

Digital for
Development



Digital + Climate Initiative Enabling a Twin Transition

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Intersection between Green and Digital Transformation

- Paris Agreement: need for innovations and technology pull and push
- Green and Digital transformation are taking place at the same time and are closely intertwined with each other
- Digital innovations (AI, Blockchain, IoT, supercomputing) provide unprecedented opportunities to enhance sustainability of economy & society
- Radical new thinking and business models are required- Business as usual will not be sufficient to address the climate crisis
- Getting innovations out of the lab into the market- Commercialization of digital clean tech solutions is an important challenge
- Scale-up of clean tech innovations: 2 valleys of death. Lack of early-stage financing and growth financing for most innovative startups

Shaping the Twin Transition



The ICT sector is estimated to make up

2 - 3%

of greenhouse gas emissions, expected to rise further if not properly addressed.

ICT has the potential to reduce greenhouse gases

up to 10x

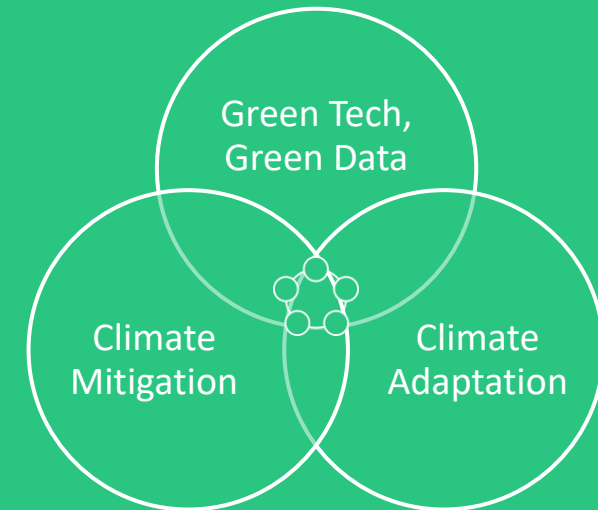
its own footprint.

Shaping digital transformation in a climate-friendly way

Harnessing the potential of digital technologies to achieve climate goals

Twin Transition

Digital transformation + climate transition





Data Economy

Green Digital Initiative

Implementation partners: World Bank, Digital Development Programme



Objective

Reduce negative climate impact of the digital economy and leverage its enabling role for accelerated action on climate change adaption/ mitigation

Approach

- Synergy development among DDP (Digital Development Programme) partners & stakeholders
- Regional and country-level policy dialogue
- Knowledge exchange

- **Enhance global awareness & inspire action**
 - ❖ Establish a technical working group with interested DDP partners
 - ❖ Disseminate knowledge, tools, best practices and case studies
 - ❖ Support regional and country level dialogue
- **Create actionable knowledge:**
 - ❖ Iteratively develop guidance material through needs assessment and stakeholder consultations
 - ❖ Use for lending and investment project preparation within the WB Group
- **Test and support adoption at scale**
 - ❖ Green data centers will be among the focus areas
 - ❖ Support platforms/ partnership for scale (e. g. open-data software platforms)





Künstliche Intelligenz für alle:

FAIR FORWARD

Lacuna Fund – Accessible data for local climate action

Key Actions

Implementation partners: Lacuna Fund
(Rockefeller Foundation, Wellcome Trust etc.)



Lacuna Fund
Our voice on data

Objective

- Improve planning for and response to climate impacts through open AI innovation
- Promote green development and better understand climate harms on health and livelihoods

Approach

- Address gaps in climate data in partner countries
- Focus on the promising sectors of renewable energies & agriculture/ forestry

- Support the **creation, aggregation, and maintenance** for training and valuation of machine learning models by and for local communities
- Promote **sharing of data, best practices, AI models:** establish a **global exchange** on AI innovation and climate protection
- **Potential applications:**
 - ❖ Open local training data from the Global South
 - ❖ Earth observation data for food security (e. g. automated crop survey for department of agriculture)
 - ❖ Satellite data for climate-friendly energy supply (e. g. identify locations for green solar-based mini grids)



GovStack

Green GovStack

Implementation partner: ITU



Objective

Support governments to ensure an accelerated green transformation as a foundation for sustainable and “green” digital government services

Approach

- Expert community-driven multi-stakeholder effort
- Building on the initial GovStack initiative

- Develop IT components to guide governments to **mitigate the negative impact** of their digitalization **Green technologies guidance** incl. green standards: Develop guidance on using greener technologies for sustainable government digitalization
- **Capacity development**: Document and share material, include digital leaders and CIOs, integrate with atingi and ITU Academy
- **Policies and regulations** guidance: Green public procurement, Green Data Center guidelines with WB **Model country implementation** : Adopt various sustainable digital approaches, deploy green digital services, document their impact
- **Sustainable Digital Public Goods (DPG)** : Support the development and scaling up of Digital Public Goods (DPG) that can accelerate sustainable government digitalization



Digital
Transformation
Centers

Make-IT
Alliance

Mobile Innovation Hub Indonesia

Implementation partners: GSMA



Objective

Support Indonesia unlocking the potential of digital technology to achieve sustainable, low-carbon and climate-resilient development outcomes

Approach

Focus on:

- Sustainable energy and green economic development
- Digitalisation of waste management
- Natural resource management (NRM)

- **Mapping** of the Indonesian climate-tech ecosystem: exploring the role that digital technology is (or could be) playing to support climate mitigation, adaptation, and resilience
- Public-private sector **dialogues, strategic partnerships, and capacity building**
- **Advise** for government & existing initiatives on data-driven approaches
- **Showcasing and publicising** results and learnings of the hub
- **Tailored support** for local innovators to improve and implement their solutions
- Drive **sustainable energy access** and **green economic development** in rural areas
- **Support and scale** digital approaches on waste management and circular economy



#smart
development
fund

Digital Green Innovation Accelerator Program DGlx



Call for digital innovations

addressing pressing climate challenges

APPLY BY SEPTEMBER 24TH

An SDG Acceleration Programme by:

- UN WFP World Food Programme
- INNOVATION ACCELERATOR
- #smart development fund

Powered by:

- European Union
- german cooperation DEUTSCHE ZUSAMMENARBEITUNG
- giz

The poster features a central illustration of a hand holding a smartphone with a green plant growing from the screen, set against a dark blue background with a pink circular highlight around the phone.

<https://www.bmz-digital.global/en/news/digital-green-innovation-acceleration-programme-dgix/>