

# MEPI Connect – “Uganisha”

*Graduate Tracking Software Developed by the MEPI  
Technical Working Group for Graduate Tracking*

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*The views expressed in this presentation do not necessarily reflect the views of the United States Agency for International Development or the United States Government.*

# Uganisha means Connect!



# Development Process Timeline

1. Determine Functional Requirements- What tasks must the system accomplish for its users? *Oct 2013*
  2. Modify existing open source software according to documented requirements. *Jan- Apr 2014*
  3. TWG reviews prototype demo version *Apr2014*
  4. Proof of concept at KCMUCo *Jun 2014*
  5. User Validation Workshop at KCMUCo *Jun 2014*
  6. Make final development tweaks from workshop *Jul 2014*
  7. Release pilot version of the software to TWG schools *Aug 2014*
  8. Release software globally under open source license *TBD 2015*
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# Lusaka, Zambia October 2013

## Functional Requirements Development Workshop

- “ Focused on developing a system to track medical school graduates (paper or electronic).
- “ Developed 6 business processes the system must
  - “ Locate Graduates
  - “ Collect/Update Graduate Info.
  - “ Search and View Graduate Info.
  - “ Create Graduate Tracking Survey Tools
  - “ Managing Graduate Tracking Survey Response Data
  - “ Generate Reports
- “ Software system is a tool to assist in the multiple but not all business processes.
- “ List of functional requirements for the system served as the specifications used by software developers.



# User Validation & Training Workshop

## User Group



## Developer Team



# User Validation & Training Workshop

## Hackathon Process

Users demo and enter data into software. Provide feedback to facilitators.



Facilitators enter changes into bug tracker.

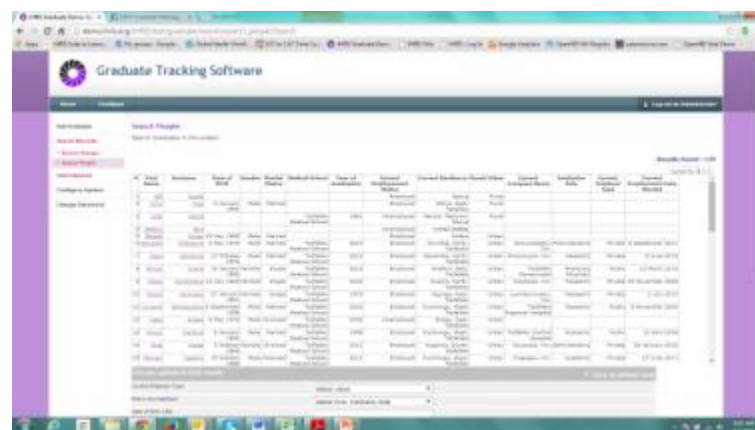


Developers ask clarifying questions and commit changes in the system in real time.



# System Core Features

- “ Manually enter individual data or upload bulk sets of graduate data
- “ Filter Search results based on key variables
- “ Customized reports
- “ Log into system over the web
- “ Graduates can log in and update their own records
- “ Role based access
- “ Contact Log



The screenshot displays the 'Graduate Tracking Software' interface. It features a search bar at the top and a large table with multiple columns. The table contains data for various graduates, including their names, IDs, and other tracking information. The interface is clean and professional, with a dark header and a light background for the data table.



# Key Variables

- “ Current Employer
- “ Employer Type (Public, Private, FBO)
- “ Community Engagement
- “ Job Preparedness
- “ Undergraduate Education
- “ Employment Status Prior to Enrollment
- “ Residence Prior to Enrollment
- “ Current Address
- “ Marital Status
- “ Specialty
- “ Private Practice?
- “ Where did you grow up?
- “ Where did you live the longest?
- “ Nationality
- “ Internship location
- “ Year of Internship
- “ Sponsorship During Education
- “ Registration Council
- “ License Number
- “ Job Satisfaction
- “ Okay to contact
- “ Deceased?
- “ Loan Amount
- “ Loan Status
- “ Job responsibilities
- “ Okay to contact?
- “ Primary/Secondary School
- “ Contact Date
- “ Contact Notes
- “ Rural & Urban designations to certain variables
- “ Photo
- “ Post graduate education



# Graduate Record

The screenshot displays a web application interface for viewing a graduate record. The browser address bar shows the URL: `demo.jhris.org/jhris/test/graduate/view?id=person%7C1D413`. The page is titled "Individual Information" and contains several sections of data:

- Individual Information:** Includes fields for Name / Nationality (Surname: Wrodekhus, First Name: Conant, Other Names: Hantze), Current Employment Status (Employed), Nationality (Tatoleki), Current Residence (Baabonga, West, Tatoleki), Primary/Secondary School, and three "Where did you grow up?" (General, Specific) fields.
- Demographic Information:** Includes Date of Birth (3 September 1988), Place of Birth (General: Mysak, South, Tatoleki; Specific), Gender (Male), and Marital Status (Married).
- Contact Information:** Includes links for "Add Work Contact", "Add Personal Contact", "Add Other Contact", and "Add Emergency Contact".
- Education Details:** Includes a "Medical School" section with fields for Medical School (Tatoleki Medical School) and Year of Graduation (2002).
- Employment History:** Includes an "Employer Information" section with fields for Company Name (Tatoleki Regional Hospital), Employer Type (Public), Rural/Urban (Rural), and Date Started (8 November 2008). It also includes a "Registration/License Information" section with fields for Registration Council (Tatoleki Medical Council), Registration Number (17721), Registration Date (20 January 2005), and License Number (175794).

# Reporting Capabilities

- ” Cross reference any set of variables
- ” Generate pie or bar graphs
- ” Filter within the report by any variables
- ” Set reports to be emailed to recipients automatically
- ” Print hard copy reports
- ” Group reports together by type or by role

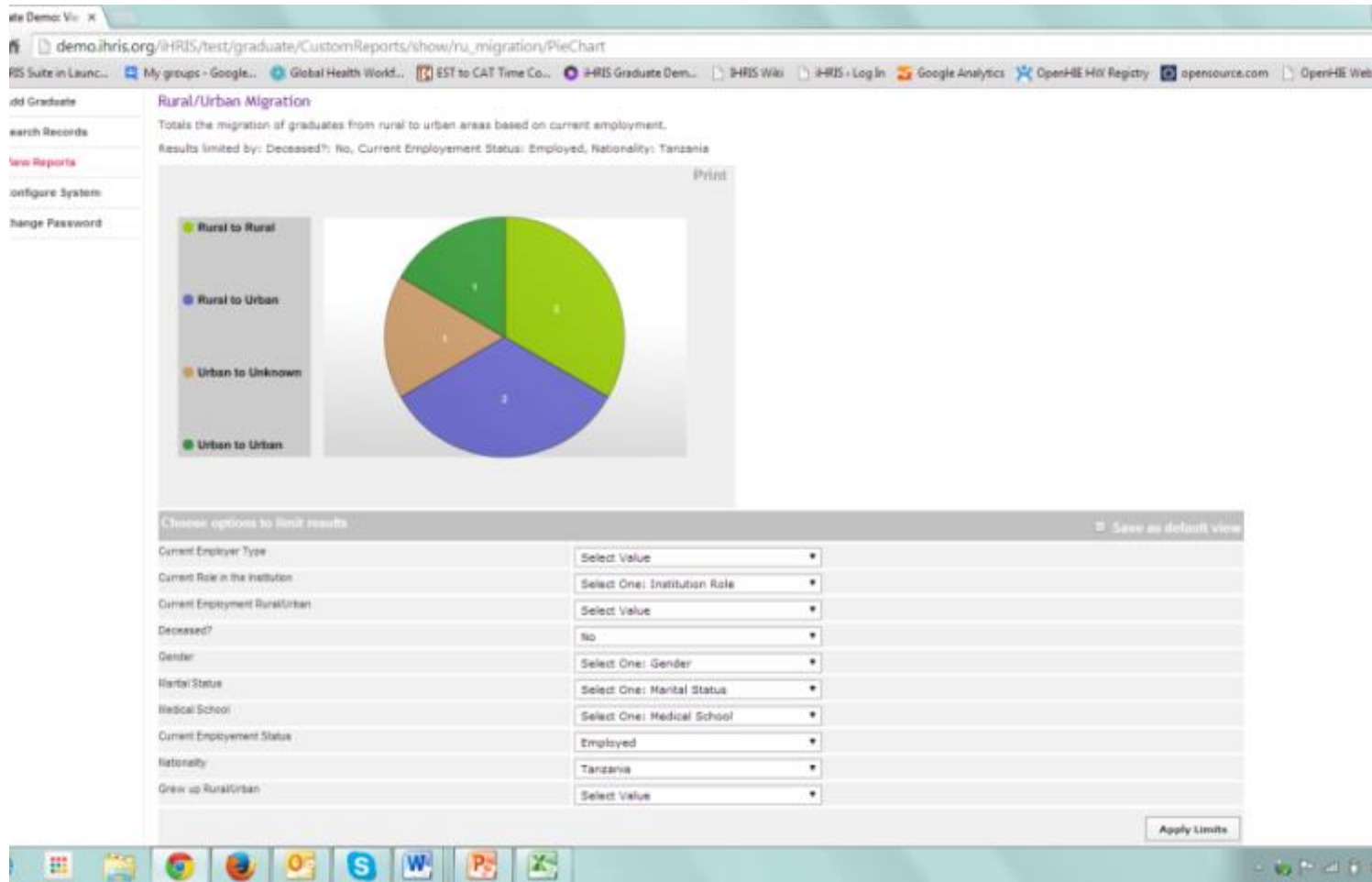
# Role within Institution

The screenshot displays the 'Number Practicing' report in the Graduate Tracking Software. The report shows the distribution of roles within an institution, limited to those who are not deceased. The roles and their counts are as follows:

Role	Count
Practicing Physician	21
Academic	20
Research	20
Unknown	20
Administrative	20

The interface includes a sidebar with navigation options: Home, Feedback, Add Graduate, Search Records, New Reports, Configure System, and Change Password. The main content area features a pie chart, a 'Print' button, and a filter section titled 'Choose options to limit results' with a 'Save as default view' option. The filter section includes dropdown menus for Current Employer Type, Current Role in the Institution, Current Employment Rural/Urban, Deceased?, Gender, and Marital Status.

# Rural to Urban Migration Trends



# All Graduate Report with Filters

The screenshot displays the 'Graduate Tracking Software' interface. The main area shows a 'Graduate List' with columns for Surname, Gender, Date of Birth, Nationality, Medical School, Year of Graduation, Current Employment Status, Current Employer Type, Current Employment Role/Title, and Role in the Institution. The list is sorted by Surname (Decreasing) and First Name (Increasing). Below the list, there is a 'Filter' section with dropdown menus for Current Institution Type, Current Role in the Institution, Current Employment Title/Role, Gender, Date of Birth, Medical School, Current Employment Status, Nationality, and Date of Termination. A 'Apply Filters' button is located at the bottom right of the filter section.

S.No	Surname	Gender	Date of Birth	Nationality	Medical School	Year of Graduation	Current Employment Status	Current Employer Type	Current Employment Role/Title	Role in the Institution
1	AYDIN	Male	2 July 1991	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
2	AYDIN	Female	8 March 1990	Iranian	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
3	AYDIN	Male	3 May 1993	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
4	AYDIN	Female	24 February 1993	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
5	AYDIN	Male	28 May 1989	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
6	AYDIN	Female	22 September 1997	Turkish	Turkish Medical School	2017	Employed	Private	Surgeon	Academic
7	AYDIN	Female	13 November 1999	Turkish	Turkish Medical School	2020	Employed	Private	Surgeon	Academic
8	AYDIN	Female	3 June 1994	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
9	AYDIN	Female	11 July 1990	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
10	AYDIN	Female	22 August 1995	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
11	AYDIN	Female	20 June 1993	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
12	AYDIN	Female	18 August 1992	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
13	AYDIN	Female	10 July 1994	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
14	AYDIN	Female	4 October 1996	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
15	AYDIN	Female	28 December 1979	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
16	AYDIN	Female	2 September 1974	Turkish	Turkish Medical School	1999	Employed	Private	Surgeon	Academic
17	AYDIN	Female	27 January 1971	Turkish	Turkish Medical School	1979	Employed	Private	Surgeon	Academic
18	AYDIN	Female	20 June 1984	Turkish	Turkish Medical School	2014	Employed	Private	Surgeon	Academic
19	AYDIN	Female	23 November 1980	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
20	AYDIN	Female	29 June 1993	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
21	AYDIN	Female	11 April 1989	Turkish	Turkish Medical School	2015	Employed	Private	Surgeon	Academic
22	AYDIN	Female	6 May 1994	Turkish	Turkish Medical School	1975	Employed	Private	Surgeon	Academic
23	AYDIN	Female	11 January 1992	Turkish	Turkish Medical School	1997	Employed	Private	Surgeon	Academic
24	AYDIN	Female	11 October 1976	Turkish	Turkish Medical School	2012	Employed	Private	Surgeon	Academic
25	AYDIN	Female	18 March 1972	Turkish	Turkish Medical School	2016	Employed	Private	Surgeon	Academic
26	AYDIN	Female	6 August 1996	Turkish	Turkish Medical School	1999	Employed	Private	Surgeon	Academic

# Surveying Graduates

- “ Surveying Graduates is a key business process for graduate tracking
- “ MEPI Connect can upload graduate survey responses
- “ TWG for Graduate Tracking has developed a general survey using survey monkey

A screenshot of a SurveyMonkey survey form titled "Company Meeting Survey". The form includes a title, a brief instruction, and several input fields: "Your Name" (text box), "Topics Covered" (dropdown menu), "Location" (dropdown menu), and "Length" (dropdown menu). Below these is a "Comments" section with a text box and a "Submit" button. At the bottom, there is a "Get This Form for Yourself" section with a link and a "Download" button.

# Optional Features

- “ “Self-service”- Graduate can log into system over the web and edit certain variables.
- “ Custom user interface design- Same look and feel as the schools website.
- “ Role based access- limit visibility and functionality by user role.
- “ Interoperable with Professional Council and MOH HR information systems.



## ***The CapacityPlus Partnership***

*IntraHealth International, Inc. (lead partner)*

*Abt Associates*

*IMA World Health*

*Liverpool Associates In Tropical Health (LATH)*

*Training Resources Group, Inc. (TRG)*

