • Chris Lukolyo: Digital Country Lead, UNCDF • Dr. Lisa Nelson, CDC Uganda Director • Dr. Andrew Kambugu: Executive Director, IDI **Moderator:** Dr Ruth Obaikol: Deputy Director, Academy for Health Innovations
10:30hrs –11:10hrs	Lightening session: Abstracts presentation **Moderator:** Dr. Agnes Bwanika Naggirinya and Eva Nakibuuka. • Immaculate Atukunda • David Nyombi • Martin Mukama • Elly Nuwamanya
11:10hrs– 11:40hrs	Exhibition gallery interactive tour and tea break **Moderator:** Joyce Kayaga

INTERACTIVE WORKSHOPS

	Addis Hall Data and Bioinformatics	Katonga Hall Equity and inclusion	Achwa Hall Healthcare financing and sustainability
11:40 hrs–12:40hrs	**Moderator:** Dr. Daudi Jingo • Dr. Adrienne • Maria Sarah Nabagala • ACE-IDI • Edward Bichetero: METS • Jackline Kisakye: Baobab Circle • Authur Amanyire: FlyHub	**Moderator:** Dr. Hope Mackline • Dr. Prosper: Mscan Uganda • Abigail Turinayo: Design without borders, Uganda • Brian Turyabagye: MamaOp, Uganda • Dr. Charles Batte: Wulira App • Rory Assandry: La Ruche Health • Anna-Laura Seifermann • Elizabeth L Dunbar	**Moderator:** Tom Kakaire • Elly Nuwamanya: Health economics for systems resilience • Mike Matesic: IDEA Foundry • Fiona Nuwamanya: Rocket Health Uganda • USG • Alex Mukasa: Marsh Insurance • Christian Karamagi: Stanbic Bank Uganda
12:40-14:00hrs	**LUNCH**		

14:00hrs – 14:20hrs	**Katonga Hall**		
	World Health Organisation: Uganda Health Innovations cluster: Dr. Suraj M Shrestha		
14:20hrs- 15:00hrs	**Panel session:** Exploring frameworks for adoption of innovations for resilient healthcare systems **Moderator:** Dr. Rosalind Parkes Ratanshi • Dr. Sabrina Kitaka • Dr. Ernest Darkoh: BroadReach Health • Paul Mbaka: MoH-Uganda • Dr. Mohammed Lamorde: Head of GHS IDI • Kenneth Musenge: CDC-Uganda • Paul Bitarabeho: Africa Resource Center		
	Katonga Hall **Capacity building for the digital workforce**	**Addis Hall** **Accelerating Innovations for resilient healthcare systems: Exploring policies and standards**	**Achwa Hall** **Emerging technologies for systems resilience**
15:00hrs – 16:00hrs	**Moderator:** Michael Niyitegeka • Benjamin Rukwenje: Boundless Minds Uganda • Carol Kamasaka • Mutumba Linda • Huguette Diakabana • Odour Collins • Jackline Kisakye: Baobab Circle • Trevor Chai: Marsh Insurance	**Moderator:** Dr. Rosalind • IP frameworks and • Commercialisation Kenneth Muhangi, Judith Kagere • Interoperability standards for Healthcare: Samuel Lubwama METS • Implementation of integrated systems (ART ACCESS): Dr. Ivan ACP, Eva Nakibuuka, Edison Katunguka IDI • Travis Briscoe: Marsh Insurance • Paul Amendola: VecnaCares	**Moderator:** Dr Elizabeth Oseku • HASH project: Dr Hope • Harnessing the potential of the 4IR in healthcare: • Dr. Ernest Darkoh • Makokha Violet • Dr Olwit William Kane: UCI • Pathogen Genomics and Antimicrobial Resistance Surveillance: Gerald Mboowa • Biofire Global Fever Panel to detect pathogens of security concern: Kenneth Kobba

Tuesday 13th December, 2022 — Day 2

	Strengthening partnerships and collaborations for resilient healthcare systems: UNCDF and partners. Remarks: Richard Ndahiro, Technical Advisor - Inclusive Digital Economy, UNCDF
09:00hrs –10:00hrs	**IDI:** Lessons From Piloting Drone Health Deliveries In Last-Mile Geographies Joan Akullo, Project Coordinator and Patrick Ssesaazi,
10:00hrs – 11:00hrs	**BRAC & Medic:** Harnessing Digital Health Solutions for Sustainable Community Health Service Delivery in Uganda • Andrew Akankwasa, IT Lead, BRAC Uganda • Dr Ronald Ocaatre, Principal Strategic Health Communication officer, Ministry of Health • Brian Ssennoga, Partnership Specialist, Medic • Priscillah Balirwa, Digital Health Manager Living Goods **Moderator:** Rachael Kentenyingi, Communication Specialist, UNCDF
11:00hrs – 12:00hrs	**Medical Access & Signalytic:** Digitizing Inventory Management of Medical Supplies in Lower-tier Health Facilities • Peace Otage: Software Engineer & Digital Health Futurist • Dennis Katerega, Manager Information Systems, Medical Access Uganda Limited. **Moderator:** Esther Nshakira, Knowledge Management Analyst, UNCDF (Working tea break)
12:00hrs- 14:00hrs	**LUNCH**

14:00hrs-15:00hrs	**BREAK OUT SESSIONS**		
	Addis Hall **Accelerating Universal Health Coverage**	**Katonga Hall** **Innovations For Global Health Security And Climate Change**	**Achwa Hall** **Evaluating Emerging Technologies For Resilience**
15:00hrs – 16:00hrs	**Moderator:** Dr Alex Muganzi • Exploring steps towards the National Health Insurance plan • Role of private sector in achieving UHC: Insurance companies, banking sector innovations for UHC • Social innovations for healthcare financing for marginalised populations: Alex Mukasa, Elly Nuwamanya • Dr. Sabrina Kitaka	**Moderator:** Judith Nanyondo • Climate change related public health emergencies [Henry Kyobe Bbosa-MoH • Impact of global warming on the health of vulnerable populations Alex Ario-NIPH, MoH • Models to mitigate the impact of climate change on health security Reuben Kiggundu: USAID MTAP	**Moderator:** Dr Agnes Bwanika Naggirinya • Drones: Kalangala and Westnile: Patrick Ssesaazi • A.I Chatbot for covid and Ebola-ACE: Ibra Lujumba • Predictive models for NCD: The DTG predictive model: Ceasar Favor • Block chain for Healthcare: Dr Rosalind • Venkat Yechuri-Salcit
15:00hrs - 16:00hrs	Exhibition presentations and pitching session		
16:00hrs - 18:00hrs	**Closing remarks**: Dr. Aminah Zawedde- Permanent Secretary ICT&NG		

Abstracts For Presentation

Sno.	Author	Country	Title	Session
1	Elizabeth L Dunbar	USA	Rethinking Global Digital Health Interventions and Equity with Stakeholder Reflections.	PANEL DISCUSSION-EQUITY & INCLUSION
2	Martin Mukama	Uganda	Impact Of The Protecting Infants Remotely By Sms (Prisms) On Neonatal Care In A District Hospital.	LIGHTENING SESSION-ABSTRACT PRESENTATION
3	Immaculate Atukunda	Uganda	Acceptability Of The Wulira App In Assessing Occupational Hearing Loss Among Workers In A Steel And Iron Manufacturing Industry.	LIGHTENING SESSION-ABSTRACT PRESENTATION
4	David Nyombi, Chris Rwakagara,Denis Nuwagaba	Uganda	Accelerating The Achievement Of Epidemic Control 95-95-95 Goals Among Children And Adolescents Living With Hiv In Central And South Western Uganda Using Data-Driven Innovations That Maximize Social Media Platforms.	LIGHTENING SESSION-ABSTRACT PRESENTATION
5	Joseph Saye / Paul Amendola	DRC	Evaluation Of An Implementer's Technology Readiness Before Deployment: New Approaches To Increase Success From A Case Study Of An Offline Emr In Dr Congo	PANEL DISCUSSION-EQUITY & INCLUSION
6	Elly Nuwamanya		Cost-Effectiveness Of Increased Contraceptive Coverage Using Family Planning Benefits Cards Compared With The Standard Of Care For Young Women In Uganda	LIGHTENING SESSION-ABSTRACT PRESENTATION

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Featured Speakers

Natalie E. Brown
US Ambassador
to Uganda

Dr. Lisa Nelson
Country Director
CDC Uganda

**Prof. Barnabas
Nawangwe**
Vice Chancellor,
Makerere University

**Dr. Yonas Tegegn
Woldemariam**
WHO Country
Representative

Chris Lukolyo
Digital Country Lead
UNCDF

Dr. Aminah Zawedde
Permanent Secretary
ICT&NG

Dr. Sabrina Kitaka

Richard Ndahiro
Technical Advisor
Inclusive Digital
Economy, UNCDF

Jackline Kisakye

Dr. Adrienne

**Dr. Prosper
Ahimbisibwe**
Mscan Uganda

Abigail Turinayo
Design
without borders,
Uganda

Brian Turyabagye
MamaOp,
Uganda

**Dr. Mohammed
Lamorde**
Head of GHS IDI

Dr. Daudi Jingo

Mike Matesic
IDEA
Foundry

Tom Kakaire
HoD SPDT
IDI

Trevor Chai
Marsh
Insurance

Dr Alex Muganzi
HoD HSS IDI

Dr. Charles Batte
Wulira
App

Kenneth Muhangi

Dennis Katerega
Manager Information
Systems, Medical
Access Uganda Ltd

Priscillah Balirwa
Digital Health
Manager Living
Goods

Authur Amanyire

Rory Assandry
La Ruche
Health

Elizabeth L Dunbar

**Anna-Laura
Seifermann**

Dr. Ernest
BroadReach

Paul Mbaka
MoH-Uganda

Fiona Nuwamanya
Rocket Health
Uganda

Featured Speakers

Alex Mukasa
Marsh
Insurance

Judith Nanyondo

Judith Kagere

Dr. Ivan Arinaitwe
ACP

Brian Ssennoga
Partnership
Specialist, Medic

Gerald Mboowa

Paul Bitarabeho
Africa Resource
Center

Carol Kamasaka

Benjamin Rukwenje
Boundless Minds
Uganda

Huguette Diakabana

Andrew Akankwasa
IT Lead, BRAC
Uganda

Makokha Violet

Edison Katunguka
IDI

Peace Otage
Software Engineer &
Digital Health Futurist

Henry Kyobe Bbosa
MoH

Maria Sarah Nabagala
Senior Statistician
IDI

Edward Bichetero

Reuben Kiggundu
USAID MTAP

Kenneth Kobba

Kenneth Musenge
CDC-Uganda

Dr. Suraj M Shrestha
Programme
Management Officer
WHO

Mutumba Linda

Dr. Alex Ario
NIPH, MoH

Michael Niyitegeka

Dr Olwit William Kane
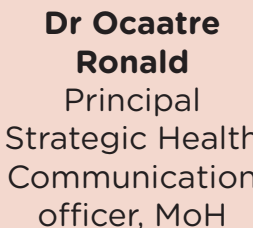UCI

Venkat Yechuri-Salcit

Paul Amendola
VecnaCares

Christian Karamagi
Stanbic Bank Uganda
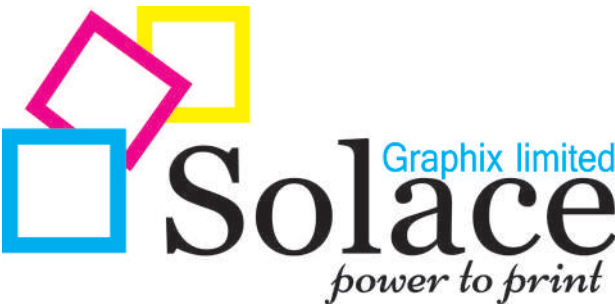
Elly Nuwamanya

Dr Ocaatre Ronald
Principal
Strategic Health
Communication
officer, MoH

Travis Briscoe
Marsh
Insurance

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