

AI BY & FOR ALL

FAIR Forward
Replication Kit



**Replication
part (5):
Key actions of
FAIR Forward
with links to key
information**



Implemented by:

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

FAIR FORWARD

Artificial Intelligence for all.

TABLE OF CONTENTS



01

3

GLOBAL ACTION

Global Action on “Improving access to training data and open source AI technologies for local innovation”	3
Global Action on “Developing policy frameworks for responsible AI”	5
Global Action on “Strengthening local technical know-how on AI in Africa and Asia”	7

02

8

COUNTRY ACTION

Ghana - Key Action	8
India - Key Action	9
Indonesia - Key Action	13
Kenya - Key Action	15
Rwanda - Key Action	17
South Africa - Key Action	19
Uganda - Key Action	20

ABOUT THE REPLICATION KIT

The FAIR Forward **Replication Kit** brings together the initiative’s key experiences and proven methods in the areas of open-source and locally anchored AI, capacity building and responsible AI governance from 2019 to 2026. Designed specifically for practitioners, learners, organisations, institutions and governments, it contains lessons learned, methodologies, playbooks, studies, open-source datasets, AI models and implementation guidance, which can be adapted and replicated in different contexts.

The replication kit contains the following:

- Replication part (1): Five FAIR Forward products for institutions, governments and development partners & replication kit for AI practitioners
- Replication part (2): Lessons learned
- Replication part (3): Playbooks, handbooks and studies
- Replication part (4): Catalog of open-source datasets, AI models and AI systems
- **Replication part (5): Key actions of FAIR Forward with links to key information - [THIS DOCUMENT]**

Get access to the full replication kit at:
<https://www.bmz-digital.global/en/overview-of-initiatives/fair-forward/#replicationkit>

Global Action on “Improving access to training data and open source AI technologies for local innovation”

Key Action	More info	Contact person / managers of action (not provider of AI)	Area:
Lacuna-Fund: Creating key Datasets in Climate & AI and Energy & AI	Saving forests with the help of algorithms and data BMZ Digital.Global and Fair Forward – Catalog of AI Open-Source Datasets, Models and AI Systems (Collection of datasets, Lacuna, all)	Jonas Nothnagel, Ruth Schmidt	ML4EO
Lacuna Fund: Creating key Datasets in Natural language Processing and Agriculture	Fair Forward - Open Data & Use Cases (Collection of datasets, Lacuna, Inclusion through NLP, SDG 10)	Jonas Nothnagel, Balthas Seibold	NLP
Mentorship for African AI entrepreneurs on open source Business Models / financing models	Code for community: Open source AI sparks business and impact BMZ Digital.Global and Creating sustainable business and funding models with open source AI . A Mentorship Toolkit for start-up support organizations	Daniel Brumund, Jonas Gramse	
Compute Support to African Innovators and Consultancy on NLP - German Research Centre for Artificial Intelligence (DFKI)		Jonas Nothnagel, Balthas Seibold	NLP
Mobilizing communities to engage with language data collection - Translators without Borders	Language AI for social impact - a Playbook on how to use language technology for community engagement .	Daniel Brumund, Jonas Nothnagel	NLP
Supporting the regional AI Network "Masakhane" on governance models		Deshni Govender, Daniel Brumund	NLP

Our language, our data: Co-creating equitable governance models with African language communities - Mozilla	Community-Centered Data Ownership and Governance: An Ethical Framework for Creating Speech Datasets in Under-Represented Languages (draft) and NOODL. An experiment in equitable data licensing : promise and limits	Daniel Brumund, Deshni Govender	NLP
The Innovate Africa Challenge AI for Climate Action - regional innovation programme for start-ups - Smart Africa	Innovate Africa Challenge: AI for climate action BMZ Digital.Global and Dataset of winning team: “ Imarika - Translating weather information into actionable advisory for farmers through AI in Kenya ”	Golo Rademacher, Luisa Hernandez Olaya	ML4EO
Open For Good Alliance – Raising awareness and sharing lessons learned on open source AI globally	Inclusive AI Alliance - Open for Good Alliance and Open for Good Alliance Blog - on Medium	Balthas Seibold, Mariana Gonzalez Carrillo	
FAIR Forward - Catalog of Open Source AI Datasets, Models & AI Systems & the Lacuna-Fund dataset repository: Showcasing all datasets, AI models & Use Cases and how to replicate them	FAIR Forward Repository: FAIR Forward - Catalog of Open Source AI Datasets, Models & AI Systems Lacuna-Fund dataset repository: Lacuna-Fund - Open Data & Use Cases	Jonas Nothnagel, Balthas Seibold	
How to Build AI Chatbots for Public Service Delivery – Guidelines	„Hi, how may I assist you?“ - Chatbots for Better Service Delivery . Practical Guide, Applications and Principles in Development Cooperation	Daniel Brumund	NLP

Global Action on “Developing policy frameworks for responsible AI”

Key Action	More info	Contact Persons
Responsible AI Assessments – Developing, applying and sustaining a tool to identify and assess potential harms and biases with a focus on Sub-Saharan Africa and Asia & FAIR Forward Principles for the Use of AI in Projects	Ethical crash test for AI? How to navigate the road to responsible innovation BMZ Digital.Global And Assessment files (including version that can be edited for updates / replication)	Nadine Dammaschk, Deshni Govender, Jonas Gramse, Daniel Brumund
The “Africa-Asia AI Policymaker Network” – fostering a support network and collective voice for African and Asian policymakers	Intelligent technology meets smart politics BMZ Digital.Global and A collective voice for responsible and open AI: AfricAI & the Africa-Asia AI Policymaker Network BMZ Digital.Global and India AI Impact Summit 2026 BMZ Digital.Global and South-South Cooperation driving inclusive development at AI Impact Summit India BMZ Digital.Global And The AI Policy Playbook – Navigating AI policy development through and African and Asian lens	Nadine, Dammaschk, Luisa Olaya, Kathleen Ziemann, Aishwarya Salvi, Bhavika Nanawati, Deshni Govender, Elikplim Sabblah, Emmanuel Emurugat, Florence Kinyua, Ivan Mukiibi, Jocelyne Mukamisha, Karlina Octaviany, Mark Irura, Mary Afram
South–South Cooperation in AI Policymaking at the India AI Impact Summit 2026 (workshop and panel of the ‘Africa-Asia AI Policymaker Network’)	South-South Cooperation driving inclusive development at AI Impact Summit India BMZ Digital.Global	Luisa Olaya Hernandez, Mariana Gonzalez Carrillo
AfricAI Conference 2023: promoting a pan-African exchange between policy makers and practitioners on responsible, open source AI - FAIR Forward with IDRC	A collective voice for responsible and open AI: AfricAI & the Africa-Asia AI Policymaker Network BMZ Digital.Global	Jonas Gramse, Daniel Brumund
The AI Policy Playbook - helping policymakers navigate AI policy development through an African and Asian lens	Local answers to global AI challenges: The ‘AI Policy Playbook’ BMZ Digital.Global and AI Policy Playbook	Deshni Govender, Nadine Dammaschk, Golo Rademacher
The Impact & replication report of FAIR Forward & four AI standard products - Sharing Lessons Learned and	Get access the full impact report at: https://www.bmz-digital.global/en/overview-of-initiatives/fair-forward/#impact	Luisa Olaya Hernandez, Kathleen Ziemann,

making replication easier	Get access to the full replication kit at: https://www.bmz-digital.global/en/overview-of-initiatives/fair-forward/#replicationkit	Christian Merz, Balthas Seibold
---------------------------	---	---------------------------------

Global Action on “Strengthening local technical know-how on AI in Africa and Asia”

Key Action	More info	Contact Persons
The FAIR Forward learning portal on Atingi: Creating and curating 40+ free online courses / e-learning on topics such as “Open Source AI”, “What’s AI”, “AI Ethics”, “AI for Policymakers and Lawyers”, “Let’s Start Coding!”	1) All FAIR Forward-curated AI courses on Atingi 2) All AI courses ready for reuse on Atingi 3) The Replication Kit for the Artificial Intelligent for All Series of Courses on Open and un-biased AI Training Data · GitHub	Luisa Olaya, Philipp Olbrich
“AI and Data Science Bootcamp for Women” - A Global Massive Open Online Course (Bootcamp Global Edition – e-learning, course conversion)	AI meets Ubuntu - The AI and Data Science Bootcamp for Women and Minorities BMZ Digital.Global AI and Data Science Bootcamp Impact report - Impact report on scaling a curated training across South Africa, Ghana and Rwanda “AI and Data Science Bootcamp!” e-learning courses on Atingi	Deshni Govender, Luisa Olaya

Country Action

02

Ghana - Key Action

Key Action	More Info	Contact Persons	Technical Domain
Supporting the development of the “ Responsible AI Lab ” at Kwame Nkrumah University of Science and Technology (KNUST)	Ghana's RAIL lab: Where AI talent grows BMZ Digital.Global	Elikplim Sabblah Mary Seiwah Afram	
The African Biomass Challenge with Open Cocoa Data - Combating deforestation in West Africa through AI	Detecting forest degradation by predicting biomass in cocoa plantations in Cote d'Ivoire (dataset /AI model/use case)	Ruth Schmidt Elikplim Sabblah	ML4EO
AI-powered detection of diseases for Cashew farmers in Ghana - ML4Cashew & CADI AI with MOVE Ghana	AI-powered detection of diseases for Cashew farmers in Ghana (dataset /AI model/use case)	Mary Seiwah Afram Elikplim Sabblah	ML4EO
Crop disease identification for maize, tomatoes, pepper in Ghana - Supporting food security and climate change adaptation	Supporting food security and climate change adaptation: AI-powered crop disease identification for maize, tomatoes, pepper in Ghana (dataset /AI model/use case)	Elikplim Sabblah Mary Seiwah Afram	ML4EO
Using language AI to support female entrepreneurs in Peri-urban communities Ghana – scoping		Elikplim Sabblah Mary Seiwah Afram	NLP
Supporting the development of the National AI strategy of Ghana and follow-up	From vision to guidance: Ghana leads on ethical AI practice BMZ Digital.Global Ghana AI Strategy 2025-2035 (also here)	Elikplim Sabblah Mary Seiwah Afram	
Building the Ghana AI Practitioners Guide: an inclusive framework for responsible AI governance	From vision to guidance: Ghana leads on ethical AI practice BMZ Digital.Global	Elikplim Sabblah Mary Seiwah Afram	

	The Ghana AI Practitioners' Guide		
Supporting the Indaba X Conference Ghana in 2024 – building pan-African networks and AI ecosystems	Social Media Post	Elikplim Sabblah	
Deep Learning Indaba conference 2023 in Accra– Supporting Ghanaian and pan-African building of AI capacities		Elikplim Sabblah Nadine Dammaschk	
Capacity building on AI for Parliamentarians and the Data Protection Commission of Ghana		Elikplim Sabblah Mary Seiwah Afram	
AI Fellowship Programme for Women in Ghana – empowering women and minoritised groups through an AI training and internship programme (Bootcamp Ghana Edition)	New skill unlocked: AI Bootcamp turns barriers into careers BMZ Digital.Global and Report on Closing of 2024 Fellowship in Ghana	Mary Seiwah Afram Luisa Hernandez Olaya	

India – Key Action

Key Action	More Info	Contact Persons	Technical Domain
Data-driven decision-making for farmers to increase climate resilience in India - Digital Green	Data-driven decision-making for farmers to increase climate resilience in India (dataset /AI model/use case)	Philipp Olbrich Vikram Kumar	ML4EO
Open source AI Pest Control for smallholder Cotton Farmers in India - Wadhvani AI	Open source AI Pest Control for smallholder Cotton Farmers in India (dataset /AI model/use case)	Philipp Olbrich Vikram Kumar	ML4EO

Making AI speak 9 Indian languages: Hindi, Bengali, Marathi, Telugu, Bhojpuri, Kannada, Magadhi, Chhattisgarhi, Maithili (Open source text-to-speech models and use cases) – Indian Institute of Science IISc	Loud and clear: Open source for India's linguistic diversity BMZ Digital.Global and Learning with India: AI language assistants for digital inclusion GIZ and Making AI speak 9 Indian languages (dataset /AI model/use case)	Philipp Olbrich Vikram Kumar	NLP
Making the Indian voice datasets more sustainable: Hackathon with Bhashini on voice data for climate & sustainable agriculture	Voice Tech for All: Building Inclusive Speech AI for India with different accents and speaking styles (dataset /AI model/use case)	Philipp Olbrich Aishwarya Salvi	NLP
Improving soil health and supporting climate-resilient, regenerative agriculture practices in Telangana - GeoAI for Soil Conservation	Open Soil Data to improve soil health and support climate-resilient, regenerative agricultural practices in Telangana - GeoAI for Soil Conservation (dataset / AI model / use case)	Jonas Nothnagel Aishwarya Salvi Bhavika Nanawati	ML4EO
Predicting Crop Health using open source geospatial data in Telangana/India	Predicting Crop Health using open source geospatial data in Telangana/India (dataset /AI model/use case)	Bhavika Nanawati Jonas Nothnagel	ML4EO
Providing better information on sexual and reproductive health and rights of young people through the Kahi Ankahi Baatein Infoline: Hindi LLM finetuning - Gramvaani	Providing better information on sexual and reproductive health and rights of young people through the Kahi Ankahi Baatein infoline (Hindi LLM finetuning) (dataset /AI model/use case)	Jonas Nothnagel Philipp Olbrich	NLP

Hyperlocal Mapping of Air Pollution and Green House Gases Emissions in India – UNDP	From Community to Data: Citizen Scientists are Improving Air Quality in India's Cities BMZ Digital.Global And dataset at: Combatting Air Pollution and GHG Emissions in India through hyperlocal AI-powered mapping	Jonas Nothnagel Aishwarya Salvi	ML4EO
Enhancing Forest Monitoring through AI & Satellite Data in India - Forest Forward	Forest Forward: Using artificial intelligence to help Goa's forests thrive BMZ Digital.Global and Forest Forward II: Using AI to map carbon in forests using High Carbon Stock Approach and assess fire vulnerability of forests to Combat Climate Change and Protect Livelihoods in India (dataset /AI model/use case)	Aishwarya Salvi Jonas Nothnagel	ML4EO
Developing a concept on voice-based chatbots with the Microfinance Industry network of India		Jonas Nothnagel, Gaurav Sharma	NLP
Empowering Women across India with audio messages in their native languages on Health, Sustainable Agriculture and Education – Bashini and Audiopedia	Knowledge is key: Voice tech empowers women in India BMZ Digital.Global and Empowering Women across India with audio messages in their native languages on Health, Sustainable Agriculture and Education (dataset/model/use case)	Aishwarya Salvi Philipp Olbrich	NLP
Synergies and Partnerships in India and Kenya with Gates-funded “Agriculture Information Exchange Platform” -Providing farmers in Kenya and Bihar, India with high-quality, personalized information through AI and developing blueprints for AI-powered Agriculture Information Exchange Platforms	From waiting weeks to instant answers: How AI is transforming farming advice BMZ Digital.Global and From hotline to harvest: Advice that speaks your language BMZ Digital.Global	Vikram Kumar Florence Kinyua Christian Merz	NLP

Developing Practical Guidelines for the Responsible Development of AI in India: Update of Data Protection Handbook for AI Practitioners India	Handbook on Data Protection and Privacy for Developers of Artificial Intelligence in India (2026)	Aishwarya Salvi Bhavika Nanawati Philipp Olbrich	
Responsible AI for Voice Technologies with Bhashini	Building an Open and Responsible Voice Technology Ecosystem: A Policy Framework for Digital Inclusion in India and Developers' Toolkit: Indic Voice Technologies for an Inclusive Digital India	Aishwarya Salvi Philipp Olbrich Bhavika Nanawati	
Policy Brief on Open Source AI and Digital Public Goods - India	Advancing Open Source AI in India . Recommendations for Governments and Technology Developers	Philipp Olbrich Aishwarya Salvi Bhavika Nanawati	
India AI Impact Summit 2026: Advancing policy dialogues around Open source AI for Inclusive Economic Development in India, inclusive Language AI in Indian Languages, Civil Society Dialogue and more	'No one can do it alone' – Bärbel Kofler on sustainable AI in India BMZ Digital.Global And India AI Impact Summit 2026 BMZ Digital.Global	Bhavika Nanawati Aishwarya Salvi Philipp Olbrich	
AI Procurement Guidelines: How to procure responsible AI - supporting Telangana State & National Procurement	AI Procurement Guidelines: How to procure responsible AI (to be published in Q4-2026)	Philipp Olbrich Bhavika Nanawati Aishwarya Salvi	
Strategic agenda for Climate Change & AI with NITI Aayog		Philipp Olbrich Bhavika Nanawati	
AI Training Workshop for Government of Bihar		Vikram Kumar	

		Philipp Olbrich	
Dialogue on “Open source AI: Opportunities, Challenges, and Governance” at the Telangana Global AI Summit	Telangana Global AI Summit BMZ Digital.Global	Aishwarya Salvi	

Indonesia – Key Action

Key Action	More Info	Contact Persons	Technical Domain
High Carbon Stock Approach: Mapping Forests to Combat Climate Change and Protect Livelihoods in Indonesia	High Carbon Stock Approach: Mapping Forests to Combat Climate Change and Protect Livelihoods in Indonesia BMZ Digital.Global And AI meets Jungle: How Artificial Intelligence is saving Indonesia's forests BMZ Digital.Global and High Carbon Stock Approach: Datasets (dataset /AI model/use case)	Karlina Octaviany Ruth Schmidt	ML4EO
Building inclusive voice technologies in the 3 Indonesian Languages Balinese, Bugis and Minangkabau through open language datasets	Discover Indonesia's linguistic diversity: FAIR Forward and Prosa.ai on the road to inclusive AI technology BMZ Digital.Global And: Building inclusive voice technologies in the 3 Indonesian Languages Balinese, Bugis and Minangkabau through open language datasets (dataset /AI model/use case)	Karlina Octaviany Ruth Schmidt Daniel Brumund	
Combatting Climate Disinformation in Indonesian languages with AI: the Faktalklim chatbot – with Prosa.ai	Data vs. disinformation: Chatbot Faktalklim tackles climate myths BMZ Digital.Global and Combatting Climate Disinformation in Indonesian languages	Karlina Octaviany	NLP

	with AI (dataset /AI model/use case)	Ruth Schmidt	
Empowering coastal inhabitants in Indonesia: leveraging AI , community-based approaches and local Weather measurements for enhanced climate adaptation and a thriving “blue economy”	Saving lives per click: AI protects coastal inhabitants in Indonesia BMZ Digital.Global And Empowering coastal inhabitants in Indonesia: leveraging AI, community-based approaches and local Weather measurements for enhanced climate adaptation and a thriving “blue economy” (dataset /AI model/use case)	Karlina Octaviany Ruth Schmidt	ML4EO
Knowledge Exchange between AI Policymakers from Indonesia and India on implementation of Ethical AI, Policy frameworks and Collaboration (online event)	--	Karlina Octaviany	
Supporting the Input of Civil Society to the draft of the Indonesian President’s Regulation of Ethical AI (discussion series)	--	Karlina Octaviany	
Integrating Lessons Learned of FAIR Forward Indonesia into UNESCO’s policy work (“AI for Environment and Ecosystems” Dialogue and Toolkit and RAM revision	UNESCO’s reporting on sub-group AI, Environment and Ecosystems	Karlina Octaviany	
Advancing the discussion on Public Interest AI Governance in Southeast Asia and Inclusion of Civil Society at 'Digital Rights in Asia-Pacific 2025' conference	Report: DRAPAC25: Multi-stakeholder Discussion for the Development of Public Interest AI Governance in Southeast Asia	Karlina Octaviany	
Digital Dialogues event on AI (synergies)	--	Karlina Octaviany	
Policy Maker Training and Handbook for Ethical AI in Indonesia (AAPoMaNet training)	The future is thinking along: Indonesia's AI Turnaround BMZ Digital.Global And Handbook for AI Training for Policy-Makers Indonesia (English)	Karlina Octaviany	

	and Buku Panduan Pelatihan Kecerdasan Artifisial (KA) untuk Pemangku Kebijakan And online course at: AIPolicymakers atingi	Luisa Hernandez Olaya	
--	--	-----------------------	--

Kenya - Key Action

Key Action	More Info	Contact Persons	Technical Domain
Early Warning System: Advisory services on climate-smart farming for small-holder farmers in Kenya - Local Development Research Institute (LDRI)	Smart sowing: AI for more harvest in Kenya and Uganda BMZ Digital.Global Early Warning System: Advisory services on climate-smart farming for small-holder farmers (dataset /AI model/use case)	Florence Kinyua, Ruth Schmidt, Daniel Brumund	ML4EO
Hello, government - better citizen services in Kenya through "AI Chatbots" as a replicable open source building block – with GovStack Initiative	Hello, government - better citizen services in Kenya through "AI Chatbots" as a replicable open source building block (dataset /AI model/use case)	Emmanuel Emurugat Daniel Brumund	NLP
Citizen chatbot of the Kenyan Office of the Data Protection Commissioner (ODPC)	Citizen chatbot of the Kenyan Office of the Data Protection Commissioner (dataset /AI model/use case)	Mark Irura Gachara	NLP
Supporting communities that sustain voice AI in 3 East African languages: Kiswahili, Kinyarwanda and Luganda - Open source text-to-speech datasets – follow-up to Mozilla Common Voice / Mozilla Swahili grantees	Community Datasets based on Mozilla Common Voice in Kiswahili and other Kenyan languages. (multiple datasets /AI model/use case) and	Mark Irura Gachara Daniel Brumund	NLP

	Information by Mozilla on the support (via web archive).		
Building a Kenya Language Corpus incl. governance model	News on the governance model and the DSpace Repositorium of the corpus	Florence Kinyua Mariana Gonzalez Carrillo	NLP
Synergies and Partnerships in India and Kenya with Gates-funded “Agriculture Information Exchange Platform” -Providing farmers in Kenya and Bihar, India with high-quality, personalized information through AI and developing blueprints for AI-powered Agriculture Information Exchange Platforms	From waiting weeks to instant answers: How AI is transforming farming advice BMZ Digital.Global and From hotline to harvest: Advice that speaks your language BMZ Digital.Global	Vikram Kumar Florence Kinyua Christian Merz	NLP
Artificial Intelligence Practitioners’ Guide: Kenya – with the Global Partnership for Sustainable Development Data	Artificial Intelligence Practitioners’ Guide: Kenya (2023)	Mark Irura Gachara Jonas Gramse	
Supporting Kenya's National AI Strategy – also through the Digital Transformation Centre	Poised to be an AI powerhouse: Kenya launches its National AI Strategy BMZ Digital.Global And Kenya AI Strategy 2025	Emmanuel Emurugat Mariana Gonzalez Carrillo	
AI Capacity building in Kenya for policy makers, entrepreneurs and other Stakeholders	See online courses: Managing and evaluating AI projects atingi AI M model reusability atingi AI and Transfer Learning atingi	Mark Irura Gachara	
Data Science Africa 2024 - Supporting Pan African learning networks on AI (Panel and Data Science Summer School at Dedan Kimathi University of Technology in Nyeri, Kenya)		Mark Irura Gachara Daniel Brumund	NLP

Rwanda – Key Action

Key Action	More Info	Contact Persons	Technical Domain
Better Advise to farmers in Rwanda on pest diagnosis and climate-resilient practices through an Agricultural chatbot	Tunga Agricultural Voicebot - Agricultural Advise for Farmers in Kinyarwanda	Isaac Manzi Florian Sabary Jan Nehring	NLP
Solutions from space: Rwanda's smart harvest planning - mapping crop type with AI for rice, maize, Irish potatoes and beans	Solutions from space: Rwanda's smart harvest planning BMZ Digital.Global and Solutions from space: Rwanda's smart harvest planning - mapping crop type with AI for rice, maize, Irish potatoes and beans (dataset /AI model/use case)	Golo Rademacher Jocelyne Mukamisha	ML4EO
Mbaza / Chabo as Digital Public Infrastructure for society-wide communication: Governance and Use Cases Rwanda	[Output of Mbaza / Chabo as DPI will follow End of June] and Mbaza Chatbot Rwanda for health related inquiries by citizens (first use case, dataset /AI model/use case)	Florian Sabary Isaac Manzi	NLP
Large scale collection of voice data in Kinyarwanda to allow the building of inclusive language technology via common voice (community building, sustainability)	A large scale collection of voice data in Kinyarwanda to allow the building of inclusive language technology and Making AI understand 3 East African languages: Kiswahili, Kinyarwanda and Luganda - Open source text-to-speech datasets - Mozilla Common Voice (dataset /AI model/use case)	Isaac Manzi	NLP
Better language translation for more training content in Kinyarwanda - education-specific machine translation for the Moodle Learning Management System (via atingi, support by FF)	Better language translation for more training content in Kinyarwanda - education-specific machine translation for the Moodle Learning Management System (dataset /AI model/use case)	Isaac Manzi	NLP

Landslide and flood disaster hotspot monitoring using computer vision in Rwanda (via DGI, preparation FF)	Landslide and flood disaster hotspot monitoring using computer vision in Rwanda (dataset /AI model/use case)	Golo Rademacher Nadine Cyizere Bisanukuli	
Integrating AI into film post-production: economic empowerment through localization e.g. subtitles in Kinyarwanda	Rwanda Media Voice Bridge - AI-powered voice transcription and translation solution for Rwanda's film and media industry (dataset /AI model/use case)	Florian Sabary Isaac Manzi	NLP
Assessment study on AI4Weather in Rwanda (meteorological now- and forecast data in Rwanda)		Golo Rademacher	ML4EO
Awareness raising campaign for Rwanda's National AI policy		Kelia Mugenzi Teta Kim Sophie Schulte	
AI Programme for Women in Rwanda – empowering women through an AI training and internship programme (Bootcamp Rwanda Edition)	AI meets Ubuntu BMZ Digital.Global	Jocelyne Mukamisha Jiayu Yang	
IndabaX Rwanda 2024 - Supporting Rwandan and pan-African building of AI capacities	Programme of IndabaX Rwanda 2024	Kelia Mugenzi Teta Mary Seiwah Afram	
AI Meetups: fostering AI communities of practice in Rwanda	---	Kelia Mugenzi Teta Jiayu Yang	

International Conference on Learning Representations (ICLR) 2023 in Kigali – AI learning networks	Programme schedule of ICLR 2023 in Kigali, Rwanda	Kelia Mugenzi Teta	
		Isaac Manzi	

South Africa – Key Action

Key Action	More Info	Contact Persons	Technical Domain
Voices of Mzansi - Making all official languages of South Africa AI-ready: translating the Common-Voice interface & enabling Open source text-to-speech dataset collection – with the South African Digital Language Resources (SADILAR) and Mozilla Common Voice	Voices of Mzansi - Making all official languages of South Africa AI-ready (dataset /AI model/use case) And Description of methodology: “Localising the Mozilla Common Voice platform for South Africa’s official languages”	Deshni Govender Daniel Brumund	NLP
How ‘Open Data Licences’ can be used by (South) African innovators to democratize AI (workshops, reports, guidelines)		Deshni Govender Mark Irura Gachara	
The AI Maturity Assessment Framework (AI MAF) - South Africa’s readiness for AI integration	South Africa’s readiness for AI integration: Launch of the first Annual AI Maturity Assessment	Deshni Govender Luisa Hernandez Olaya	
AI and Data Science Bootcamp for Women South Africa (Bootcamp South Africa Edition)	AI & Data Science Bootcamp for Women in South Africa Launched BMZ Digital.Global And AI meets Ubuntu - The AI and Data Science Bootcamp for Women and Minorities in South Africa BMZ Digital.Global	Deshni Govender Luisa Olaya	

Using AI & Machine Learning for Precision Agriculture (ML4EO) Training Program for practitioners in the field of Earth Observation in South Africa	Using AI & Machine Learning for Precision Agriculture in South Africa BMZ Digital.Global	Deshni Govender Ruth Schmidt	
Supporting public discourse and knowledge exchange on AI (on development of AI Policy for South Africa, Multistakeholder AI MAF Workshops)	-	Deshni Govender	
Open-Source at ITU – AI for Good & SA networking events	-	Deshni Govender Luisa Olaya	

Uganda - Key Action

Key Action	More Info	Contact Persons	Technical Doamin
Croppie- helping smallholder coffee producers in Uganda to plan sales, estimate yields, get loans, and trace coffee - AI powered coffee yield prediction	AI in coffee: Intelligent and awake BMZ Digital.Global and Croppie- helping smallholder coffee producers to plan sales, estimate yields, get loans, and trace coffee - AI powered coffee yield prediction	Ivan Mukiibi Kathleen Ziemann	ML4EO
Estimating Solar Irradiance for Improved Solar Energy Planning in Uganda and in Sub-Saharan Africa through AI	Estimating Solar Irradiance for Improved Solar Energy Planning in Sub-Saharan Africa through AI (dataset /AI model/use case)	Jonas Nothnagel Ivan Mukiibi	ML4EO
Finding good spots for decentralized green energy grids in Uganda - AI based site identification for MiniGrids (Scaling)	Finding good spots for decentralized green energy grids in Uganda - AI based site identification for MiniGrids (dataset /AI model/use case) and Lighting Lamwo with FAIR Forward – How open data and AI	Jonas Nothnagel Ivan Mukiibi	ML4EO

	help to find the best energy sources for villages in Uganda BMZ Digital.Global		
AI as a helping hand to understand audit reports - A conversational chatbot answering questions related to audit reports of the Auditor General Office of Uganda (contributions)	AI as a helping hand to understand audit reports - A conversational chatbot answering questions related to audit reports of the Auditor General Office of Uganda (dataset /AI model/use case)	Jonas Nothnagel Ivan Mukiibi	NLP
AI Skills programme Uganda: equipping AI practitioners with technical knowledge, ethical frameworks and practical experience		Ivan Mukiibi Nadine Dammaschk	
AI and Data Science Bootcamp for Women+ in Uganda (Bootcamp Uganda Edition)	New skill unlocked: AI Bootcamp turns barriers into careers BMZ Digital.Global	Ivan Mukiibi Luisa Hernandez Olaya	
AI Meetups in Uganda in cooperation with Data Science Africa - fostering AI communities of practice	---	Ivan Mukiibi Namritha Murali	
Training and Ideation of AI-projects with government entities: Artificial Intelligence, Machine Learning, Data Analytics, and Energy-Sector Applications		Ivan Mukiibi Mariana Gonzalez Carrillo	

Published by:

Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH

Registered offices
Bonn and Eschborn, Germany

Global programme Digital Transformation
FAIR Forward – Artificial Intelligence for All
Friedrich-Ebert-Allee 32 + 36
53113 Bonn, Germany
T +49 228 44 60-0
F +49 228 44 60-17 66
E fairforward@giz.de
I www.giz.de

The program Digital Transformation and the Initiative FAIR Forward is
implemented by GIZ on behalf of the German Federal Ministry for
Economic Cooperation and Development (BMZ)

Responsible

Balthas Seibold, Christian Merz, Kathleen Ziemann, GIZ FAIR Forward
– Artificial Intelligence for All

Editors and authors

FAIR Forward:
Abeera Dubey, Aishwarya Salvi, Balthas Seibold, Bhavika Nanawati,
Christian Merz, Daniel Brumund, Deshni Govender, Elikplim Sabblah,
Emmanuel Emurugat, Florence Kinyua, Florian Sabary, Golo
Rademacher, Isaac Manzi, Ivan Mukiibi, Jocelyne Mukamisha, Jonas
Gramse, Jonas Nothnagel, Jutta Schueren, Karolina Octaviany, Kathleen
Ziemann, Luisa Olaya, Mariana Carrillo, Mark Irura, Mary Afram, Nadine
Dammaschk, Philipp Olbrich, Ruth Schmidt

Online Access

You can access the full impact report and all parts of the replication kit at:
<https://www.bmz-digital.global/en/overview-of-initiatives/fair-forward/#impact>

Copyright information

Copyright 2026 by GIZ FAIR Forward – the replication kit is licenced and
available in Open Access under the Attribution-ShareAlike 4.0 International
license CC BY-SA 4.0 DEED.

Attribution

You must give appropriate credit, provide a link to the license, and indicate
if changes were made.

Share-alike

If you remix, transform, or build upon the material, you must distribute your
contributions under the same license as the original. Any derivative work
should include the following visible disclaimer "The present work is not an
official GIZ publication and shall not be considered as such."

Citation

Please cite as follows: Deutsche Gesellschaft für Internationale
Zusammenarbeit (GIZ) - FAIR Forward (2026). FAIR Forward Impact
Report and Replication Kit: AI by and for All. Licensed under CC BY-SA 4.0
DEED.

Disclaimers

For notes on logo use on derivative works, disclaimer, external links and
maps, please see page 4 of main report.