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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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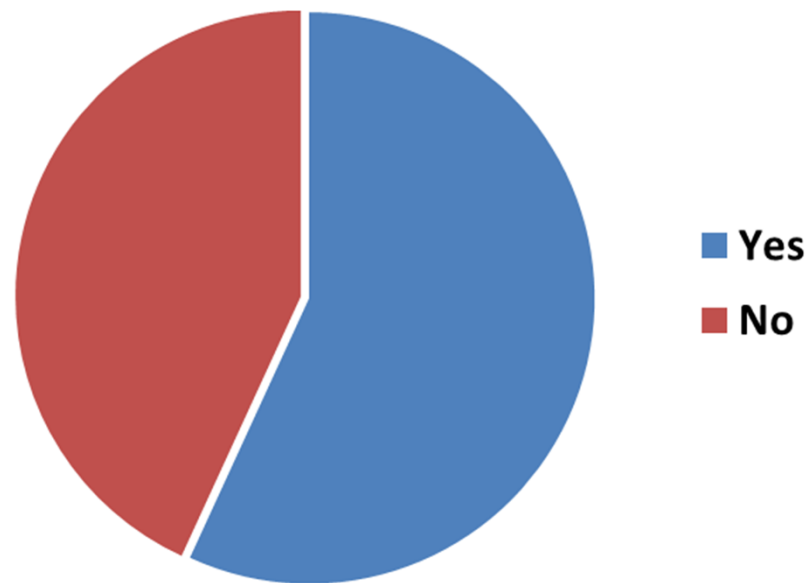
Integrating Research and Education in Addressing Water-Soil-Waste Nexus

Manzoor Qadir

UNU-INWEH

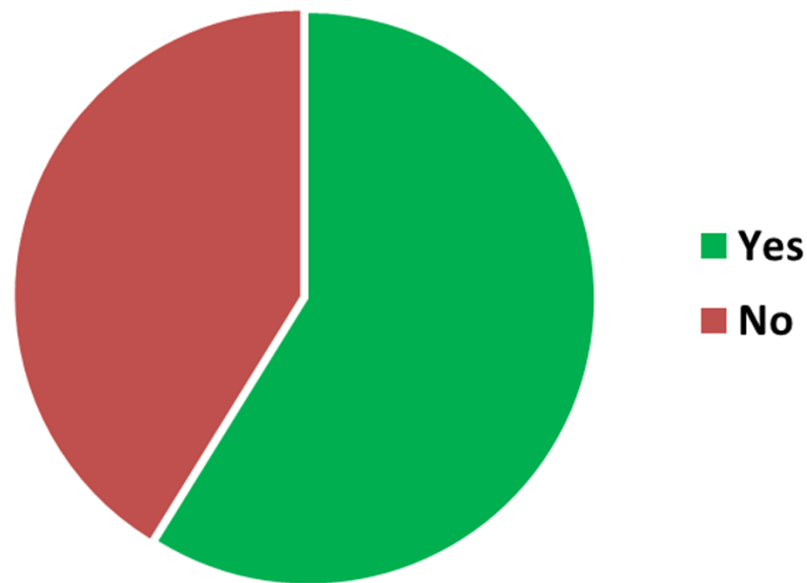


- **Wastewater only:** Response from 51 developing countries from Asia, Africa, and Latin America and the Caribbean
 - Waste and/or wastewater management in any form as part of the curricula in schools





- **Wastewater only:** Response from 51 developing countries from Asia, Africa, and Latin America and the Caribbean
 - Postgraduate degree/course in the field of water quality and/or wastewater management





- **Key Considerations for Water-Soil-Waste Nexus**
 - From traditional education and training to multi-disciplinary and problem-solving education
 - Knowledge of linkages between water, soil, and waste
 - Critical mass of young professionals with required knowledge and training to research, refine, and implement the nexus approach
 - **Partnerships can make a difference**



- **Key Considerations for Water-Soil-Waste Nexus**
 - Multi-disciplinary
 - Greater integration and flexibility
 - Problem focused and problem solving
 - Supported by local action and implemented by communities
 - Providing options for policy and institutional consideration
 - **Making seemingly impossible change possible**



- **International M.Sc. on Integrated Drylands Management**



- Experts from partner organizations and their networks, representing different disciplines in drylands management, facilitate a mixture of lectures, seminars, laboratory applications, and field visits to the arid zones



- **Water Without Borders Program for Education + Research**

- UNU-INWEH, McMaster University, and Partners from Developing Countries

- Problem-based learning and research
- Peer to peer and peer to professional learning
- Multi-disciplinary, integrating art and science disciplines
- Community based and supported by local action
- Policy relevant





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MANAGABLE
COMPATIBLE
INEXPENSIVE
SUSTAINABLE
RESILIENT

Let's rock the world of *Water-Soil-Waste Nexus*