



Improving primary health care
through eHealth

In Burkina Faso,
1 in 10 children die
before the age of 5.

leDA can help improve the situation.



Aide à l'enfance. | Kinderhilfe weltweit. | Per l'infanzia nel mondo. | Helping children worldwide.



Terre des hommes

tdh.ch

A photograph of a healthcare setting. In the foreground, a young child in a white shirt looks towards the right. In the background, a man in a white lab coat sits at a desk, looking at a smartphone. A woman is also seated at the desk, looking at the phone. The desk is cluttered with papers, a smartphone, and several books. The overall scene suggests a clinical or administrative environment.

From December 2014 to August 2017

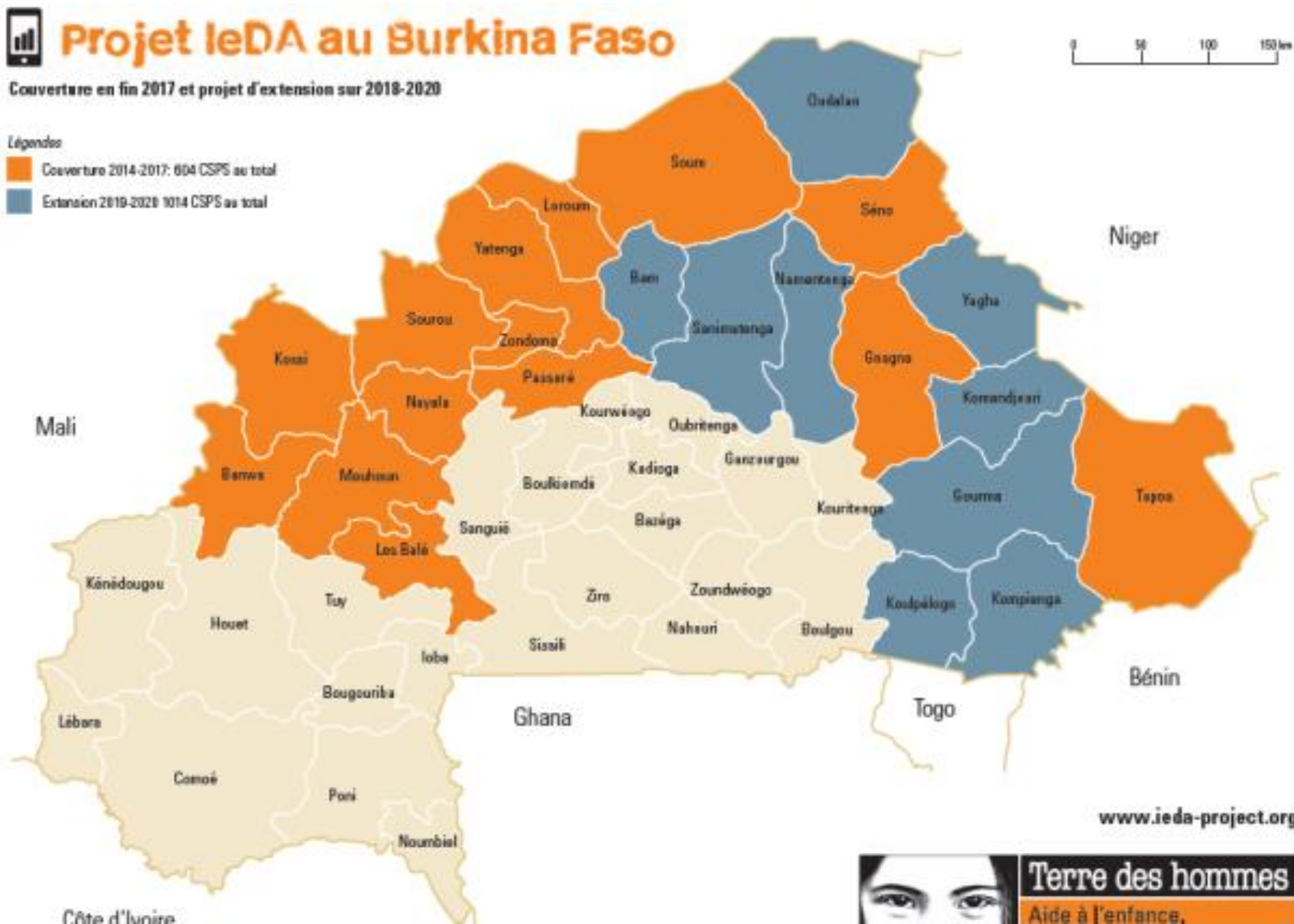
1.1 millions IMCI consultations

700,000 children registered

400 clinics

2400+ users

400 PHC, 600 by end of 2017, and 1,000+ by 2020



Digital Job Aid: REC (Registre Electronique de Consultation)



- Digitized IMCI protocol:
Automated diagnostic and treatment



- Patient Records and consultation history
- IMCI related data (including immunization, malnutrition and malaria data)



- Data sent to the server (2G or 3G)

The screenshot shows a mobile application interface for registering a new patient. The title bar is blue and contains the text "Enregistrer un nouveau patient". Below the title bar is a search bar with a magnifying glass icon on the left and a close button on the right. The main content area is titled "Données personnelles" and contains several form fields:

- Nom et prénom de l'enfant
- Sexe de l'enfant
 - Garçon
 - Fille
- Nom et prénom de la mère de l'enfant
- Village
 - Bouna
 - Donon
 - Poro
 - Toma-Ile
 - Tomakoura
 - | Hors Zone |
- Numéro d'affiliation de la mère



Improving primary health care
outcomes through mHealth

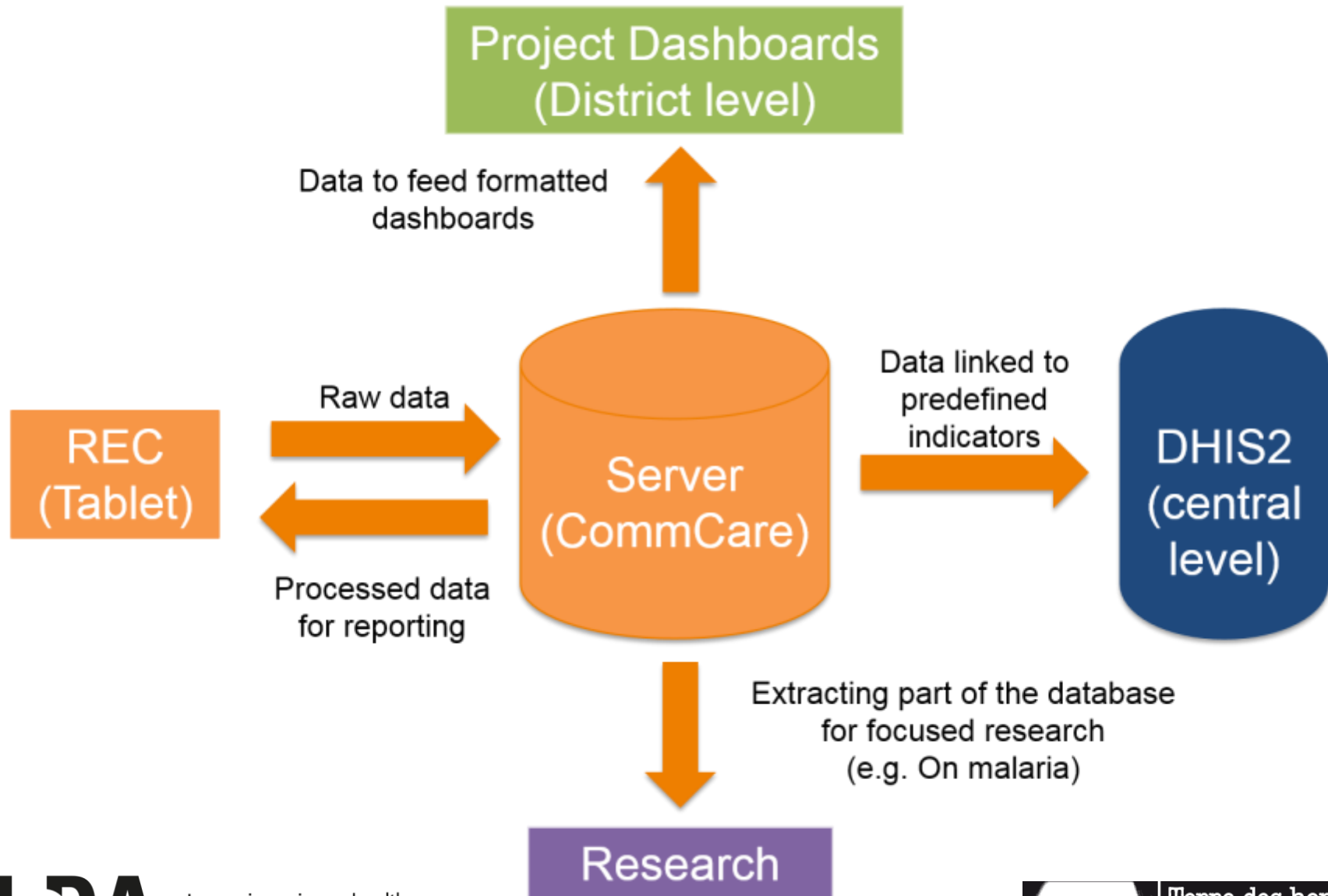


Coaching application

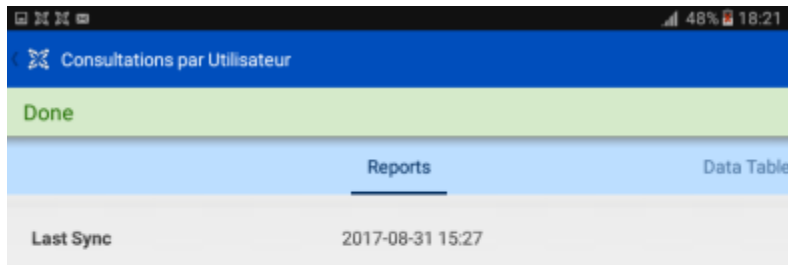
- Monthly coaching sessions for HCWs in the PHC
- Data on frequent mistakes collected via the Coach App by MoH supervisors
- Data sent to the server (via 2G or 3 G)



leDA Consultation Data Management



Data for Reporting on the tablet (Clinic Level)

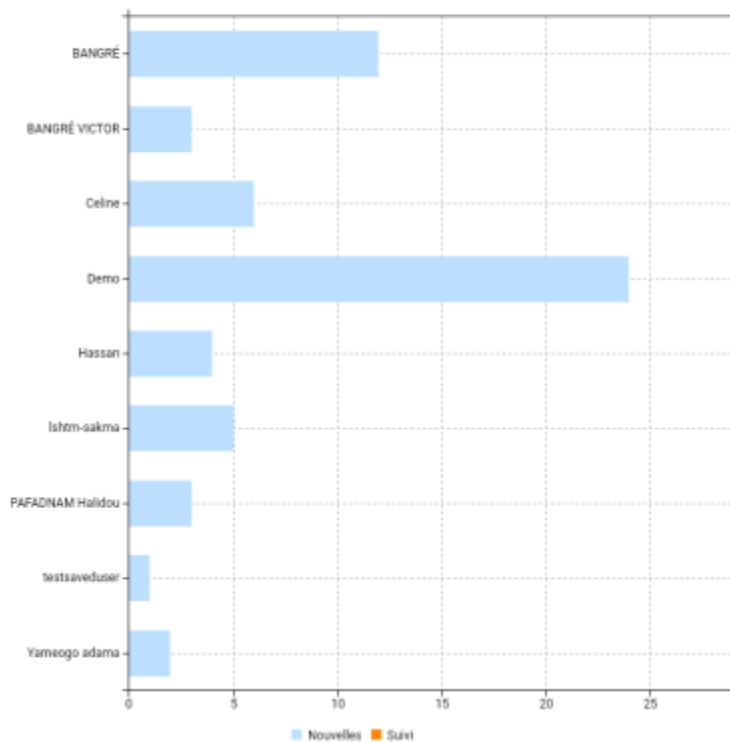


Consultation data

- Number of consultation
- Disease prevalence

Performance data shown by

- PHC facility
- Healthcare worker



Number of consultations per HCW in a PHC facility

Data for Decision Making at the District Level (1/2)

Data on IMCI Danger Signs
(Titao district dashboard, August 2017)

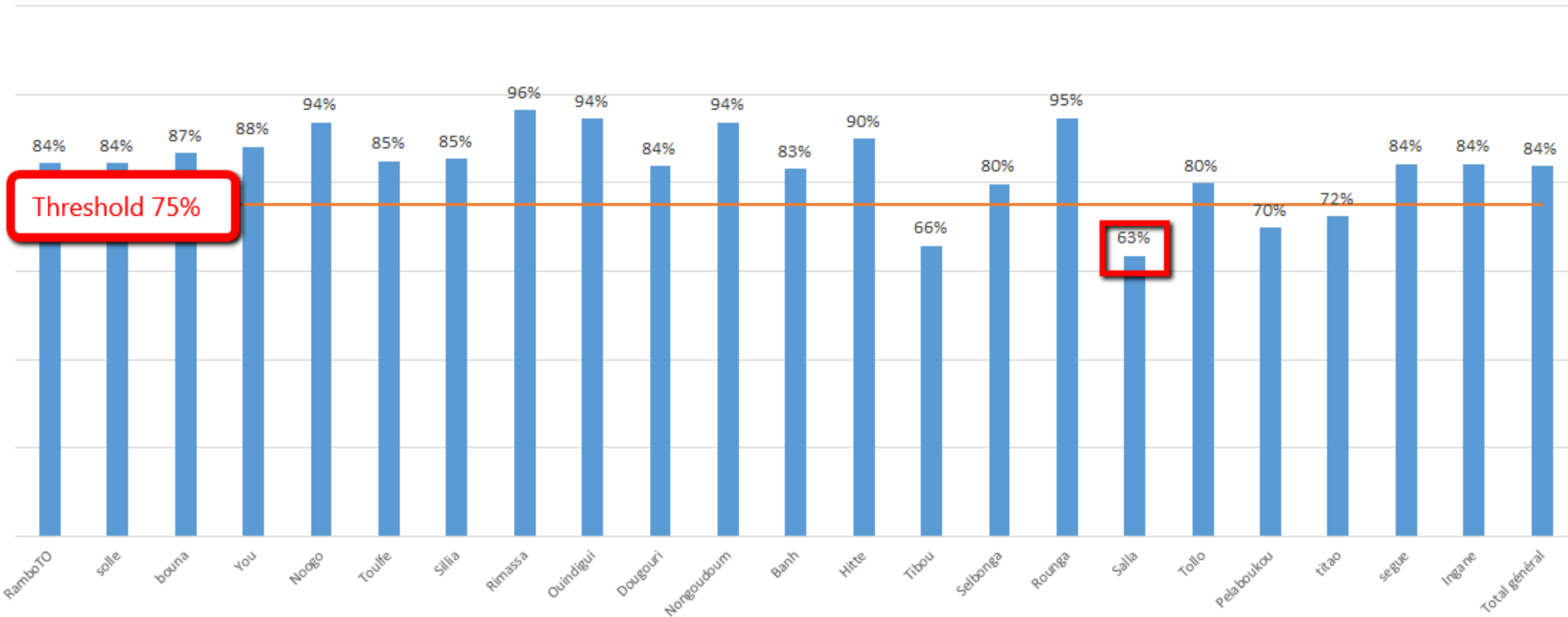
Assurance Qualité du REC : Signes de Danger

Csps	Total enfants de 2 à 59 mois vus en consultation	Enfants de 2 à 59 mois avec au moins un signe de danger	Enfant incapable de boire ou de prendre le sein	Enfant vomit tout	Enfant avec Antécédent de Convulsions	Enfant léthargique ou inconscient	Enfants avec convulsion actuelle	Csps	% Enfants de 2 à 59 mois avec au moins un signe de danger	% Enfants incapable de boire ou de prendre le sein	% Enfant vomit tout	% Enfant avec antécédent de convulsion	% Enfant léthargique ou inconscient	% Enfants avec convulsion actuelle	Seuil Vomit Tout (<5% des enfants avec Signe de danger dans le district)	Seuil Antécédent de Convulsion (>50%)
RamboTO	893	17	1	3	13	0	13	RamboTO	1.9%	6%	18%	76%	0%	76%	5%	50%
solle	957	19	4	1	16	0	16	solle	2.0%	21%	5%	84%	0%	84%	5%	50%
bouna	558	12	1	1	6	1	6	bouna	2.2%	8%	8%	50%	8%	50%	5%	50%
You	1576	15	10	1	2	2	2	You	1.0%	67%	7%	13%	13%	13%	5%	50%
Noogo	861	31	12	4	15	1	15	Noogo	3.6%	39%	13%	48%	3%	48%	5%	50%
Toulfe	1086	26	3	5	12	1	12	Toulfe	2.4%	12%	19%	46%	4%	46%	5%	50%
Sillia	340	8	1	4	3	0	3	Sillia	2.4%	13%	50%	38%	0%	38%	5%	50%
Rimassa	343	6	1	0	5	0	5	Rimassa	1.7%	17%	0%	83%	0%	83%	5%	50%
Ouindigui	928	21	0	1	18	0	18	Ouindigui	2.3%	0%	5%	86%	0%	86%	5%	50%
Dougouri	666	22	0	3	7	1	7	Dougouri	3.3%	0%	14%	32%	5%	32%	5%	50%
Nongoudoum	1314	24	1	2	9	0	9	Nongoudoum	1.8%	4%	8%	38%	0%	38%	5%	50%
Banh	1099	28	3	2	18	0	18	Banh	2.5%	11%	7%	64%	0%	64%	5%	50%
Hitte	815	14	0	2	6	1	6	Hitte	1.7%	0%	14%	43%	7%	43%	5%	50%
Tibou	1264	33	4	3	15	2	15	Tibou	2.6%	12%	9%	45%	6%	45%	5%	50%
Selbonga	259	8	0	0	2	0	2	Selbonga	3.1%	0%	0%	25%	0%	25%	5%	50%
Rounga	761	14	3	6	2	1	2	Rounga	1.8%	21%	43%	14%	7%	14%	5%	50%
Salla	520	1	0	0	0	0	0	Salla	0.2%	0%	0%	0%	0%	0%	5%	50%
Tollo	663	8	0	0	4	0	4	Tollo	1.2%	0%	0%	50%	0%	50%	5%	50%

Data for Decision Making at the District Level (2/2)

*Malaria prevalence among children diagnosed with fever per clinic
(Titao district dashboard, August 2017)*

Taux de Paludisme - periode a faible/forte endemicite palustre



Data triggers questions and then actions!

Lessons Learned on Data Management

leDA strong points

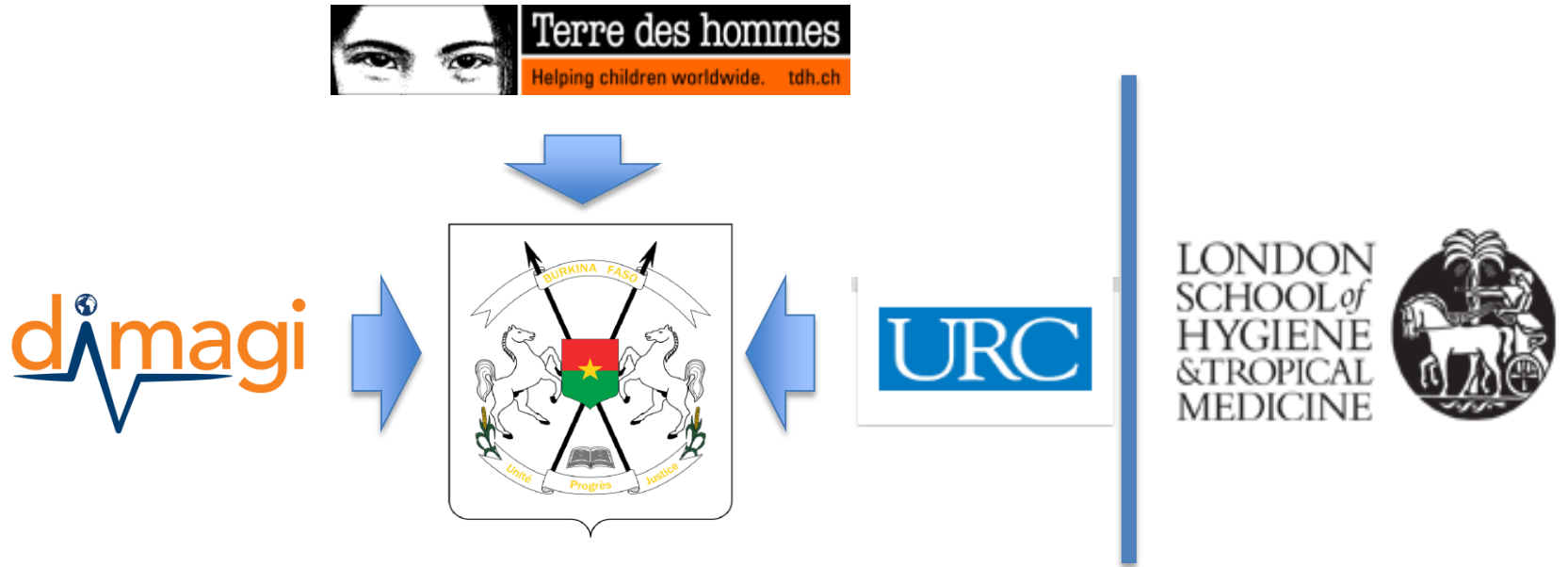
- **Faster and more accurate data collection**
- **Aggregation on a server for availability at all levels**
 - PHC facility
 - District
 - National
- **Scale:** 30% of all clinics covered by end of 2017

Challenges

- **Technological limits** of current platform (CommCare) and connectivity
- Moving from «Data available» to «**Data actionable**»
- Bring new answers to the «*What's in it for me?*» HCW questions

Who Is behind leDA?

Implementing team and partners



Our sponsors



Improving primary health care outcomes through mHealth



www.ieda-project.org



Thank you for your attention!