

# Bringing Open Source to Africa

- Mark A. Hershberger
- IntraHealth International

# IntraHealth?!?

- Founded at UNC as IntraH 1979
- Separate non-profit corp in 2002
- ~\$40 million expenses in 2007
- We believe in a world where all people have an equal opportunity for health and well-being.
- To mobilize local talent to create sustainable and accessible health care.

# Why HRH?

- 800 million people worldwide lack access to health services
- 57 countries have far fewer health care workers than the minimum standard (5 for every 10,000 people) needed to provide even the most basic health care
- Africa bears 24% of the world's burden of disease with only 3% of the global health workforce
- Asia has 50% of the world's population but only 30% of the doctors, nurses and midwives.

# Open Source Projects

- iHRIS
- GRC
- Uganda KM
- Open Initiative (Coming Soon!)

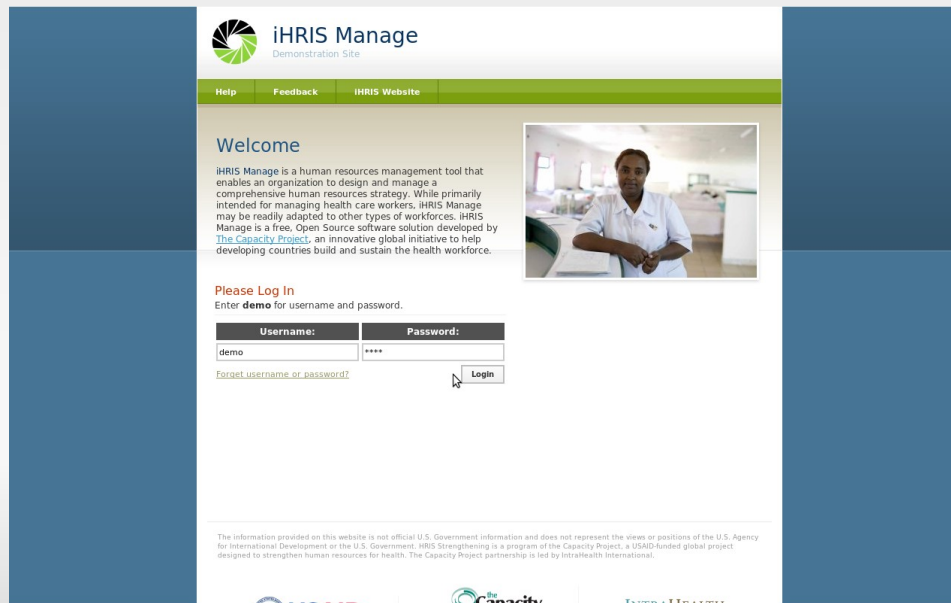
# IHRIS – What's the problem?

- Paper based data is out of date, hard to sort



# iHRIS

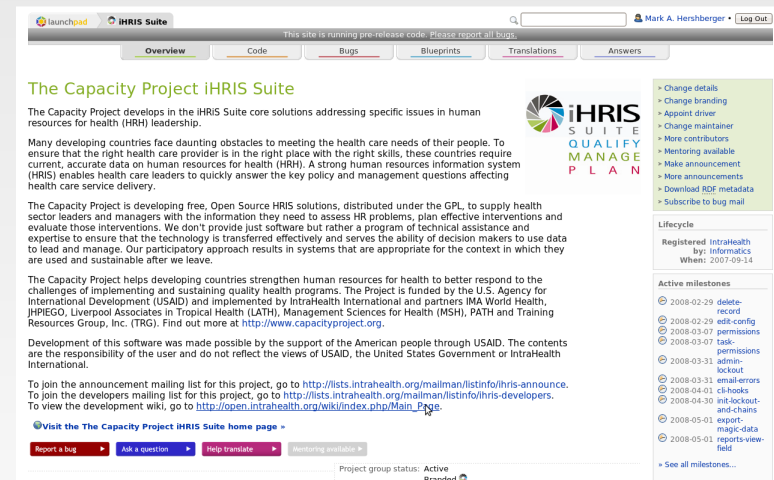
- "Enterprise" ready
- Replaces ad-hoc (Access/Excel) systems
- Compare with \$100,000k/year software from a consultancy
- iHRIS Manage Demo



The screenshot shows the iHRIS Manage Demonstration Site. At the top, there is a logo for iHRIS Manage and the text "Demonstration Site". Below this is a navigation bar with links for "Help", "Feedback", and "iHRIS Website". The main content area features a "Welcome" message, a brief description of the software, and a "Please Log In" section. The login form includes fields for "Username:" (containing "demo") and "Password:" (containing "\*\*\*\*"), a "Forgot username or password?" link, and a "Login" button. A small photo of a healthcare worker is also visible. At the bottom, there is a disclaimer and logos for USAID, the Capacity Project, and IntraHealth.

# Show me the Source

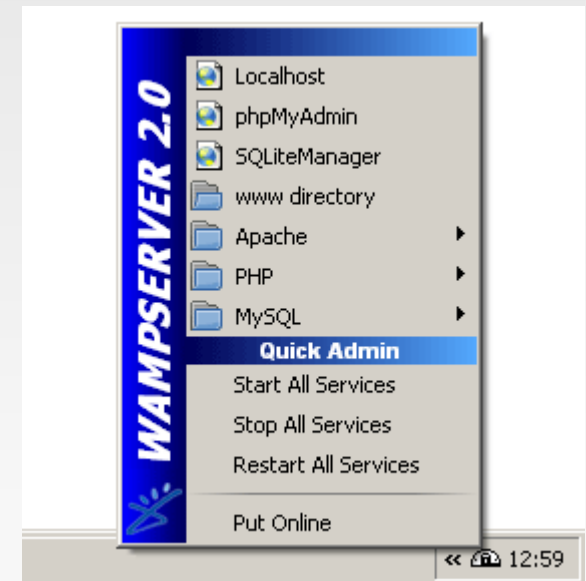
- Launchpad (<http://launchpad.net/ihris-suite>) - bugs, source
- Weblog (<http://capacityproject.org/ihris/blog>)
- Wiki (<http://open.intrahealth.org/>)
- Mailing lists



The screenshot shows the Launchpad page for the Capacity Project iHRIS Suite. The page title is "The Capacity Project iHRIS Suite". The main content area contains a description of the project, its goals, and its development process. The page is organized into sections: Overview, Code, Bugs, Blueprints, Translations, and Answers. The "Overview" section is currently selected. The page also features a sidebar with a "Lifecycle" section and a "Registered by" section. The "Lifecycle" section lists various milestones and their dates, such as "2008-02-20 delete record" and "2008-02-29 edit-confiq". The "Registered by" section lists "informatics" as the registered user, with a registration date of "2007-09-14".

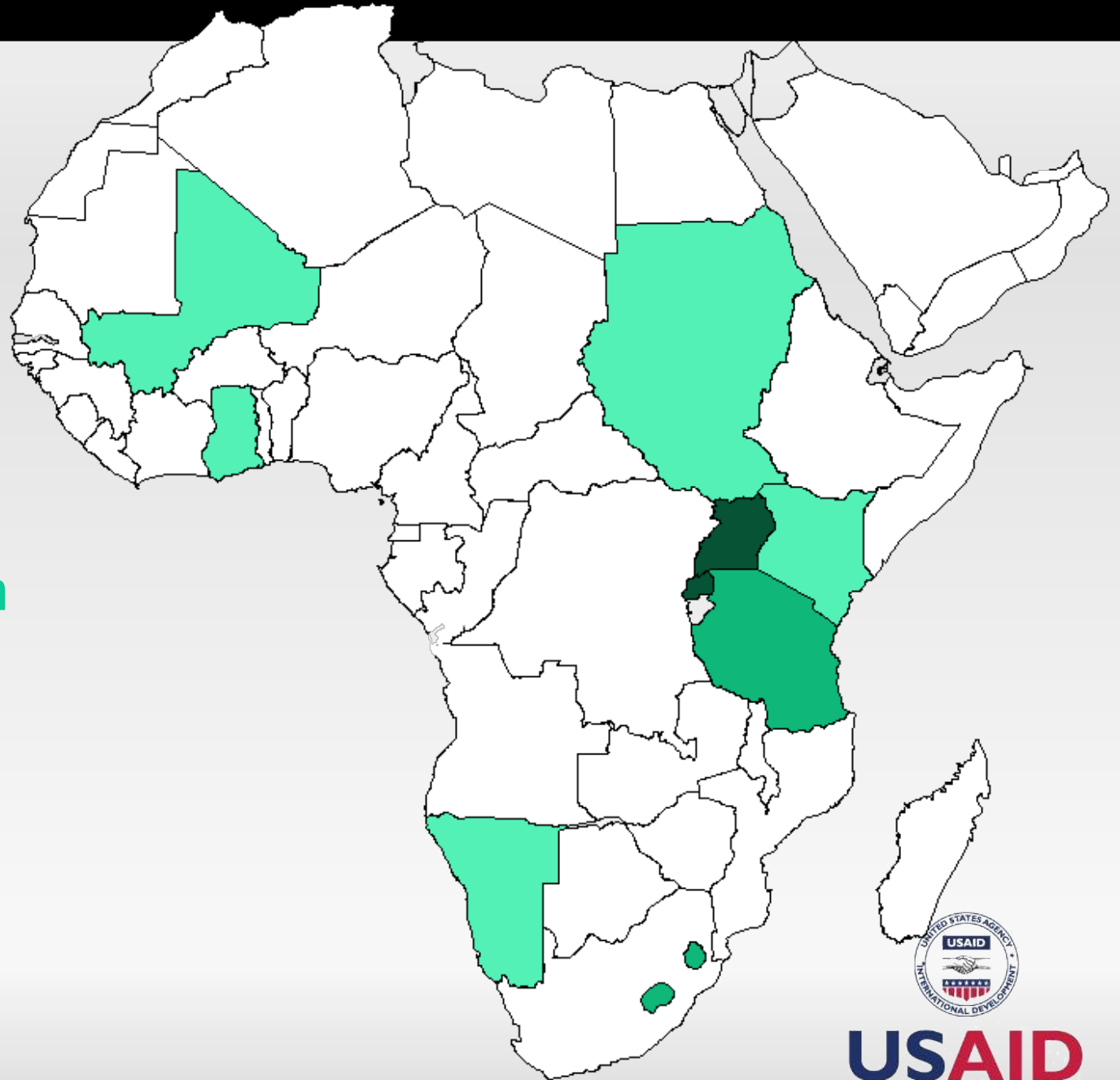
# Port to Windows

- Used WAMP
- Originally meant to be "offline" tool
- Thinking bigger: Complete Windows-based Server



# iHRIS Implementations

- Uganda
- Rwanda
- Swaziland
- Lesotho
- Tanzania
- Zanzibar
- Southern Sudan
- Kenya
- Ghana
- Mali



### Resources

- ▶ Browse by Subject
- ▶ Browse by Geographic Focus
- ▶ Browse by Resource Type
- ▶ HRH Overview Documents



**USAID**  
FROM THE AMERICAN PEOPLE

## A Digital Library Devoted to Human Resources for Health (HRH)

The HRH Global Resource Center is a global library of human resources for health (HRH) resources focused on developing countries. As a user driven site, we highly encourage your suggestions and feedback through our [Contact Us](#) page and the [User Survey](#).

The GRC also offers:

- Personalized [librarian support](#) in finding resources
- Support for HRH projects and publications through online [hosting services](#) and [special collections](#)
- [News](#), [HRH Leaders in Action Interviews](#), and [Resource Spotlights](#)
- A monthly [Newsletter](#) on new resources, articles and features
- [Tutorials](#) on how to use the GRC
- Selected [Subject Guides](#) to introduce important HRH topics and help users find more information in the GRC collection

## Resource Spotlight: Role of Leadership in HRH Development in Challenging Public Health Settings

As part of the special feature on leadership and human resources (HR), Management Sciences for Health profiles three leaders who have made a significance difference in the HR situation in their countries. By taking a comprehensive approach and working in partnership with stakeholders, these leaders demonstrate that strengthening health workforce planning, management, and training can have a positive effect on the performance of the health sector.

Three profiles are presented from Afghanistan with Dr. Bashir Noormal, South Africa with Percy Mahlathi, and Southern Sudan with Dr. Monywa Arop Kuo, revealing common approaches and leadership traits while demonstrating the specificity of local contexts. [\[abstract\]](#)

[More...](#)

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Read past [HRH Leaders in Action Interviews](#)



Dr. Monywa Arop Kuo

### Search

**Search**

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### News

#### Peoples-uni Offers Public Health Capacity Building

The Peoples-uni provides public health capacity building for low- to middle-income countries by utilizing open online educational resources and volunteer international faculty.

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### Newsletter

Information on new resources, articles and features

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- Global Resource Center
  - In order to meet the launch date, we assume that an Open Source solution will be identified that will meet the majority--but not necessarily 100 per cent--of these specifications. An Open Source solution should be selected that will allow future customization to adhere to as many of these specifications as possible.
- HRH (Human Resources for Health) papers
  - ~2000 documents freely available
  - 30,000 visits/month from 171 different countries.
  - Drupal with customizations

# Uganda KM

- MoH needed to disseminate information to regional offices
- Electronic documents were only accessible from a desktop in the capital, Kampala.
- Proprietary system only understood PDFs so everything had to be converted.

# Open Source to the Rescue!

- Wanted a solution like the GRC, but focused on Uganda
- Used KnowledgeTree + Joomla
- Wrote customized authentication for Ktree (to be given back to the community)
- KnowledgeTree uses OO.org + Lucene to understand and index multiple doc types
- Webserver accessible from everywhere

# Even Here!

- <http://library.health.ug.go/>

The screenshot shows the homepage of the Ministry of Health Knowledge Management Portal for Uganda. The header features the Ministry of Health logo and the text "Ministry of Health THE REPUBLIC OF UGANDA online". A Ugandan flag is displayed in the top right corner.

**KM Portal**

**Main Menu**

- Home
- About Us
- News
- MOH Resources
- HRH Global Resources Center
- Links
- MOH Events
- Opinion Polls
- MOH FAQs
- Contact Us
- Suggest a Resource

**Login**

Username:

Password:

Remember Me:

- Forgot your password?
- Forgot your username?

Welcome to the Uganda Ministry of Health's Knowledge Management Portal.

This site integrates health information for evidence-based decision making and includes the latest Ministry publications and HRH-related resources and statistics from other sources such as Uganda's Human Resources Information System and the HRH Global Resource Center.

More...

Google Custom Search

**MOH Resources**

- Poverty eradication Action plan Volume 3
- Poverty Eradication Action Plan 2004-05-2007-08
- Poverty Monitoring and Evaluation for Poverty Reduction Strategies
- NATIONAL STRATEGIC PROGRAMME PLAN OF INTERVENTIONS FOR ORPHANS AND OTHER VULNERABLE CHILDREN
- UGANDA PARTICIPATORY POVERTY ASSESSMENT REPORT
- Uganda's Poverty eradication action Plan- National Sustainable Development Strategy Principles tested
- A Joint Evaluation- Uganda's plan for the modernisation of Agriculture
- Poverty Mapping in Uganda using Socio-economic environmental and satellite data
- Poverty Dynamics in Uganda 1992 to 2000
- Education, Incomes and Poverty in Uganda in the 1990s
- ... more resources

**HRIS Reports**

- Enrolled Nurse Registered Nurse
- Registrations Pharmacy Council by Year
- Student Nurses Training
- ... more resources

**General Links**

**News**

- Uganda faces threat of meningitis outbreak
- Ugandans live three years longer
- Keeping fit at 40+
- Fighting hydrocephalus
- Do you still clean your ears with cotton swabs?

**MOH Events**

<< January 2009 >>

| M  | T  | W  | T  | F  | S  | S  |
|----|----|----|----|----|----|----|
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 |    |

**Opinion Poll**

**Malaria Fighting**

Do you support the use of DDT to fight Malaria?

Yes

No

Don't Know

Don't Care

# Open Initiative

- <http://www.intrahealth.org/open/>
- Launches in 3 weeks
- The OPEN Initiative will foster a new generation of technology professionals, eHealth workers and national leaders who understand, use and support open technologies to improve health.
- Full page ad in Time with downloadable music

# Open Source makes a difference!

- Thank you