



Capacity building in the global south:

Health Information Systems Program (HISP)



Professor Kristin Braa
Hisp.uio.no, dhis2.org

Department of Informatics, University of Oslo



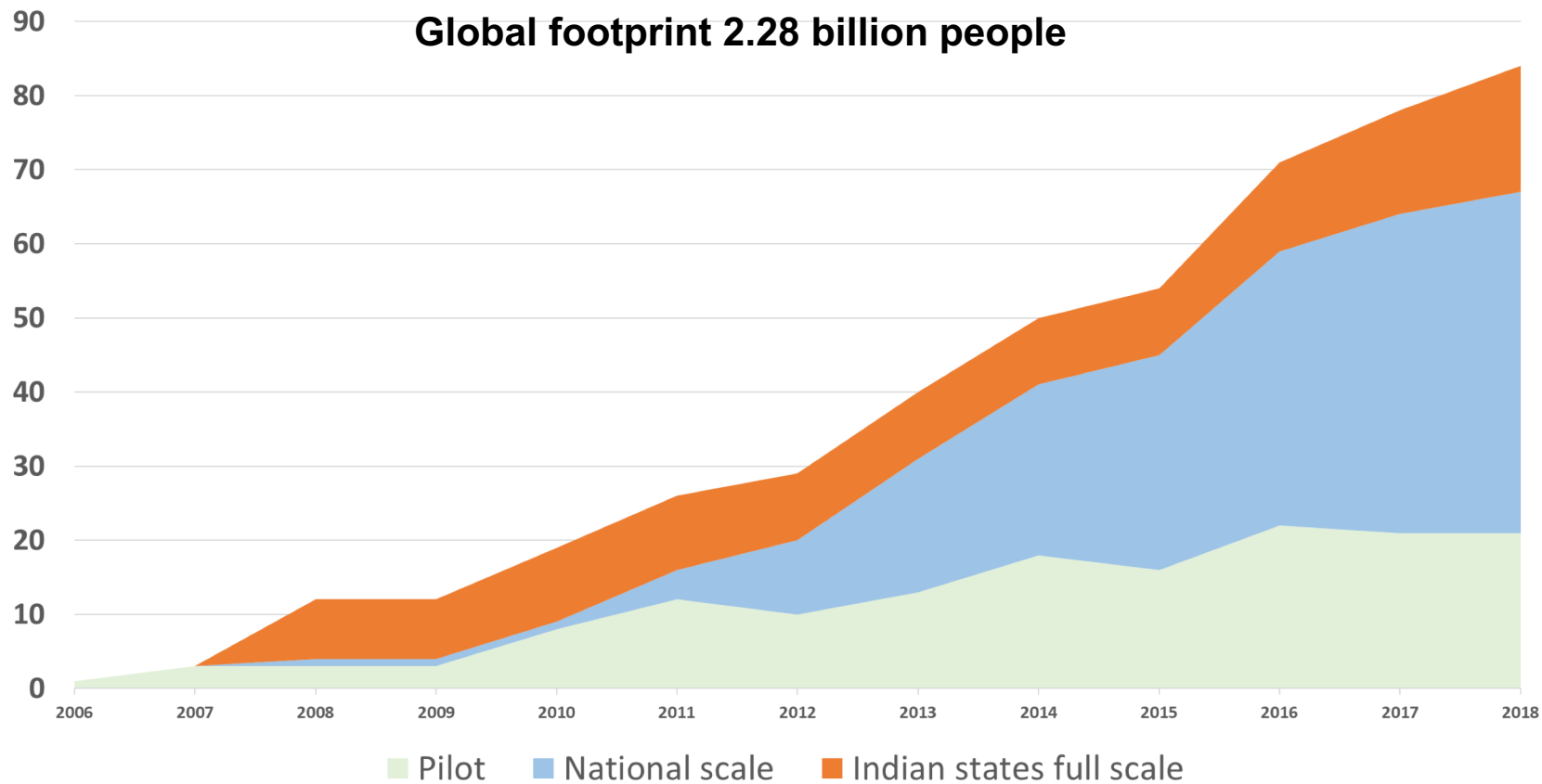
Health Information Systems Program

- HISP a global **action research network** initiated in collaboration with University of Western Cape in 1994 funded by Norad.
- DHIS 2 is an open source software for reporting, analysis and dissemination of data for **all** health programs
- Shared and integrated data warehouse for essential health data: **information for action**
- **Aggregate, events, and patient data**
- **Generic and generative platform** - supports a wide range of uses also beyond the health sector
- Financed and endorsed by all Global Health agencies, WHO, Norad, Global Fund, PEPFAR UNICEF, Gates Foundation, GAVI, CDC
- WHO collaborative center
- DHIS2 used in 88 countries in the Global South

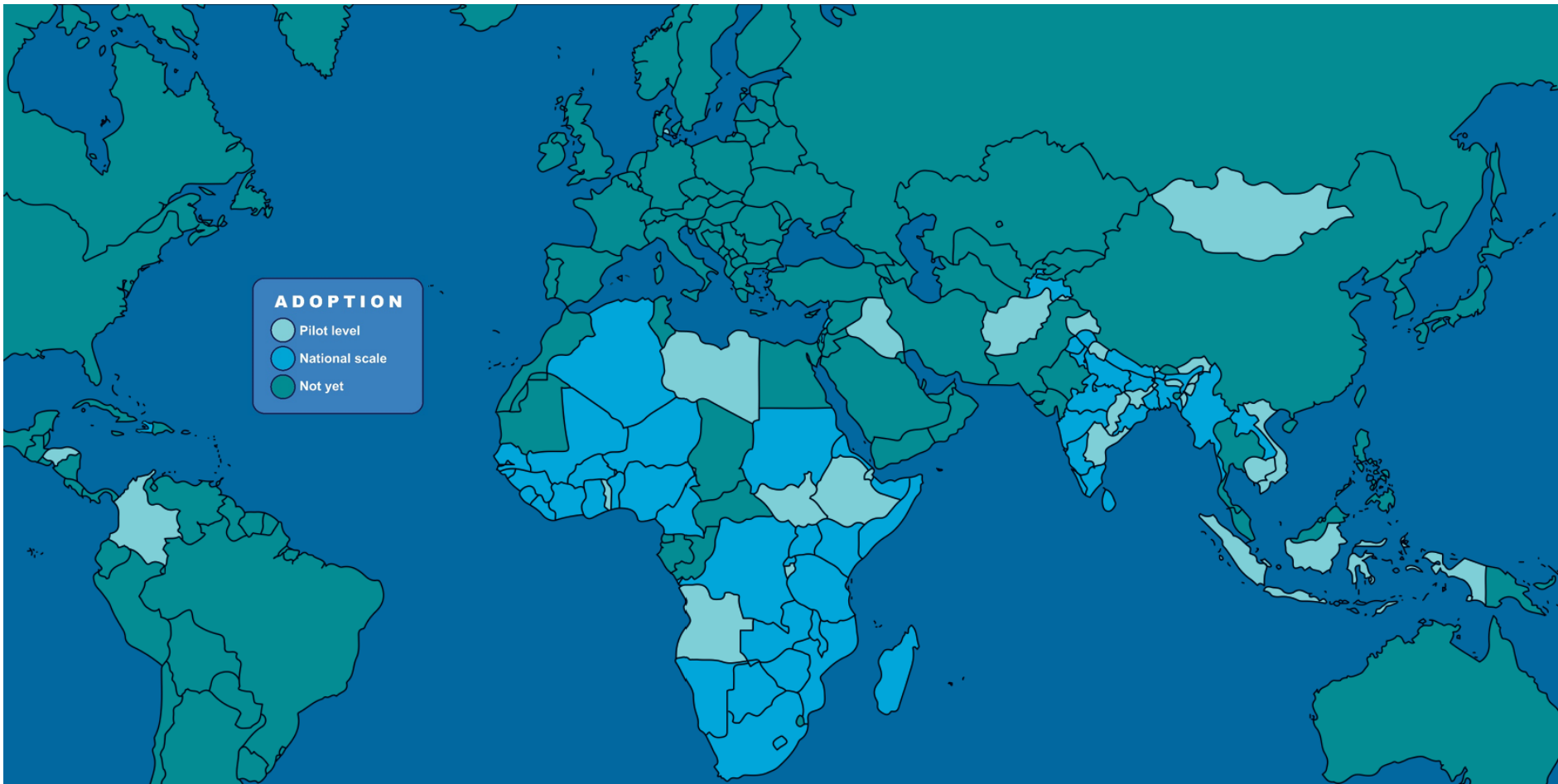


Growth in DHIS2 MoH implementations 2006-2018

Global footprint 2.28 billion people



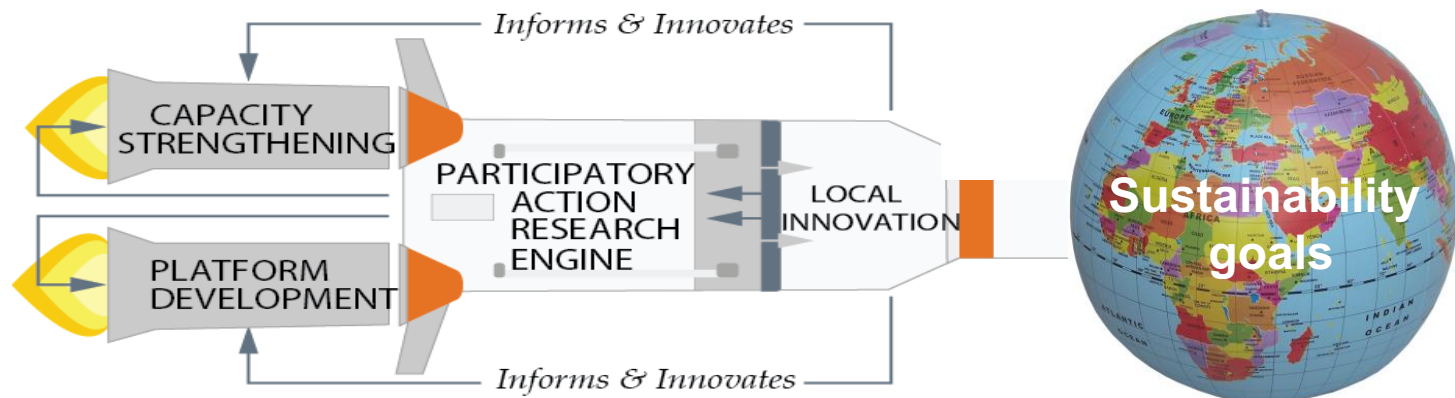
DHIS2 adoption by MoH 2018



+ 60 NGO's, 58 PEPFAR countries, 60+ PSI countries, 10 global organizations

Action research: Capacity building through innovation

- Strengthening national health information systems
 - Collaborating with Ministries of Health
 - Participatory design (Scandinavian tradition)
- Action Research: Building knowledge on implementing HIS while building systems on the ground through partnerships.
- HISP PhD school at University of Oslo: 50 PhDs graduated, 30 active
- International Masters programs in South Africa, Mozambique, Malawi, Tanzania, Ethiopia, Sri Lanka (400 graduated)
- Regional DHIS 2 Academies, 83 Academies since 2011, 4500 graduated



A growing DHIS 2 community

- Open source development in a global community
 - HISP Vietnam, HISP Tanzania (UDSM), HISP Uganda, HISP India, HISP US, HISP UiO, HISP South Africa, PSI
- Implementing partners in multiple countries
 - HISP Nigeria, HISP Rwanda, HISP Bangladesh, HISP West and Central Africa, Akros, RTI, CHAI, PATH, PSI and many more
- Collaboration with global agencies and NGOs
 - Norad, WHO, Global Fund, PEPFAR, Gates Foundation, GAVI, UNICEF, CDC, PSI, CHAI, MSF, NRC
- WHO develops standard health apps on DHIS2 with recommended indicators and best practice for data use at country level.

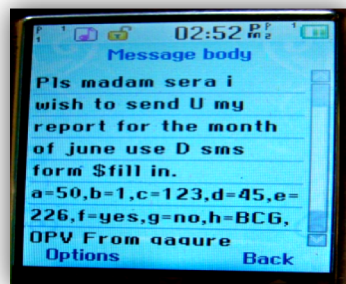
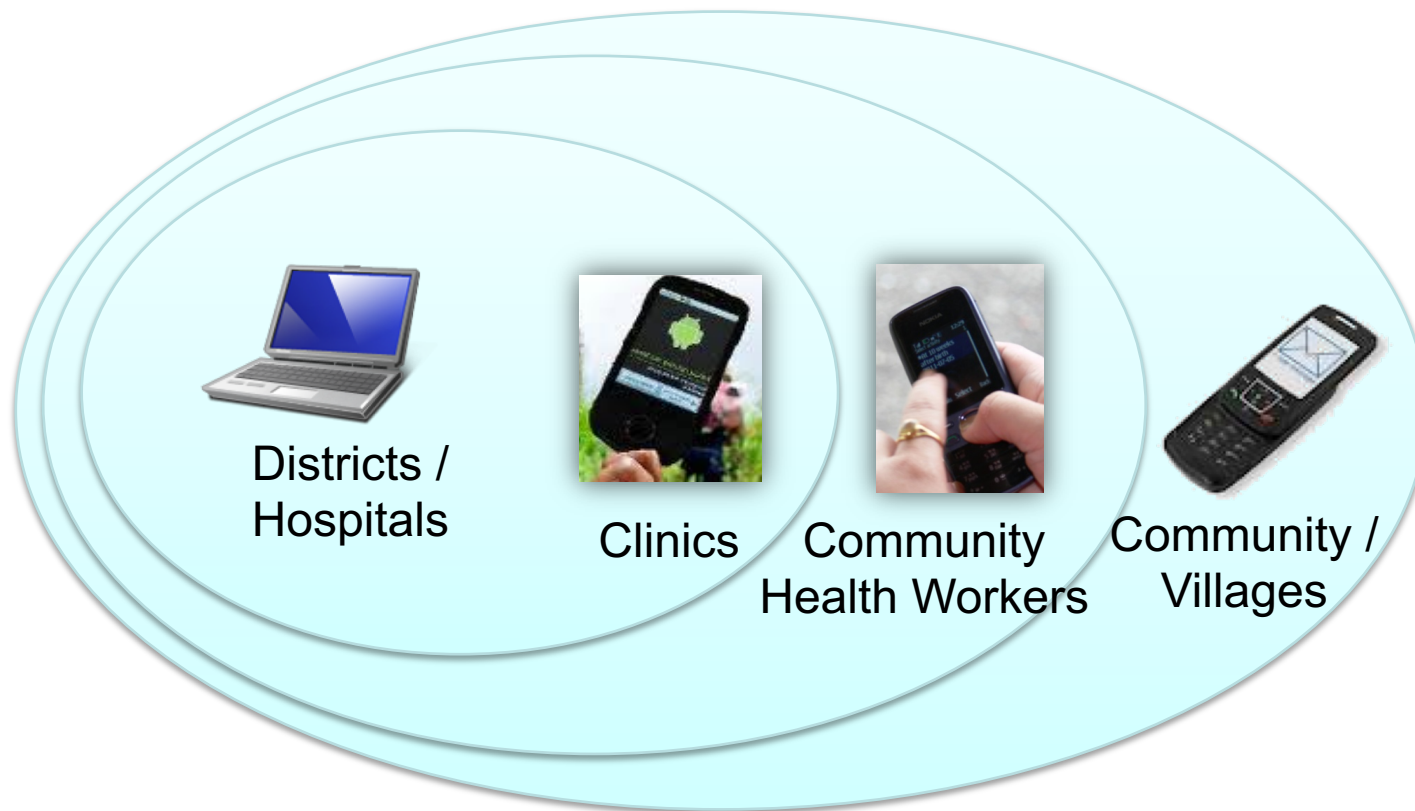
DHIS2 as a generic platform: beyond health



- Water and Sanitation
- Nutrition
- Education
- Agriculture

- Reuse of software features
- Reuse of IT capacity in country/region
- Leverage global community

Extending the DHIS reach through mobiles



SMS



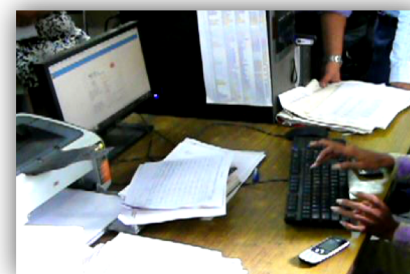
Java



Browser



Android

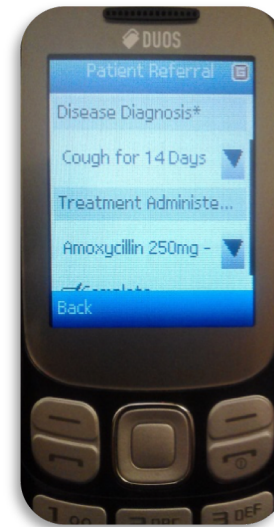


PC/laptop/tablet

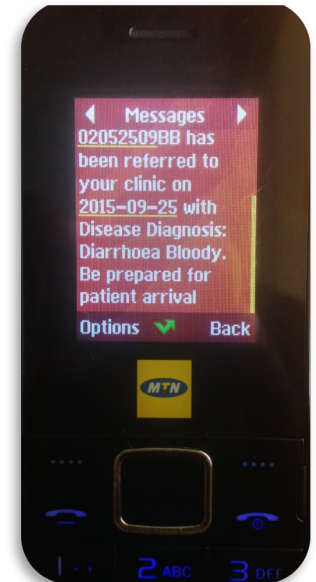
DHIS2 mobile working on the simplist phones to track and refer patients from the community to clinic.



Community health work in Malawi

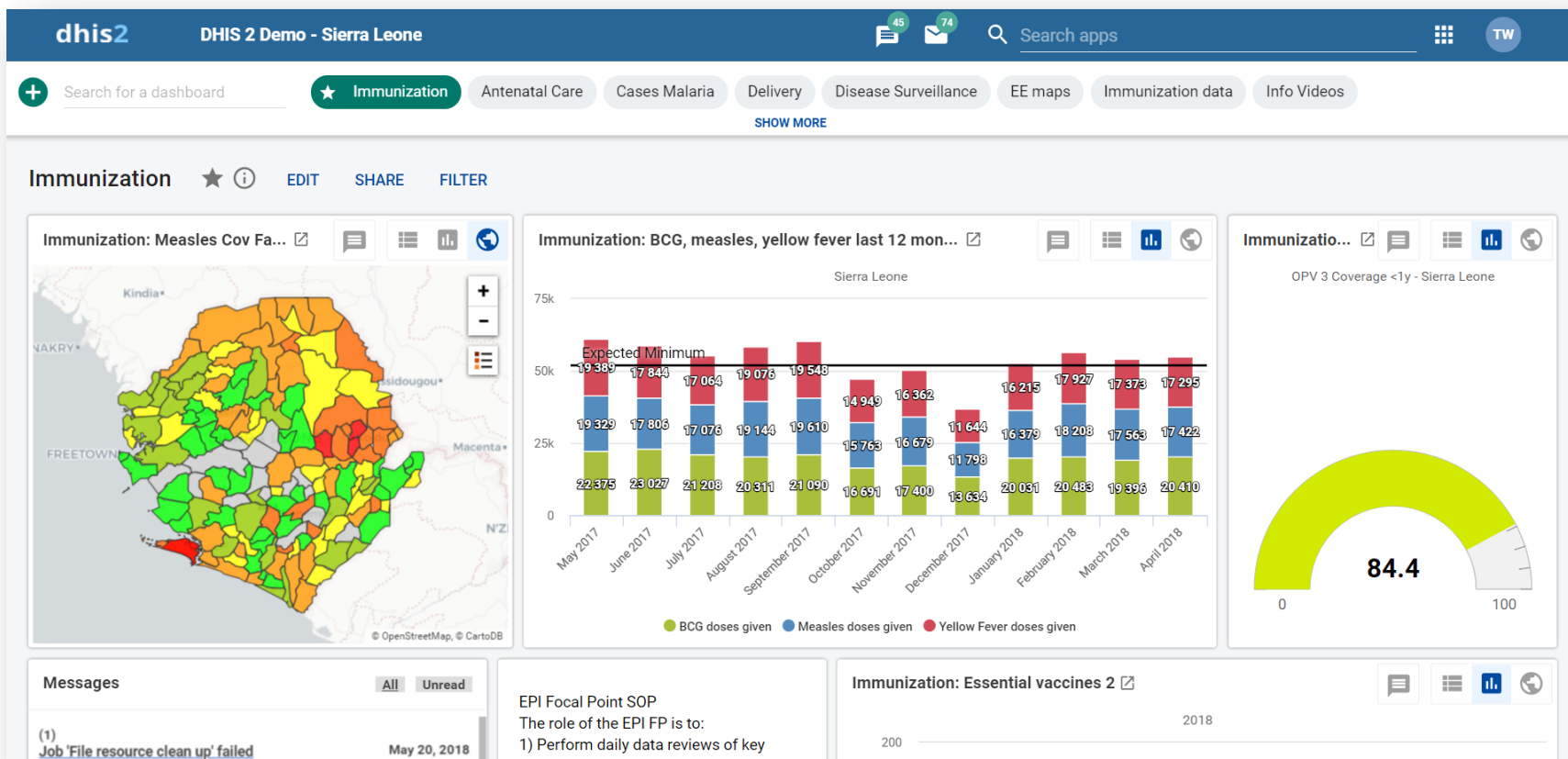


Referring
emergency patients
at community level
to the clinic



Automatically sent
alert message sent
to clinic when an
emergency patient
is referred from the
community.

Customizable dashboards for all with real-time data





**Training Mobile Dashboard for
Head of Facilities in Indonesia**

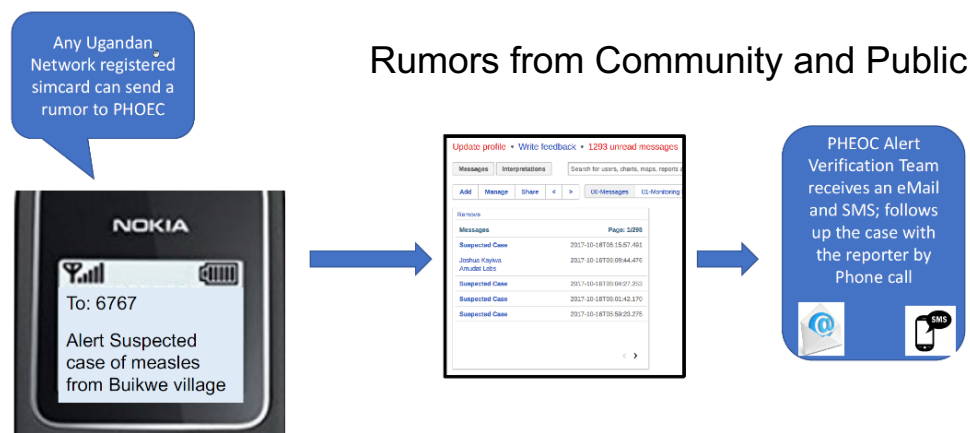
DHIS2 for disease surveillance

- preventing the next big Ebola outbreak

- Ebola outbreak in West Africa in 2014 triggered a need for better routine surveillance systems
- CDC and UiO collaboration (GHSA) on case-based surveillance systems, focused on early detection, **communication** between health clinics and the national laboratories
- Uganda, leading the way, implementing DHIS2 for surveillance at implement national scale

Smart Android phone Case Registration

DHIS2 facility registered user with access to Android Phones, log into the DHIS2 tracker and register a suspected/confirmed case



Digital platforms as global public goods



*Global
Footprint*

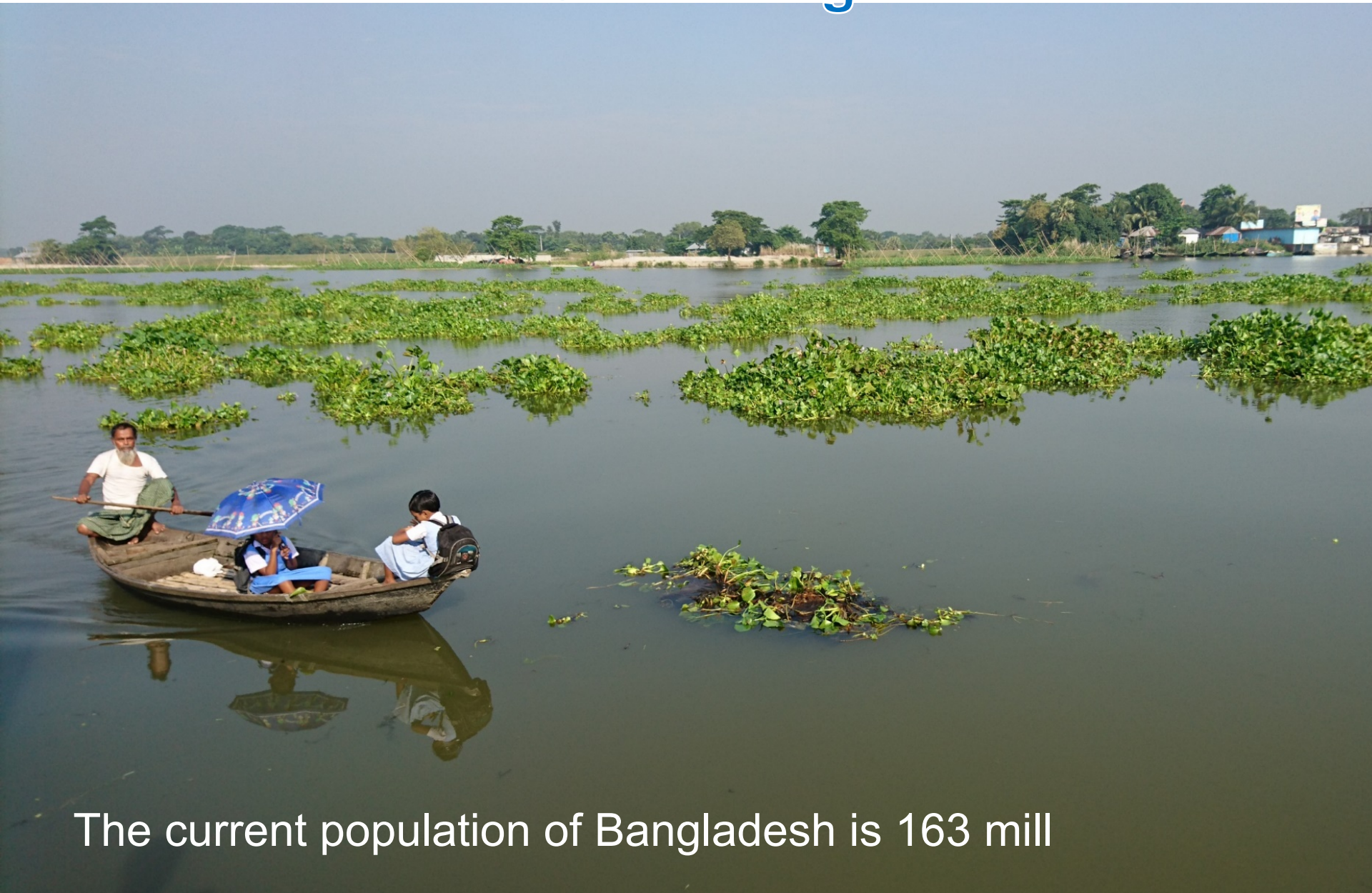
*National
Scale*

*Local
Action*

**DHIS2 mobile
used to assist
supervisors
conduct clinic
supervision
and support**



DHIS2 in Bangladesh since 2011



The current population of Bangladesh is 163 mill