

Leveraging data from CDSS:

Using leDA data for national decision making

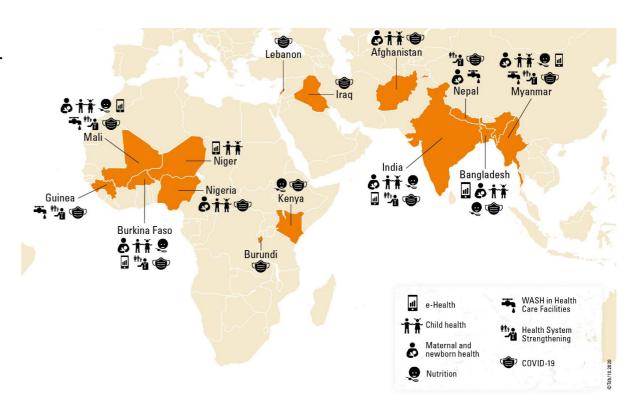
Iveth J. González – Head of Health Programme



Terre des hommes foundation (Tdh) is the leading Swiss organization for children's aid since 1960

Health strategic priorities 2021 – 2024:

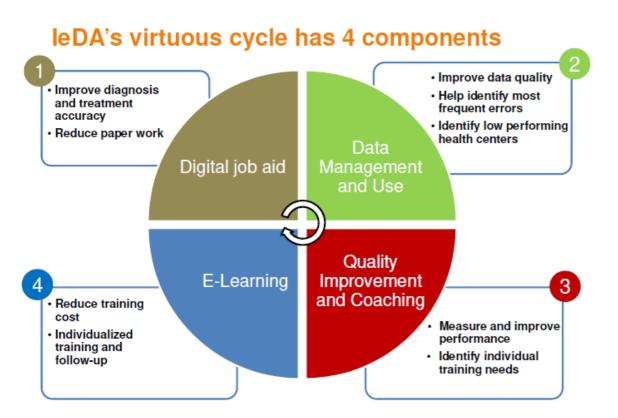
- Perinatal health
 - > to make a significant difference
- Health system strengthening
 - > to ensure sustainability
- Digital health and innovation
 - > as a catalyser for impact





The Integrated e-Diagnostic Approach (leDA) is a decision support for health workers

A digital application on tablets built on the WHO protocol for the Integrated Management of Childhood Illnesses (IMCI)



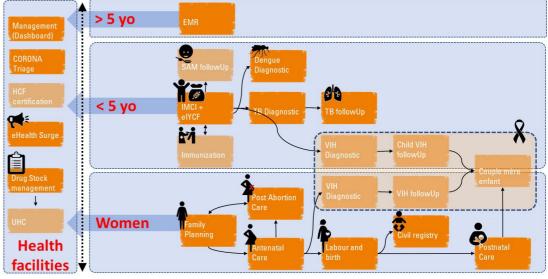






leDA is scaled up and having other applications







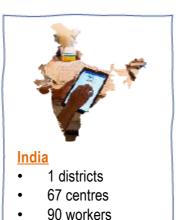
1800 centres

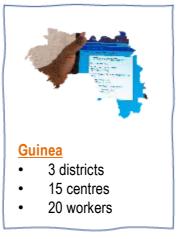
6500 workers



50 centres

150 workers



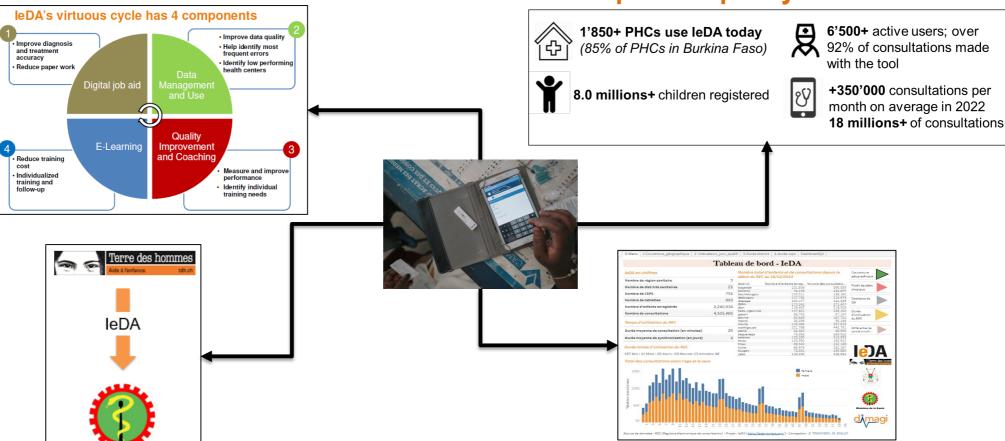






leDA supports health workers training and supervision

Facilitates adherence to clinical protocols and improved quality of services



Is used for evidence-based decision making process

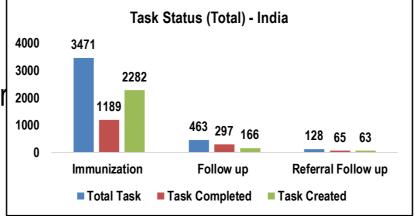
Reports to DHIS2 and Results-Based Financing (RBF) indicators data



leDA data allows to follow up performance of healthcare workers in real time

- Protocol adherence
- Performance evaluation
- Dashboard for coaching and super 2000

Utilization rate in Burkina Faso:



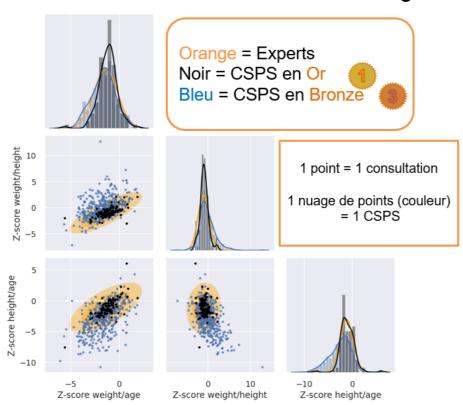
District	janv-22	févr-22	mars-22	avr-22	mai-22	juin-22	juil-22	août-22	sept-22
Bousse	98%	98%	93%	99%	99%	99%	99%	98%	98%
Ziniare	93%	96%	96%	95%	95%	91%	94%	93%	92%
Zorgho	98%	98%	97%	98%	97%	99%	98%	97%	99%
bittou	96%	100%	100%	100%	100%	98%	100%	100%	99%
tenkodogo	93%	94%	94%	94%	92%	95%	95%	93%	89%
garango	93%	95%	97%	97%	96%	90%	94%	97%	95%
koupela	99%	98%	99%	97%	100%	98%	100%	99%	99%
pouytenga	99%	99%	100%	100%	100%	100%	100%	96%	99%
ouargaye	98%	99%	100%	100%	100%	100%	100%	98%	97%
zabré	94%	97%	100%	100%	100%	100%	100%	100%	100%
Daffra	99%	99%	99%	99%	99%	100%	98%	95%	97%
Dandé	99%	99%	100%	100%	100%	100%	100%	100%	100%

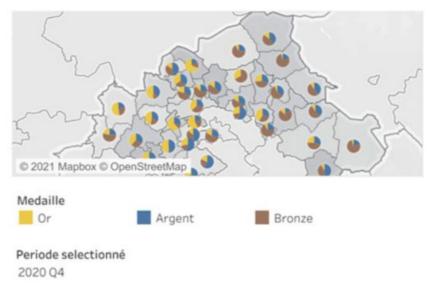




leDA supports the evaluation of primary healthcare facilities (PHCFs) performance

Assessment of PCHFs based on the distribution of anthropometric measurements and vital signs entered in IeDA (AI & machine learning)





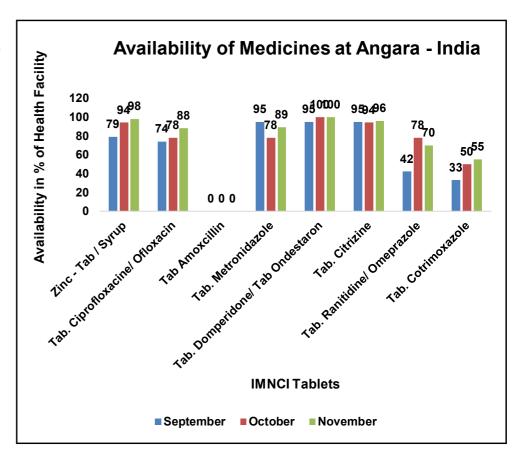
Dynamic dashboard presenting an overview of the PHCF scores distributions



leDA contributes to pharmacy management at primary healthcare facilities

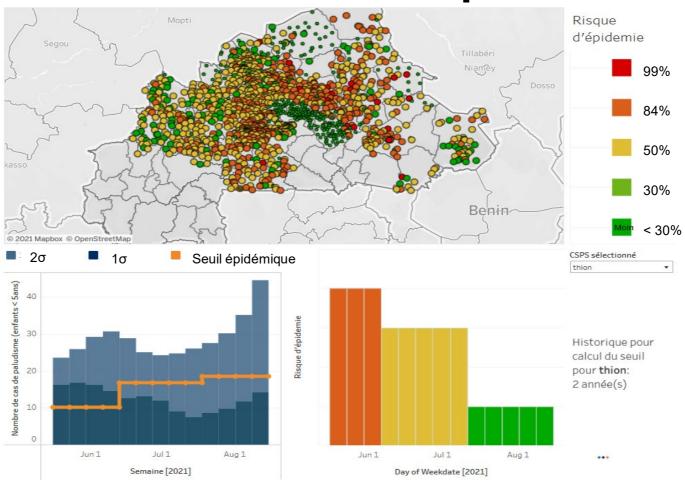
- Real-time tracking of individual medicines by block and PHCFs levels
- Improved management of stocks to avoid rupture and the expiration of stocks (Gestock)
- Health workers are informed in real time of the availability of drugs in the pharmacy







leDA provides predictive models for surveillance and response

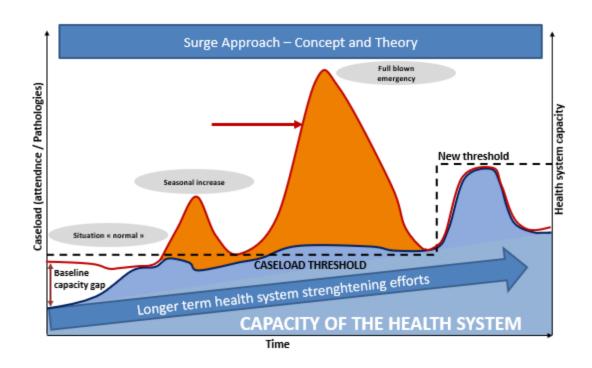


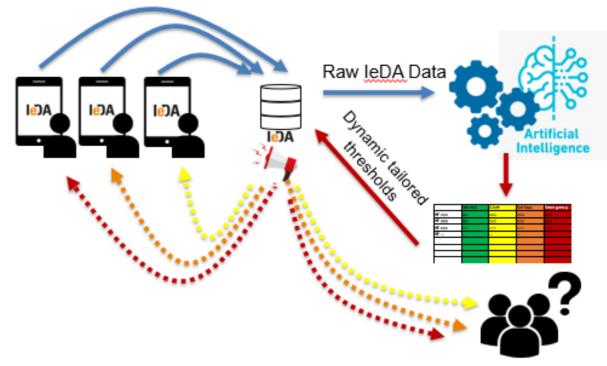
Harvey D, Valkenburg W, Amara A. Predicting malaria epidemics in Burkina Faso with machine learning. PLoS One. 2021 Jun 18;16(6):e0253302.



leDA is a tool for emergency response – eHealth Surge

leDA data and machine learning algorithms triggering emergency response based on thresholds (number of consultations vs available resources)





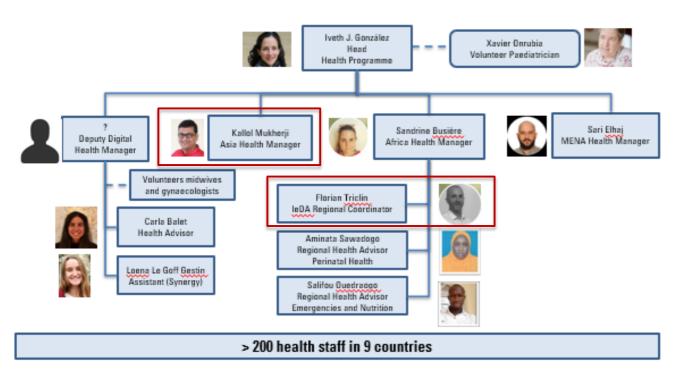


Tdh will continue to leverage digital health data to:

- Support health system strengthening by improving quality of care and health information systems
- Contribute to Universal Health Coverage:
 - Support free health care (under-5 and pregnant women)
 - Analysis of real costs of primary health services
 - Improved planning of health staff, supplies, and finances
- Facilitate epidemiological surveillance and emergency response in real time



Team and collaborative work at international, regional and national levels





OPERATIONS









Thank you for your attention and questions

