Data DENT

Data for Decisions to Expand Nutrition Transformation Best practices and lessons for data visualization tools in Nutrition

Results for Development

Why visualize data and why are data visualization tools helpful?

- 1 Why visualize data?
- Human brains more rapidly process visuals compared to text
- Data are more persuasive as graphs compared to tables



2 Why are data visualization tools (DVTs) helpful?



- DVTs are interfaces between data systems and data users, making them useful in facilitating decision-making, advocacy, and communication
- Indicator choices and visuals in DVTs can ensure focus on key priorities and facilitate data interpretation to better support decisions
- Different types of DVTs are usually associated with different types of goals, objectives, and decisions



The following recommendations stem from several DataDENT workstreams on DVTs in nutrition at the global and country levels





Landscaping of Global Nutrition DVTs

We conducted a review of existing global DVTs in nutrition and examined how they contribute to the nutrition landscape



Global Nutrition DVT <u>User Research</u>

We unpacked the context of use of global DVTs in nutrition and identified strengths and challenges of existing DVTs



Online Survey of Nutrition data use and needs

We assessed the use of nutrition data by stakeholders including their use of global nutrition DVTs



Country-Level Work in **India** and Nigeria

In India, we completed a landscaping of DVTs and in Nigeria, we developed a nutrition scorecard with the Nigeria Governor's Forum





Many global nutrition DVTs already exist; ensure that any new or improved DVT has a unique value add

There are a growing number of global data visualization tools in nutrition (22 as of 2019)

GLOBAL HUNGER INDEX

CONTINENTAL NUTRITION ACCOUNTABILITY SCORECARD

Nutrition for Growth Accountability Tool



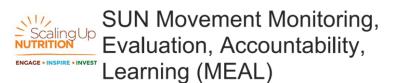
Global targets tracking tool





Vitamin A supplementation interactive dashboard

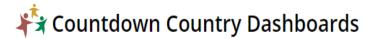


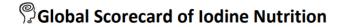












MEASURING PROGRESS
TOWARDS ENDING MALNUTRITION







GLOBAL BREASTFEEDING SCORECARD, 2017



UNICEF / WHO / World Bank Group

Joint Child Malnutrition Estimates

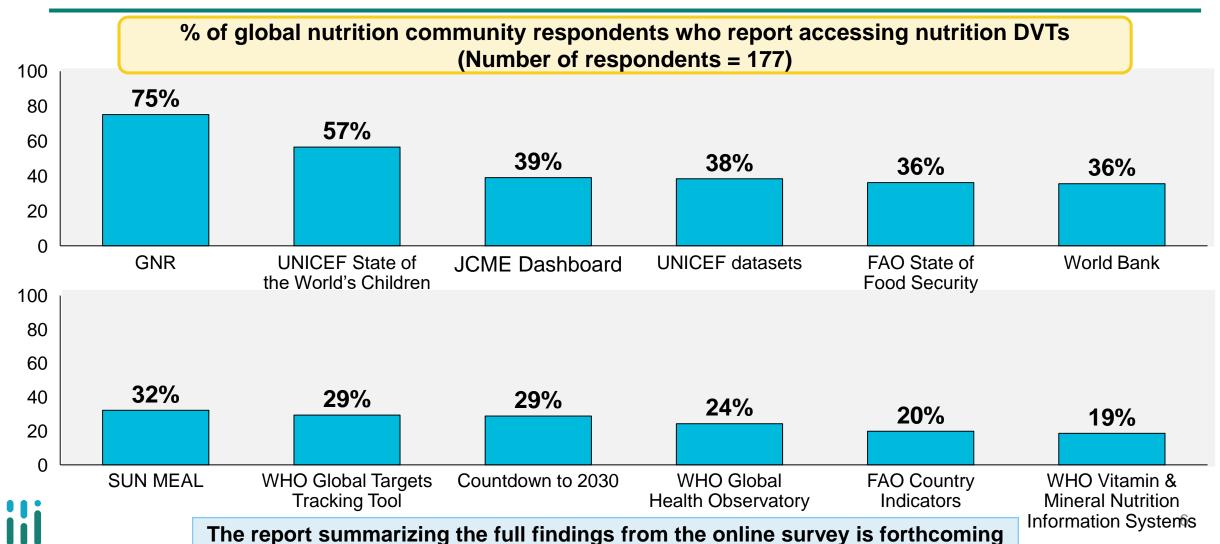




State of the World's Children
Report Dashboard



Our online survey showed that while there are many DVTs, only a select few appear to be accessed by a number of nutrition stakeholders





Every DVT needs a clear theory of change guiding its design and use

A clear theory of change helps ensure the DVT will lead to the intended action



A strong theory of change means having:









While most global nutrition DVTs have a broad or unclear theory of change, there are a few exceptions including the African Leaders Malaria Alliance (ALMA) scorecard





- ✓ Actionable indicators that align with their agenda, provide action loops (i.e., color coding; arrows) and recommended actions
- A strong engagement strategy with their targeted decision-makers, provide quarterly reports on progress, meet regularly, and facilitate TA

Second Quarter 2020	Co	ommodities finance	ed	Financial control	Monitoring and Management	
	LLIN/IRS financing 2020 projection (% of need)	Public sector RDT financing 2020 projection (% of need)	Public sector ACT financing 2020 projection (% of need)	World Bank rating on public sector management and institutions 2018 (CPIA Cluster D)	Insecticide classes with mosquito resistance confirmed since 2010	Insecticide Resistance Monitoring and Management National IRM Plan Monitoring since 2015
Country						5
Angola	100	100	100		3	
Benin	98	100		3.3	4	
Botswana	100	100	100		1	



An example of a country nutrition DVT with a clear theory of change includes the Nigeria Governors' Forum (NGF) scorecard



- ✓ The NGF's nutrition scorecard focuses on influencing actions that can be taken by the Governors to improve the enabling environment for nutrition
- ✓ The Governors meet on a regular basis to review their states progress using the scorecard
- ▼ The red/green colors of the scorecard are straightforward and inspire competition among the states

Commitment	Indicator	Abia	Anambra	Ebonyi	Enugu	lmo
	SCFN Quarterly meeting held and chaired by the SCFN Chair	11	11	11	11	11
	At least 75% of necessary funding for SCFN workplan released quarterly (% released located to the left of circle if available)	11	11	11	11	11
To establish a multisectoral nutrition plan	MSPAN approved	11	11	11	11	11
To promote maternity protections	Six months maternity leave with full pay	11	11	11	11	11
	A functional creche registered in the State Secretariat	11	11	11	11	11





Include actionable indicators that align with the DVT's theory of change

DVTs should include more actionable indicators for their target audience to influence their behaviors & decisions

Actionable indicators for policy change generally fall within 3 domains:



Enacted Legislations

Example:

Indicators about the <u>existence and</u> <u>quality of nutrition policies</u> could help identify gaps and strengthen nutrition policies



Other Enabling Environment

Example:

Indicators about monitoring effectiveness of BMS code legislation can pinpoint areas for improvement of implementation



Program Coverage

Example:

Indicators on <u>food fortification</u> <u>coverage</u> can identify regions for scaling up fortification programs

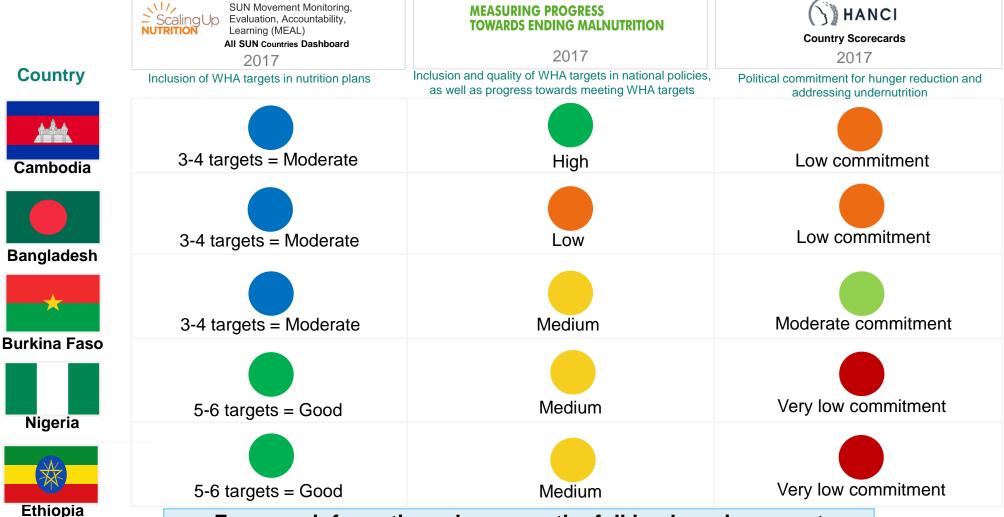
Actionable indicators can be short-listed after consulting the target audience on their specific needs





When selecting indicators for a DVT be mindful of how the definitions compare with other indicators in common use

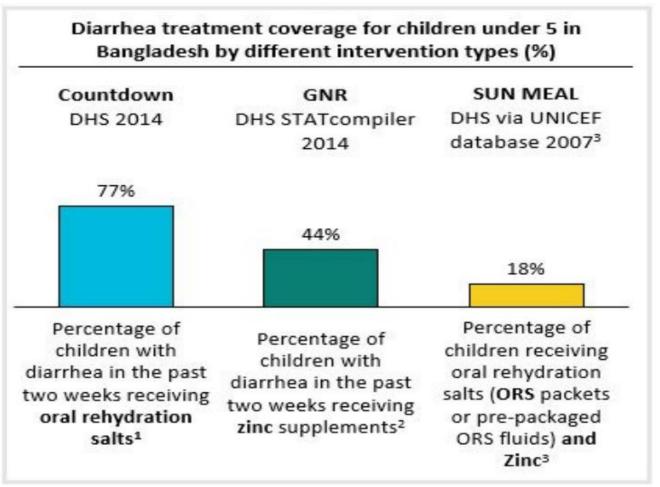
Some DVTs use different indicator definitions and methodologies for similar measures – which may send mixed messages to users





DVTs reporting common indicators is especially problematic when they use different definitions that can lead to different conclusions

As an example, differences in the definition of coverage of interventions can lead to different and confusing results







Be transparent about data source and ensure data are up to date

Provide users with complete and up-to-date information

The four challenges identified in our user researcher were:



Unknown Metadata

"What is missing? That metadata is the first thing that I come back to...the indicator name, full definition, type of data...is not always clear from other sources" – CSO/INGO



Lack of Current Information

"If you're going to use it, you want to be sure it is continually updated and hosted by something like FAO, WHO, or the WB where you know [they]...will be sustaining it" – Donor



Lack of Historical Data

"I would want to look at change over time and what specific changes have been made" - CSO/INGO



Lack of Disaggregated Data

"You don't always get all the extra bits with it, like being able to understand [the data] by different classifications and different levels of disaggregation" – Donor





Test visualization formats with targeted users to ensure formats align with users' data literacy levels and preferences

For example, in our research, we identified key features liked by users, such as ease of use and interactivity



The visualization is quite good because...it allows you to modify it a little bit and do quick comparisons. – UN Agency

I like that rather than having to search in the MEAL, it **gives it to me in an efficient way**...you know where to find things. – CSO/INGO



I like the aesthetics...It needs to look pretty and I think the aesthetic makes a difference. Clear and simple are my biggest criteria. – CSO/INGO

I like really clear data points that show a message in a very obvious way. — CSO/INGO



The **GNR** is more user friendly for the comms sections, and that's where they [the comms team] go. – Donor

It's useful to bring together progress against targets and it's **clearly presented**. – Donor



They have these **amazing infographics** that break it down by geographic region. – Academia

The JCME is quite clear. It's easy to navigate. – CSO/INGO





Provide user support to understand, interpret, and use the data correctly

As an example of user engagement, in our India DVT work, we found that DVT producers are providing support to users in three ways





User Guides

Example: Tata NIN has documentation on their webpage explaining what content is available on each tab of their DVT, how they aggregated data, indicator definitions, and sources





Training

Example: Champions of Change held a two-day training during their launch for District Magistrates and District Information Officers (NIC officers)



WhatsApp Group

Example: Champions of Change said they use WhatsApp groups to follow up and address problems of their team at state and district level





Finally, address broader sector-wide issues with data availability and quality that can constrain the usefulness of global nutrition DVTs

The usefulness of specific global nutrition DVTs is constrained by broader sector-wide issues with nutrition data availability and quality

Timeliness of Data

"You look for DHS information for one country and the latest information is from 8 years ago. **Those kind of gaps make it not as current**." – Academia

Quality of Data

"There are challenges with data quality, especially with routine monitoring systems... they may be unreliable" – Donor

Many Sources with Conflicting Data

"Sometimes it can **get confusing to figure out what's the best source if something contradicts** something else." – CSO/INGO

Lack of Specific Indicators

"The financing data has a huge deficit there. You have to piece things together" – UN Agency

Lack of Disaggregated Data

"[We are missing] having data that's disaggregated at state or district or province level." – CSO/INGO

