



Building Industry-Education Partnerships for Transformational Growth in Africa

Summit



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Date/Time:

Wednesday, 23 Oct 2024

Starting at 08:00 am - 19:00 pm

Location:

Future Africa Campus, UP



Hannele Niemi
DAIA Chair



David Makhura
Chairperson



Pioneering Africa's Digital Education

By Professor Hannele Niemi, DAIA Chairperson

Empowering Africa, One Digital Lesson at a Time

Digital Academies in Africa (DAIA) is here to revolutionize education across the African continent! With a bold mission to close the digital skills gap, DAIA stands as a beacon of hope, driving transformative growth and development through unparalleled global collaboration.

In partnership with renowned institutions like the University of Helsinki and the University of Johannesburg, along with a powerhouse network of global partners, DAIA is crafting groundbreaking educational programs. These programs empower African learners with the cutting-edge digital knowledge essential to thrive in today's fast-paced economy.

DAIA transforms lives and boosts economic growth through digital education and global partnerships, equipping individuals with essential digital skills and fostering innovative, sustainable solutions for African communities.

Contact DAIA today and become a part of this revolutionary movement!



digitalacademy.africa



info@digitalacademy.africa



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[Digital Academies In Africa](https://www.linkedin.com/company/DigitalAcademiesInAfrica)

>Welcome to

Program.

**08:00 AM -
09:00 AM**

Registration at the
conference desk

**09:01 AM -
09:05 AM**

Opening Speech: David
Makhura and Mika Jantunen

**09:06 AM -
09:15 AM**

Welcome Speech: Prof. Hannele
Niemi

**09:16 AM -
09:30 AM**

Keynote Speech 1: Education and
Training for Digital Transformation –
A Supply-Side Perspective
Deputy Minister, Hon. Mr. Mondli
Gungubele, Department of
Communications and Digital
Technologies

**09:31 AM -
09:45 AM**

Key Note Address: SA Minister of
Higher Education and Training Hon.
Dr. Pamela Nkabane

**09:46 AM -
09:50 AM**

Key Video Address: Minister of
Education and Culture in Finland
Anders Adlercreutz

**09:51 AM -
10:00 AM**

Remarks from SA Deputy
Minister of Water and Sanitation,
Hon. Mr David Mahlobo

**10:01 AM -
10:10 AM**

Dean of AU Ambassador, Andre
Nzapayake, CAR

Moderator (Demand -Side): Mitesh Chotu,
CEO of Maximum Group Digital

**10:11 AM -
10:20 AM**

Key note speech 2: Digital
Transformation and enabler for
Industrial Transformation in
Africa – A Business Perspective
(Demand-Side), Dr Sandile
Mbatha

Program.

**10:21 AM -
10:45 AM**

Demand Side

Contributors: Slaven Gajovich, Alf White, Kemoniloe Phatoli, Sandile Mahlaba, Jorma Säteri

**10:46 AM -
11:10AM**

Plenary Discussion

**11:11 AM -
11:35 AM**

Coffee Break

Moderator (Supply Side): Mika Jantunen (FWF)

**11:36 AM -
12:00 PM**

Supply Side Contributors:

Lebogang Madise, Dr Belinda Matebese, Mpho Mookapela, Prof Hannele Niemi, Mikko Myllys

**12:01 PM -
12:30 PM**

Plenary Discussion

**12:31 PM -
14:00 PM**

Lunch and Networking

**14:01 PM -
15:30 PM**

Co-Creating Future Skills with DAIA

- Joint Presentations of Finnish Researchers and Companies

**15:31 PM -
17:00 PM**

Introduction to **Parallel Sessions** and Moving to Breakaway Rooms
Auditorium: Education and Training
Research Commons UL: Water
Research Commons LL: Agriculture
The Old School Room: Construction & Mining

**17:01 PM -
17:30 PM**

Summary of the Summit and

Conclusions: Mika Jantunen/David Makhura

**17:31 PM -
19:00 PM**

Social evening: Ambassador Pekka Metso Finnish Embassy, CEO Mikko Myllys Funidata

BREAKAWAY SESSION

BUILDING INDUSTRY-EDUCATION PARTNERSHIPS
FOR TRANSFORMATIONAL GROWTH IN AFRICA

FOCUS AREAS: WATER

SDG Alignment: SDG 6 – Clean Water and Sanitation



Mika Jantunen
CEO, Intolead

MODERATOR

- Importance: Access to clean and safe water is fundamental for health, agriculture, and industry. In Africa, water scarcity remains a major issue, especially in rural areas. Ensuring sustainable water management and availability is crucial for improving hygiene, preventing diseases, and supporting sustainable agriculture and ecosystems.

- Role in SDG Agenda: Innovations in water management, such as digital monitoring of water sources and irrigation systems, can help achieve equitable access and efficient use of water resources. By educating communities and industries on water conservation, we can promote long-term sustainability and resilience in the face of climate change.

6 CLEAN WATER AND SANITATION



BREAKAWAY SESSION

BUILDING INDUSTRY-EDUCATION PARTNERSHIPS
FOR TRANSFORMATIONAL GROWTH IN AFRICA

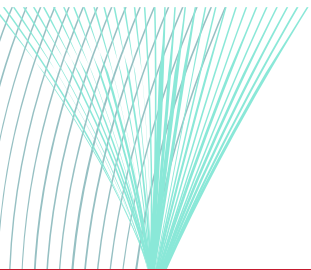
FOCUS AREAS: EDUCATION AND TRAINING

SDG Alignment: SDG 4 – Quality
Education, SDG 8 – Decent Work and
Economic Growth

- Importance: Education is the foundation for all sustainable development efforts, particularly in bridging the skills gap and preparing Africa's youth for future industries. Digital literacy and access to quality training are crucial for empowering individuals to contribute meaningfully to the economy.
- Role in SDG Agenda: Investing in education, especially in STEM fields and vocational training, supports the creation of decent work and drives innovation. Digital academies will equip learners with future-ready skills, enhancing employability and fostering entrepreneurship, essential for Africa's transformation and economic empowerment.



Petri Home
Partner Intolead
MODERATOR



4 QUALITY
EDUCATION



8 DECENT WORK AND
ECONOMIC GROWTH



BREAKAWAY SESSION

BUILDING INDUSTRY-EDUCATION PARTNERSHIPS
FOR TRANSFORMATIONAL GROWTH IN AFRICA

FOCUS AREAS: MINING

SDG Alignment: SDG 9 – Industry, Innovation, and Infrastructure, SDG 12 – Responsible Consumption and Production

- Importance: Mining contributes significantly to Africa's economy but poses environmental and social challenges, including land degradation and conflicts over resources. Responsible mining is key to ensuring that the benefits reach local communities without damaging ecosystems.
- Role in SDG Agenda: By integrating digital solutions in mining, such as AI for better resource management and safety measures, the industry can become more sustainable and accountable. Mining should promote inclusive economic growth while adhering to environmental regulations and community rights, aligning with responsible consumption of natural resources.



Mitesh Chotu
CEO, Maximum Group
Digital
MODERATOR

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



BREAKAWAY SESSION

BUILDING INDUSTRY-EDUCATION PARTNERSHIPS
FOR TRANSFORMATIONAL GROWTH IN AFRICA

FOCUS AREAS: CONSTRUCTION

SDG Alignment: SDG 9 – Industry, Innovation, and Infrastructure, SDG 11 – Sustainable Cities and Communities



Mitesh Chotu
CEO, Maximum Group
Digital
MODERATOR

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



11 SUSTAINABLE CITIES
AND COMMUNITIES



- Importance: As Africa urbanizes rapidly, infrastructure development must keep pace while remaining sustainable. The construction sector has a direct impact on housing, transportation, and public services, influencing the quality of life for millions.
- Role in SDG Agenda: Emphasizing green building practices, efficient use of resources, and digital construction technologies will enable Africa to build smart, resilient cities. This sector is also key for reducing carbon footprints and improving urban planning, making cities inclusive, safe, and sustainable for future generations.





Alf White
CFO, NWK
MODERATOR

BREAKAWAY SESSION

BUILDING INDUSTRY-EDUCATION PARTNERSHIPS
FOR TRANSFORMATIONAL GROWTH IN AFRICA

FOCUS AREAS: AGRICULTURE

SDG Alignment: SDG 2 – Zero Hunger,
SDG 12 – Responsible Consumption and
Production

- Importance: Agriculture is a backbone of Africa's economy, employing a large portion of the population. However, challenges such as food security, climate change, and inefficient farming practices persist.
- Role in SDG Agenda: Modernizing agriculture with digital technologies, like precision farming and data-driven supply chains, ensures increased productivity, sustainable land use, and reduced food waste. Training and educating farmers to adopt smarter, climate-resilient agricultural methods help tackle hunger and promote responsible production practices.

2 ZERO HUNGER



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Meet Our Participants



Petri Home



Mika Jantunen



Alf White



Wandile Sihlobo



Mitesh Chotu



Daryl Mclean



Benoit Le Roux



Topi Helle



Prof. Hanele Niemi



Dr. Jenny Niu



Dr. Terrence Young



Asief Alli

Meet Our Participants



Dr. Tapio Rasa



Ari Myllyviita



Prof. Umesh Ramnarain



Miikka Turkkila



Mpho Mookapela



Sami Haapoja



Dr. Keitumetse Mothibeli



Romeo Manyika



Slaven Gajovic



Vusi Mnguni



Jorma Säteri



Dr Sandile Mbatha

Meet Our Participants



Hon. David Makhura



Hon. Anders Aldercreutz



Hon. Dr Nobuhle Pamela Nkabane



Kemoniloe Phatoli



Sandile Mahlaba



Hon. Mr. Mondli Gungubele



Lebogang Madise



Dr Belinda Matebese



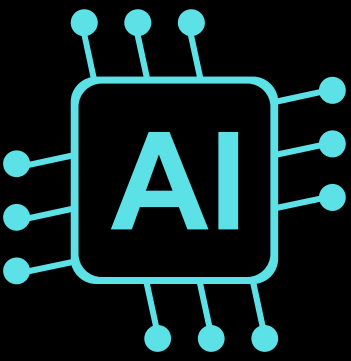
Mikko Mylly



Hon. Mr. David Mahlobo



Andre Nzapayeke



THE
HEARTBEAT
OF DAIA

AI: THE ENGINE BEHIND DAIA'S VISION

AI is not just a tool for education but a transformative force that empowers learners, bridges gaps, and fosters sustainable development. With AI at its core, DAIA is poised to lead Africa into a new era of digital enlightenment and economic prosperity.

AI-driven platforms unlock a treasure trove of high-quality educational resources that transcend geographical barriers. This means learners across Africa can now access the same wealth of knowledge as their peers globally, creating an even playing field in education. Whether it's cutting-edge research, interactive lessons, or advanced tutorials, AI ensures every student has the resources they need at their fingertips.

In the rapidly evolving digital landscape, AI stands as a pivotal force for Digital Academies in Africa (DAIA), amplifying its mission to revolutionize education across the continent by tailoring educational content to individual learners, ensuring that each student receives customized support that aligns with their unique needs and pace. This personalized approach not only enhances understanding but also keeps students engaged and motivated.

AI is a catalyst for sustainable development, fostering innovative solutions that address the unique challenges faced by African communities. In agriculture, AI can optimize farming practices, increase crop yields, and manage resources efficiently. In healthcare, AI enhances diagnostics, personalizes treatment plans, and improves patient outcomes. These AI-driven initiatives have a profound and lasting positive impact on society.

Through these transformative capabilities, AI is not just a tool for education but a vital force driving development, economic empowerment, and sustainable growth across Africa.

AI has been transforming the world since its inception in the 1950s. Today, it is transforming industries by automating complex tasks, enhancing medical diagnostics, optimizing supply chains, revolutionizing customer service with chatbots, advancing autonomous vehicles, and enabling personalized experiences in fields like education and entertainment. It's also driving breakthroughs in climate research, agriculture, and cybersecurity, shaping a smarter, more connected world.

Join DAIA in this transformative journey and witness the future of education.



AI MILESTONES: A JOURNEY THROUGH INNOVATION

1956: THE BIRTH OF AI

The term "Artificial Intelligence" was coined at the Dartmouth Conference.

[Dartmouth Summer Research Project on Artificial Intelligence](#)

1966: ELIZA

The First Chatbot - Introduction of ELIZA, simulating a conversation with a human.

[ELIZA - Wikipedia](#)

1980: RISE OF EXPERT SYSTEMS

AI systems solving complex problems in specific domains

[AI History: the 1980s and expert systems](#)

1997: DEEP BLUE DEFEATS GARRY KASPAROV

IBM's Deep Blue defeats the world chess champion.

[Deep Blue versus Garry Kasparov - Wikipedia](#)

2011: WATSON WINS JEOPARDY

IBM's Watson AI wins against top human contestants on Jeopardy.

[IBM Watson: The inside story of how the Jeopardy-winning supercomputer was born](#)

2014: RISE OF MACHINE LEARNING

Significant advancements in machine learning algorithms

[Rise of Machine Learning](#)

2016: ALPHAGO BEATS LEE SEDOL

Google's AlphaGo defeats the world champion in Go.

[AlphaGo Beats Lee Sedol](#)

2020: GPT-3 LAUNCH

Introduction of Open AI's GPT-3, showcasing natural language processing prowess.

[GPT-3 Launch](#)

2024: THE AI REVOLUTION CONTINUES

AI's integration into everyday life, driving innovation across industries with diverse AI applications in healthcare, robotics, and more

[The AI Revolution Continues](#)

About Our Sponsors



Maximum Group specializes in Mega Project development, seamlessly merging advanced cloud technologies with traditional brick-and-mortar infrastructures. Their projects drive innovation across sectors, enhancing efficiency, sustainability, and scalability through smart cities, digital platforms, and future-ready infrastructure, transforming industries with integrated digital and physical solutions.



Maximum Group Digital specializes in delivering cutting-edge solutions across diverse sectors, including cybersecurity, fintech, agritech, and education technologies. Their innovative platforms drive digital transformation, enhancing efficiency and sustainability, while offering advanced cloud services, AI-driven data management, and secure digital payment systems.



IntoLead specializes in leadership development, offering customized coaching, consulting, and training programs that empower individuals and organizations to thrive. Their expertise focuses on enhancing leadership skills, fostering innovation, and building resilient teams, all while driving sustainable growth and organizational transformation through tailored strategies and insights.



Headai

Headai specializes in AI-driven knowledge and skill mapping, providing smart analytics and data visualization for workforce development. Their solutions empower businesses and educational institutions by unlocking insights into skills demand, enabling data-based decision-making to bridge the gap between talent and future job markets.



EduExcellence provides world-class Finnish education solutions, specializing in customized training and capacity-building programs. They partner with governments, institutions, and organizations globally to deliver innovative, research-driven approaches that improve education systems, enhance learning outcomes, and foster sustainable development in various educational environments.

About Our Sponsors



Meshworks Wireless specializes in providing innovative wireless communication solutions, focusing on advanced mesh networking technology. Their offerings enhance connectivity and network reliability in challenging environments, enabling seamless communication for industries such as agriculture, logistics, and smart cities, while improving operational efficiency and data transmission capabilities.



Deep Lead specializes in leveraging AI-driven solutions to enhance sales and marketing strategies. Their innovative platform provides deep insights into customer behavior and market trends, empowering businesses to optimize lead generation, improve engagement, and drive conversions through data-driven decision-making and targeted outreach initiatives.



Sandvik specializes in advanced materials and cutting-edge engineering solutions, delivering innovative products and services across mining, construction, and manufacturing sectors. With a focus on sustainability and efficiency, they provide high-performance tools, equipment, and digital solutions that drive productivity and enhance operational safety globally.



Visintum specializes in innovative visual solutions and digital services, offering expertise in design, branding, and communication strategies. Their comprehensive approach enhances client engagement and storytelling, enabling organizations to effectively connect with their audiences through impactful visual experiences and tailored digital platforms for sustainable growth.



The Finnish Water Forum focuses on promoting sustainable water management and innovative solutions within the water sector. They facilitate collaboration among stakeholders, share expertise, and drive research initiatives, aiming to enhance water resource management, improve water quality, and support sustainable practices in Finland and globally.

About Our Sponsors



Wednesday, 23 Oct 2024



The University of Helsinki is a leading research institution dedicated to advancing knowledge and education across various disciplines. With a strong emphasis on interdisciplinary collaboration, they offer innovative programs and initiatives that foster critical thinking, creativity, and sustainability, preparing students for global challenges in a rapidly changing world.



Business Finland supports Finnish companies in achieving growth and internationalization through funding, expertise, and networking opportunities. They provide tailored services to foster innovation, enhance competitiveness, and facilitate access to global markets, driving sustainable development and economic success for businesses across diverse sectors.



Rand Water is a leading water utility in South Africa, dedicated to providing high-quality bulk water supply and wastewater treatment services. Committed to sustainability and innovation, they focus on ensuring water security, improving infrastructure, and promoting responsible water use to support communities and economic development.



The University of Johannesburg (UJ) is a dynamic institution committed to academic excellence, research innovation, and community engagement. Offering diverse programs across various fields, UJ fosters critical thinking and creativity, empowering students to thrive in a rapidly changing world and contribute to societal development.



The University of Pretoria (UP) is a premier research institution in South Africa, dedicated to fostering academic excellence and innovation. With a wide range of programs, UP emphasizes interdisciplinary collaboration, global engagement, and community service, preparing students to make impactful contributions to society and address global challenges.

About Our Sponsors



Tshwane University of Technology (TUT) is a leading higher education institution in South Africa, focusing on innovation and practical learning. Offering diverse programs across various fields, TUT promotes student-centered education, research, and community engagement, preparing graduates for successful careers and contributing to societal development.



**Be the Change: Partner with
DAIA to Revolutionize
Education!**

Join us in our mission to empower learners and educators across Africa through innovative digital solutions. Together, we can transform the educational landscape and create lasting impact. Reach out today to explore partnership opportunities and make a difference!

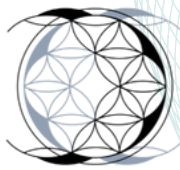


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