

Digital/ICT tools for the local implementation of global agendas

26 November 2019, 10:00 – 11:00 CET



The screenshot shows an Excel spreadsheet with the following data:

Name of tool	Short description	Purpose	City	Country	Region	GIZ / non-GIZ	Project	Organisation	URL	Contact name	Contact email
Climate Atlas of Canada	The Climate Atlas of Canada is an Learning	Multiple	Canada	North America	Non-GIZ			Prairie Climate	https://climate.ca	n/a	info@climateatlas.ca
Luftdaten	Builds particulate matter sensors	Monitoring	Multiple	Global	All	Non-GIZ		OK Lab Stuttgart	https://deutsches-luftdaten.info	Jan Lutz	jan@luftdaten.info
City Water Map	The Water Map was a behavioral Behaviour change		Cape Town	South Africa	Africa	Non-GIZ		City of Cape Town	https://citywm.n/a	n/a	water.map@capetown.gov.za



Transformation - Urban Opportunities - Climate Change (TURbOcliC)

Cross-sectoral group of the TUEWAS and SNGA network of GIZ

Programme

- **Welcome and Moderation:** Vaishali Nandan, Joint Speaker of TUrbOCliC
- **Agenda 2030 Meets Digital Principles** – Verena Goranko and Kim Sophie Schulte
- **Digital/ICT tools for climate-resilient and low-carbon urban development in Asia** (Study kick-off) - Dr. François van Schalkwyk
- **Interactive discussion with audience**

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Agenda 2030 Meets Digital Principles

Good Governance in Africa (GGA), Workstreams “ICT for Good Governance” & “Implementing the 2030 Agenda in Africa”

Kim Schulte, FAIR FORWARD – Artificial Intelligence for all, Rwanda

Verena Goranko, Support for Decentralization Reforms, Ghana

giz Deutsche Gesellschaft
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Zusammenarbeit (GIZ) GmbH

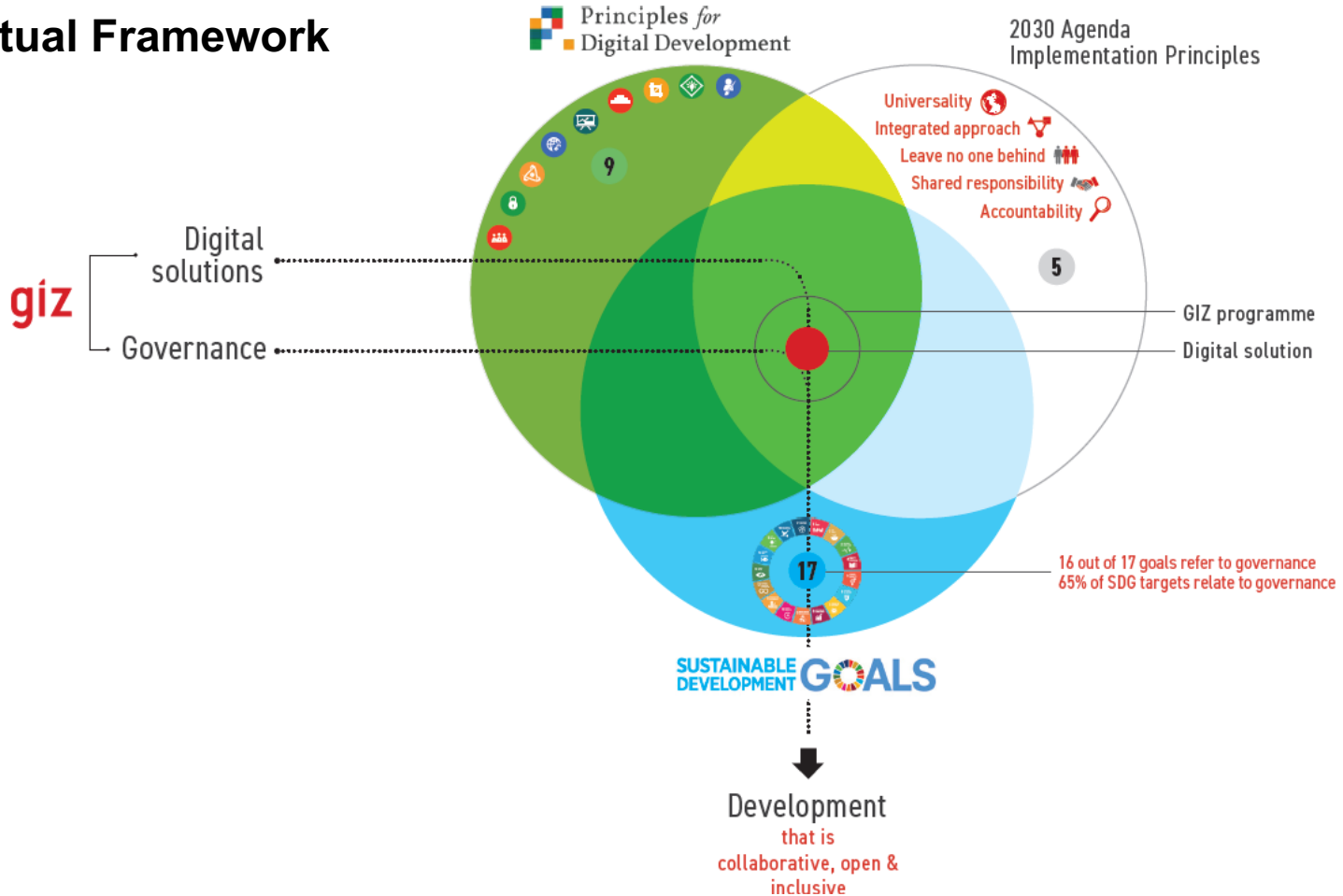
Digital tools for implementing the Sustainable Development Goals in Africa



An assessment of the digital solutions of GIZ programmes in sub-Saharan Africa against the Digital Development Principles and the 2030 Agenda Implementation Principles

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Zusammenarbeit (GIZ) GmbH

Conceptual Framework



Agenda 2030 Principles Digital Principles for Development

2030 Agenda Implementation Principles

Digital Development Principles

Universality

Design for scale
Be collaborative

Integrated approach

Understand the ecosystem
Openness

Leave no one behind

Design with the user
Address privacy & security

Shared responsibility

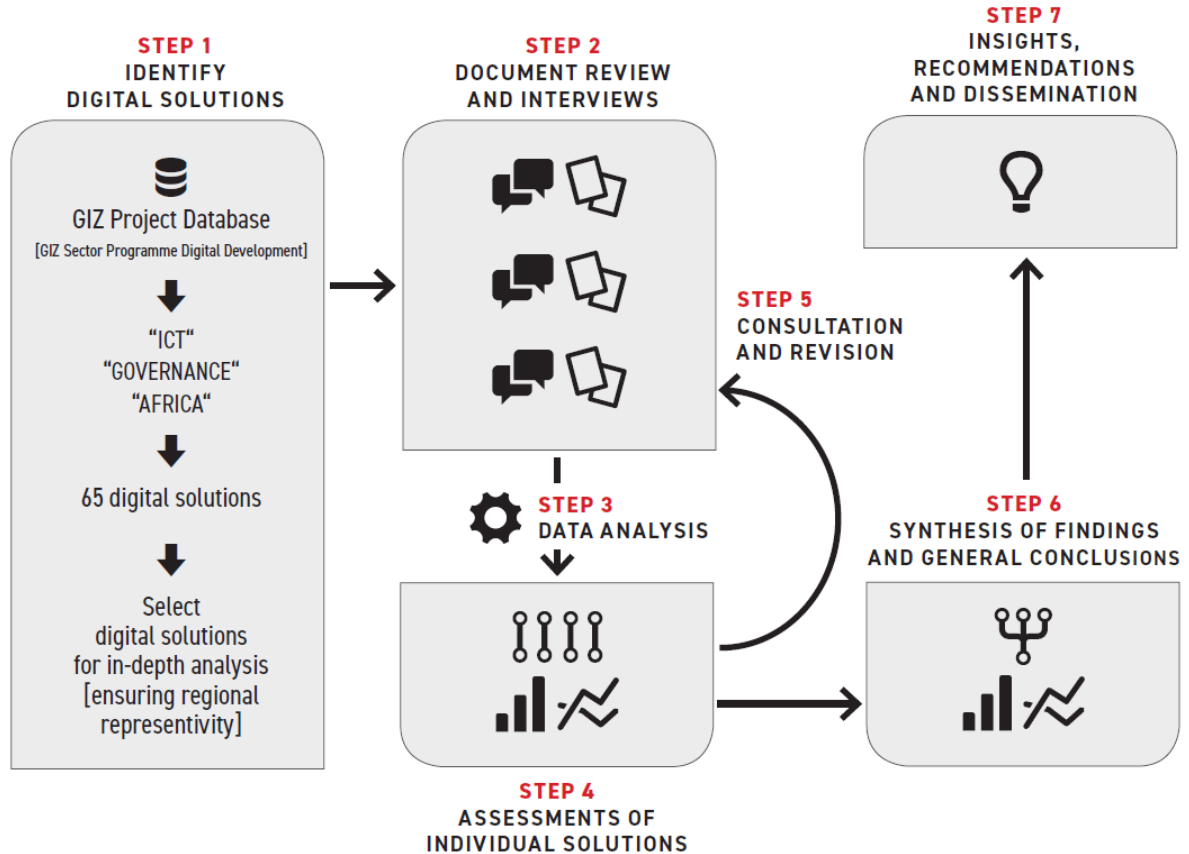
Reuse and improve
Be collaborative

Accountability

Build for sustainability
Be data driven



Methodology



Project Assessment



MAURITANIA

Extractive Industries Transparency Initiative (EITI) App

Programme de Renforcement de la Décentralisation et des Finances Publiques (ProDeF)

Hamza O. Bakar hamza.ould@cimonline.de

CAMEROON

#access4all: A New Telecentre Model for Municipal Development

Support Programme for Municipal Development (PROMUD)

Emile Lando emile.lando-yemeli@giz.de

KENYA

Innovative Collection and Analysis of Data from Non-official Sources for SDG Monitoring

Strengthening Good Governance Programme / SDG Component

Kim Schulte kim.schulte@giz.de

BENIN

MeSODD SDG Sensibility App

Support for Macroeconomic Poverty Reduction (ACMERP)

Svenja Ossman svenja.ossmann@giz.de

GHANA

District Development Data Platform

Support for Decentralisation Reforms (SfDR) Programme

Verena Goranko verena.goranko@giz.de

Country assessments

KENYA



Digital tool Innovative collection and analysis of data from non-official sources for SDG monitoring

User(s) Kenya National Bureau of Statistics, CSOs and the public

Description The aim of the digital solution is to integrate non-official data sources (such as data collected by CSOs, private sector data and big data) into SDG monitoring in Kenya. The project is still in its inception phase and has already held workshops and follow-up meetings with stakeholders. It has also completed a mapping of the local ecosystem.

Digital Development Principles



Extensive mapping of the ecosystem has been done and contact has been made with potential collaborators. Ecosystem mapping has also been limited to priority areas to allow for more in-depth analyses.



No specific users apart from the statistics office have been identified. Stakeholders were involved in the inception workshop but the users of the planned tools are not clearly defined. It remains unclear who would be using the data and for what purpose.

2030 Agenda Implementation Principles



No clear plans are in place to ensure that open standards, open data or open source software will be used.

In terms of data protection, there is awareness of national and international guidelines, but there is little clarity on how these will be implemented. Data aggregation is presented as a solution but it does not address how data will be processed, stored or transferred.

Sustainable Development Goals



Principles for Digital Development










[View the detailed assessment](#)

	Design for scale	Orange
	Be collaborative	Green
	Understand the ecosystem	Green
	Use open standards, open data, open source & open innovation	Red
	Design with the user	Orange
	Address privacy & security	Red
	Reuse and improve	Orange
	Be collaborative	Green
	Build for sustainability	Red
	Be data driven	Orange








2030 Agenda Implementation Principles

	1 Universality	Green
	2 Integrated approach	Orange
	3 Leave no one behind	Orange
	4 Shared responsibility	Green
	5 Accountability	Orange

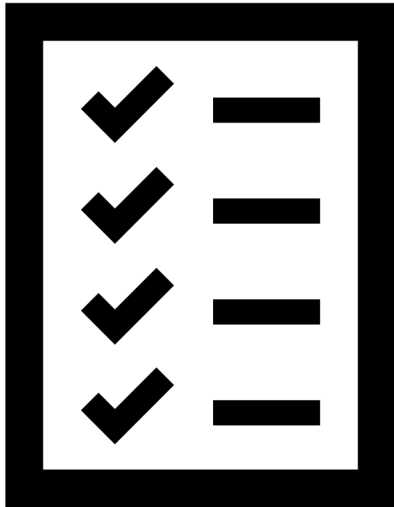
Results: Alignment with Principles for Digital Development

DIGITAL DEVELOPMENT PRINCIPLES		BENIN	CAMEROON	GHANA	KENYA	MAURITANIA
✓	 1 Design with the user	●	●	●	●	●
✓	 2 Understand the ecosystem	●	●	●	●	●
	 3 Design for scale	●	●	●	●	●
✓	 4 Build for sustainability	●	●	●	●	●
	 5 Be data driven	●	●	●	●	●
✗	 6 Use open standards, open data, open source & open innovation	●	●	●	●	●
	 7 Reuse and improve	●	●	●	●	●
✗	 8 Address privacy & security	●	●	●	●	●
	 9 Be collaborative	●	●	●	●	●

Results: Alignment with 2030 Agenda Implementation Principles

2030 AGENDA IMPLEMENTATION PRINCIPLES		BENIN	CAMEROON	GHANA	KENYA	MAURITANIA
	1 Universality	Orange	Orange	Orange	Green	Orange
	2 Integrated approach	Orange	Orange	Green	Orange	Orange
 	3 Leave no one behind	Green	Green	Orange	Orange	Green
	4 Shared responsibility	Orange	Orange	Green	Green	Orange
 	5 Accountability	Green	Orange	Green	Orange	Green

Checklist

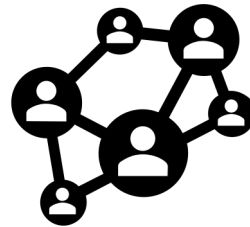


How to make your digital solution collaborative, open and inclusive

- 01**
 - a We have given sufficient consideration to the actors, drivers, infrastructures and incentives that make up the context in which our digital solution will operate.
 - b We have clearly defined the problem we are trying to solve and how the digital solution is expected to solve the problem.
 - c Who have defined precisely who will benefit from the digital solution.
- 02**
 - a We have defined what scaling means for our project.
 - b We have a plan in place that will allow us to scale our project.
- 03**
 - a We have identified the risks associated with the implementation of our digital solution as they relate to data protection and privacy.
 - b We have paid particular attention to the risks and usefulness of the digital solution for marginalised communities.
 - c We have verified the existence of and the effectiveness of the policies, laws and standards in place to protect others from those risks.
- 04**
 - a We have a good understanding of open standards, open data, open source and open innovation.
 - b We have a plan in place to develop a digital solution that is open, and, where applicable, we have included reasons for not using open standards, open data or open source.
- 05**
 - a We have documented and shared the key processes, outcomes and lessons learned (both the successes and the failures) from all phases of the project with the broader development community.
- 06**
 - a We have allocated resources to ensure the sustainability of the digital solution.
 - b We have included local stakeholders in the implementation and deployment of the digital solution.
- 07**
 - a We know how we will measure and assess the impact of our digital solution.
 - b We have allocated resources and allowed sufficient time to measure and assess the impact of our digital solution.
- 08**
 - a We have aligned our project with specific SDGs.
 - b We have identified which of the SDG indicators we will be informing.

Way Forward

- Dissemination of study results
 - within GIZ
 - beyond GIZ (e.g. Digital Impact Alliance)
- Use and refinement of tools
- Follow-up study e.g. focussing on specific principles
- ???



Contact

Good Governance Africa (GGA) Sector Network



Workstream ICT for Good Governance

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Workstream Implementing the 2030 Agenda



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<https://www.facebook.com/gizprofile/>

Thank you!

Programme

- **Welcome and Moderation:** Vaishali Nandan, Joint Speaker of TUrbOCliC
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Compilation and analysis of digital/ICT tools for climate-resilient and low-carbon urban development

Webinar | 26 November 2019

Goals of the study

A. Overview:

1. Take stock of current status of digital approaches taken by relevant urban projects in Asia
2. Assess which digital tools, formats or other approaches are being used or developed by urban GIZ projects in Asia

B. Digital Principles:

1. Evaluate whether and how the Digital Principles have guided the development and implementation of the digital tools

C. Assessment:

1. Critically assess the relevance of digital solutions towards the achievement of the 2030 Agenda
2. Critically assess the relevance of digital solutions towards the achievement of mitigation and adaptation to climate change in cities
3. Highlight regional specific requirements, challenges and opportunities for the Asian continent
4. Develop practical recommendations, including identification of gaps and prospects for future development of additional tools

D. Exchange:

1. Promote exchange of experiences among relevant GIZ urban projects

Product 1: Excel database of relevant tools

STEP 1. Define fields

ALL TOOLS

Name of tool
 Short description
 Purpose
 City
 Country
 Region
 GIZ/Non-GIZ project
 Project
 Organisation
 URL
 Contact name
 Contact email
 Status
 Source

GIZ TOOLS (ASIA)

Relevance: Climate change:
 Relevance: SDGs:
 Relevance: Digital Development Principles
 Relevance: Agenda 2030 principles:
 Relevance: Urban stakeholder(s):

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Name of tool	Short description	Purpose	City	Country	Region	GIZ / non-GIZ project	Organisation	URL	Contact name	Contact email	Status	Relevance: Climate cha	Releva	
1	Climate Atlas of Canada	The Climate Atlas of Canada is an Learning		Multiple	Canada	North America	Non-GIZ	Prairie Climat	https://climateatlas.ca	n/a	info@climateatlas.ca	Functional	Climate change		
2	Luftdaten	Builds particulate matter sensors	Monitoring	Multiple	Global	All	Non-GIZ	OK Lab Stuttgart	https://deutsjanlutz.com	Jan Lutz	jan@luftdaten.info	Functional	Air: quality		
3	City Water Map	The Water Map was a behavioral	Behaviour change	Cape Town	South Africa	Africa	Non-GIZ	City of Cape Town	https://cityofcapetown.gov.za	n/a	water.map@capetown.gov.za	Discontinued	Water: drought		
4	Petajakarta	Petajakarta uses Tweets about flood	Disaster management	Jakarta	Indonesia	Asia	Non-GIZ	University of	https://petaja.com	n/a	n/a	Discontinued	Water: flooding		

Product 1: Excel database of relevant tools

STEP 2. Identify data sources

For GIZ tools:

- Digital Pathfinder
- Governance & Conflict Case Book "Let's Talk Digital"
- The project database on ICT-related projects

566 tools

For non-GIZ tools:

- Web search
- Recommendations by colleagues

Product 1: Excel database of relevant tools

STEP 3. Select projects – focus on South-East Asia + China

For GIZ tools:

- Digital Pathfinder
- Governance & Conflict Case Book "Let's Talk Digital"
- The project database on ICT-related projects

Continent = Asien, Globalvorhaben, überregional → 285
Country = SE Asia + China OR regional / global → 232
Sector = Umwelt und Klima (in any sector field) → 60

For non-GIZ tools:

- Web search
- Recommendations by colleagues

↓
Analysis of project descriptions to narrow selection to cities

Product 2: Assessment of tools

Simplified assessment instrument to be completed using only secondary sources
 → Light assessment of 10-12 tools



MAURITANIA

Digital tool Extractive Industries Transparency Initiative (EITI) mobile application

User(s) Communities in mining towns; students; CSOs

Description The Extractive Industries Transparency Initiative (EITI) in Mauritania's Android app provides easy access to the sector's data to strengthen citizens' right to information. The app works offline, provides up-to-date information on the Mauritanian extractives sector, includes a glossary and makes it possible to contact the Mauritanian EITI secretariat.

Digital Development Principles

- Design with the user
- Be data-driven

2030 Agenda Implementation Principles

- Leave no one behind
- Accountability

Sustainable Development Goals

- 16 PEACE, JUSTICE AND STRONG INSTITUTIONS
- 17 PARTNERSHIPS FOR DEVELOPMENT

Inclusive design In all three phases of the project made possible by: (1) EITI's multi-stakeholder structures, (2) involving users to participate in the design process, (3) regular consultation with communities in mining towns (the primary users of the application).

Reuse of existing, audited data presented in formats that are more user-friendly from the users' perspective.

Openness Limited evidence of openness – the project did not refer to the existing EITI Open Data Policy, it did not release the data as open data due to resistance within government, and it did not make the source code for the app available.

There was limited collaboration with the broader development community because the project underestimated its own success and the levels of interest from others.

Principles for Digital Development

Design for scale	●
Be collaborative	●
Understand the ecosystem	●
Use open standards, open data, open source & open innovation	●
Design with the user	●
Address privacy & security	●
Reuse and improve	●
Be collaborative	●
Build for sustainability	●
Be data driven	●

[View the detailed assessment](#)


2030 Agenda Implementation Principles

1 Universality	●
2 Integrated approach	●
3 Leave no one behind	●
4 Shared responsibility	●
5 Accountability	●

SUSTAINABLE DEVELOPMENT GOALS Access to information & protection of fundamental freedoms [16.10]

19

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SECTOR NETWORK
GGA

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