2020 TUPAIA FUNCTIONALITY AND VISUALISATIONS



www.tupaia.org

Dashboards

In Tupaia, the right hand side of the screen is called a dashboard. The information can be tailored in the dashboard according to the view. At the Regional, National or Provincial level the dashboard shows aggregate data, or it shows more specific data for a single facility.



The blue box shows the area referred to as a 'dashboard'.

Clicking on the < tab will expand the dashboard, and many of the graphs and tables presented in the dashboard can be clicked on for a more thorough view.



An expanded dashboard at the National level

Tupaia

Map Overlays

Map overlays offer a variety of options for showing specific data marked on the map. The data is generally shown with respect to health facilities based on their location.



The blue box highlights where a map overlay can be selected.



An example of a map overlay, showing results at each facility according to which data point is selected on the left



Integration

Tupaia can link with other software to enable information flow between the two without the need to re-enter data at any stage. Currently, Tupaia displays data through linking with mSupply stock management software and DHIS2 health information software. This allows the country to choose displays that ensures the data can be visualised in the most useful way, whether it be decision support tools, resource allocation support, data analysis or data displays that support reporting requirements.

Tupaia MediTrak is a data collection tool that allows data to be collected in a simple survey format via an app. The data collected by Tupaia MediTrak can feed directly into Tupaia.org and display relevant data as it is submitted, allowing for ongoing data collection and up to date data displays.

Tupaia MediTrak can also be used in isolation without Tupaia.org, for example the monthly facility survey (MS-1) in Kiribati is collected through the use of a custom built survey in MediTrak, and the data feeds into the local MS-1 database.



Raw Data Downloads

A dashboard can be set up to allow users access to raw data downloads pertaining to surveys submitted. Downloads can be filtered by date range and survey type. Data downloads are exported in excel format.



Raw data download dashboard shows surveys available to download

Tupaia	Q Search Lo	cation	👻 ERIN NUNAN 🚯
Select your map data	× Download Raw Data, Solomon Islands		Solomon Islands
Beogainthe Island Cholesul Province	🗖 Jan 2015 - Oct 2019		Solomon Islands
Western Province Isabel Province	Basic Clinic Data		Raw Data Downloads 🗸 🗸
Honiara Icanal Province	Facility Fundamentals Childhood Diarrhoea		Basic Clinic Data Facility Fundamentals
	Disaster Preparedness & Response		Childhood Diarrhoea Disaster Preparedness & Response
 Rennell and Bo 	Disaster Preparation POST Disaster 24-48 hours	⊙ +	Disaster Preparation POST Disaster 24-48 hours
Open * Temporarily closed Open * Community health centre	Clinic Aid post Other No data		POST Disaster within 2 weeks SARA Survey

Raw data download dashboard view (expanded) allows for selection of which surveys to download and within which date range

Tupaia

Visualisations

Dashboards

Tupaia currently has a number of display types in use, examples of which will be shown below. This provides an overview of how some of the current data is displayed.

A different display is required depending on how the data is intended to be used by the relevant project or country.

We have an in house software development team capable of customising dashboard displays to enable the most appropriate display for new projects and data.

A dashboard initially displays as a panel on the right hand side, with the name of the area you are viewing (region, country, province, town, facility) on top. By clicking on the < tab you can expand the dashboard view, and from there, some of the different elements (e.g. graphs or tables) can be further expanded to see the information in more detail.



Dashboard view: a sample of the dashboard is shown in the right hand side. Clicking the < tab will expand the dashboard.

Tupaia		Q Search Location	👻 ERIN NUNAN 👔
💡 Select your map data 🗸 🚽			
	Community Health		•
● Open 🗱 Temporarily closed ▲ Permanently closed 🔅 No data	Number of Clinic Dressings	HBa1c : HBa1c: Excellent (s 6 HBa1c: Very poor (s 10%) HBa1c: Very poor (s 10%) HBa1	Screening Results
 Hospital Community health centre Clinic Other Other No data 	eGFR Screening Results	Fasting	Cholesterol Levels

Expanded dashboard view: multiple dashboard elements are shown when the right hand side dashboard panel is expanded

Dashboard Visual Types



Stacked bar graph



Line graph











Bar graph, with or without average line

	Stock Card Use at Facility Level for RH Products, Vaini < <u>12020</u> >	The set of
UNFPA: Does this facility provide family	Male condoms	
planning services?	Female condoms	
UNFPA: ANC services	Combined oral contraceptive	
	Progesterone only pill	
UNFPA: Provision of PNC services	Injectable contraceptives	
INFPA: Routine Delivery services	IUDs	
on TA. Routine Denvery services	Implant contraceptives	
	Encourse and encourse and the second	

Binary data displays

Tup	aia						Q s						ERIN NUNAN	0
	International Health								2				<u></u>	
	Regulations		ovince AP	rovinceaf	al Province	, no	since ut	awa Provint	ownce, ar	d Bellona	lovince P	lovince		
n S _{ea}	eg Surgical Q	Prest Central	choiseu	Guadalt	Honiara	Isabelt	Makifar	Malatta	Rennelling	Ternotu	Western			
	- Legislation and Financing													
	Budget availability (financing for IHR capacities)	•		•	۲		۲	ightarrow	۲	۲	ightarrow			
6	Financing mechanism and funds for timely response	•	•	•	•		•		•	۲	•			vince
▲ ● Ho	Legislation and financing		۲	۲			•	۲	•		۲			
	I enclosion lowe remulations and		-	Ê			0	Ê	6					

Traffic light matrix table



Text / value matrix table

% of surveyed facilities with IPC commodities in stock,	. The and the company of the sect	
Water for hand washing	91.7%	
Soap for hand washing	75%	
Alcohol hand sanitizer	95.8%	
Disposable gloves	83.3%	
Face masks	54.2%	
Paracetamol tablets	70.8%	
Equipment cleaning and disinfectant products	83.3%	
Oxygen concentrator	0%	
Oxygen bottles	29.2%	
Oxygen masks	41.7%	
Pulse oximiter	45.8%	

Value matrix table with calculations



Combination matrix table (traffic light and value)

Tupa	ia											Q Search Location	ERIN NUNAN	0
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○ op > col	Current Vaccines Stock on Hand	AND ADDRESS	Safe Water of	See. In sec.			ee ani		Inel	NAN CHAR				
> Dis	eg surgical 🔍	~ * ~ 4°	40	Ala (38	Que.	b2.	43	<i>τ</i> ».	Acoust	G ^{ar}			
> Fac	Doses of BCG vaccine				40									
> Lat	Doses of Hepatitis B vaccine				3									
> Me	Doses of HPV vaccine		0	0	52		0	18	0	858	0			
> Ser	Doses of IPV vaccine		0	0	0		10	15	0	90	0			
> Wa	Doses of MR vaccine		70	350	320		0	0	0	670	0			
	Doses of OPV vaccine		40	20	340		0	0	0	1760	20			
	Doses of Pentavalent vaccine		0	44	450		10	0	0	285	0			
	Doses of TD vaccine		40	140	160		0	50	0	100	0			
		¢	Yes ONO	@ No d	iata									

Matrix table - data pushed to Tupaia.org from LMIS system



Live fridge temperature data via blue tooth sensor



Ministry of Health NATIONAL REF	and Medical Services ERRAL HOSPITAL S We Provide
Emergency Department General Outpatient Department	National Diabetes Center Regional Eye Center
Physiotherapy Department Pharmacy Department	Operating Theatre
Diagnostic Imaging Department	Surgical Ward

National Referral Hospital

General	-
Vaccination at facility	Daily
Vaccination as outreach	As required
Catchment population	221268
Opening Days	Mon - Sat
Number of staff working	583
Delivery and newborn care STI Treatment offered TB Treatment Malaria treatment X-Ray Machine Inpatient beds	() () () () () () () () () () () () () (

Ability to take a photo in Tupaia Meditrak and add it to the dashboard





Data displayed at health facility dashboard level, with data displaying by village serviced by the health facility.

Dashboard Tricks and Tips



Export this chart		
The chart will be exported an attachment to: erinsmitchell@gmail.com	nd emailed a:	s an
O PDF		
O PNG		

Date Selector: Choose any date range to show data only within those dates. Download: Click this symbol to download any image for offline

use

CVUD-19 Total confirmed cases by State, Australia I tat January 2015 - 30th July 2020 Total confirmed cases for each State

Filter by legend: Clicking on any individual item in the legend will show only that data in isolation. Click 'All' to return.



Visualisations

Map Overlays

Map overlays show data for a single indicator mapped across a region, based on health facilities or villages depending on the type of data displayed.







Country, Province or Village polygon shading



Live temperature tracking from fridge sensors, mapped by fridge location



Map pins representing binary data at the facility location



Map pins showing multiple categories at facility locations



Radius / heat map - colour refers to one data point, circle size represents a different data point (health facility as the entity)



Heat map - darker colour = increasing value



Radius / bubble map, increasing size = increasing value



Clicking on an entity will display the actual value

