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Digital Health in Global Health

An overview of ongoing trends and dynamics

HELLO!

I am Nicolas de Borman

CEO & Founder, BlueSquare

You can find me at @nicolasdeborman

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Initiatives

- ✓ Health Data Collaborative
- ✓ Communities of Practice
- ✓ Global Health Data Platforms
- ✓ OpenHIE
- ✓ DHIS2
- ✓ IHRIS
- ✓ Health Financing
- ✓ LMIS
- ✓ Hospital Level
- ✓ Health Center Level
- ✓ Community Health Workers
- ✓ mHealth
- ✓ Apps

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1

GLOBAL INITIATIVES

Health Data Collaborative, Communities of Practice, Global Health Data Platforms…

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www.healthdatacollaborative.org

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HEALTH DATA COLLABORATIVE

Bloomberg Philanthropies

BILL & MELINDA GATES foundation

Foreign Affairs, Trade and Development Canada

BMZ Federal Ministry for Economic Cooperation and Development

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

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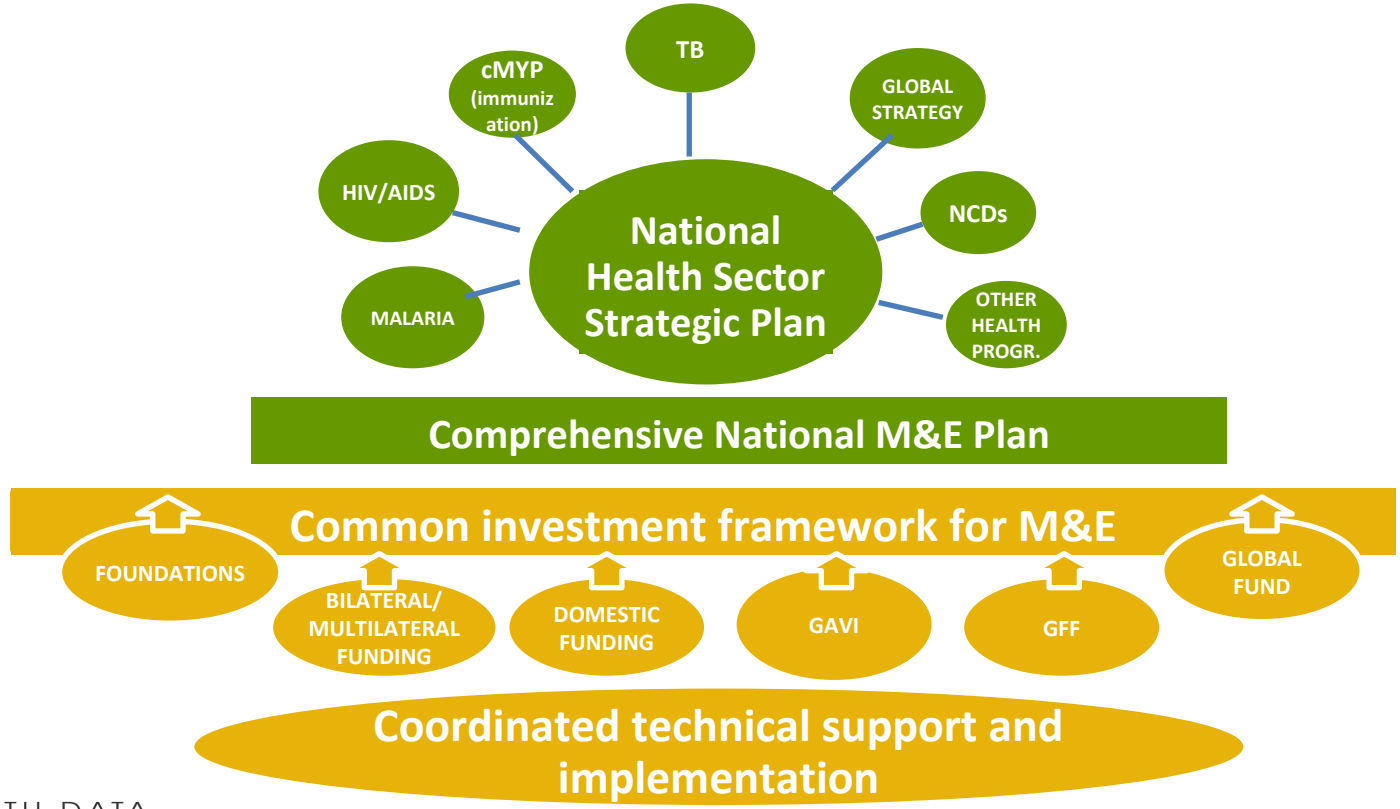
GETTING BEHIND COUNTRY PRIORITIES



HEALTH DATA COLLABORATIVE

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YOU CAN ALSO BROWSE INDIVIDUAL INDICATORS:

Health status | Risk factors | Service coverage | Health systems

SERVICE COVERAGE

Reproductive, maternal, newborn, child and adolescent

- Demand for family planning satisfied with modern methods (38 kB)
- Contraceptive prevalence rate (39 kB)
- Antenatal care coverage (42 kB)
- Births attended by skilled health personnel (45 kB)
- Postpartum care coverage (37 kB)
- Care-seeking for symptoms of pneumonia (42 kB)
- Children with diarrhoea receiving oral rehydration solution (ORS) (41 kB)
- Vitamin A supplementation coverage (37 kB)

Immunization

- Immunization coverage rate by vaccine for each vaccine in the national schedule (36 kB)

HIV

Tuberculosis

- TB patients with results for drug susceptibility testing (35 kB)
- TB case detection rate (41 kB)
- Second-line treatment coverage among multidrug-resistant tuberculosis (MDR-TB) cases (36 kB)

Malaria

- Intermittent preventive therapy for malaria during pregnancy (IPTp) (36 kB)
- Use of insecticide treated nets (ITNs) (36 kB)
- Treatment of confirmed malaria cases (36 kB)
- Indoor residual spraying (IRS) coverage (36 kB)

Neglected tropical diseases

- Coverage of preventive chemotherapy for selected neglected tropical diseases (38 kB)

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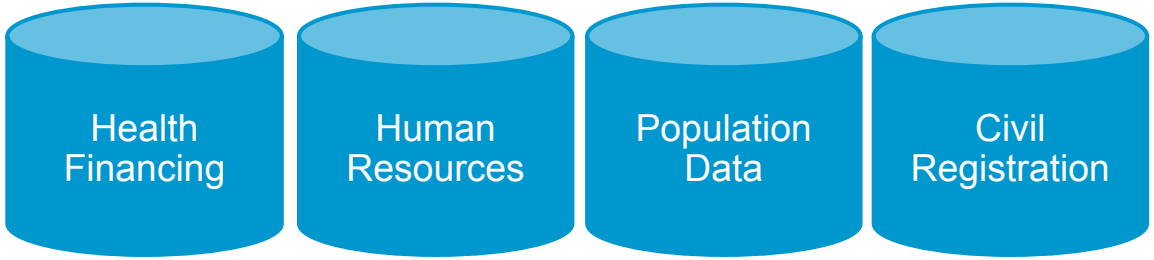
First alignment priorities

Second priorities



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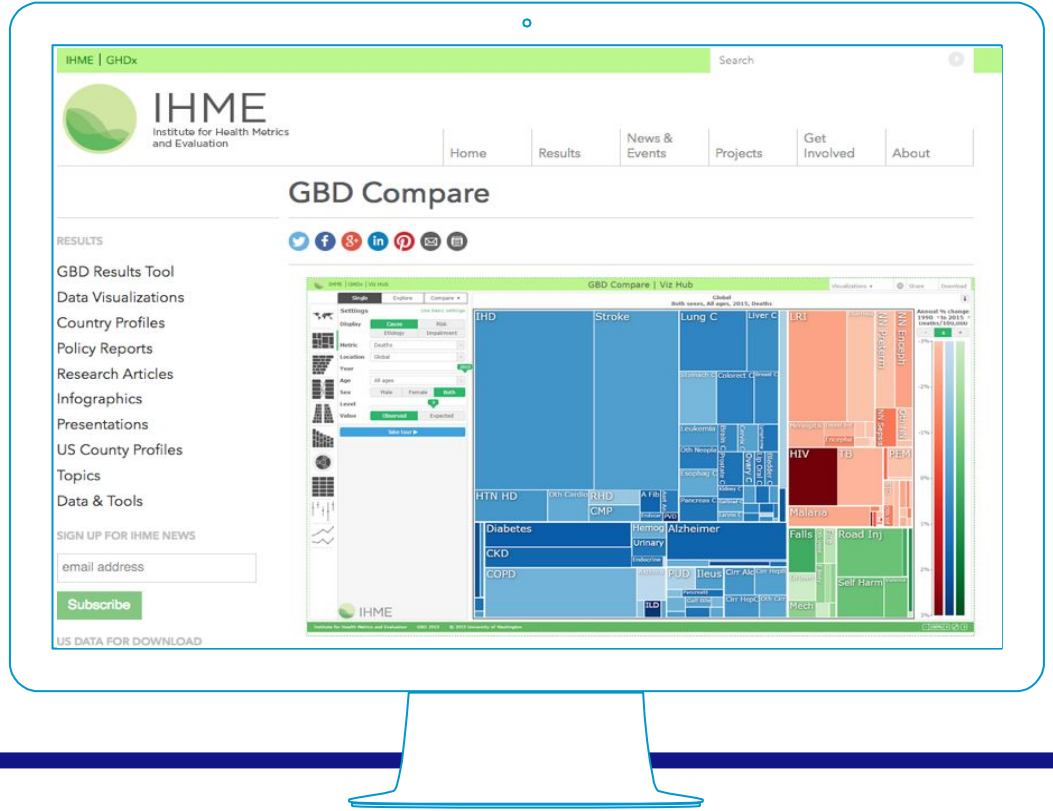
COMMUNITIES OF PRACTICE:
FROM MHEALTH TO DIGITAL HEALTH

GLOBAL HEALTH DATA PLATFORMS

What?
Crunching “any” available data to measure global health

Disease burden:
Healthdata.org



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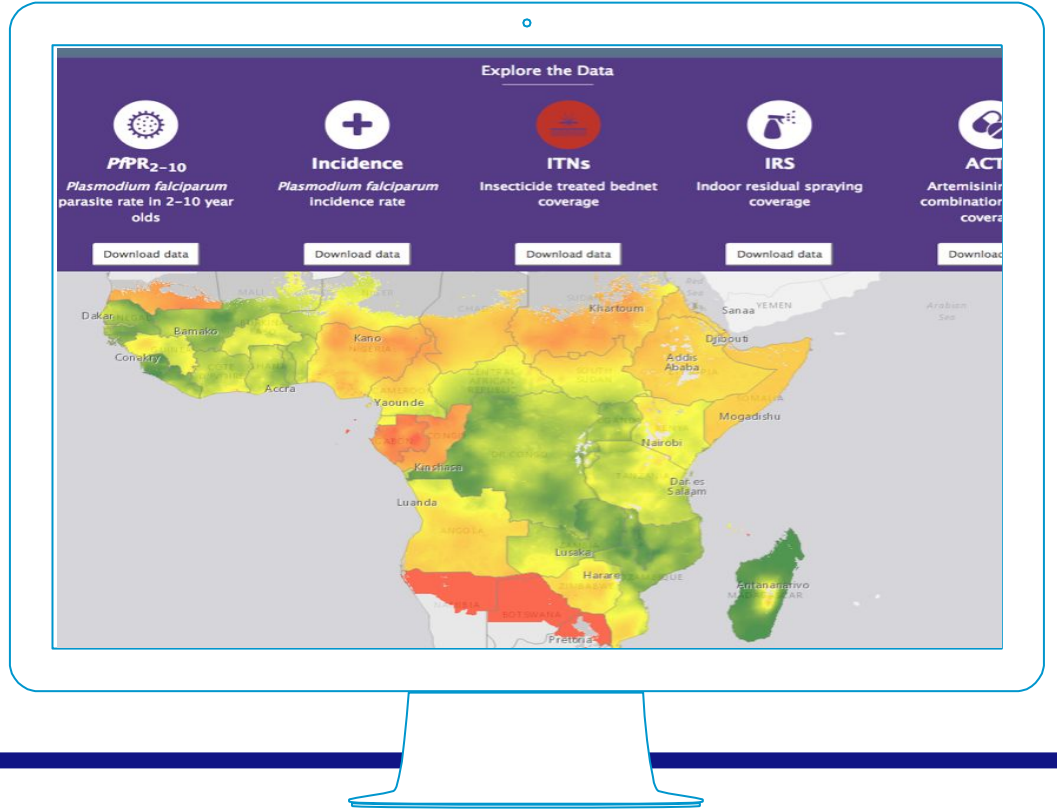
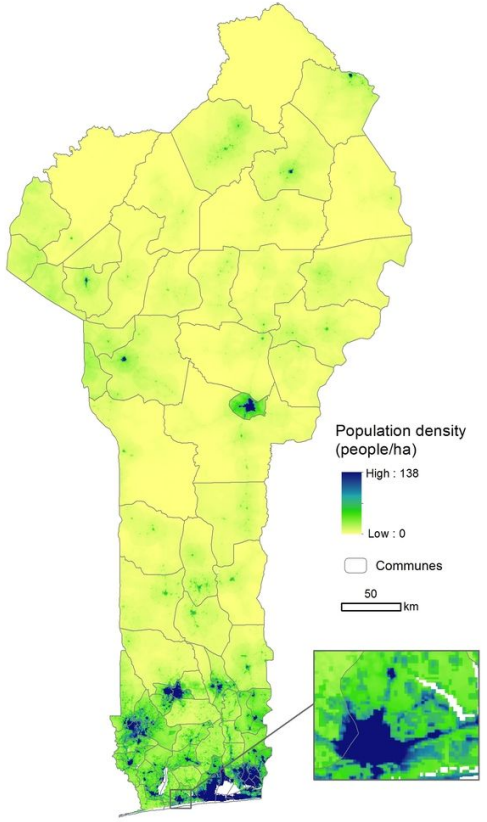
Example:
Malaria Atlas



Example:

WorldPop
High Resolution Population Density Maps

(30% Belgian Project @ ULB)



GLOBAL HEALTH DATA INITIATIVES (BELGIUM)

The Global Health Barometer

VUB – the Global Health Barometer

Barometer based on **medical record data mining**

GLOBAL HEALTH DATA INITIATIVES (BELGIUM)

BlueSquare –
the integrated data platform initiative (IDPI)

Measuring Primary Health Care Performance at scale using any existing data

Consortium with 2 other companies and the Bill & Melinda Gates Foundation

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2

COUNTRY-LEVEL DYNAMICS

DHIS2, OpenHIE, IHRIS, LMIS, Health Financing, Open Data…

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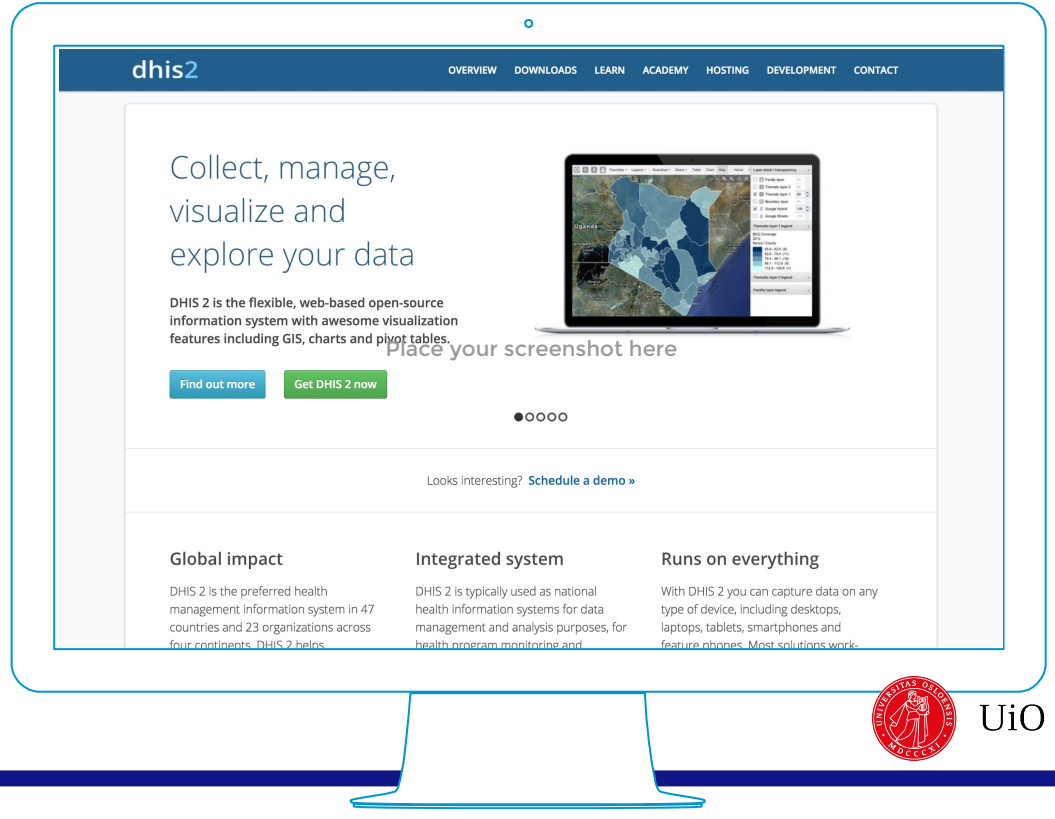
DHIS2: THE LEADING DATA MANAGEMENT SOFTWARE PLATFORM



UiO : University of Oslo

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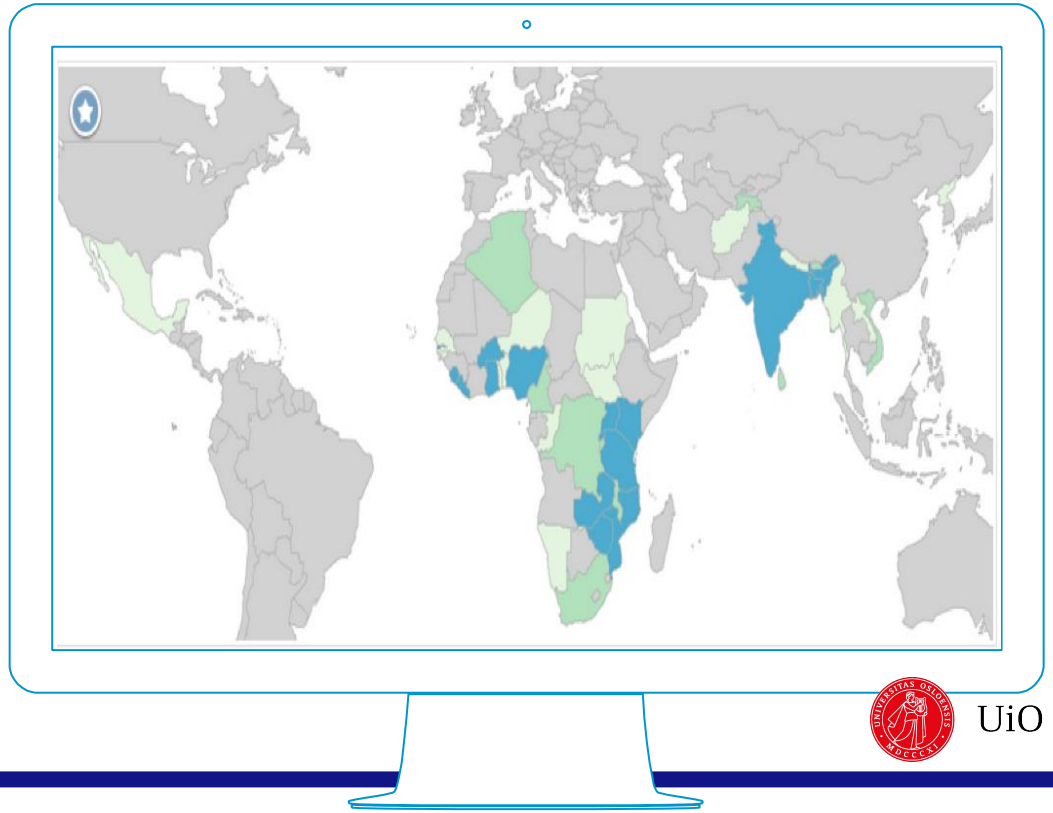
DHIS2: THE LEADING DATA MANAGEMENT SOFTWARE PLATFORM



UiO : University of Oslo

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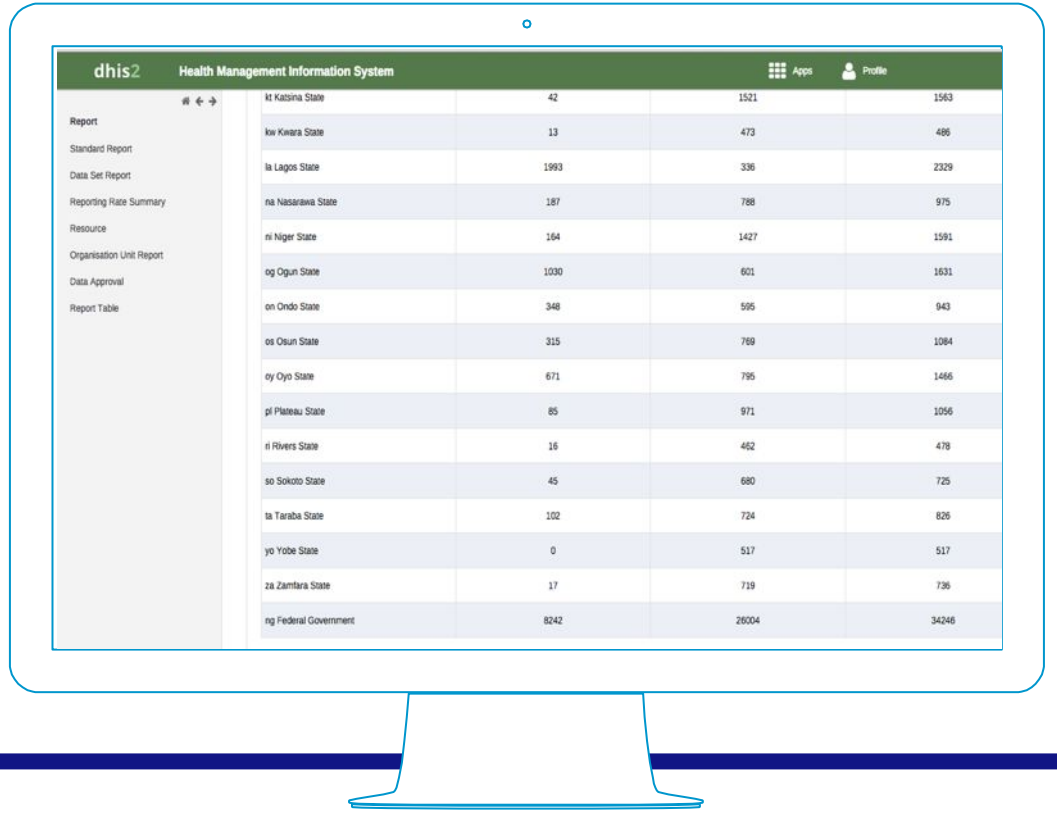
EXAMPLE IN NIGERIA

34,246
Health Facilities

8,242
Private



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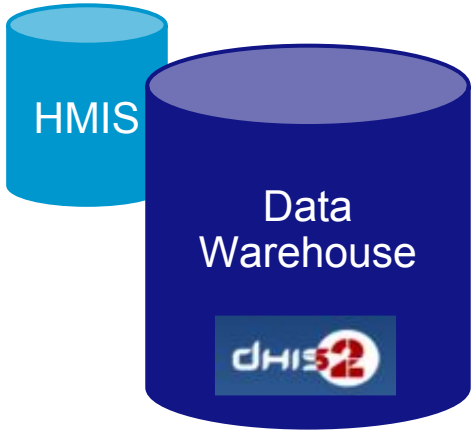
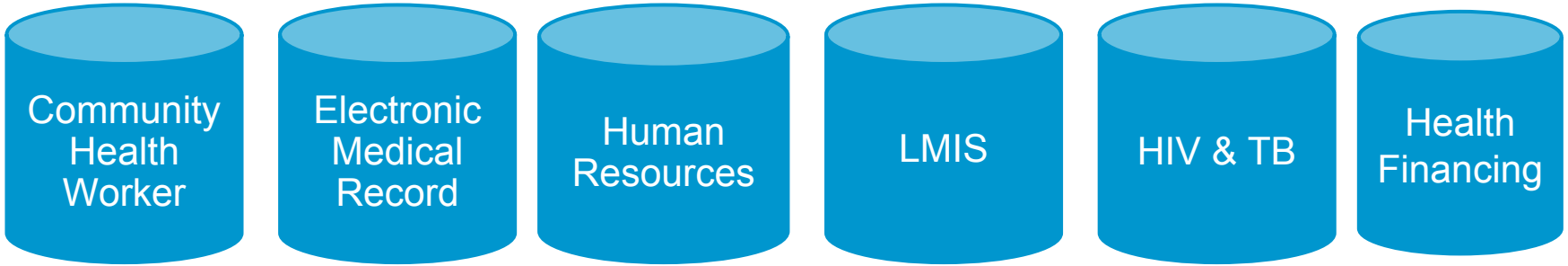
DHIS2 IN A TYPICAL DATA ECOSYSTEM



"DHIS2 effect"

Merge in DHIS2 of the disease specific M&E data systems



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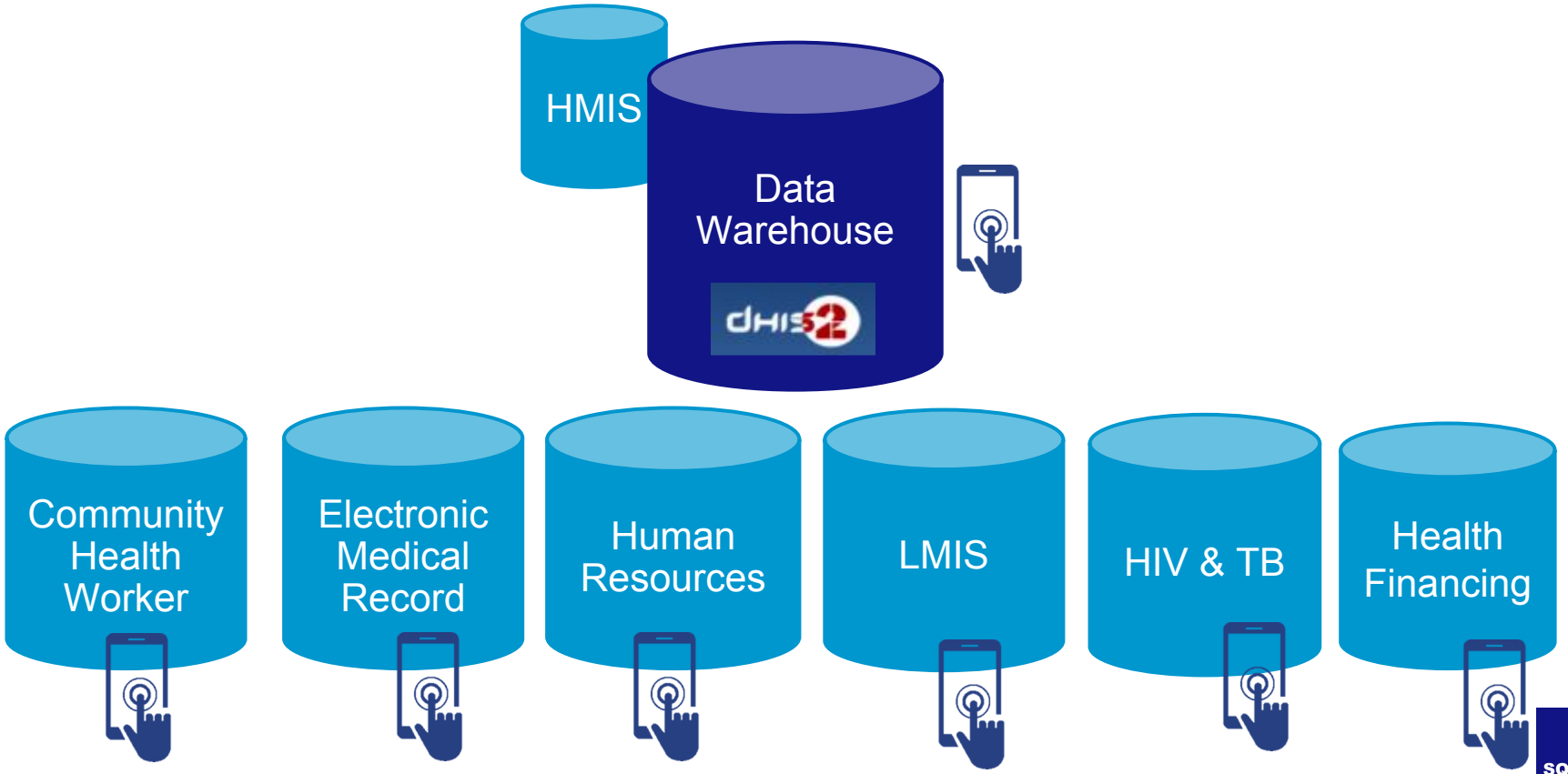
RISE OF MOBILE DEVICES IN ROUTINE SYSTEMS



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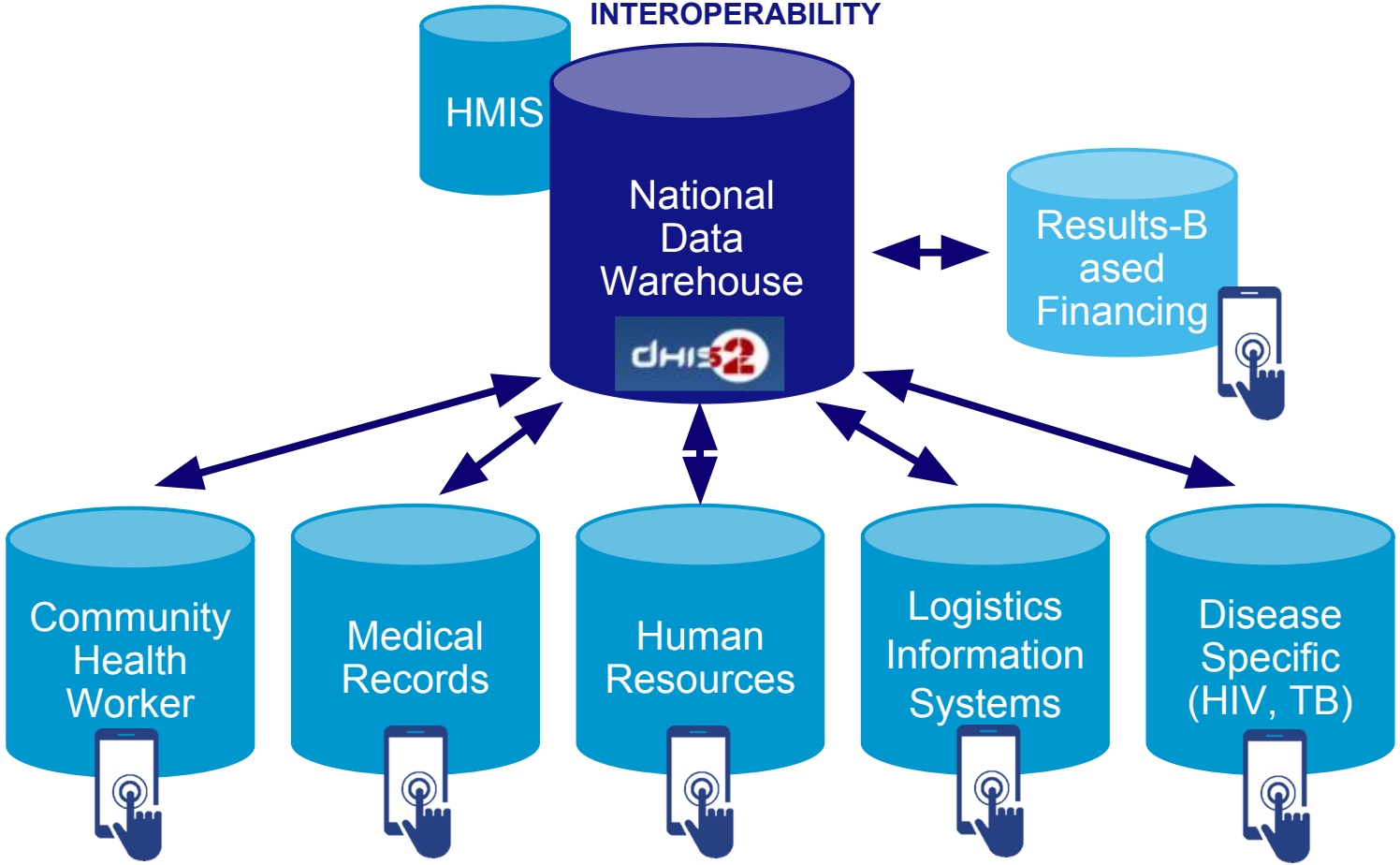
DATA SYSTEM INTEGRATION AND INTEROPERABILITY



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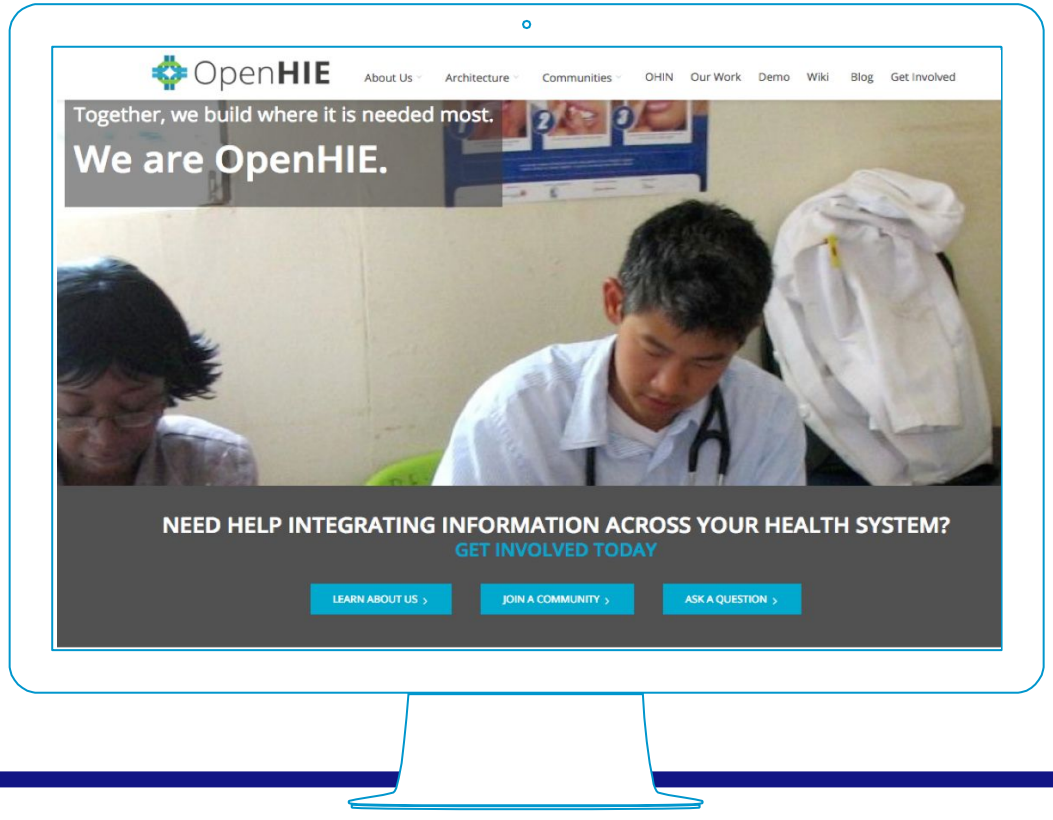
DATA SYSTEM INTEROPERABILITY



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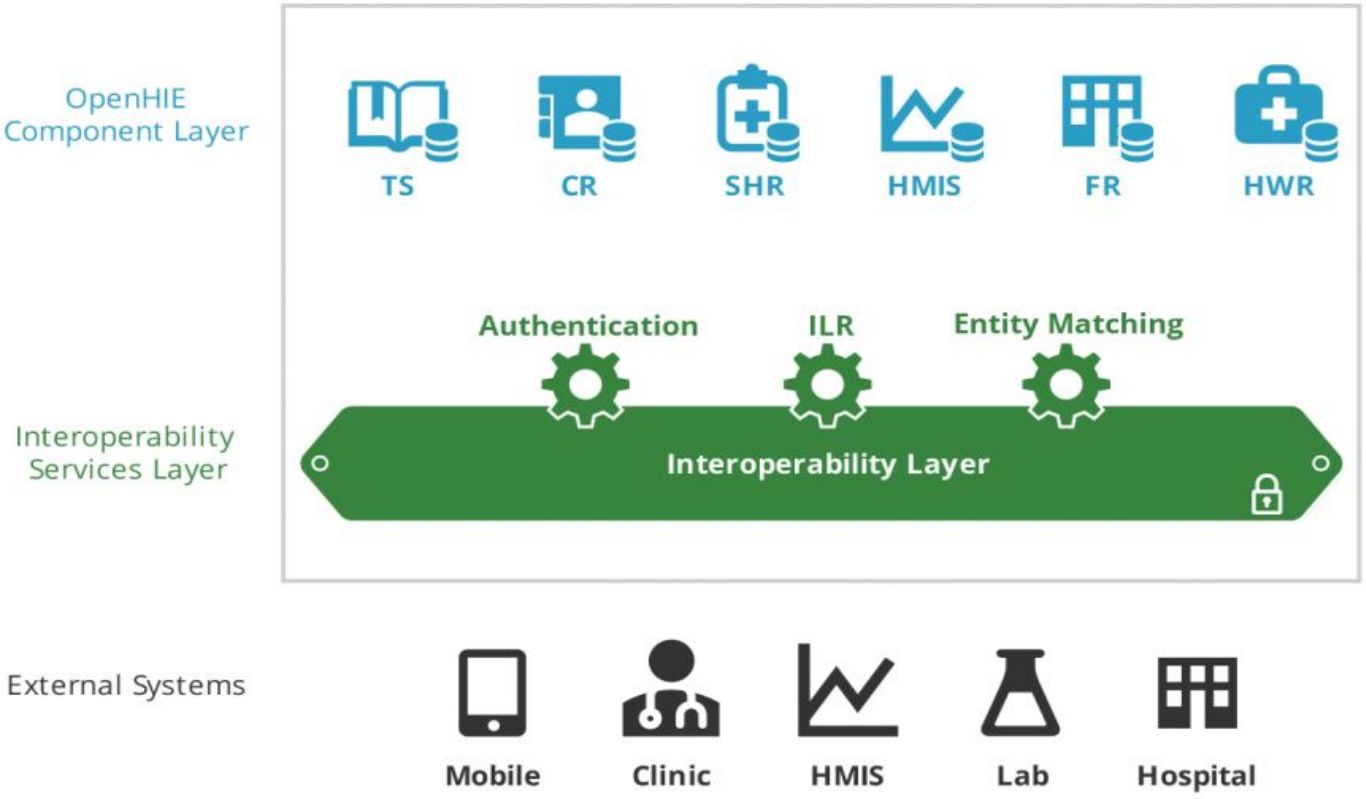
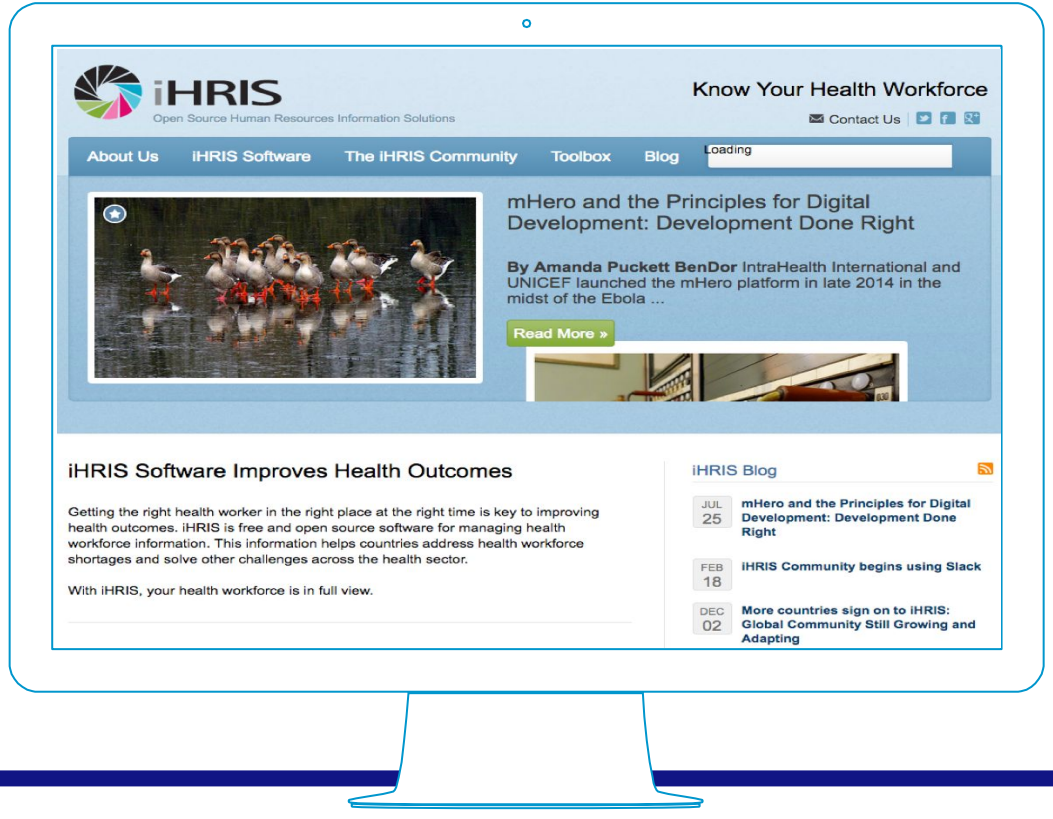

OpenHIE
Component Layer
TS
CR
SHR
HMIS
FR
HWR
Authentication
ILR
Entity Matching
Interoperability
Services Layer
Interoperability Layer
External Systems
Mobile
Clinic
HMIS
Lab
Hospital

HUMAN RESOURCES



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LOGISTICS AND INFORMATION SYSTEMS

mSupply

Microsoft Dynamics™

GROUPE EURATIC PISOFT

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IMIS

Open Source Health Insurance Data System

Swiss TPH

Swiss Tropical and Public Health Institute
Schweizerisches Tropen- und Public Health-Institut

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MAS Pilot

BIT - Step

Micro-health Insurance Data System

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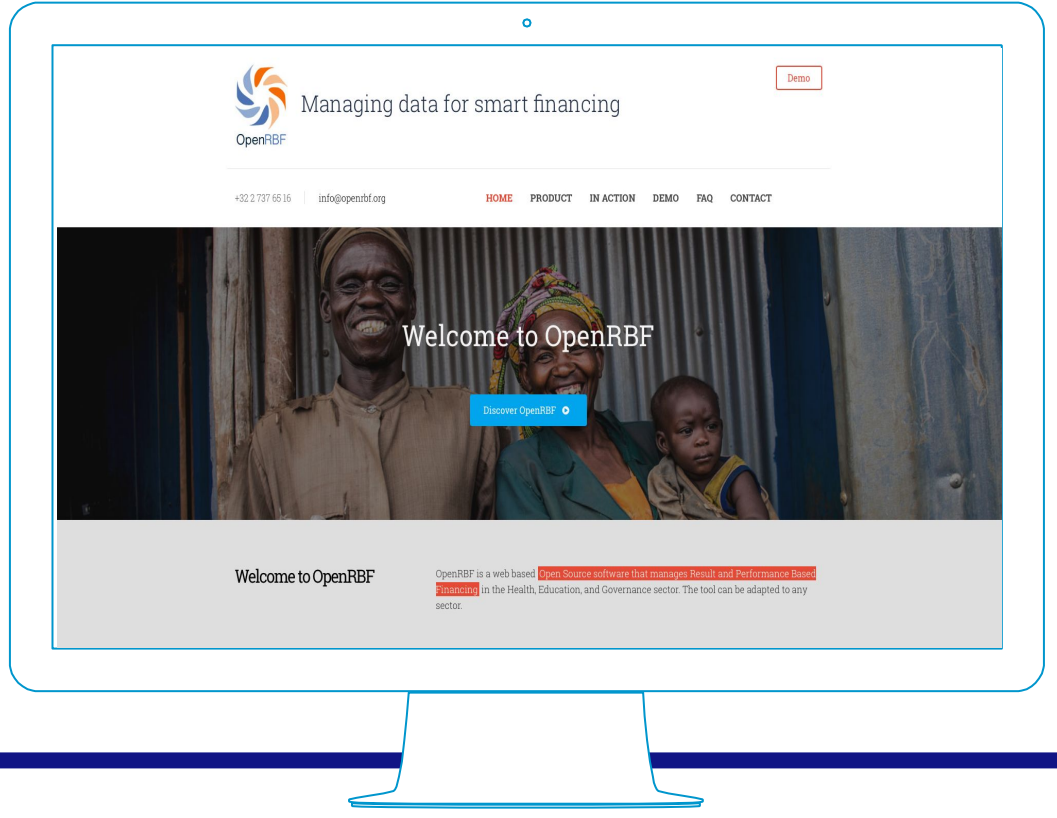
HEALTH FINANCING

OpenRBF
(BlueSquare)

Results-based financing data system

Towards health financing on top of DHIS2



OPEN DATA

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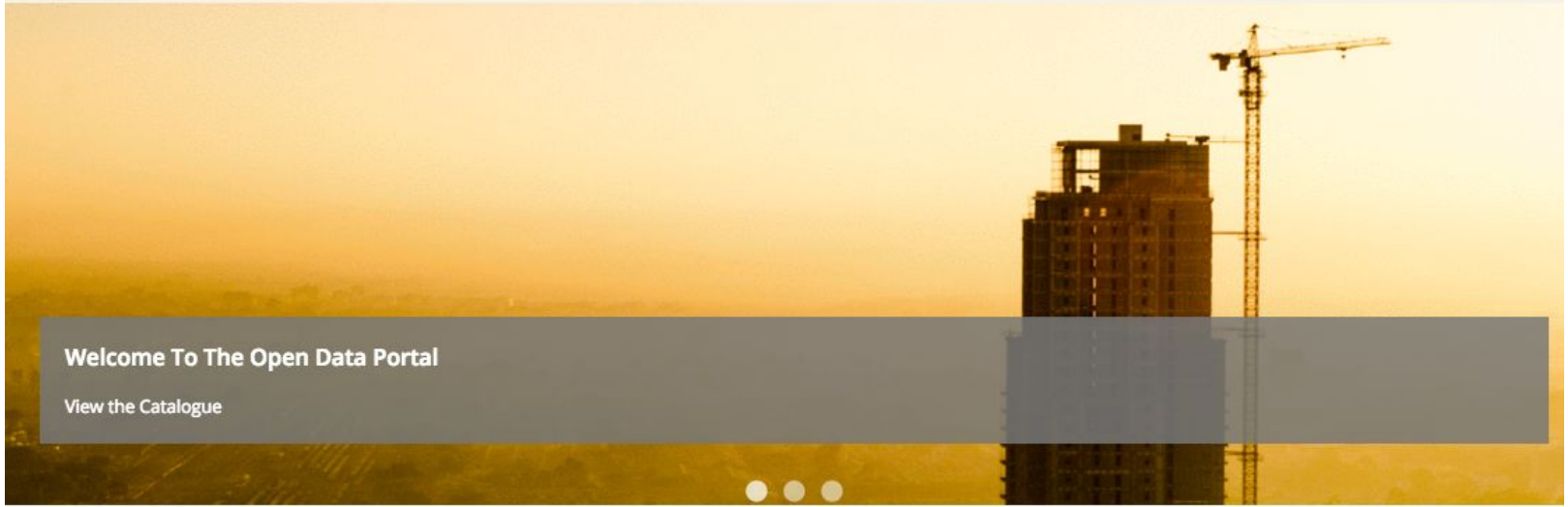
Sign Up Log In

KENYA openData

Home Data Catalogue County Data Open Budget Suggest Data Open Data Blog How To Guide More

Together Let's Build Solutions With Open Data

The Kenya Open Data Portal makes Public Government datasets accessible for free to the public in easy reusable formats, supporting the Government's drive to proactively inform citizens and be accountable.



Explore the data

Search for data: (Population Distribution, Schools, Budget data)

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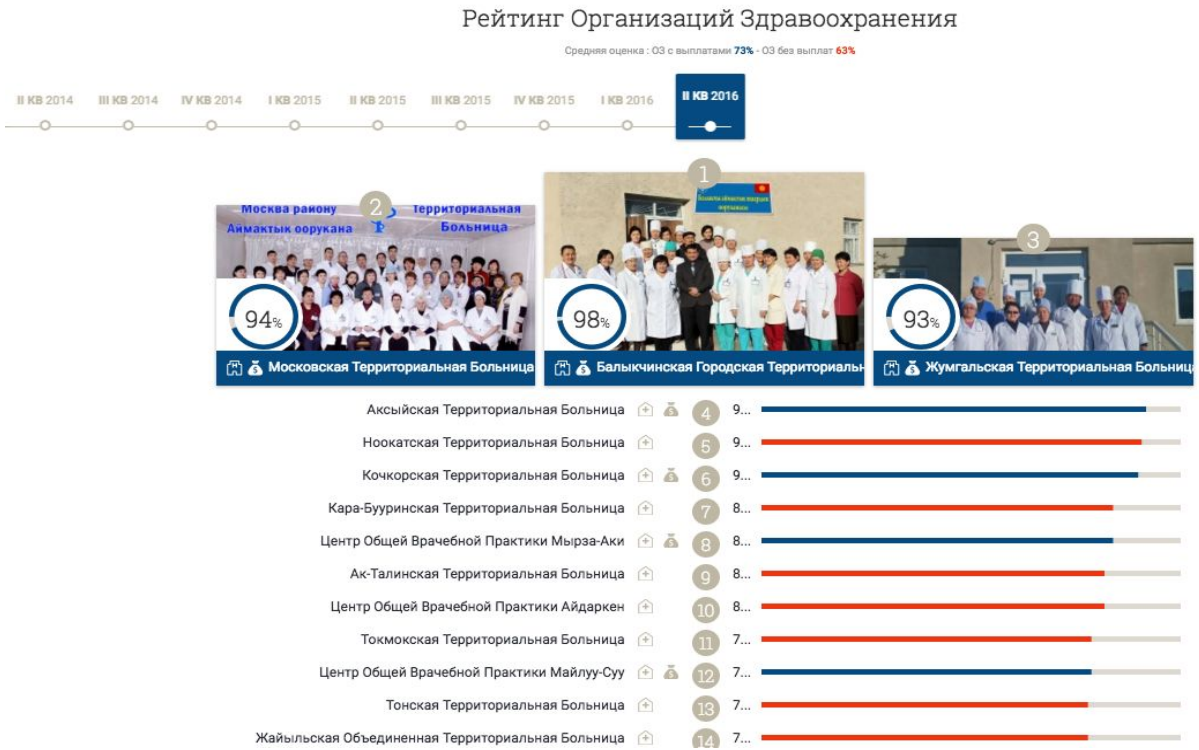
Ordoff Clinic, Kadoma (Zimbabwe)

BELGIAN INITIATIVE
OPEN DHIS2 PLATFORM



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POINT OF CARE

OpenClinic, CERHIS, IeDa, OpenSRP…

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Download

- What is OpenClinic?
- News
- Download
- Demo
- Participate
- FAQ
- About

W3C HTML5

W3C CSS3

RSS 2.0

What is OpenClinic project?

OpenClinic is an easy to use, open source, medical records system written in PHP. It has been mainly thougth for private clinics, surgeries and private doctors. It is platform independent and it has multilanguage architecture.

Currently, OpenClinic has the following options:

- Medical Records

  Use this option to manage your patient's medical records.

  Patient's Administration:

  - Search, new, delete, edit
  - Social Data
  - Clinic History
  - Problem Reports

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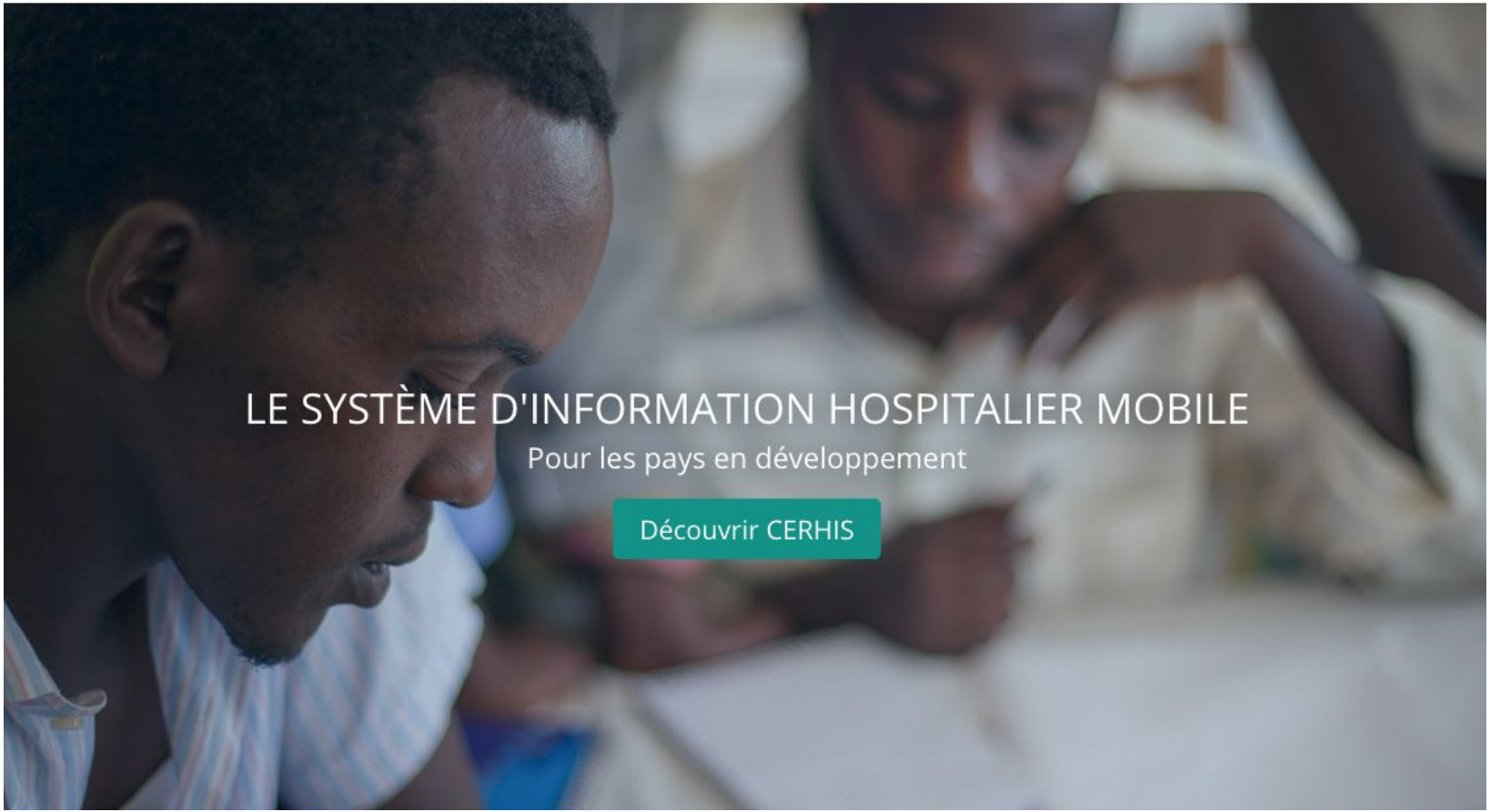
CERHIS

Accueil Solution Technologie MISE EN OEUVRE



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eDA - Innovative online technology for children's health care

leDA supports health care workers in West Africa with digital tablets and mobile applications to improve children's medical treatment.

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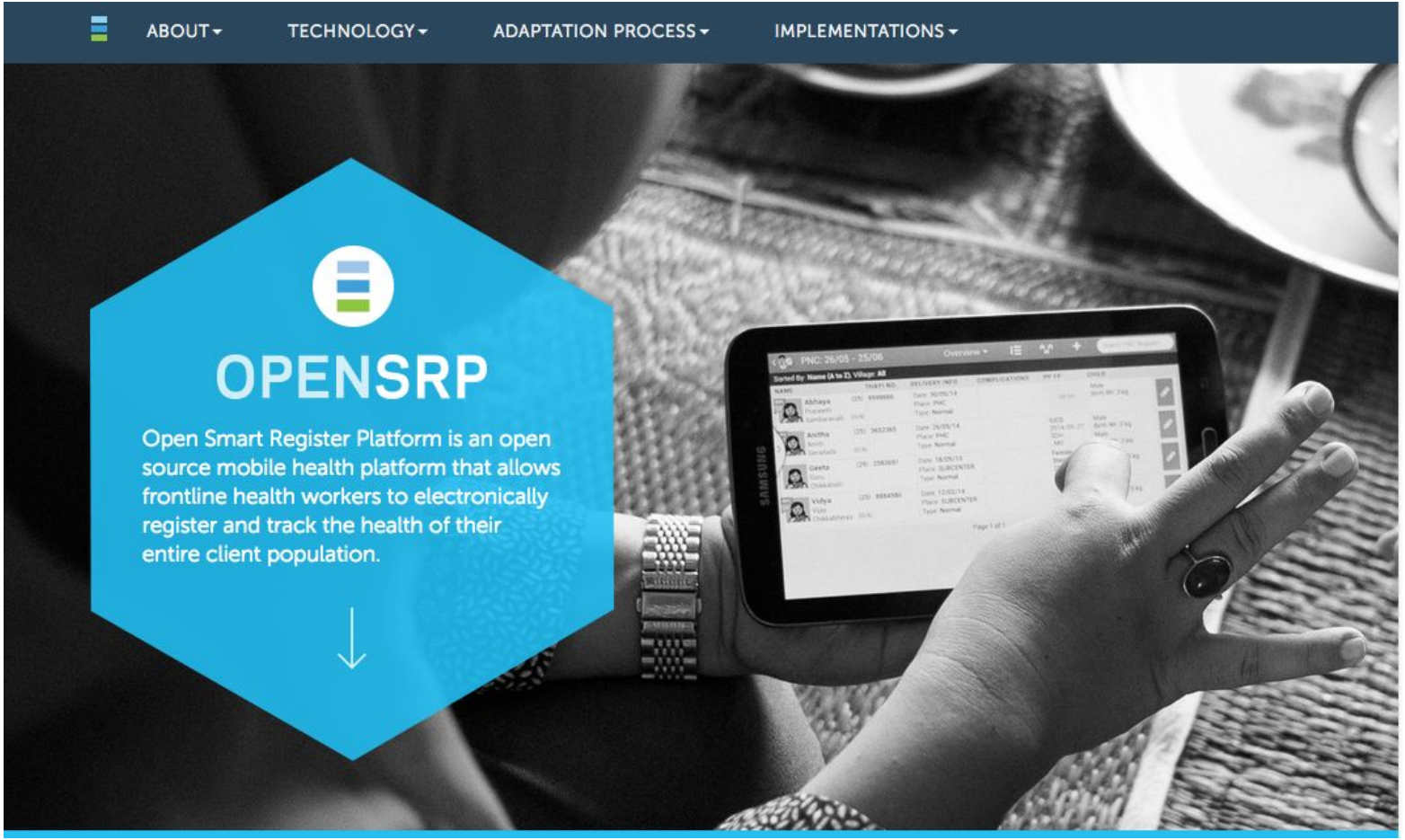
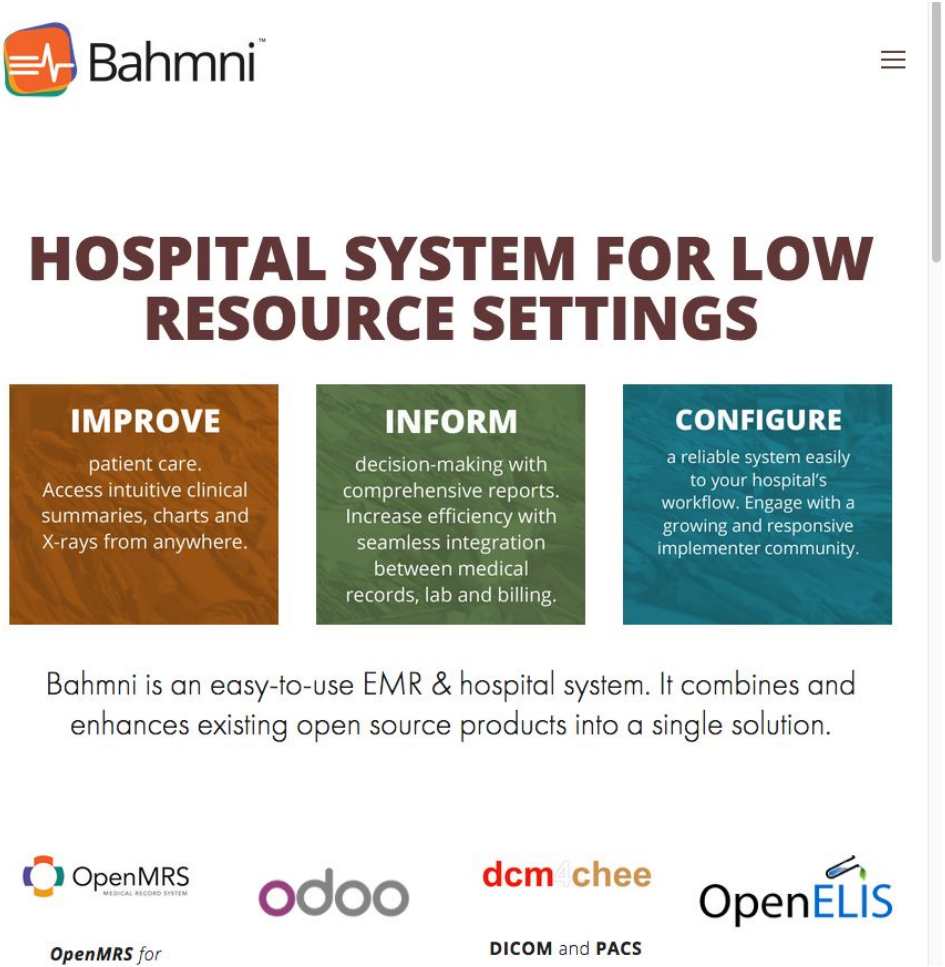

ABOUT
TECHNOLOGY
ADAPTATION PROCESS
IMPLEMENTATIONS
OPENSRP
Open Smart Register Platform is an open source mobile health platform that allows frontline health workers to electronically register and track the health of their entire client population.



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COMMUNITY HEALTH WORKER

CommcareHQ, RapidPro…

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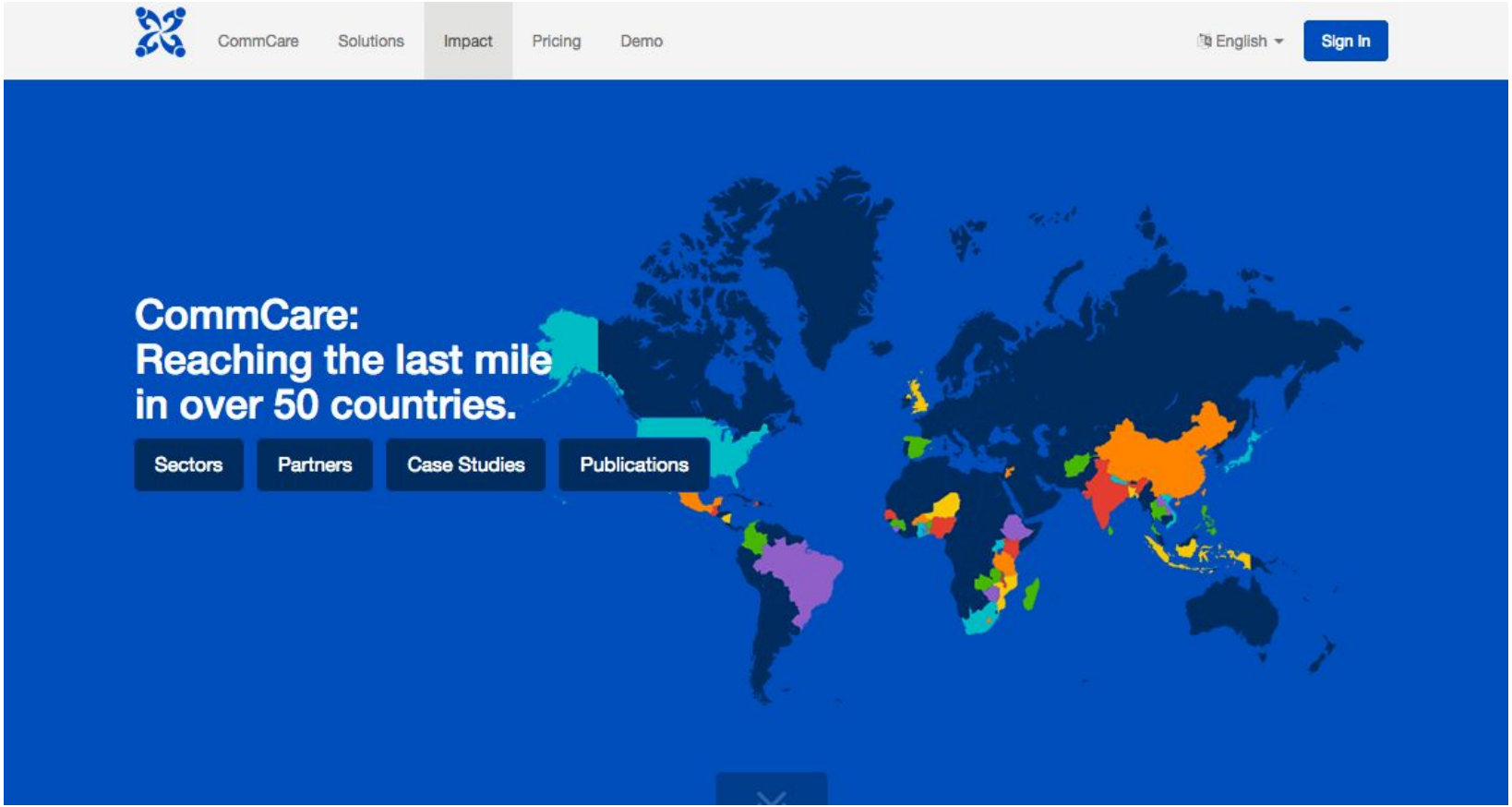
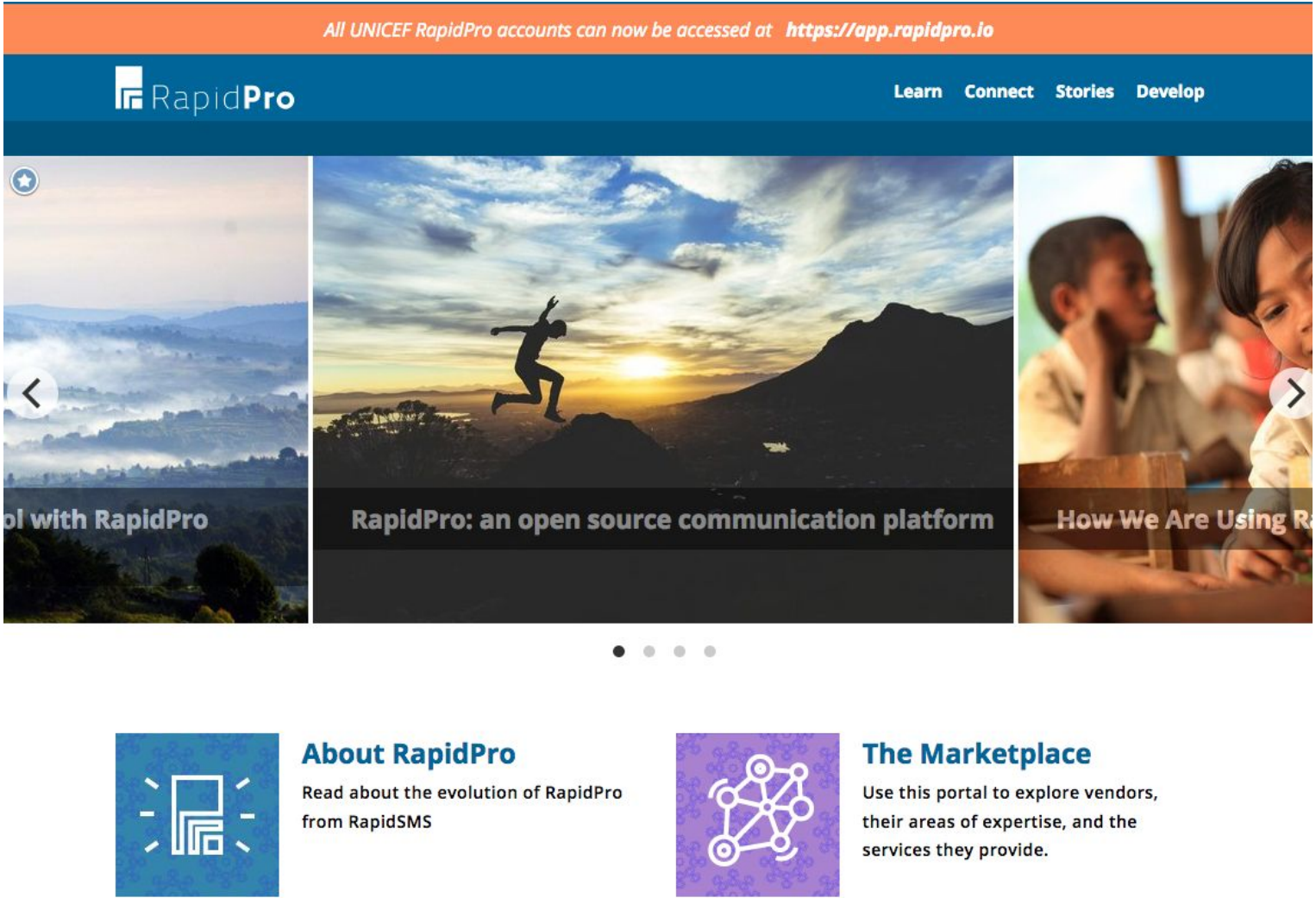

CommCare
Solutions
Impact
Pricing
Demo
English
Sign In
CommCare:
Reaching the last mile
in over 50 countries.
Sectors
Partners
Case Studies
Publications


All UNICEF RapidPro accounts can now be accessed at https://app.rapidpro.io
RapidPro
Learn
Connect
Stories
Develop
RapidPro: an open source communication platform
About RapidPro
Read about the evolution of RapidPro from RapidSMS
The Marketplace
Use this portal to explore vendors, their areas of expertise, and the services they provide.

5

AND THE PATIENT?

mHealth, Android Apps…

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MAMA

Mobile Alliance for Maternal Action

7.5 million women, families and caregivers reached with vital health information that is transforming their lives.

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ANDROID APPS

giftedMom™

MATE

Zero Mothers Die

MOBILE Doula

hesperian health guides

About us

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TAKEAWAYS…

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TAKEAWAYS

Data is at the heart of global health

As in other sectors, data & technology will be at the heart of any intervention.

Belgium is small

There is a lot happening out there.

Working in our Belgian silo will lead to marginalised work.

Recipe for sucess

Our community builds great products. But that is not sufficient.

Communication, collaboration, network, visibility, reach are all fundamental ingredient of success

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THANKS!

Any questions?

You can find me at
@nicolasdeborman
ndeborman@bluesquare.org

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