



Sustaining effective research for development: Lessons from Water, Land and Ecosystems (WLE)

Izabella Koziell, Director



RESEARCH PROGRAM ON Water, Land and Ecosystems Research **Partnerships** Governance

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Program Objectives

- Natural resources and ecosystem services for productivity and resilience
- But there are many interconnected risks: across scales and across sectors



Rural - urban food systems



Integrated water solutions









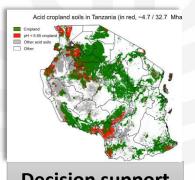








Land and soil restoration



Decision support

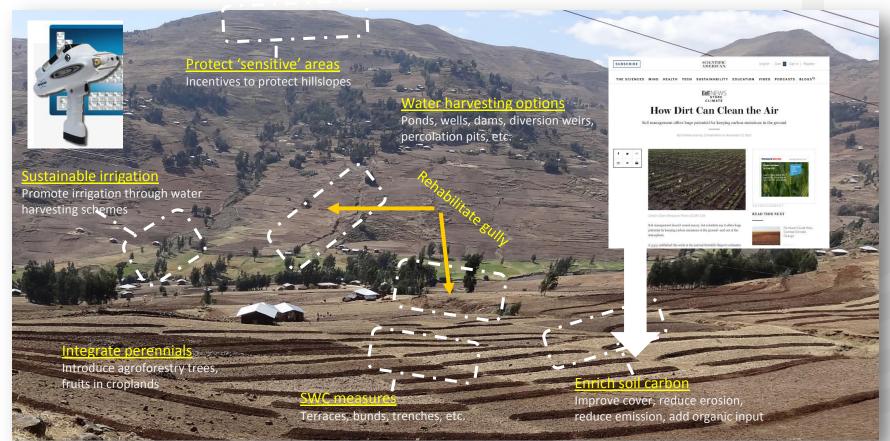
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Program Impact



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→ Land restoration methods and tools adopted at wider scales



Research

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Program Impact

→ Safe and sustainable water productivity improvements



 Integrated approaches small scale to watershed

· Safe and sustainable solar irrigation

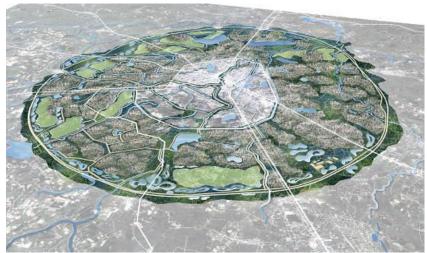


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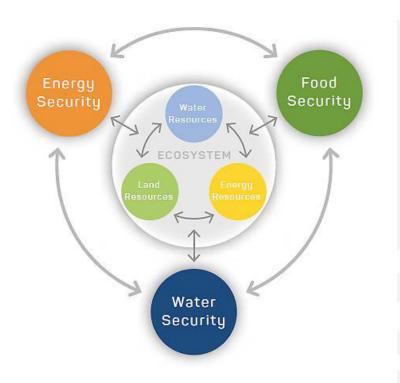
Research Excellence

Program Impact

→ New approaches to reduce water risks and competing uses







Program Impact



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→ Resource reuse and recovery methods adopted by municipalities and business



Governance and Program Management



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Ecosystems



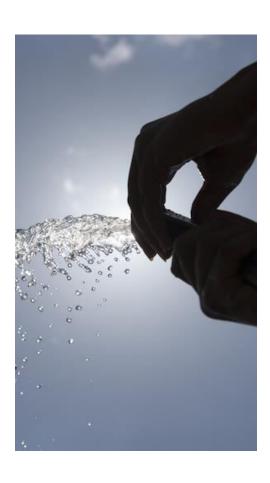
1- Challenges

- Institutional inertia on environment/natural resources
- Balancing demand and supply side research
- Getting us all out of our silos
- Complexity: farmer field landscape links
- Insufficient data behind new problems and/or new solutions
- Backing the right portfolio choices
- Building coherence out of duplication

Governance and Program Management



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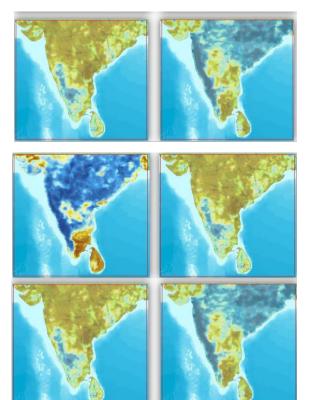
2- Solutions

- Building an enabling/supportive institutional environment for an environmental transformation
- Deploying research funding incentives and performance management to incentivize cross-working
- Build in "systems approach": farmer and his/her wider environment (public goods management)
- Governing and management bodies hold a mix of research and application skills
- A programmatic approach: which builds on short term successes into larger long term impacts – e.g. RRR 15 years

Governance and Program Management



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3- Future outlook and innovations

- New researcher-practitioner collaborative models and approaches: research 'in' development
- Further development of interdisciplinary methods and approaches
- Pooling research and evidence: crowdsourcing skills/projects/knowledge
- New ways to deliver research under uncertainty, and funding constraints: 'decision analysis', mobile phone-based data collection (RSPB UK), remote sensing analysis (e.g. insurance), big data

WLE and China



Current collaborations

1/ Sustainable urban development



2/ Resilient landscapes & farms







3/ Decision support for agricultural interventions & investments









Potential for the future

- Water productivity: rain-fed farming, small scale irrigation, small – medium scale irrigation systems
- Land restoration: soil health and agricultural land restoration
- Urban–rural linkages
- Decision support: decision analysis, cost-benefits, trade-offs, nexus and systems thinking from field to landscape scales



Thank you





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