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Institute for Integrated Management
of Material Fluxes and of Resources



TECHNISCHE
UNIVERSITÄT
DRESDEN

ADVANCING A **NEXUS APPROACH**
TO THE SUSTAINABLE MANAGEMENT
OF **WATER, SOIL AND WASTE**



INTERNATIONAL
KICK-OFF WORKSHOP

11-12 NOVEMBER 2013
DRESDEN, GERMANY



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TO THE SUSTAINABLE MANAGEMENT
OF **WATER, SOIL AND WASTE**

TAPPING THE INTERNET RESOURCE TO ADVANCE THE SOIL-WATER-WASTE NEXUS AGENDA

A paper presented at the International Kick-off Workshop on
Nexus of Water Soil and Waste Dresden Germany 11-12
November 2013.

By Francis N. Gichuki



Question: 5. What are the capacity needs and gaps in key institutions involved in research and education institutions?

- ***What are the main implementation challenges of nexus approach?***
 - Policy, organizational and Legal
 - Organizational and individual capacities
 - Financial constraints
 - Technological challenges
 - Knowledge constraints
 - Social-cultural constraints



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Question: 5. What are the capacity needs and gaps in key institutions involved in research and education institutions?

- ***What are the main capacity gaps?***
 - Policy formulation and mobilizing support for its implementation
 - Integrated project planning and implementation
 - Management (generation, storage, sharing) of decision support information
 - Leveraging partnerships and financial resources
 - Specialized technical knowledge and skills
 - Adaptive/Change management



Question: 6. How can nexus issues can be integrated in the existing curriculums?

- Integration of systems approach
- Enhanced opportunities for multi-disciplinary problem solving exercises/case studies
- Internships in addressing nexus issues
- Enhanced availability of learning material on nexus approaches
- Development of learning tools on how to deal with the increasing level of complexity that comes with higher levels of integration



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Question: 7. What education resources are available in the internet and how can they be effectively harnessed and utilized?

World Wide Web is a rich source of learning material. Access to these resources can be enhanced through collaborative knowledge building such as:

1. Establishment of learning portals such as CapNet - www.cap-net.org/
2. Depository of case studies materials such as WoCAT - <https://www.wocat.net/>
3. Packaging learning material into small knowledge chunks that can be organized as courses, books as in the case of Connexions - <http://cnx.org/>



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4. More effective search such as Flipboard - <https://flipboard.com/> - which enables you to read and collect the news you care about and curating your favorite stories into your own magazines on any topic imaginable.
5. Packing nexus knowledge base into RSS feeds which allows you to easily stay informed by retrieving the latest content from the sites you are interested in.



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I THANK YOU.