INTEGRATED WATERSHED MANAGEMENT
E-LEARNING NETWORK

Integrated Watershed Management
E-Learning Network

Brigitta Schütt, Anette Stumptner
Freie Universität Berlin

Stefan Thiemann
IWM Expert

Partners

Integrated Watershed Management
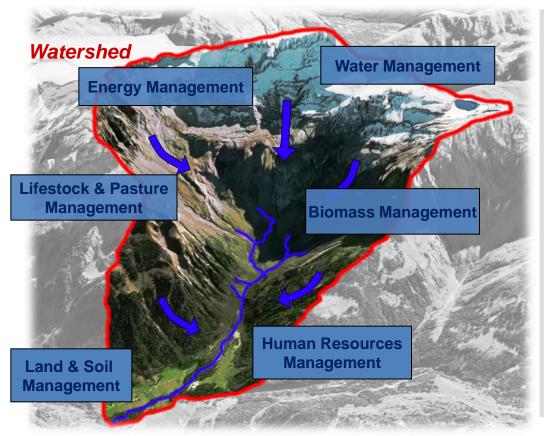
an approach to sustainable land stewardship

Watershed

Water Management

Energy Management

Lifestock & Pasture Management

Biomass Management

Land & Soil Management

Human Resources Management

Integrated Watershed Management

organizes and guides the use of natural and human resources on a watershed to provide the goods and services demanded by the society, while ensuring the sustainability of the natural resources.

It involves the interrelationships among natural and human resources and links between upland and down-stream areas.

Folliott *et al*. (2003)

Consulting
and
Knowledge
Transfer

IWM
Expert

Freie Universität Berlin

Integrated Watershed Management is a toolbox …

★   … to stop the degradation of people's source of living (human, biomass, water, soil, energy)

★   … by creating awareness on the value of ecological functioning watersheds

★   … by creating awareness on sustainable income generating opportunities

Demand

The concept of **_Integrated Watershed Management_** has been successfully introduced in Eastern Africa and Central Asia by the FU Berlin and its partners as result of DAAD, EU EDF and GIZ funded activities.

But …
… there is a widespread demand on knowledge about **_Integrated Watershed Management_** all over the regions.

Especially management and development capacity among the different stakeholders levels is needed to close the communication gap among them.

Project aim

Fostering capacity building and knowledge transfer in e-learning among the regions of Eastern Africa and Central Asia within the context of Integrated Watershed Management:

⮲ Universities …

1) benefit from expertise from different regions

2) gain higher quality education through joint content development

3) benefit from knowledge of experts who are not "at the spot" but reachable.

4) benefit from resources of partner universities

5) can easily develop joint degrees with participating universities

Project aim

Fostering capacity building and knowledge transfer in e-learning among the regions of Eastern Africa and Central Asia within the context of Integrated Watershed Management:

⮑ **Students** …

1) get high quality and international "lecture notes" (= online available learning modules)

2) get in contact with students from other regions and early develop networks

3) gain IT expertise

4) benefit from supervision of external lecturers

Activities taken place and planned

⮩ Introducing e-learning workshop in December 2011 in Berlin:

- supported by CeDis (Centre for Digital Systems; FU Berlin)

- 16 participants from Eastern Africa & Central Asia

- Collaboration FU Berlin, Kenyatta University & German-Kazakh-University

⮩ Second workshop in May 2012 in Almaty

- supported by CeDis (Centre for Digital Systems; FU Berlin)

- same group of participants and collaboration

- Intensifying e-learning competences and further development of e-content

Activities taken place and planned

⮕ Third workshop in 2012 in Kenya

- supported by CeDis (Centre for Digital Systems; FU Berlin)

- 16 participants from Eastern Africa & Central Asia

- Collaboration FU Berlin, Kenyatta University & German-Kazakh-University

Follow up?

- Continuation of workshops is planned for the years 2013 / 2014

- Project is part of projects composition with regard to Integrated Watershed Management and e-learning. It is not a 'stand-alone-project' but benefitting from others.

Consulting
and
Knowledge
Transfer

IWM
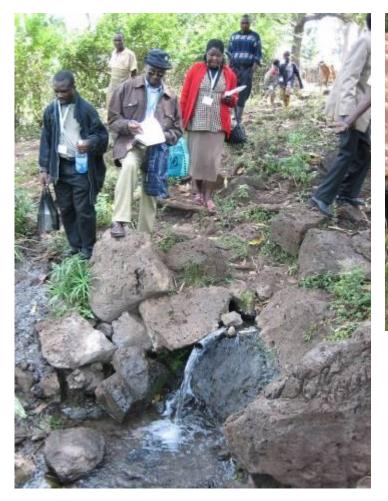Expert

Freie Universität Berlin

challenges in watersheds (examples from Kenya):

water availability for households

knowledge on sustainable agriculture

environmental pollution (ground, water, air)

Consulting
and
Knowledge
Transfer

IWM
Expert

Freie Universität Berlin

erosion and soil erosion

protection of water resources

Consulting
and
Knowledge
Transfer

IWM
Expert

Freie Universität Berlin

sanitation

water abstraction

Water resources of the Aral Sea basin

Map produced by ZOÏ Environment Network for ENVSEC Amu Darya assessment, December 2009

Achievement:

[e-learning landscape sensitivity at FU Berlin](#)

Example:

[e-learning higher teachers training college, Yaounde](#)

[e-learning network integrated watershed management](#)