

Dashboards and Data Visualization in DHIS2

June 29, 2017



HELLO and WELCOME!

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From BlueSquare



What we'll cover | Why are we here?

- Introduction to DHIS2
- Overview of Charts and Graphs in DHIS2
- Do it yourself! Build a Chart and a Graph
- Save it, and it to the dashboard, and download it for later



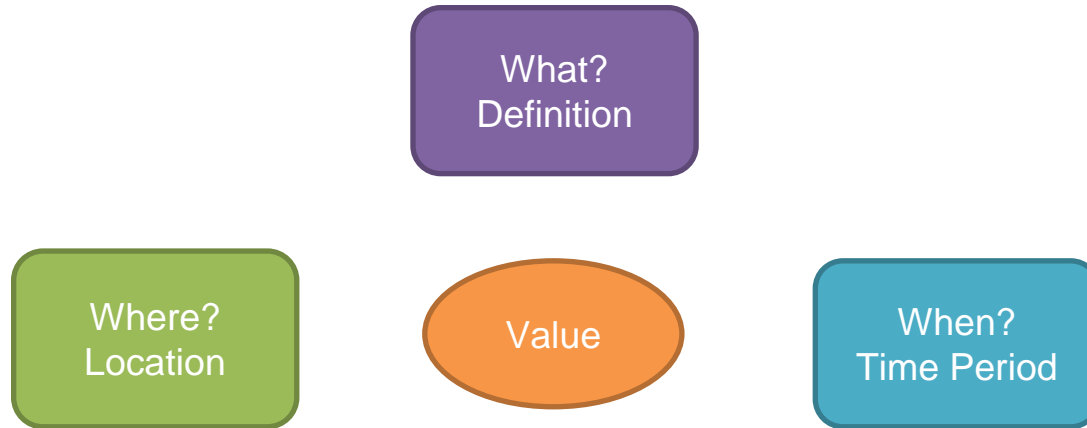
Discovering DHIS2



Data Model

What? Where? and When?

Ex. The number of **Assisted Deliveries** in **Littoral** during **May, 2017**



Organization Unit Structure

Hierarchy reflects the country's administrative structure

- Country
- Province
- District
- Facilities

Organizational unit groups

- Used to organize groups of entities that are found within the facilities

Data is aggregated up the hierarchy



What data is collected?

Data elements

Raw Data- not indicators

Ex. # children < 1 vaccinated

Ex. Population



What Data is Collected?

Indicators

- Ex. Coverage - $\frac{\# \text{ of children} < \text{vaccinated}}{\text{population of children} < 1} =$
% of children < 1 vaccinated

Raw Data Allows for aggregation

- Enter data at the facility level- aggregates at the district, regional and national levels

DE determined for analysis, not for collection

- Don't collect what you won't use



Data Set

- Set of data elements
- Used for data entry
- Data collection frequency
- Assigned to Org Units and User Roles



Let's Dive into Data Analysis



Data Analysis

Pivot Tables

Data Visualization

Dashboards

Reports



Let's look at some examples

<http://dhis2-ci-hlt-prod.herokuapp.com>



It's your turn!



Connect through:

<http://cordaidsis-test.herokuapp.com/dhis-web-commons-about/showUpdateUserProfileForm.action>

Username: demouser

Password: Test1234



Pivot Tables



Pivot Tables- What are the components?

What?

Data Elements- the raw data

Indicators- Data grouped together, ex. Coverage, targets, calculations

When?

Where?

Filters

The Organization Unit Groups



Creating a Pivot Table

Select your What,
When and Where

Click Update

DHIS 2 Pivot Table

Data

Indicators

PMA Target and coverage

Achev

Achev - 15.1 PF: Nouvelles ou ancienne acceptantes pilules ou injectables

Achev - 12.1 Accouchement dystociques

Achev - 12.2 Accouchement dystociques - indigent

Achev - 13.1 Curetage après avortement spontané (ou indication médicale)

Achev - 14.1 Consultation postnatale

Achev - 16.1 PF: implants ou DIU

Achev - 17.1 VIH/SIDA y compris femmes enceintes

Achev - 18.1 Femme enceinte VIH+ sous protocole ARV prophylaxie

Achev - 19.1 Prise en charge du nouveau-né d'une femme VIH+

Achev - 20.1 Dépistage des cas TBC positifs par mois

Selected

Periods

Organisation units

Contract Group

Contract Type

Facility Type

PCA / PMA

RBF Facilities group set

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Table Chart Map

CITE DES PALMIERS

Data / Period	December 2016	November 2016	October 2016
Achev - 10.1 CPN1 ou CPN2 ou CPN3 ou CPN4	15.2	15	14.8
Achev - 11.1 Accouchement eutociques	23.7	29.3	25.3
Achev - 11.2 Accouchement eutociques - indigent	2	2	2
Achev - 12.1 Accouchement dystociques	0	0	0
Achev - 12.2 Accouchement dystociques - indigent	0	0	0
Achev - 13.1 Curetage après avortement spontané (ou indication médicale)	124	119.2	95.4
Achev - 14.1 Consultation postnatale	6	5.7	6.8
Achev - 16.1 PF: implants ou DIU	33.7	30.5	49
Achev - 17.1 VIH/SIDA y compris femmes enceintes	72.8	67.3	72.2
Achev - 18.1 Femme enceinte VIH+ sous protocole ARV prophylaxie	20.4	27.2	6.8
Achev - 19.1 Prise en charge du nouveau-né d'une femme VIH+	7.7	11.5	11.5
Achev - 20.1 Dépistage des cas TBC positifs par mois	0	6	0
Achev - 21.1 Cas TBC traités et guéris	0	0	0
Achev - 3.1 Petite chirurgie	34.9	38.7	37.3
Achev - 3.2 Petite chirurgie - indigent	10.5	15.2	14
Achev - 4.1 Références arrivées à l'hôpital			
Achev - 5.1 Cas IST traité selon le protocole	34.6	25.3	27.1
Achev - 6.1 Enfants complètement vaccinés dans la même FOSA avant son 1er anniversaire	43	44.4	43.9
Achev - 6.2 Penta1 ou Penta 2 ou Penta 3 ou VAA ou VAR	0	0	0
Achev - 7.1 TPI1 ou TPI2 ou TPI3	37	36.2	36.1
Achev - 9.1 Distribution VIT A	10.5	11.5	10.5
Achev 23.1-Cas référés par relais communautaires et arrivés (plafond 5% des CE)	0.81	0.81	0.27
Achev 24.1-Cas abandon récupérés par relais communautaires	0	0	0

Click Update

[illegible]

Saving your Pivot Table

Click Favorites

Give it a name-
include the What,
When and Where

Click Save








































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<<< Update Favorites Layout Options Download Embed Table Chart Map

SAVE FAVORITE AS

Tamara_Goldschmidt_Targets per Indicator_Littoral_ Oct - Dec 2016

Search for favorites..

NAME	LAST UPDATED	
Coverage_DS_Mbangué(October -December 2016)	2017-06-06, 13:25	  
Invoice - District Consolidated - Monthly	2017-06-08, 13:48	  
Invoice- PMA- Montly + Quarterly	2017-06-02, 13:53	  
Invoice- PMA- Montly Total- Primary Contract - copy	2017-05-31, 14:17	  
Invoice- PMA- Quarterly	2017-06-01, 14:12	  
martin_report_tabe	2017-05-24, 13:00	  
Monthly PMA Synthesized	2017-06-07, 14:54	  
Quantité PMA	2017-06-01, 13:12	  
Quantité PMA plus Quantité Total PMA	2017-06-02, 13:37	  
quarterly invoice PMA	2017-06-05, 09:33	  
Quarterly PMA synthesized	2017-06-08, 08:26	  
Reporting Rate- Data Completenss	2017-06-07, 07:12	  
Target Achievement per indicator - Cameroon - Last 12 Months	2017-06-04, 22:37	  

Page 1 of 1

Prev Next Save

Make your pivot table

Exercise 1:

Create a pivot table that looks at the difference in the amounts of the different HIV drugs distributed in the DRC during the last 12 months

Data Element Group: STS

Column: Data

Rows: Periods

Save it as **your name_what_where_when**



Data Visualization



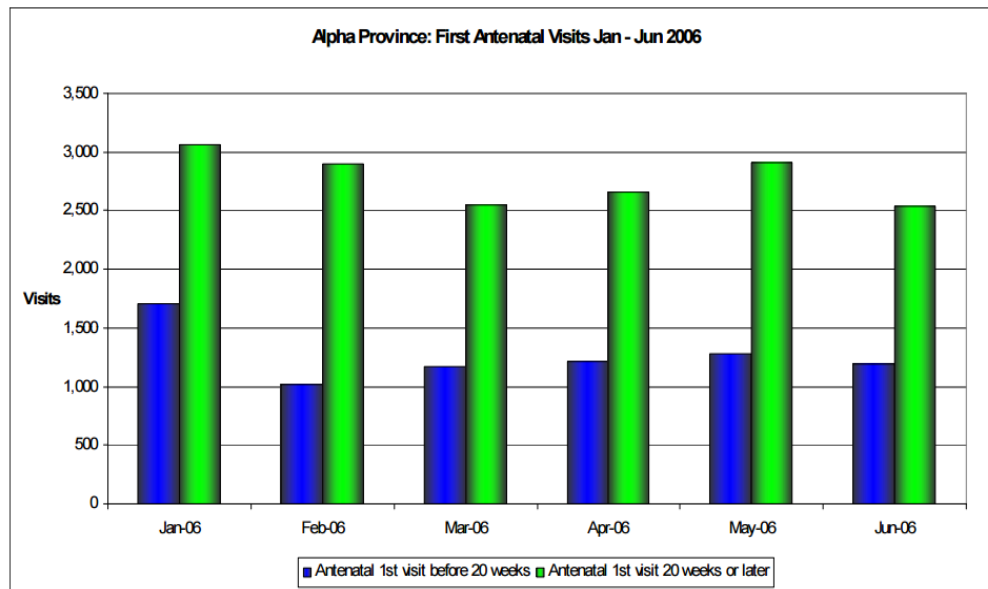
Types of Graphs

- . Bar Chart
- . Stacked bar chart
- . Line chart
- . Pie chart
- . Radar chart

Bar Chart

Comparing 2 situations- 2 org units, 2 periods, 2 data elements/ indicators (ex. verified values vs. Targets)

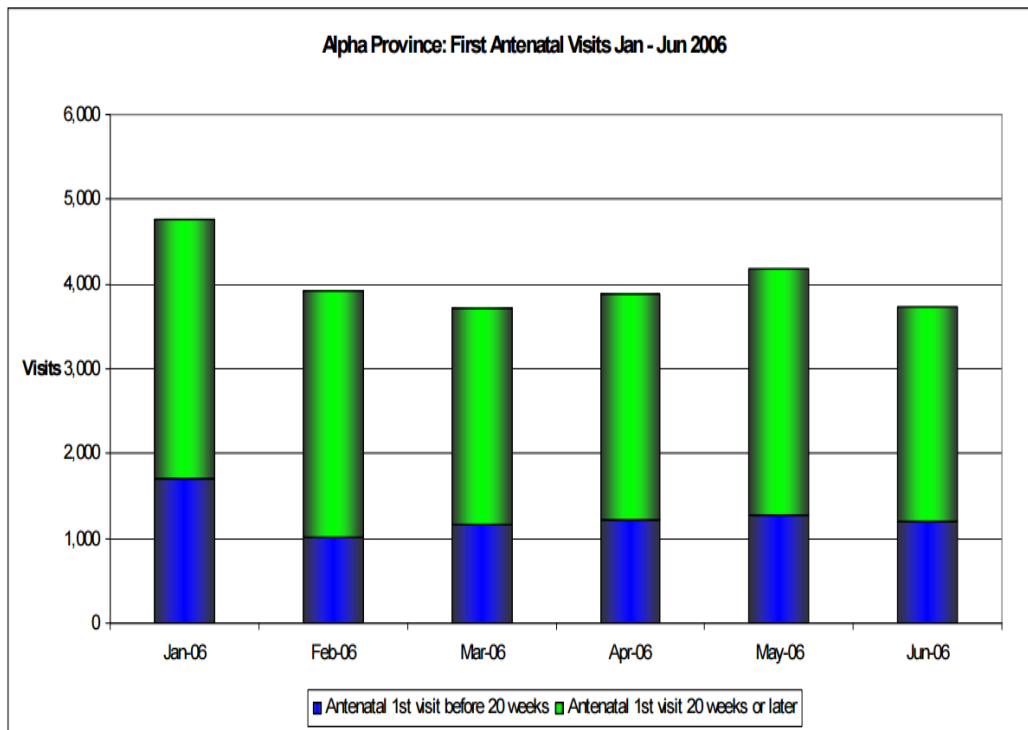
Comparing # of women who received their first ANC visit vs. # of women who received their 4th ANC visit



Stacked Bar Chart

Comparing 2 data elements or indicators and their relative importance to a total

Ex. Distribution of birth control- stack long acting and short acting to see the relative distribution in the total distribution

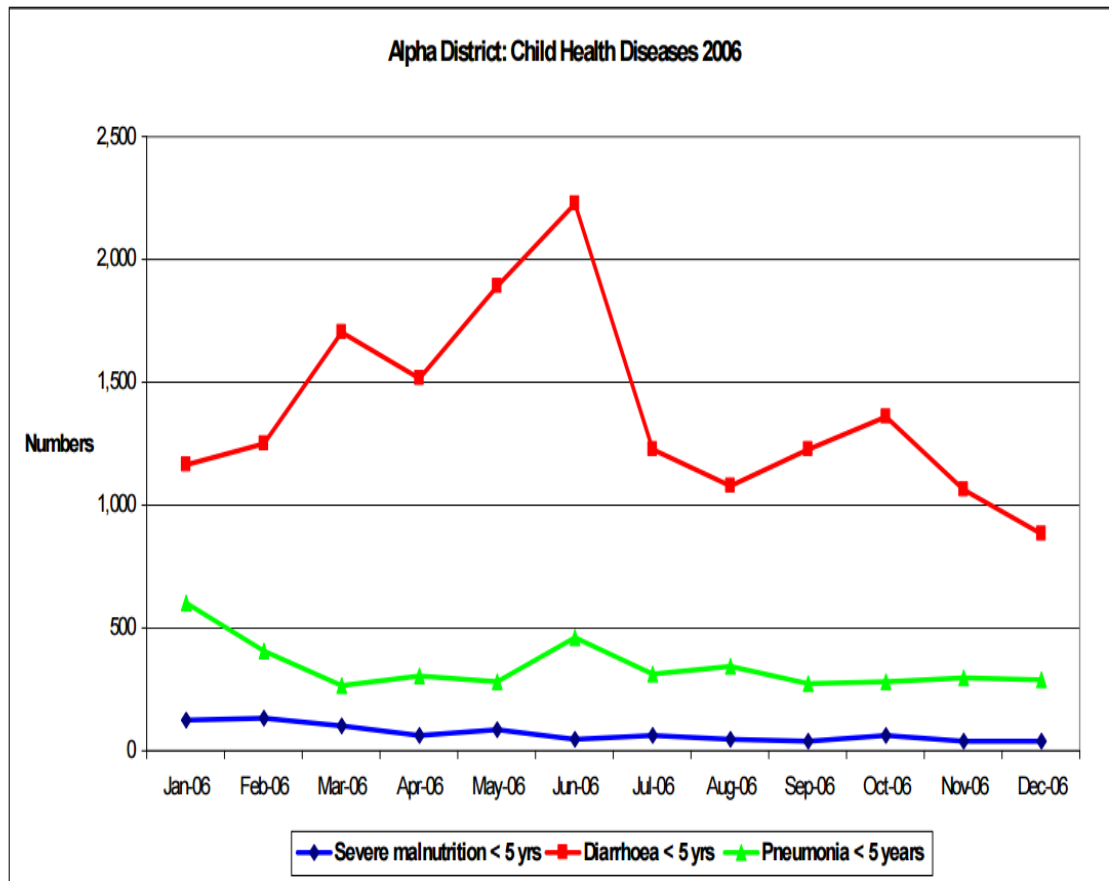


Line Chart

View trends over time

Compare two or more trends

Ex. The coverage of several different MNCH PBF indicators over time



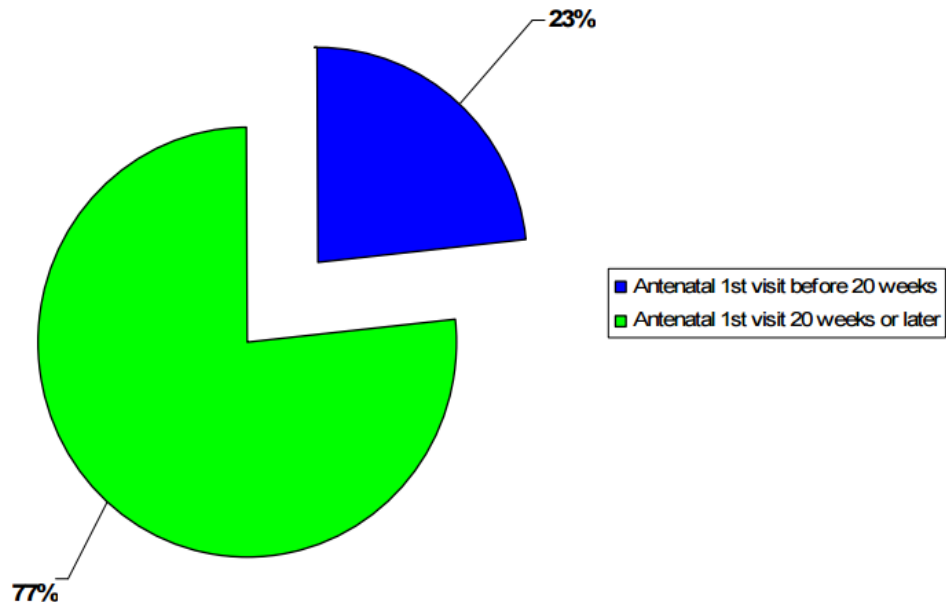
Pie Chart

Comparing portions of a whole

Ex. The distribution of family planning services

Ex. The distribution of payments for MNCH indicators

Clinic Alpha: 1st Antenatal Visits before 20 weeks 2006



Build your graph

Exercise 2:

Take your pivot table and turn it into a graph- play around with the different kinds of graphs and the layout.

Or, get creative! Create a new pivot table and make a graph that is important to you.

Save it as **your name_what_where_when**



Creating Dashboards



Dashboards

9 dots >
Dashboard

Access your pivot
tables and data
visualizations at a
glance

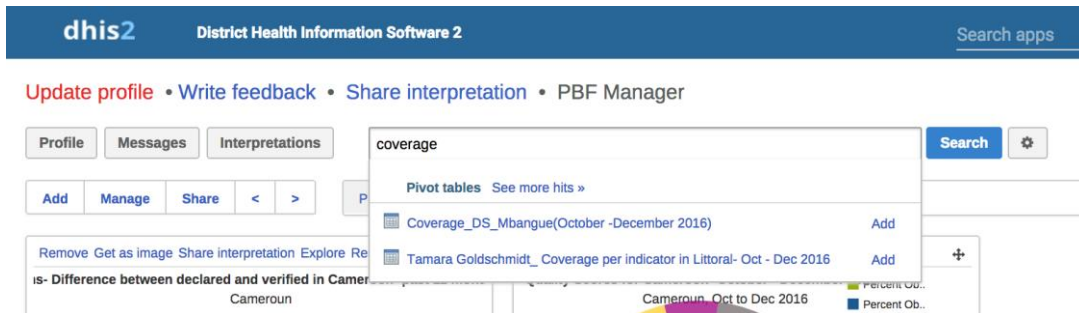
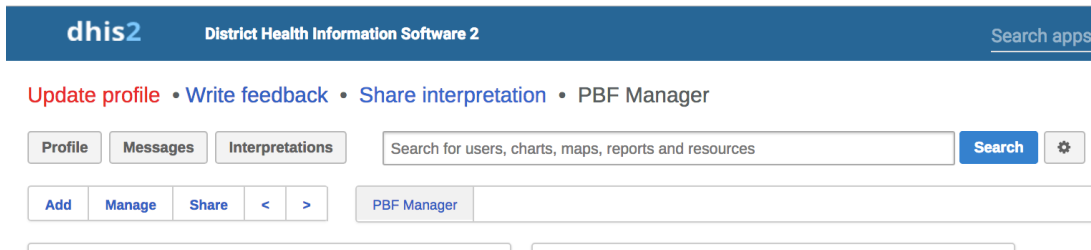


Creating your dashboard

Add- create a new dashboard

Search- find charts and graphs

Add- Include them in your dashboard



Add your graph to the dashboard

Exercise 3:

Add your graph to the dashboard titled- Demo Dashboard



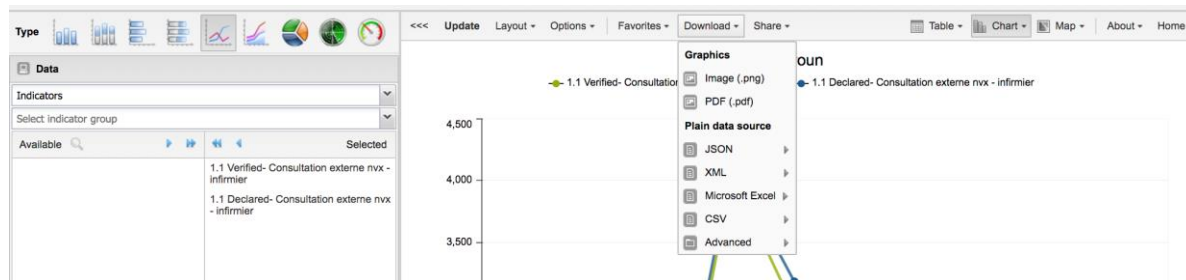
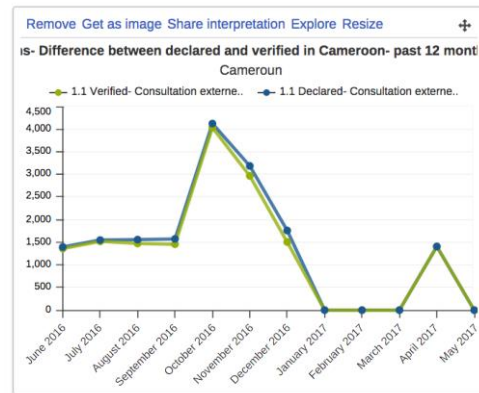
Exporting Data and sharing Interpretations



Exporting Data

Download images from your dashboard

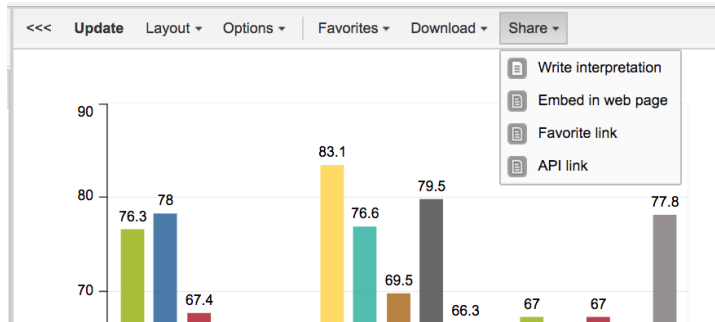
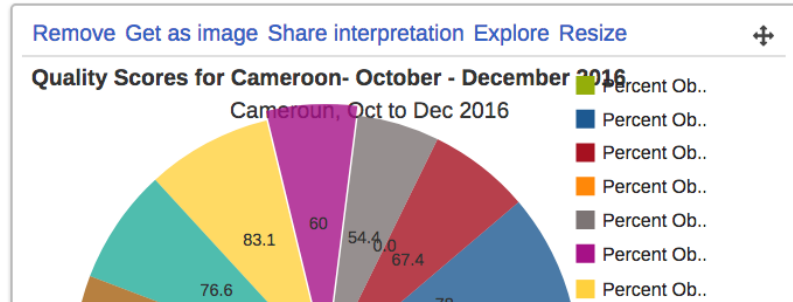
From the Data Visualizer, export the data as an image or the raw data



Sharing Data

Share interpretation-
from dashboard or
data visualization/
pivot table page

New interpretations
on the home bar



dhis2 District Health Information Software 2 Search apps

Update profile • Write feedback • 1 new interpretation • PBF Manager

Profile Messages Interpretations Search for users, charts, maps, reports and resources Search

Add Manage Share < > PBF Manager

ANY QUESTIONS?

Thank you!

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