

AI BY & FOR ALL

FAIR Forward
Replication Kit



**Replication part
(4): Catalog of
Open Source
Datasets, AI
models and AI
systems**



Implemented by:

imbH

giz

Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

FAIR FORWARD

Artificial Intelligence for all.

About the Catalog

FAIR Forward, through its partners, has supported the creation of globally reusable 'AI building blocks for global challenges across agriculture, language technology, climate action, energy, and more. These datasets, open-source AI models and corresponding documentation work locally and can be shared, adapted and further developed across regions as a digital public good.

In the following you find a listing of the local open-source datasets and open-source local AI models ready for replication and building new AI on these foundations.

For the full catalog, see online at:

[Fair Forward - Catalog of Open Source AI Datasets, Models & AI Systems](#)

For more information on the approach, see main "impact report", page 17ff.

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 - [THIS DOCUMENT]**
- Replication part (5): Key actions of FAIR Forward with links to key information

Get access to the full replication kit at:

<https://www.bmz-digital.global/en/overview-of-initiatives/fair-forward/#replicationkit>

Name & direct link to dataset	Country / Region	Powered by	Catalyzed by	Financed by
African Trees for Climate Resilience: A Comprehensive Database	Angola, DRC, Kenya, Mozambique, Nigeria, South Africa, Tanzania, Zambia	Stellenbosch University	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
BenMangroves2425: Multidimensional open datasets for developing AI-based models on mangroves health and carbon stock	Benin, West Africa	Université d'Abomey-Calavi - Laboratoire de Biomathématiques et d'Estimations Forestières (Benin)	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Powering Rural Futures in West Africa: AI-Driven Demand Data for Smarter Electrification	Benin, Ghana, Niger, Togo, Nigeria	Reiner Lemoine Institut gGmbH (RLI)	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Forest carbon sequestration in the Congo Basin: combining In Situ Data and Artificial Intelligence to unlock climate finance	Cameroon, DRC	World Resources Institute (WRI)	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Datasets for transportation impact evaluation in urban settings in Colombia	Colombia	Fundación Despacio	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Quantifying Colombian mangroves aboveground biomass and carbon content	Colombia	Marine and Coastal Research Institute "José Benito Vives de Andrés" (INVERMAR) Colombia, Centre Tecnològic de Telecomunicacions de Catalunya (CTTC)	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
AI for Mangrove Carbon Credits: Turning Forest Data into Climate Action in Côte d'Ivoire	Cote d'Ivoire	Data354	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Detecting forest degradation by predicting biomass in cocoa plantations in Cote d'Ivoire	Cote d'Ivoire	Data354, Zindi	FAIR Forward - AI for All, GIZ	BMZ
Using local-language AI advise women in DRC on land ownership - Haki des femmes	Democratic Republic of Congo	Core23Lab	Mozilla Foundation & FAIR Forward - AI for All, GIZ	Gates Foundation & BMZ
Ecuadorian Dataset on Access, Demand, & Availability of Electricity Supply	Ecuador	ESPOL University	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Indigenous Knowledge Meets AI: Ethical monitoring of climate stress and biodiversity: sounds of elephants and Katip (Ltome-Katip) in Kenya and the Ecuadorian Amazon	Ecuador, Kenya	Space4Innovation, Namunyak Conservancy, GEO Indigenous Alliance, MUSAP & Rochester Institute for Technology	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Monitoring the impact of palm oil monoculture, shrimp aquaculture & mining in continental Ecuador and the Galapagos using AI	Ecuador	Ecociencia	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
AI-powered detection of diseases for Cashew farmers in Ghana	Ghana	Kara Agro	FAIR Forward - AI for All, GIZ	BMZ
Discover Ghanaian Voices: A Dataset for AI & Linguistic Research in Ghanaian accented English.	Ghana	RAIL - KNUST	FAIR Forward - AI for All, GIZ	BMZ
Enable Cashew, Cocoa and Coffee farmers to make good business decisions - Drone-based Agricultural Dataset for Crop Yield Estimation in Ghana and Uganda	Ghana, Uganda	Kara Agro, Makerere University (AI Lab, Marconi Lab), National Coffee Research Institute, National Crops Resources Research Institute	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Explore the Agrivoltaic Dataset: Dive into real data comparing harvests under solar panels and open-sun farming.	Ghana	Kwame Nkrumah University of Science and Technology (KNUST), Responsible AI Lab	FAIR Forward - AI for All, GIZ	BMZ

Facilitating access to financial applications in informal settings in four Ghanaian dialects: Akuapem Twi, Ashante Twi, Fante and Ga.	Ghana	Ashesi University, Nokwary Technologies	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Mapping Cocoa Landscapes in Ghana: Reference Data for Tracking Land Use Change	Ghana	World Resources Institute (WRI), Centre for Remote Sensing and Geographic Information Services (CERSGIS), NASA SERVIR Global Collaborative, Earth System Science Center	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Phenological Dataset for Ecological Forecasting (PheDEF Project)	Ghana	University of Energy and Natural Resources (Ghana), University of Twente	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Supporting food security and climate change adaptation: AI-powered crop disease identification for maize, tomatoes, pepper in Ghana	Ghana	Kwame Nkrumah University of Science and Technology (KNUST), Responsible AI Lab, Plant Protection and Regulatory Services Directorate (Ghana)	FAIR Forward - AI for All, GIZ, Digital Transformation Centre Ghana, GIZ	BMZ
AI-powered monitoring of forest degradation and impact of restoration programs in India's Eastern Himalayas	India	Verify Earth, Earth Analytics India Pvt Ltd, Balipara Foundation, Alsisar Impact	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Combating Air Pollution and GHG Emissions in India through hyperlocal AI-powered mapping	India	UNDP India	FAIR Forward - AI for All, GIZ	BMZ
Empowering Women across India with audio messages in their native languages on Health, Sustainable Agriculture and Education	India	Audiopedia	FAIR Forward - AI for All, GIZ	BMZ
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	India	Verify Earth	FAIR Forward - AI for All, GIZ	BMZ
Making AI speak 9 Indian languages: Hindi, Bengali, Marathi, Telugu, Bhojpuri, Kannada, Magadhi, Chhattisgarhi, Maithili - Open-source text-to-speech models	India	Indian Institute of Science (IISc)	Bhashini, FAIR Forward - AI for All, GIZ	BMZ
Making AI speak Mundari - Open-source text-to-speech data and model for Mundari, India	India	Karya Inc.	FAIR Forward - AI for All, GIZ	BMZ
MicroFinance Industry Network India use of voice technology (Gramvaani)	India	GramVaani	FAIR Forward - AI for All, GIZ	BMZ
Open Soil Data to improve soil health and support climate-resilient, regenerative agriculture practices in Telangana - GeoAI for Soil Conservation	India	Bonn Consulting, Fraunhofer Institute	FAIR Forward - AI for All, GIZ	BMZ
Open source AI Pest Control for smallholder Cotton Farmers in India	India	Wadhwani AI	FAIR Forward - AI for All, GIZ	BMZ
Predicting Crop Health using open-source geospatial data and ground truth data collected in Telangana State	India	WRMS - Weather Risk Management Services, ZINDI, Verify Earth	FAIR Forward - AI for All, GIZ	BMZ
Providing better information on sexual and reproductive health and rights of young people through the Kahi Ankahi Baatein infoline (Hindi LLM finetuning)	India	GramVaani	FAIR Forward - AI for All, GIZ	BMZ
Voice Tech for All: Building Inclusive Speech AI for India with different accents and speaking styles	India	Indian Institute of Science (IISc), Artpark	FAIR Forward - AI for All, GIZ	BMZ
FarmerChat: Delivering Personalized Farm Advice to 1.6 Million Farmers Across Five Countries	India, Kenya, Nigeria, Ethiopia, Brazil	Digital Green	Digital Green, in parts by FAIR Forward - AI for All, GIZ	Multiple Funders, among

				them: The Rockefeller Foundation, Gates Foundation, BMZ
Data-driven decision-making for farmers to increase climate resilience in India	India	Digital Green	FAIR Forward - AI for All, GIZ	BMZ and Sequoia Climate Fund, CISCO Foundation
Building inclusive voice technologies in the 3 Indonesian Languages Balinese, Bugis and Minangkabau through open language datasets	Indonesia	Prosa.ai	FAIR Forward - AI for All, GIZ	BMZ
Combating Climate Disinformation in Indonesian languages with AI	Indonesia	Prosa.ai	Bappenas - Ministry of State Development Planning (Indonesia), FAIR Forward - AI for All, GIZ	BMZ
Empowering coastal inhabitants in Indonesia: leveraging AI, community-based approaches and local Weather measurements for enhanced climate adaptation and a thriving "blue economy"	Indonesia	Common Room Networks Foundation https://commonroom.info/	FAIR Forward - AI for All, GIZ	BMZ
High Carbon Stock Approach: Mapping Forests to Combat Climate Change and Protect Livelihoods in Indonesia	Indonesia	High Carbon Stock Approach (HCSA) Foundation, Jaringan Kerja Pemetaan Partisipatif (Seknas JKPP)	FAIR Forward - AI for All - GIZ, Bappenas - Ministry of State Development Planning (Indonesia)	BMZ
Mitigating the impacts of oil palm cultivation on forests and climate change in Indonesia through AI and social forestry	Indonesia	RECOFTC	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
AI-powered livestock health system enabling local communities easy access to disease information on demand and in Kiswahili.	Kenya, East Africa	Badili Innovations	Mozilla Foundation & FAIR Forward - AI for All, GIZ	Gates Foundation & BMZ
ChamaChat - powering Chama loan groups through voice AI and a chatbot	Kenya	Ujuzi Craft LTD	Mozilla Foundation & FAIR Forward - AI for All, GIZ	Gates Foundation & BMZ
Citizen chatbot of the Kenyan Office of the Data Protection Commissioner	Kenya	Tech Innovators Network Kenya (THiNK)	FAIR Forward - AI for All, GIZ	BMZ
Data-enabled climate shock absorbance through agroforestry (Agrof4resilience)	Kenya	International Center of Insect Physiology and Ecology (ICIPE)	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Early Warning System: Advisory services on climate-smart farming for small-holder farmers	Kenya	Local Development Research Institute (LDRI)	FAIR Forward - AI for All, GIZ	BMZ
Enabling machine translation from Kiswahili into the indigenous East African languages Kidaw'ida, Kalenjin, and Dholuo, preserving these languages & supporting crowd-sourced voice recognition via Mozilla Common Voice for these languages	Kenya, East Africa	United States International University Africa (USIU) - Kenya, Kabarak University, Maseno University (Kenya)	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Enhancing business registration in Kenya through a chatbot	Kenya	Made by People / Tanasuk Technologies Africa, Kenya, CLEAR Global, Tech Innovators Network Kenya (THiNK), BRS - Business Registration Service (Kenya)	Smart Development Fund, FAIR Forward - AI for All, Digital Transformation Centre Kenya, GIZ	BMZ
Hello, government - better citizen services in Kenya through "AI Chatbots" as a replicable open-source building block	Kenya	Tech Innovators Network Kenya (THiNK)	FAIR Forward - AI for All, GIZ & Digital Transformation Centre Kenya	BMZ
Imarika - Translating weather information into actionable advisory for farmers through AI in	Kenya	Strathmore University's iLabAfrica	Smart Africa, FAIR Forward - AI for All, GIZ, Intellectap, intel.liftoff,	BMZ, Gates

Kenya			Climate Change AI; Mozilla Foundation	Foundation
Making AI understand 3 East African languages: Kiswahili, Kinyarwanda and Luganda - Open-source speech-to-text datasets - Mozilla Common Voice	Kenya, Rwanda, Uganda, East Africa	Mozilla Common Voice	FAIR Forward - AI for All, GIZ	BMZ, Gates Foundation, FCDO
Miti360: A Comprehensive Dataset for AI-Powered Forest Monitoring	Kenya	Dedan Kimathi University of Technology (Kenya)	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Our language, our data: Co-creating equitable governance models with African language communities - language dataset created: Dholuo Speech	Kenya, Global	Maseno University (Maseno Centre for Applied Artificial Intelligence), Members from the Dholuo language community	Mozilla Foundation, FAIR Forward - AI for All, GIZ	BMZ
Paza Sauti - chatbot and IVR service in Swahili to raise awareness about the use of collateral (security) to access credit for women in Kenya	Kenya	Tech Innovators Network Kenya (THiNK)	Mozilla Foundation & FAIR Forward - AI for All, GIZ	Gates Foundation & BMZ
Providing farmers in Kenya and Bihar, India with high-quality, personalized information through AI and developing blueprints for AI-powered Agriculture Information Exchange Platforms	Kenya, India	Digital Green, Viamo, Tech for Her, DynAg, Digifarm, Opportunity International	FAIR Forward - AI for All, GIZ	Gates Foundation
Wezesha na Kabambe - offline Swahili audio chatbot for women farmers in Kenya	Kenya	Moi University, Technical University of Kenya	Mozilla Foundation & FAIR Forward - AI for All, GIZ	Gates Foundation & BMZ
Helping to measure solar energy adoption across Madagascar via AI - Labelled Open solar panel data for Madagascar	Madagascar	Association Maidi	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Detecting sentiments and combatting hate speech in Hausa, Igbo, Nigerian-Pidgin and Yorùbá - NaijaSenti: a Nigerian Corpus for Multilingual Sentiment Analysis	Nigeria	Bayero University (Kano, Nigeria), Ahmadu Bello University (Zaria, Nigeria), Masakhane NLP, HausaNLP, Kaduna State University	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Promoting energy conservation and market analysis in Pakistan through Residential Energy and Weather Data (REWED)	Pakistan	Lahore University (LUMS)	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
A large scale collection of voice data in Kinyarwanda to allow the building of inclusive language technology	Rwanda	Digital Umuganda, Mozilla Common Voice	FAIR Forward - AI for All, GIZ	BMZ
Better language translation for more training content in Kinyarwanda - education-specific machine translation for the Moodle Learning Management System	Rwanda	Digital Umuganda	Atingi, "FAIR Forward - AI for All" (GIZ)	BMZ
KinyCOMET: Automatic evaluation of machine translation for Kinyarwanda-English	Rwanda	Mbaza NLP community, German Research Center for Artificial Intelligence (DFKI)	Regional AI Hub Rwanda, FAIR Forward - AI for All, GIZ	BMZ
Landslide and flood disaster hotspot monitoring using computer vision in Rwanda	Rwanda	Hesotech GmbH	FAIR Forward - AI for All, GIZ	BMZ
Mbaza Chatbot Rwanda for health related inquiries by citizens	Rwanda	Digital Umuganda	FAIR Forward - AI for All, GIZ, Digital Transformation Centre Rwanda	BMZ
Preventing Sexual and Gender-Based Violence - a feature-phone-based information chatbot (*350#)	Rwanda	Health Development Initiative (HDI) Rwanda	GIZ (Sexualised and Gender-Based Violence (P-SGBV) Project), GIZ ZFD SIGA Refugee Programme, FAIR Forward - AI for All (GIZ)	BMZ
Rwanda Media Voice Bridge - AI-powered voice transcription and translation solution for	Rwanda	Centre for the Fourth Industrial Revolution Rwanda (C4IR), Duka	GIZ Regional AI Hub Rwanda, GIZ Film Made in Africa, FAIR Forward - AI	BMZ

Rwanda's film and media industry		Labs	for All, GIZ	
Solutions from space: Rwanda's smart harvest planning - mapping crop type with AI for rice, maize, Irish potatoes and beans	Rwanda	Rwanda Space Agency (RSA), the Rwandan Ministry of Agriculture, Alliance of Bioversity International and CIAT	FAIR Forward - AI for All (GIZ), Digital Transformation Centre Rwanda	BMZ
Tunga Agri-Chatbot Open Source Suite - A full system to build call center agent based voicebots in Kinyarwanda e.g. for Agriculture and other sectors	Rwanda	Centre for the Fourth Industrial Revolution Rwanda (C4IR), Kigali Natural Language Processing (KiNLP)	FAIR Forward - AI for All, GIZ	BMZ
Tunga Agricultural Voicebot - Agricultural Advise for Farmers in Kinyarwanda	Rwanda	Ministry of Agriculture and Animal Resources (MINAGRI), Centre for the Fourth Industrial Revolution Rwanda (C4IR), Kigali Natural Language Processing (KiNLP)	FAIR Forward - AI for All, GIZ	BMZ
Forest Carbon Stock Monitoring for Climate Accountability in Senegal	Senegal	Data 354, ministère de l'Environnement et de la Transition Écologique (METE)- Senegal	Data Economy, GIZ / FAIR Forward - AI for All, GIZ / The Estonian Centre for International Development (ESTDEV), African Union, D4D Hub — Data for Development Hub	BMZ
Agro-thermography	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
Artificial Intelligence for Maize (AIM)	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
Chlorophyll-Busters	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
Crop Type Identification from Satellite Imagery in Western Cape, South Africa	South Africa	Radiant Earth, Western Cape Department of Agriculture	FAIR Forward - AI for All, GIZ	BMZ
Data for Detecting and Assessing Maize Stress	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
Data for Detecting and Assessing Tomato Stress	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
Discovering Agriculture Insurance	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
From Maps to Meals: ML for Precision Ag - Enabling geo-scientists to use Machine Learning for Precision Agriculture of geospatial data	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
SAR Busters	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
The Agro-Innovators	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
The internet of Crops (IOC)	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
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	South Africa	Stellenbosch University	South African Digital Language Resources (SADILAR), FAIR Forward - AI for All, GIZ, Mozilla	BMZ

			Foundation, UNESCO decade of indigenous languages	
Weeties	South Africa	Move Beyond Consulting Implementing partners: MBC, WITS, CSIR, ARC	FAIR Forward - AI for All, GIZ	BMZ
AI for Agricultural Advisory and Financial Services for Smallholder Farmers in Tanzania	Tanzania	Duniacom Group LLC	Mozilla Foundation & FAIR Forward - AI for All, GIZ	Gates Foundation & BMZ
Kiazi Bora - informing vulnerable women in Tanzania on the nutritional values of Orange Fleshed Sweet Potatoes	Tanzania	SEE Africa	Mozilla Foundation & FAIR Forward - AI for All, GIZ	Gates Foundation & BMZ
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	Uganda	Civil Society and Budget Advocacy Group (CSBAG)	GIZ Country Office Uganda, FAIR Forward - AI for All, GIZ	BMZ
Croppie- helping smallholder coffee producers to plan sales, estimate yields, get loans, and trace coffee - AI powered coffee yield prediction	Uganda	Producers Direct, M-Omulimisa, Alliance of Bioversity International and CIAT, Tecnicafé	FAIR Forward - AI for All, GIZ	BMZ
Estimating Solar Irradiance for Improved Solar Energy Planning in Sub-Saharan Africa through AI	Uganda	Makerere University (Marconi Lab)	FAIR Forward - AI for All, GIZ	BMZ
Finding good spots for decentralized green energy grids in Uganda - AI based site identification for MiniGrids	Uganda	Sunbird.ai	FAIR Forward - AI for All, GIZ	BMZ
Monitoring Deforestation, predicting Landuse and Landcover changes and planning forest restoration in Uganda through AI-powered Remote Sensing	Uganda	Makerere University in cooperation with the National Forestry Authority (NFA) of Uganda	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ
Preserving privacy and avoiding gender bias of AI systems in Luganda, Lumasaba, Hausa, and Kanuri - The Lacuna personally identifiable information Text Dataset	Uganda, Kenya, Nigeria	Makerere University (Makerere AI Lab, Marconi Lab), Clear Global	Lacuna-Fund / Meridian (Climate-call) & FAIR Forward - AI for All, GIZ	BMZ

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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>

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