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.
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.
Users and user access

- 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?

<table>
<thead>
<tr>
<th>Action</th>
<th>Data viewer</th>
<th>Data clerk</th>
<th>Data manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>View data entered in the platform in pivot tables</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Create charts and dashboards using the data visualization tools</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Enter new data in the platform</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Edit entered/existing data in the platform</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Approve entered data in the platform</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

For this week, we will all be using Data Manager profiles.
Data management and use

Knowledge management
Data sharing
HWF monitoring
Policy decisions

Country level
DV, DC, DM

Regional level
DV, DC, DM

Global level
DV, DC, DM

Strategy plans, reports and national databases
Regional reports and databases
Regional benchmarks
GHO database
UNSDG database
NHWA data portal
Global benchmarks
To connect

World Health Organization

User name

Password

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

For any issue contact us in integrated-data@who.int or open a ticket in the Online Reporting System.
What can you do in the platform?

- NHWA Maturity Assessment
- DATA ENTRY
- EXCEL IMPORTER
- PIVOT TABLES
- DATA VISUALIZER
- DASHBOARD
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

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.

- Data entry through the system interface
- Batch upload through excel sheets

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.
- Data Visualizer: Enables users to easily create dynamic data analysis and visualizations through charts and data tables.
- GIS: Enables users to visualize data in Geographical location system.
- NHWA reports: Access to the NHWA reports.
- Dashboard: Access to an interactive dashboard.
NHWA maturity assessment

- 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
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

SECTION 1: HWF WORKING DETAILS

<table>
<thead>
<tr>
<th>SN</th>
<th>Occupation</th>
<th>Total</th>
<th>Practising</th>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Medical Doctors</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>General Medical Practitioners</td>
<td>80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>Specialist Medical Practitioners</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2.1</td>
<td>General paediatricians</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2.2</td>
<td>Obstetricians and Gynaecologists</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2.3</td>
<td>Psychiatrists Practitioners</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source Type

Select an option:
- Ministry of Health
- Ministry of Labour
- National Statistical Office
- Ministry of Internal Affairs
- National HRH Observatory
- Professional association
- Regulatory bodies
- WHO
- Academia
- Inter. Organisation
- Multi Agency organisations
- Other multi Agency databases

Comment

Includes Medical Doctors

Min-max limits

<table>
<thead>
<tr>
<th>Min limit</th>
<th>Max limit</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>20891.3</td>
</tr>
</tbody>
</table>

Data element history

<table>
<thead>
<tr>
<th>On</th>
<th>Modified by</th>
<th>Value</th>
<th>Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-01-14 17:45</td>
<td>Teena.kunjumen</td>
<td>209367</td>
<td>Update</td>
</tr>
<tr>
<td>2018-12-21 16:58</td>
<td>Teena.kunjumen</td>
<td>209367</td>
<td>Delete</td>
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</table>

Audit trail
Data entry - completion

<table>
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<tr>
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<th>Engineering and maintenance staff</th>
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</thead>
<tbody>
<tr>
<td>41</td>
<td></td>
<td>99</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Other non-medical professional staff</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td></td>
<td>99</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Other non-medical support staff</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td></td>
<td>99</td>
</tr>
</tbody>
</table>

If you have data on occupations and their source title, that are not listed above, you may enter them here.

Complete  Incomplete
Run validation
Excel data importer

Help Tips:
- Single or Multiple xlsx data files can be uploaded using upload button.

### NATIONAL HEALTH WORKFORCE ACCOUNTS DATA
#### Active Health Workforce Demographic Details

<table>
<thead>
<tr>
<th>SN</th>
<th>Occupation</th>
<th>Total</th>
<th>Activity Level</th>
<th>Professionally Licensed to Practice</th>
<th>Gender</th>
<th>Age Group</th>
<th>Place of Training</th>
<th>Place of Birth</th>
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<tr>
<td>0</td>
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</tr>
<tr>
<td>1</td>
<td>Medical Doctors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>1.1</td>
<td>General Medical Practitioners</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>Specialist Medical Practitioners</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>General Practitionists and Gynecologists Practitioners</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1.3.1</td>
<td>Psychiatrists Practitioners</td>
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<td></td>
</tr>
<tr>
<td>1.3.2</td>
<td>Medical group of specialists Practitioners</td>
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<tr>
<td>1.3.5</td>
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<td>Other Specialists Practitioners</td>
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</tr>
<tr>
<td>2</td>
<td>Nursing Personnel</td>
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<td>2.1</td>
<td>Nursing Professionals</td>
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<tr>
<td>2.2</td>
<td>Nursing Associate Professionals</td>
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<tr>
<td>2.3</td>
<td>Midwifery personnel</td>
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<td>Midwifery Professionals</td>
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<tr>
<td>2.3.2</td>
<td>Midwifery Associate Professionals</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2.4</td>
<td>Dentists</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>Dental Assistants and Therapists</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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[Excel screenshot with data]
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:  https://vimeo.com/265561404/0e6d7301ba

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?

Welcome Mathieu BONIOL

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Exercises – part I

1.1 – Connection [https://extranet.who.int/dhis2-demo/dhis-web-commons/security/login.action](https://extranet.who.int/dhis2-demo/dhis-web-commons/security/login.action)

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

1.5 – Add **comments and sources**