



UiO : **Department of Informatics**
University of Oslo

HISP, DHIS2 og COVID-19 overvåkning

FTU nettmøte: Digitale løsninger i møte med COVID-19

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HISP and DHIS2 – a quick background

- **Health Information Systems Program (HISP)**

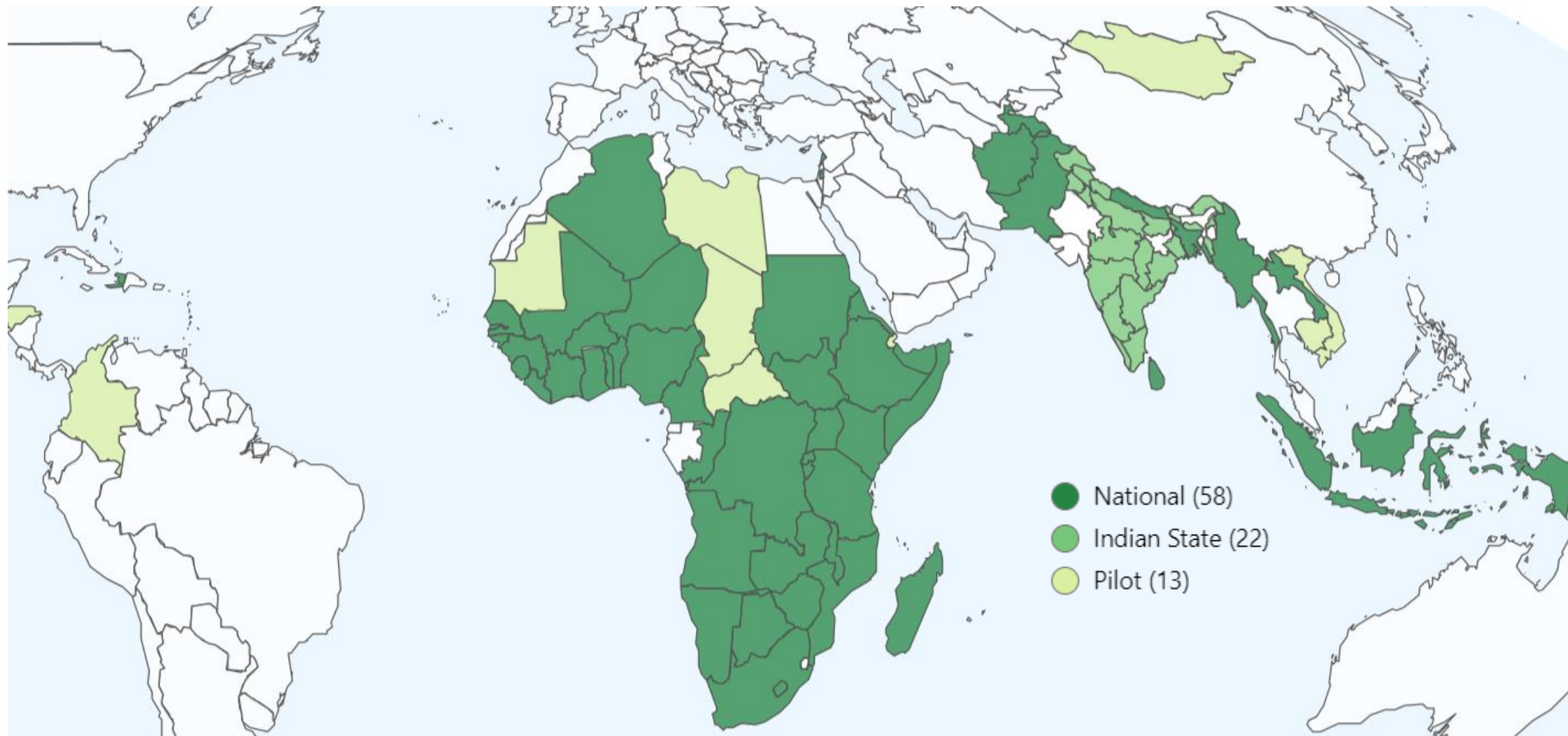
- Global movement to strengthen Health Information Systems in developing countries
- Started in 1994, in South Africa, by University of Western Cape and University of Oslo, with Norad funding
- Today there are 13 HISP groups in Africa, Asia and Latin America, and at University of Oslo (UiO), Norway
- HISP at UiO coordinates DHIS2 software development, capacity building programs and action research/PhD program on HIS strengthening

- **DHIS2**

- Open source software platform for health information since 1996
- UiO is the governing body
- A global community of developers, implementers, and users
- Used by MoH in 72 countries
- Funding by Norad, GAVI, Global Fund, Gates, PEPFAR, UNICEF, CDC

HISP Vietnam
HISP India
HISP Sri Lanka
HISP Bangladesh
HISP Tanzania
HISP Uganda
HISP Rwanda
HISP Malawi
HISP Mozambique
HISP South Africa
HISP Nigeria
HISP West and Central Africa
HISP Colombia
HISP UiO

DHIS2 adoption around the world (MoH HIS implementations)



Global «footprint» 2.4 billion people

+ 60 NGO's, 58 PEPFAR countries, 60+ PSI countries

Read more on dhis2.org/inaction and facebook.com/dhis2

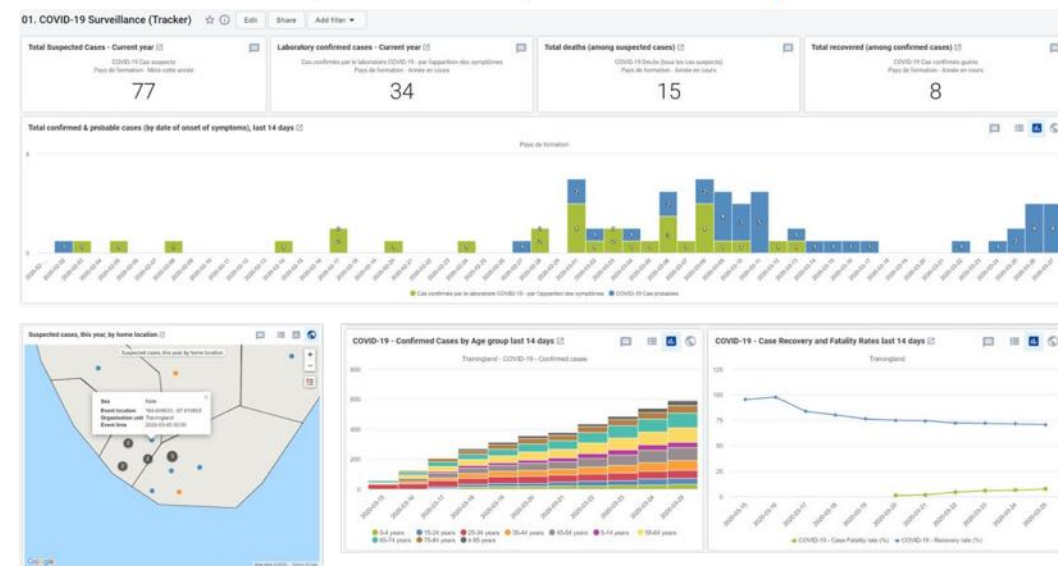
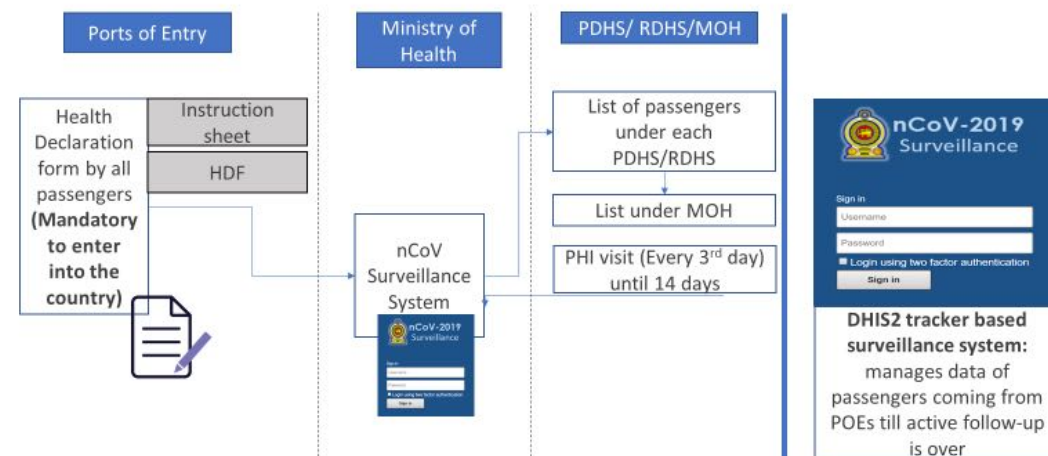
DHIS2 as disease surveillance platform (pre COVID-19)

- Used in Liberia during Ebola outbreak (2014-2015)
- Collaboration with CDC to strengthen disease surveillance features on DHIS2 the following years (2016-2018)
- Ongoing collaboration with GAVI and WHO to develop standard DHIS2 packages and guidance on case-based and aggregate disease surveillance
- Supporting WHO AFRO to establish regional disease surveillance using DHIS2 and standard reporting from countries (2020-2021)
- Supports integrated routine surveillance with reporting on all notifiable diseases from health facilities into online national HIS for rapid response
- Integrated part of the national health information system
- Most AFRO countries do weekly electronic aggregate reporting on notifiable diseases (IDSR), and a few have implemented case based.

DHIS2 and COVID-19 surveillance

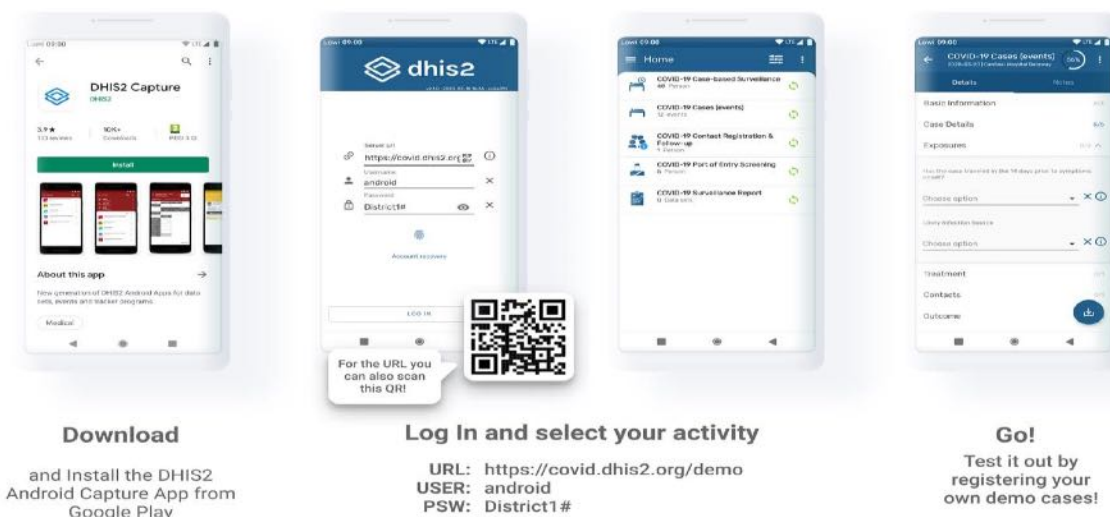
- Sri Lanka MoH implemented Port of Entry screening & follow-up in DHIS2 end of January, developed by local HISP Sri Lanka team
- Many countries have requested support to set up DHIS2 for COVID-19 surveillance
- First COVID-19 digital packages released by UiO on March 11, based on WHO guidelines
- Building on existing platform and support structures
- Leveraging regional HISP network to quickly support countries
- Very active online community with users, implementers and developers supporting each other
- Received additional funds from Norad to scale up the COVID-19 support to countries

nCoV surveillance (Sri Lanka): Flow of management in Active surveillance

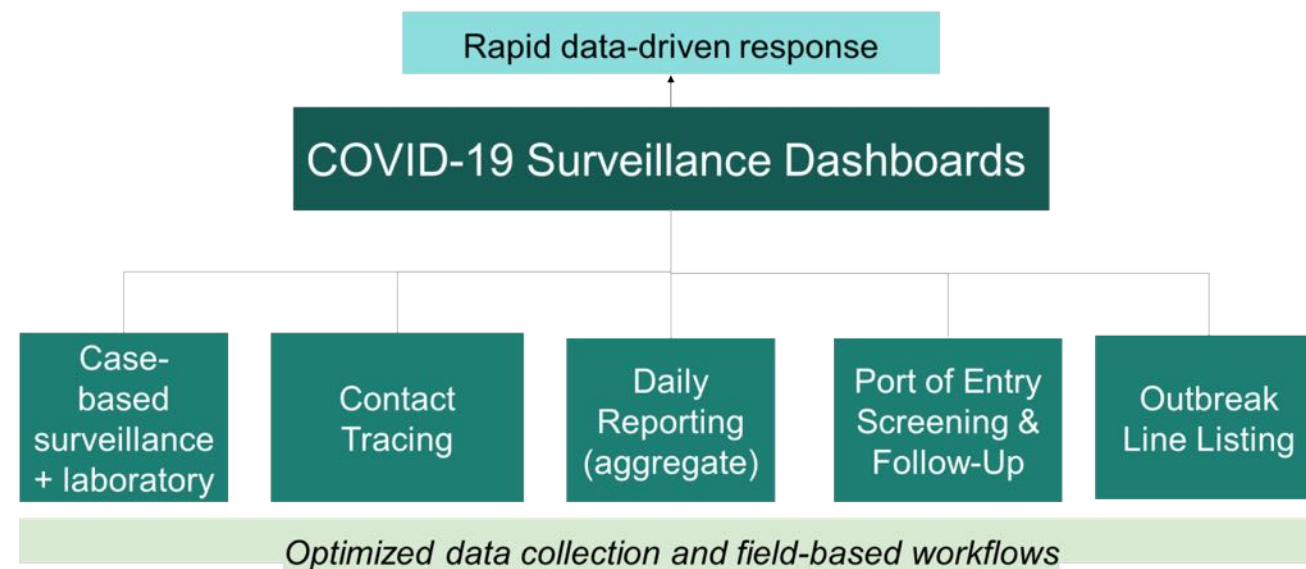


DHIS2 COVID-19 Digital Packages

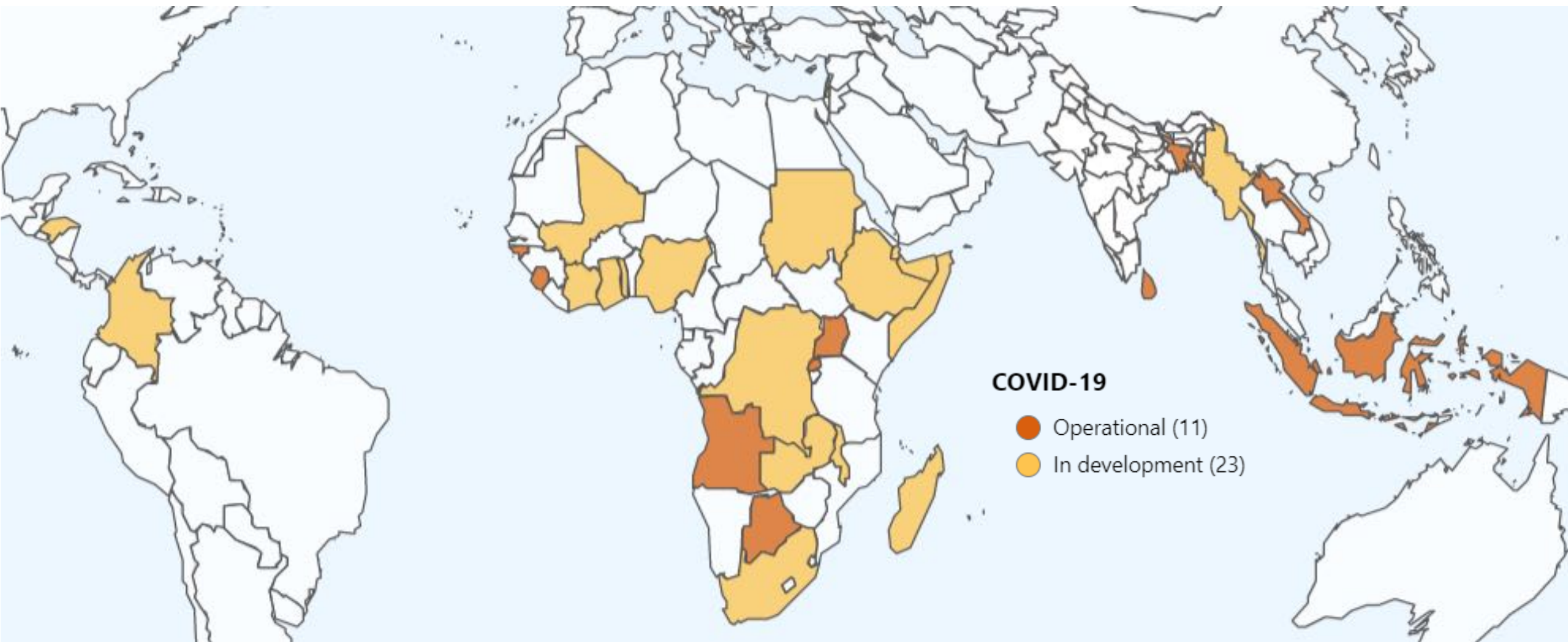
- **Case-based surveillance tracking:** enrolls & tracks suspected cases; symptoms, demographics, risk factors & exposures; creates lab requests; links confirmed cases with contacts; and monitors patient outcomes
 - Standalone for COVID-19 or integrated into existing routine disease surveillance & response system
- **Contact-tracing program:** strengthens active case detection activities and follow-up of contacts
- **Ports of Entry tracker:** register travelers at Ports of Entry for 14-day monitoring and follow-up
- **Line-listing and aggregate data collection** tools for high-burden scenarios
- All feeding into **COVID-19 dashboards** to support data driven rapid response



COVID-19 Digital Data Packages



COVID-19 Digital Data Package Adoption



All in all interest from 62 countries so far, including Norway. More updates on <https://www.dhis2.org/covid-19>

Useful references

HISP programme

<http://www.hisp.uio.no/>

DHIS2

<https://www.dhis2.org/>

DHIS2 COVID-19

Demo : covid.dhis2.org/demo

Information page: dhis2.org/covid-19

Community page: community.dhis2.org

Contact us: covid@dhis2.org

Thank you!