Unlocking the hidden potential of open WASH data

Hosted by WASHWeb & openwashdata

August 29th, 2024 – Stockholm World Water Week

washweb

Welcome!

Thank you for joining today's session –

Our objective:

Discuss public, private and civil-society challenges around the use of data as a starting point to facilitate a brainstorm of collective solutions

Agenda

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openwashdata

a community effort to bring open data practices to the WASH sector

news

sign-up

Elizabeth Tilley

August 29, 2024

🔗 openwashdata.org/pages/gallery/slides/

openwashdata community

openwashdata community

Vision

An active global community that applies FAIR principles (Wilkinson et al. 2016) to data generated in the greater water, sanitation, and hygiene sector.

Mission

Empower WASH professionals to engage with tools and workflows for open data and code.

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openwashdata academy

data science for openwashdata 001

- free, live, online, 10-week programme

- 200 registrations

- 100 show-ups

- 20 graduates - Check out final reports: openwashdata.org/pages/academy/graduates/

- next iteration: September/October 2024, sign-up: https://forms.gle/MP5rNYZagBdfG2ZRA

`ds4owd-001.github.io/website/`

Course Overview

Thank you for your interest in this course. Your course instructors: Lars Schöbitz & Mian Zhong & Sophia Skorik are looking forward to meet you.

We will meet on Zoom for 10 modules over 17 weeks (see Course Calendar below) at the following times:

- **Start:** 31st October 2023 - 2 pm to 4:30 pm CET
- **End:** 20th February 2024 - 2 pm to 4:30 pm CET

We will use Posit Cloud infrastructure, so you do not need to install any

🔗 openwashdata.org/pages/gallery/slides/

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openwashdata data stewardship network

- establishing data stewardship network from September 2024

- 🇿🇦 University of KwaZulu-Natal WASH R&D Centre

- 🇲🇼 BASEflow Malawi

- 🇭🇹 SOIL Haiti

- funded proposal: openwashdata.org/pages/gallery/proposal-02/

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Thanks

This project was supported by the Open Research Data Program of the ETH Board.

The slides were created via revealjs and Quarto: https://quarto.org/docs/presentations/revealjs/

You can view source code of slides on GitHub

Or you can download slides in PDF format

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References

Wilkinson, Mark D., Michel Dumontier, IJsbrand Jan Aalbersberg, Gabrielle Appleton, Myles Axton, Arie Baak, Niklas Blomberg, et al. 2016. "The FAIR Guiding Principles for Scientific Data Management and Stewardship." *Scientific Data* 3 (1). https://doi.org/10.1038/sdata.2016.18.

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Introduction to WASHWeb

- Dynamic, bottom-up initiative
- Community at the intersection of data & WASH
- Hosted 2 successful webinars with >500 registrants

The Future of Our WASH Data Ecosystem
Hosted by WASHWeb
April 4th, 2024

Partnerships for an Improved WASH Data Ecosystem
Hosted by WASHWeb
July 11th, 2024

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Our vision

Discoverable
Data is easily found when interest is shown in a topic

Useful
Information is traceable, up-to-date, and reusable

Representative
Information represents reality from different perspectives

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Who are we?

Nicolas Dickinson
WASHWeb Lead

Merel Laauwen
WASHWeb Coordinator

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Stay in touch!

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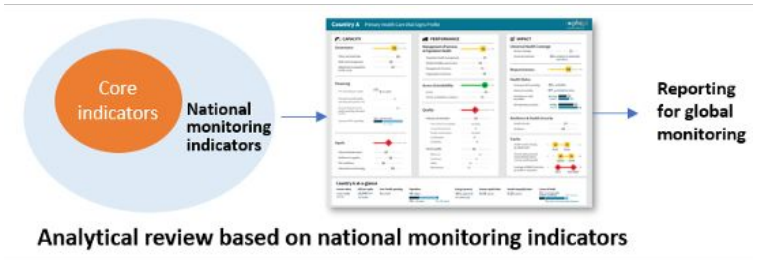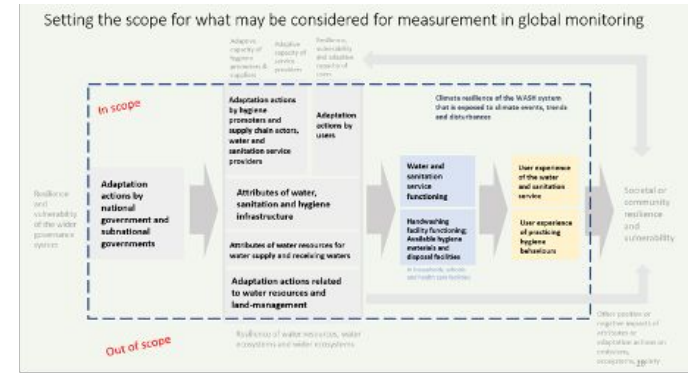
Session structure and facilitation

- 7 concrete challenges are pitched
  - Note your down your ideas (1 idea per card): question, experience, etc.
  - Decide which group to join
- This session is an opportunity for peer exchange and brainstorming. What do you want to know or achieve with open data?
- Exchange notes and discuss collective solutions in each group
- Plenary reflections and Q&A

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Pitches

Defining impactful global indicators and aligning to accelerate progress

Harmonization: setting the scope (frameworks and indicators)

- Transition from MDGs to SDGs
- Defining core sets of indicators for monitoring…
  - Gender in WASH
  - Climate resilient WASH
  - Strength of WASH systems
  - https://tinyurl.com/crwashcontributions
  - washmonitoring@who.int
- Steps towards post–SDGs
- Defining Means of Implementation (MoI) indicators

Setting the scope for what may be considered for measurement in global monitoring

Analytical review based on national monitoring indicators

Creating a sector "wiki" for water asset inventory

MWAMIS: the **most comprehensive** database – 120,000 water points & 285,635 sanitation facilities

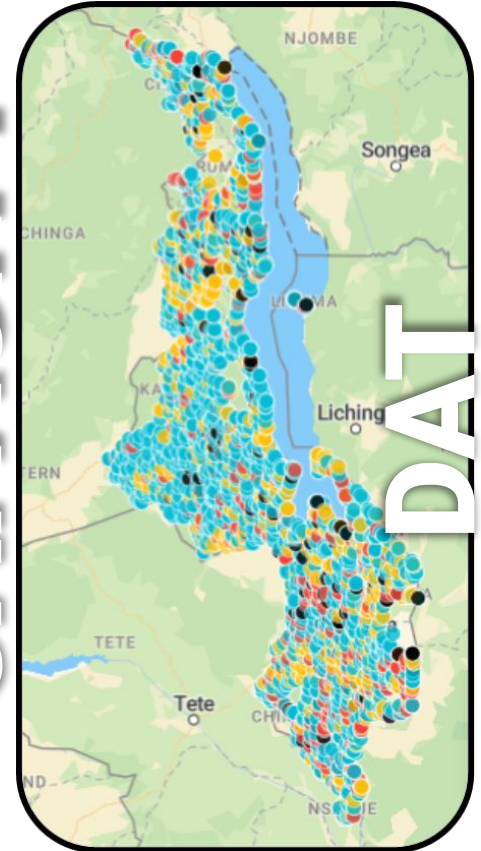Stakeholder engagement **key to updating** database (mostly NGOs)

Low resource Government sees **data as financial good <u>first</u>**;

Bad experiences of **imposed "data ideals"** from Global North

Challenge: with 6 months, how do I trigger an open data culture within the Government?

CAPACITY

DATA

BASEflow

Overcoming capacity constraints in open data practices

High Turnover
- *Incomplete data sets*
- *Data goes with them*

Legacy data
- *Data from 50 years*
- *Different formats*
- *Different platforms*

Lack of skills
- *Data management*
- *Incorrect data storage*
- *Generation of reports*

Too much with too little
- *Busy doing the work*
- *Limited time to publish*

Ownership
- *Who owns the data*
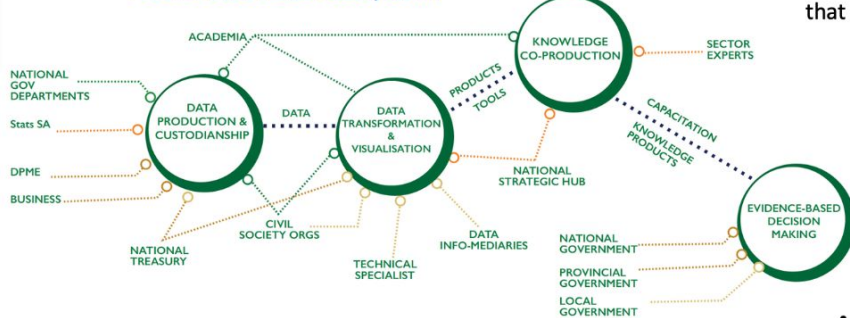- *IP*

Data ownership and public sector data sharing

Whose data is it anyway?

DATA

Data Governance

OWNERS **VS** CUSTODIANS

- Who owns public data?
  - Ownership breeds data egos

Data Openess

AVAILABILITY **VS** ACCESSIBILITY

- How do we make data available and accessible?
- Importance of a data asset registry and metadata
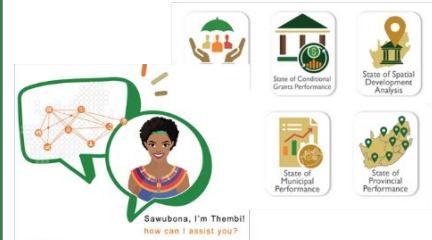- Building visualizations and tools that are accessible becomes critical

Public Value Data Ecosystem

Breaking data silos and egos through building robust public value data ecosystem

Strategic Intent

- Shared data for shared public value
- Transparency
- Co-governance
- Knowledge co-creation

OUR SINGLE SOURCE OF TRUTH

Sawubona, I'm Thembi! how can I assist you?

SO WHAT?

Coordinating WASH data and ensuring accessibility for underserved communities in high income settings

Scene Setting:
- **Fragmented** data (with many **gaps**)
- Difficult to **use** and **access**
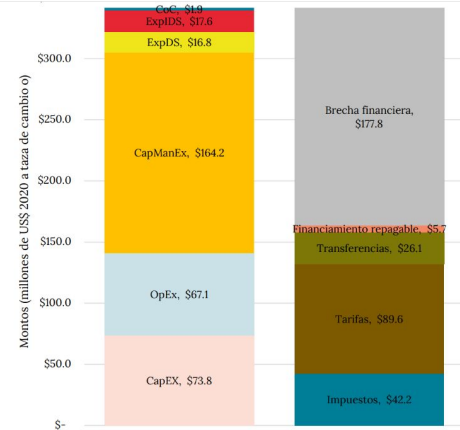- No clear picture of the problem

Responses:
- **Coordination**
- **Access** to data
- Clear **policy** to protect from extractive data

DIG DEEP

Increasing trust in open data for investment decisions

- Different, conflicting, data about financial flows with lack of trust in data that are not one's own
- Example: WASH sector finance strategy in Honduras
  - Open, on-request and estimated data on financial flows from different databases and institutions
  - Taken together, obvious some can never be true
- Tension between: 1) finding the 'best' or perfect data, 2) having data that are credible enough to developing strategies

Balancing client privacy with donor data expectations

How can we optimize data collection and sharing in a way that is as **non-invasive** and **respectful** as possible?

- Make better use of **independently verifiable** data (such as mobile payments)
- **Limit questions** to those that are essential

SOIL

Leverage your empathy: Always ask yourself how YOU would feel if you were in the client's place

Discussion facilitation

- All ideas welcome!

- Please join a open WASH data challenge discussion to share your questions and experiences
  - 1 facilitator per table
  - 1 chart writer

- Choose a discussion, when full, please join another discussion

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Group discussions

All ideas welcome! Please join 1 discussion group.

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Reporting back

Let's stay in touch!

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Thank you!

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