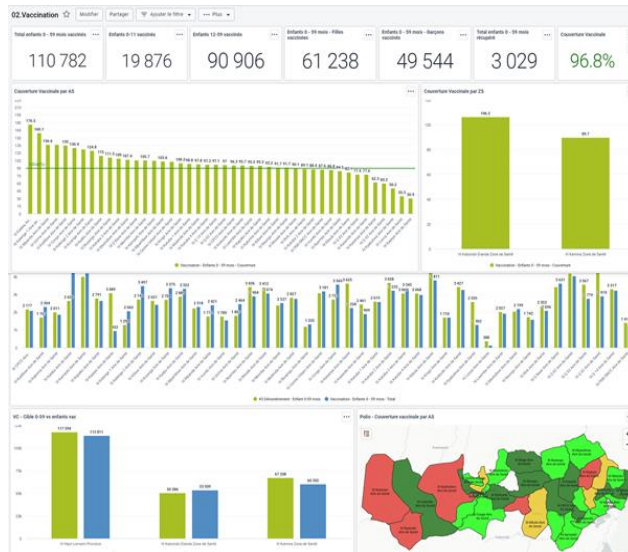


Integrating campaign platforms into the architecture of the national health information system



Sakibou Alassani, System Dev Lead, salassani@hispcwca.org

Outlines

- Background
- Challenges
- Best practices in collection platform integration
- The benefits of digitization for unique program integration
- Future opportunities

Background

- Health programs were using various paper based tools or Excel for campaign data management
- Over the past decade, the approach has evolved to integrate use of proper data management software for campaign data management but in silos
- Gradually, it has emerged that collating data over years to enable longitudinal analysis becomes a serious challenge
- Moreover, the growing need for data analysis across various data sources for improved management has highlighted the need for integration across various data sources including campaign data
- Having been using DHIS2 as a platform for health data management, many countries have thus turned to it for the management of health campaign data

DHIS2 for campaign data management



Aggregate data

- Republic of Congo: Measles and Yellow fever Campaign
- Togo: HPV campaign

Household and individual level data

- Niger (2022 and 2023): SMC campaign
- Guinea
 - 2022: Bednet distribution campaign
 - 2023: SMC
- Togo (2023)
 - Bednet campaign
 - SMC
- DRC: Polio campaign

Approach to campaign digitalization

Bottom up and participative approach

- Active involvement of stakeholders
- Discussions with stakeholders and beneficiaries to better understand their needs
- Digitalization of campaigns is different from digitalization of reporting tool
- Gradual development, feedback and improvement
- System development as opportunity to learn and improve
 - for the national team
 - for the HISP team
 - opportunities to document some use cases and suggest new features for the core DHIS2 platform

Capacity Building: national DHIS2 team

WEST AND CENTRAL AFRICA

Configuration

- System configuration done in a series of workshops with active involvement of national DHIS2 team: It contributed to:
 - further development of of their capacities (aggregate and tracker)
 - their understanding of the system configuration which in turn will help in maintenance

Implementation:

- Implementation of Mobile technology based reporting system



Cascade trainings: end users

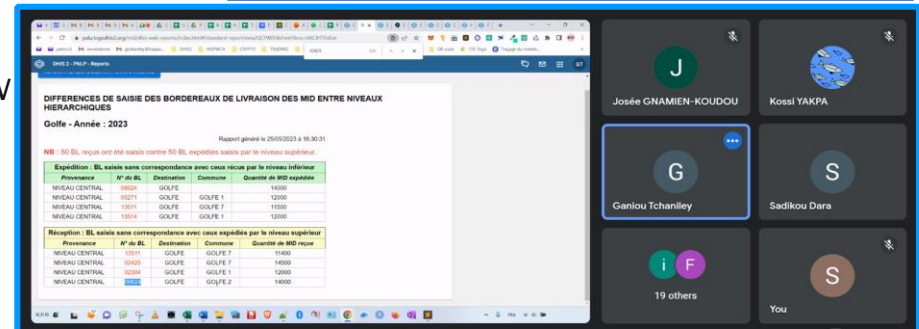
Ends users trainings

- Togo: combination of approaches
 - in person cascade trainings for end users
 - Online trainings for logistic officers from regional to district levels
- DRC:
 - Cascade in person training for end users
- Post-training follow-up



Materials

- User guides
- Video clips on specific topics such as how to sync data



DIFFERENCES DE SAISIE DES BORDEREAUX DE LIVRAISON DES MID ENTRE NIVEAUX HIERARCHIQUES
Golfe - Année : 2023

Rapport généré le 25/05/2023 à 16:30:31

NB : 50 BL reçus ont été saisis contre 50 BL expédiés saisis par le niveau supérieur.

Expédition - BL saisis sans correspondance avec ceux reçus par le niveau inférieur				
Provenance	N° de BL	Destination	Conteneur	Quantité de BL reçus
NIVEAU CENTRAL	0924	GOLFE	GOLFE 1	14000
NIVEAU CENTRAL	0929	GOLFE	GOLFE 1	12000
NIVEAU CENTRAL	1301	GOLFE	GOLFE 7	14000
NIVEAU CENTRAL	1304	GOLFE	GOLFE 1	12000

Réception - BL saisis sans correspondance avec ceux expédiés par le niveau supérieur				
Provenance	N° de BL	Destination	Conteneur	Quantité de BL reçus
NIVEAU CENTRAL	1304	GOLFE	GOLFE 7	14000
NIVEAU CENTRAL	0920	GOLFE	GOLFE 7	14000
NIVEAU CENTRAL	0204	GOLFE	GOLFE 1	12000
NIVEAU CENTRAL	0205	GOLFE	GOLFE 2	14000

Challenges



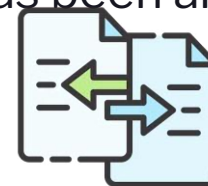
Main challenges

- The organisation unit - regions, district, catchment areas etc - hierarchy of campaigns differs from the routine one:
 - the campaign hierarchy often comprises unstable units that changes from one campaign to another
 - Don't always follow the administrative division and a campaign area can belong to two different district or catchment areas
 - The lowest level of intervention varies according to the campaign strategy even with the same health program: village, site, enumeration area etc.
- Campaign system users are often different from the routine HMIS users
- Some terminologies used during campaigns are also used in routine activities

3. Best practices in collection platform integration

Pulling campaign data into HMIS

- Organisational: harmonize as much as possible the hierarchy from one campaign to another at least within one program
- ETL: extract, transform and load campaign data - individual or aggregate - into aggregate and load into the lowest level possible in the HMIS
- Use of various tools: Data transfer tool but ADEx app has been also released recently
 - Data transfer used in Togo
 - ADEX requires minimum 2.39 version of DHIS2

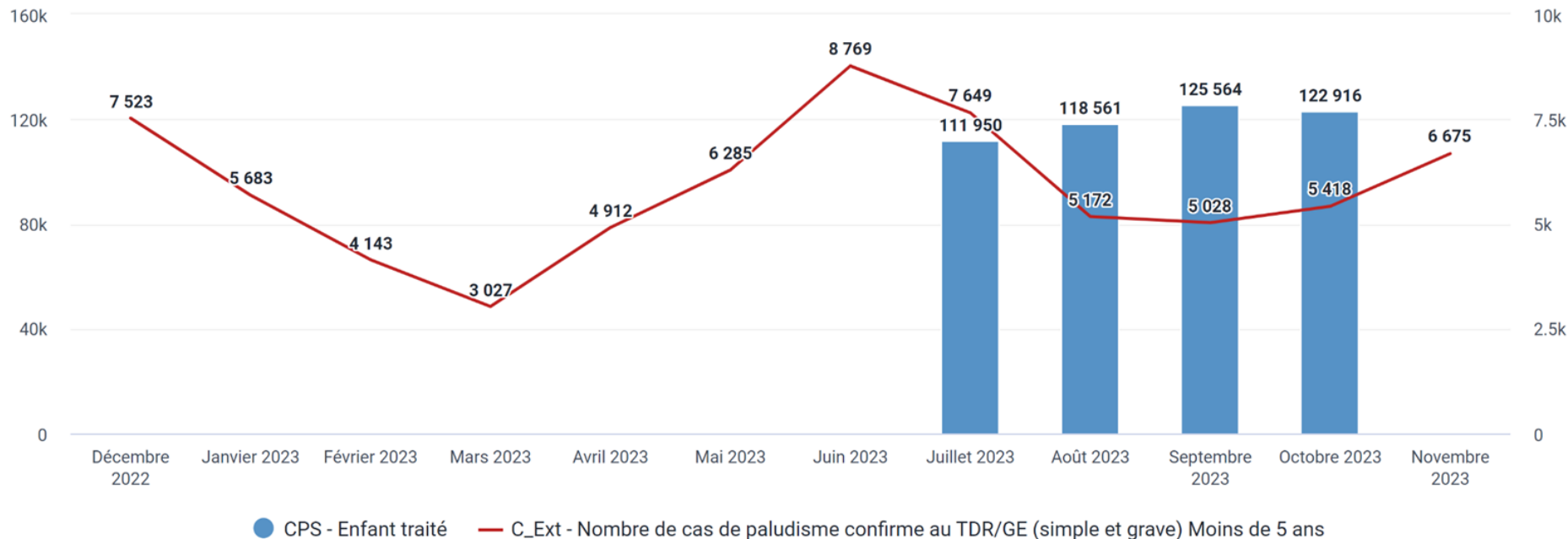


DHIS2 transfer app

For data exchange between campaign instance and routine HMIS instance

Togo : campaign Data vs routine Data

Centrale



4. The benefits of digitization for unique program integration

Benefits of digitization in the programs

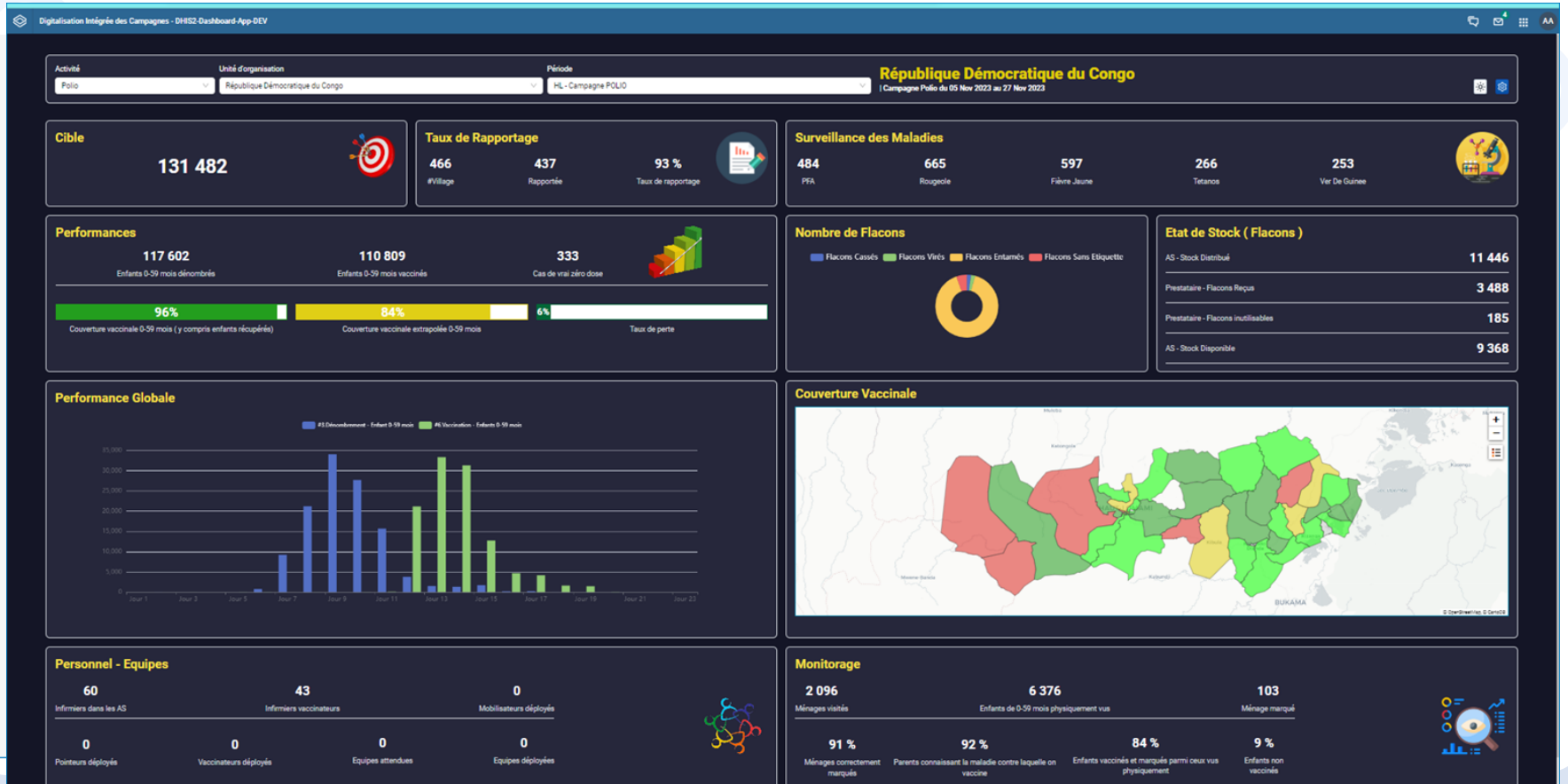
- Make campaign key performance indicators available for all relevant users of the HIMS - because only few stakeholders usually have access to the campaign instance
- Bring all data from various sources into one place
- Allow cross analysis of data
- Analysing effects of campaigns over time on disease trends

Moving forward and prospect: DRC



- Development of a single campaign platform in the country and integrate it with the national HMIS
- A stepwise approach dictated by the complexity of the work
- Collaboration between the country HISP WCA, HISP DRC and HISP centre to better document the use case and develop new features to better support campaign management
- So far the system has been configured for polio campaign and can be extended to support other immunization campaigns
- A specific dashboard app has been developed to better support campaign output

Moving forward and prospect: DRC



06. Logistique : Gestion de stock Modifier Partager Ajouter le titre Plus

Aire de santé - Stock distribué

11 446

Aire de santé - stock disponible

9 368

Prestataires - taux de perte

6.4%

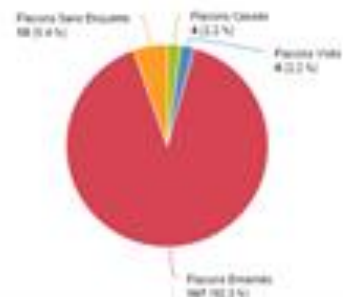
Prestataires - stock reçu

3 488

Prestataires - stock inutilisable

185

Flacons inutilisables

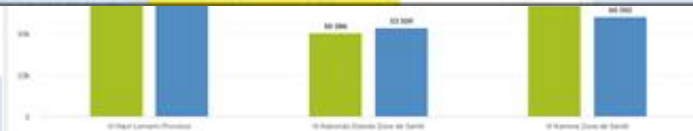


Ecart Flacons VPO Entrée et Sortie Aire de Santé

Novembre 2023			
Aire de Santé	Valeur de stock au 01/11/23 Entrée	Valeur de stock au 30/11/23 Sortie	Ecart Flacons VPO (Entrée et Sortie) Aire de Santé
W Boudouga Aire de Santé	44	31	13
W Ganta Centre Aire de Santé	5	108	-103
W Gongo Aire de Santé	5	102	-97
W GPOG Aire de Santé	114	10	104
W Kadiaba Aire de Santé	129	121	8
W Kadiaba Aire de Santé	95	5	90
W Kacouma Aire de Santé	55	55	0
W Kadiaba Aire de Santé	45	31	14
W Kadiaba-1 Aire de Santé	171	97	74

Ecart Flacons VPO Entrée et Sortie village

Novembre 2023									
Village	Prelevement Flacons Recus	Prelevement Flacons Remarque	Prelevement Flacons Remarque - Contraintes	Prelevement Flacons Remarque - Usages	Prelevement Flacons Remarque - Autonomie	Flacons Vides	Flacons Sans Etiquette	Flacons Cassés	Flacons Usés
République Démocratique du Congo / W Haut Lomami Province / W Kadiaba	1	1	1	1	1	1	1	1	1
République Démocratique du Congo / W Haut Lomami Province / W Kadiaba	1	1	1	1	1	1	1	1	1
République Démocratique du Congo / W Haut Lomami Province / W Kadiaba	1	1	1	1	1	1	1	1	1
République Démocratique du Congo / W Haut Lomami Province / W Kadiaba	1	1	1	1	1	1	1	1	1
République Démocratique du Congo / W Haut Lomami Province / W Kadiaba	1	1	1	1	1	1	1	1	1
République Démocratique du Congo / W Haut Lomami Province / W Kadiaba	1	1	1	1	1	1	1	1	1
République Démocratique du Congo / W Haut Lomami Province / W Kadiaba	1	1	1	1	1	1	1	1	1
République Démocratique du Congo / W Haut Lomami Province / W Kadiaba	1	1	1	1	1	1	1	1	1



Conclusion

- Many countries are moving toward integrating campaign data into DHIS2
- So far this has been done through the creation of parallel DHIS2 instances leading to more complex architecture
- Campaign data in DHIS2 instances is now being integrated into DHIS2 based HMIS
- There is a need to explore and support the DRC approach and come out with a generic solution that can be adapted to other countries

THANKS!

info@hispwca.org

