

National Health Workforce Accounts Online Platform – part I

Introduction *Exercises*: maturity assessment, data entry

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Why the need for a platform?



NHWA data platform enables users to **record**, **analyze** and **visualize** information and evidence on health workforce.

The data platform is developed bearing in mind a country perspective

- To have a national level system to systematically record time trend data in a structured and standardized manner
- To have a tool for national level stakeholders to view and visualize data recorded at the national level
- To provide a common place for multi-stakeholder data exchange without disrupting existing stakeholder databases.

Data management and use





Overview of the platform architecture



- NHWA data platform is developed on a DHIS2 instance, hosted in WHO.
- Following all the WHO security clearance and data sharing policies.
- The server is co-shared with other departments.
- 4 instances dev, training (used for exercises this week), preprod, prod





- Access to the NHWA data platform is possible through individual password protected user accounts
- Each account is assigned a role and geographic location (country/region)
- Multiple users from the same country can access the system
- Main 3 categories of users

Who can? What they can?



	Data viewer	Data clerk	Data manager
View data entered in the platform in pivot tables	\checkmark	\checkmark	\checkmark
Create charts and dashboards using the data visualization tools	\checkmark	\checkmark	\checkmark
Enter new data in the platform		\checkmark	\checkmark
Edit entered/existing data in the platform		\checkmark	\checkmark
Approve entered data in the platform			\checkmark

For this workshop, we will all be using Data Manager profiles

To connect



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WHO Integrated data platform

Welcome on the WHO Integrated data platform ! Please enter your credential to enter into the platform.



World Health Organization

User name

	Sign in	
	Username	Decement
	Password	Password
	Sign in	
	For any issue contact us in integrated- data@who.int	
	or open a ticket in the Online Reporting System	
DHIS 2 Powered by DHIS2, Managed by V	VHO	D-HQ [Change language] 🔻

What can you do in the platform?















Access to functions/apps



Functions are referred to as 'Apps' in the system

Available from the Landing page, also from any other page



NHWA Landing page



NATIONAL HEALTH WORKFORCE ACCOUNTS ONLINE DATA PLATFORM

	Welcome			User Guide	Logout
	NHWA maturity assessment				
	NHWA maturity assessment enables countries to ass	ess their national information system and its capacity to add	ress the NHWA indicators.		
	Validate existing baseline data				
	The validation exercise enables countries to view exis	ting data and undertake necessary action of data correctior	v/update as required.		
1	NHWA a entry				
	Data entry into the system can be done (i)directly through the	e system interface or (ii) as batch upload through excel shee	ts		
	Visualise data				
	Access programmed data infographics or create customised	data visualisation with the existing data			
	Pivot Table Enables users to create pivot tables, using available data	Enables users to easily create dynamic data analysis and visualizations through charts and data tables.	GIS Enables users to visualize data system.	in Geographical	location
	Dashboard	(WiDashboard	NHWA reports		

Access pre populated data infographics based on existing Access to an interactive dashboard data

Access to the NHWA reports

NHWA maturity assessment

Organisation Unit	France				
Data Set	NHWA Matur	ity assessment	:		
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M01 - Activ	ve health v your country h	vorkforce	stock		
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Health occupations by facil	lity type?	🔿 No value	O Yes O	No	9
Health occupations by fore	ign-born?	🔿 No value	O Yes C	No	9
Health occupations by fore	ign-trained?	🔘 No value	○ Yes ○	No	9
Health and social sector er	mployment?	🔘 No value	O Yes O	No	Q



- Enables countries to assess the capacity of their information system to generate NHWA indicators
- List of Yes/No questions on indicators availability
- Possibility to record comments to indicate special cases, exceptions etc.



Data validation

DHIS 2 Pivot Tables Stock : data validation table 🔳 Data W Undate - Eavorites - Lavout - Options -Download - Embed v Global Indicators ¥ Data / Period 2000 ± 2001 ± 2002 ± 2003 ± 2004 ± 2005 ± 2006 ± 2007 + 2008 + 2009 + 2010 + 2011 + 2012 + 2013 + 2014 + 2015 + 2016 + 2017 ÷ Select indicator group Medical doctors not further defined Stock Total 1 236 328 576 224 506 502 380 979 1 359 262 1 347 928 544 400 544 540 613 209 590 028 1 629 290 1 592 154 1 334 000 1 893 211 1 353 945 1 333 844 1 460 831 962 238 > > « < Selected Available General Medical Practitioners Stock Total 155 380 255 200 860 726 1 0 4 4 783 21 334 15 218 Medical doctors not further defined Stock Specialist Medical Practitioners Stock Total 114 54 273 280 293 309 13 339 15 150 297 542 General Medical Practitioners Stock Total Gen Paediatricians Practitioners Stock Total 840 Specialist Medical Practitioners Stock Tota 527 Obstetricians and Gynaecologists Stock Total Gen Paediatricians Practitioners Stock Total Psychiatrists Practitioners Stock Total 62 Obstetricians and Gynaecologists Stock Medical Specialists Practitioners Stock Total Psychiatrists Practitioners Stock Total Surgical Specialists Practitioners Stock Total 295 Medical Specialists Practitioners Stock Other Specialists Practitioners Stock Total Surgical Specialists Practitioners Stock Nurses not further defined Stock Total 3 472 675 953 342 1 059 023 731 601 1 052 063 4 002 883 1 092 871 1 831 369 1 650 204 474 946 6 119 174 731 844 815 364 2 500 625 3 631 016 3 528 616 926 852 1 542 950 Nursing Professionals Stock Total 279 346 284 690 287 344 291 008 292 883 296 029 293 205 296 731 306 753 636 248 Other Specialists Practitioners Stock Total Nurses not further defined Stock Total Nursing Associate Professionals Stock Total 81 099 85 277 90 306 94 646 99 935 106 447 107 923 113 367 116 491 029 920 Nursing Professionals Stock Total Midwives not further defined Stock Total 1 254 5 509 3 351 2 504 6 297 1.523 2 265 1.636 2 290 13 096 9 40 2 11 818 311 308 803 867 Nursing Associate Professionals Stock Midwifery Professionals Stock Total 11 626 Total Midwives not further defined Stock Total Midwifery Associate Professionals Stock Total 30 324 5 771 287 239 474 515 288 934 286 850 Dentists Stock Total 399 549 266 503 238 264 219 438 279 275 440 777 290 818 309 600 296 709 35 321 55 824 53 206 54 285 59 854 Periods Dental Assistants and Therapists Stock Total 329 856 16 295 16 884 17 553 454 593 19 385 6 650 22 591 6 523 870 40 113 124 1 387 2 500 2 7 1 2 78 982 C Organisation units Dental Prosthetic Technicians Stock Total 55 869 6 . 8 29 6 5 2 1 8 4 461 4 404 2 4 🔲 Age group 146 428 Pharmacists Stock Total 301.058 117 404 28 243 1.080 48 119 361 522 131 800 141 779 135 697 33,872 400 154 6 275 33 235 33 538 34 416 372 390 39,685 Gender Pharmaceutical Technicians & Ass. Stock Total 10 506 2 077 1 023 15 877 1 133 72 77 685 90 3 855 3 0 3 4 3 155 1 080 586 29 615 MDG Countires Paramedical Practitioners Stock Total 274 032 579 322 163 941 77 203 167 47 52 57 337 59 Medical Laboratory scientists Stock Total 105 255 20 051 298 31 19 955 509 956 351 29 2 956 1 164 552 276 2 907 624 OUGS NTD Leish Stock AmBisome FisrtLevel Imaging Technicians Stock Total 177 411 15 160 14 787 7 15 693 331 919 16 627 7 680 17 913 18 136 443 561 689 3 062 2717 3 118 1 988 2 151 64 316 SDG Countires 43 744 Medical Laboratory Technicians Stock Total 521 337 17 999 18 272 19 105 19 402 20 790 20.530 34 203 20 745 20 803 71 482 2 6 3 2 6 5 4 9 6 395 7 258 4 281 3 599 Yes Partial No Env and Occup Health Professionals Stock Total 168 574 1 495 1 279 15 1 2 1 9 496 1 448 3 440 1 700 75 128 411 69 47 4 140 739 1 377 11 218 Env and Occup Health Inspectors Stock Total 685 20 320 1 808 1 523 1 592 5 744 2 302 168 375 Traditional Medicine Professionals Stock Tota 1 006 411 1 660 6718 310 137 3 839 Traditional Assoc Professionals Stock Total 13 126 1,930 1 488 496 7 912 45 45 49 899 50 033 52 038 52 401 72 194 496 418 Community Health Workers Stock Total 90 93 385 676 48 165 54 780 59 028 Personal workers in health n.e.c Stock Total 728 326 Health Care Assistants Stock Total 81 925 574 604 Home-based Personal Care Workers Stock Total Personal care workers Stock Total 71 797 210 482 220 178 193 861 Physiotherapists Stock Total 156 366 26 414 15 009 15 607 273 820 16 264 22 855 17 596 17 493 422 216 228 005 237 119 253 202 262 021 1 Physiotherapy Technicians Stock Total 76 307 1 103 3 337 2 126 15 340 213 974 2 667 7 0 1 0 3 741 3 057 447 922 43 2 491 2 080 39 479 Dieticians Stock Total 101 390 6 975 7 292 7 783 8 422 1 0 9 4 6 592 1 2 1 9 16 865 780 844

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Data entry through the system interface







To enter data: choose your **country** (default organisation unit selection), **NHWA module** (Data Set) and **year**

In each module, indicators are ordered in tabular format along NHWA dimensions.

Data entry – source and comments



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Data entry - completion



Excel data importer



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What if I am temporarily disconnected from internet?



 A message can sometimes indicate change of status from online to offline



Why entered data do not display in graph or tables?



- You just entered a data in the form and you do not see it in the graphs, where is it?
- The data is properly saved, however they would be ready for analysis after analytics have run (twice a day).

Tutorial video and user guide



NHWA maturity assessment tutorial: https://vimeo.com/265561781/f446326134

Data entry tutorial: <u>https://vimeo.com/265561404/0e6d7301ba</u>



NHWA User guide

- Guides users to navigate through the system
- Detailed steps for data entry and data visualizations
- Accessible from the NHWA data platform



Where to find the user guide?





User Guide

Logout

NATIONAL HEALTH WORKFORCE ACCOUNTS ONLINE DATA PLATFORM

Welcome Mathieu BONIOL

NHWA maturity assessment

NHWA maturity assessment enables countries to assess their national information system and its capacity to address the NHWA indicators.

Validate existing baseline data

The validation exercise enables countries to view existing data and undertake necessary action of data correction/update as required.

NHWA data entry

Data entry into the system can be done (i)directly through the system interface or (ii) as batch upload through excel sheets

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1.1 – Connection* https://extranet.who.int/dhis2-demo/

- 1.2 Assess availability of NHWA indicators in your country (maturity assessment)
- 1.3 **Validation** : Display and assess the data already available in the platform
- 1.4 **Data entry :** enter data [random number] (stock for doctors, nursing, pharmacists,... distribution by age, gender,....)

1.5 – Add comments and sources

- *
- !!! We are working on a Training server, so feel free to test it as much as you want.
 !!! Data on Training server are deleted every saturday.



WHO

20, Avenue Appia 1211 Geneva

Switzerland

Contact us: hrhstatistics@who.int

https://www.who.int/hrh/statistics/nhwa/en/