IeDA: Integrated e-Diagnostic Approach
by Terre des hommes - Lausanne

Geneva, 27 Feb 2018
Riccardo Lampariello
Terre des hommes (www.tdh.ch) is the leading Swiss child relief organisation

Through our health, protection and emergency aid projects, we provide assistance to over three million children and their families in more than 35 countries each year.

Our vision

We strive for a world in which all children can grow up with dignity and develop in an environment that protects them and meets their needs.
IeDA: strengthening Primary Health Care in rural areas through innovation
Healthcare provider decision support

Patients record

Data analyses

Dash Board

Healthcare provider training

HR management (performance monitoring)

Coaching

Quality Improvement

RDT results among children with fever or history of fever
(Black line represents proportion of children with fever/history of fever)

Voici Samira, une petite fille de trois ans. Elle se rend avec sa mère, Mariam, au centre médical. Mariam est inquiète car cela fait trois jours que sa fille a la diarrhée. Elle avait espéré que cela passerait tout seul, mais en fait la diarrhée s’est emprisonnée et elle ne sait pas quoi faire.
180’000 monthly consultations in Burkina Faso

Projet leDA au Burkina Faso
Couverture en fin 2017 et projet d’extension sur 2018-2020

Légendes
- Couverture 2014-2017: 604 CSPS au total
- Extension 2019-2020: 1014 CSPS au total

620 Clinics
2600 Users per month
1.5 million children per year

www.iea-project.org
Strengthening Health Literacy

- **At decision makers level:** first hand and *almost* real-time data and dashboards available

- **At health workforce level:** e-learning, continuous training, individual feedback

- **At community level:** communities are empowered for their own health (power shift)

- **At individual level:** counselling to patients & high acceptability
A rich pipeline of research studies and scientific papers planned for 2018
Multi stakeholders approach for an integrated solution
Beyond Burkina Faso & Mali: building partnerships

 Rolled out
 In preparation (2018)
 Assessment (2018)
 Envisaged (2018-2019)

Consortium: Technical, strategic & operational cooperation

World Vision
ACTIONControle
FAIM
Terre des hommes
MEDECINS SANS FRONTIERES
Terre des hommes
ICRC
Global Humanitarian Lab

Technical cooperation only
Platform able to integrate other dimensions and a broader target group

- Screening and diagnosis for other diseases
  (including NCDs and their risk factors)
- Universal Health insurance
- Drug management
- Epidemiological surveillance
- Competency and facilities mapping
- Continuous training
- Civil registry
- Immunization
Thanks for your attention! www.ieda-project.org
APPENDIXES
leDA: Innovation and R&D

- Impact evaluation
- New algorithms
- AI & Machine Learning: Toward direct automated feedback
- Big Data and geo-spatiale data: towards predictive epidemiologic model
- Image recognition: using the camera for anthropometric measurements
- A smart respiratory counter
leDA: a source of real time data
Exploiting data to improve the health system

Data on IMCI Danger Signs

Malaria prevalence among children diagnosed with fever

75% average
Future developments monitoring at Health Care Facility level

- Monitoring medicine stocks
- Epidemiological surveillance
Health Program
Health Program’s focus on children <5 and their mothers

In 2016, we implemented over 20 health projects, which helped 1’600’000 children and parents

14 countries of intervention

> 15 M $ budget for activities in 2018

Strong innovation component
• Focus on the most vulnerable in rural areas