Participating in Free and Open Source Networks in Health Information Systems (FOSNHIS): Opportunities for UGM, Indonesia

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Scope of the talk

- Introducing basic concepts
- Examples of FOSNHIS
- What does UGM gain through participating in an FOSNHIS?
- How can they join a FOSNHIS?
- Examples: HISP Global and HISP India
- Challenges and opportunites

Introducing basic concepts

- Free and open source software: no licenses associated, and source code is freely available to make modifications for local use.
- Network (FOSNHIS): a collective of entities linked together and working to a common purpose – in our case strengthening public HIS
- Health Information systems: includes different systems for health sector, including HMIS, patient based systems, HR systems, etc

Examples of OSNHIS

- HISP Health Information Systems Programme – DHIS – coordinated by University of Oslo
- OpenMRS around patient record systems OpenMRS – coordinated by Indiana University
- *iHRIS* around Human Resources information systems – coordinated by Capacity Plus
- ELISA around Laboratory Information Systems – coordinated by Washington University
- Many others

Characteristics of FOSNHIS

- Common purpose design, development and dissemination of HIS
- Logic of network learning in collectives
- Geographical focus for developing countries
- Networks facilitated through international agencies like WHO, HMN, UN etc
- Contemporary trend to link these networks *'Integrated Health Information Architectures'* – promoting a health systems approach

How FOSNHIS work?

- Guiding logic in HISP is of 'networks of action'
- Coordinating entity promotes action to strengthen collaboration and sharing between network members around:
 - Software (in case of HISP it is DHIS)
 - Resource material training, translations etc
 - Implementation experiences best practices
- Action towards circulation of:
 - Funding
 - People
 - Ideas and experiences
 - Electronic mailing lists, web pages etc

Open Source, HIS Development & Capacity Building - "South – South – North" Network of Action





What does UGM and Ministry of Health gain by joining a FOSNHIS

- Experience design, development, implementation of HIS
- Expertise in these above areas
- Products eg DHIS2, iHRIS, OpenMRS, LMIS
- Services technical support in setting up systems, customizing, maintaining, upgrading etc
- A collective in which they can learn and grow with others in same situation
- Increased opportunities for attracting funding aligning with Global standards

How can they join?

- For example, in HISP
- A simple email expressing interest
- Initiate processes to establish a project, initially a pilot
- Identify an entity that will coordinate efforts from the Ministry side – can be department, NGO, university, etc
- Join electronic mailing lists for developers, implementors, trainers etc
- Download electronic resources build orientation and initiate learning processes
- Start to create a robust 'national HIS network' which can link with the global FOSNHIS

Some examples in HISP

- Of in-country organizations
- Of NGOs HISP India, HISP South Africa, HISP Vietnam, HISP West Africa, HISP East Africa, etc
- Of Universities Dar-Es-Salam, Tanzania, Addis Ababa, Ethiopia etc
- Ministry of Health Kenya, Malawi, Ghana Health Services
- Other networks EHAS in Latin America, WAHO in West Africa forming network of networks

HISP Network

- Globally active in about 25 countries
- Varying models in different countries
- Different mechanisms of funding
 - Software development (NORAD)
 - Research and education (Norwegian Research Council)
 - In country implementation agencies such as EU, USAID etc
- Different capacities of local HISP entities to contribute to global processes
- Some entities have enabled regional networks
 - HISP India in South Asia
 - HISP South Africa in Sub-Saharan Africa
 - HISP West Africa in West Africa

Some broad steps: 'learning by doing'

- Setting up a pilot project
- Customize application jointly local team learns through engaging in customization
- Ensure project is made a success
- Demonstrate success, make plan for scaling
- Drive the process, while drawing upon the regional network for support
- Also contribute to strengthening regional and global networks

Opportunities

- Working together with people engaged in similar tasks 'dont reinvent the wheel'
- Cost-effective solutions, evolves with needs
- Crucial to address integration challenge
- Exposure to cutting edge technologies
- Enable local entrepreneaurship and innovation
- Address health information system challenges contribute to improve health care delivery

Specific opportunities

- NORAD funding
- NORHED
- Acceptance by Global Fund
- Acitivities ongoing in Indonesia

Challenges

- Free software is not free: customization, capacity building, implementation efforts
- Public systems are not geared to managing procurement of open source software
- Need institutional capacity to help make the potential of open source realized in practice
- Need long term vision and guidance
- Infrastructure issues are non-trivial