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Benefits and trade-offs across the nexus – our experience so far in the global Dialogue

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WATER AND ENERGY, WORLD WATER WEEK 2014



The Dialogue

Partnerships for innovation in water, energy and food security



waternexussolutions.org

What is happening?

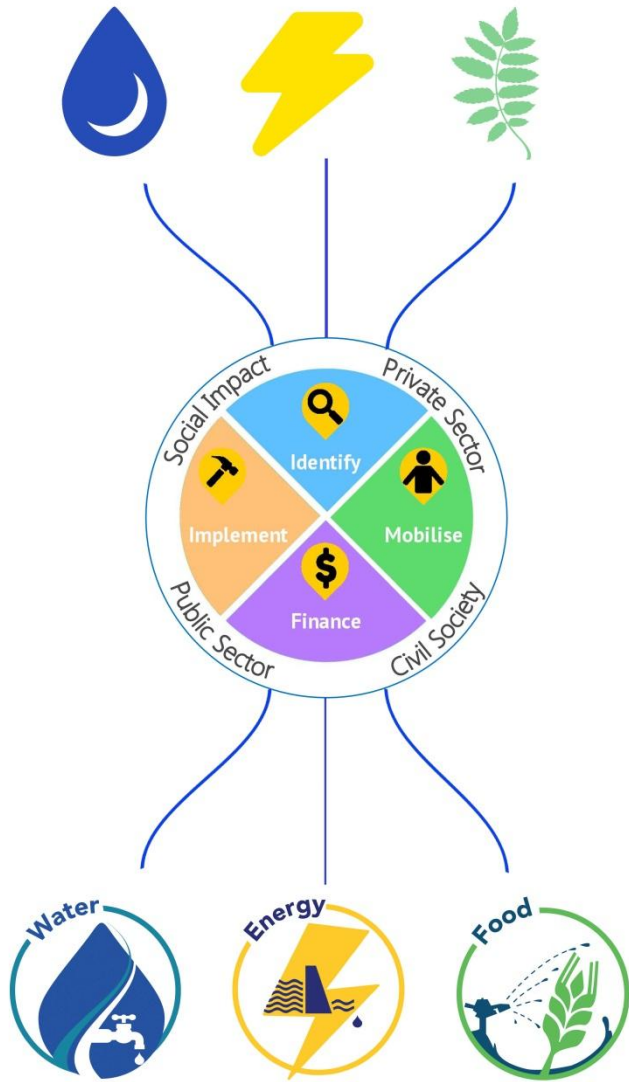
Globally, by 2050:

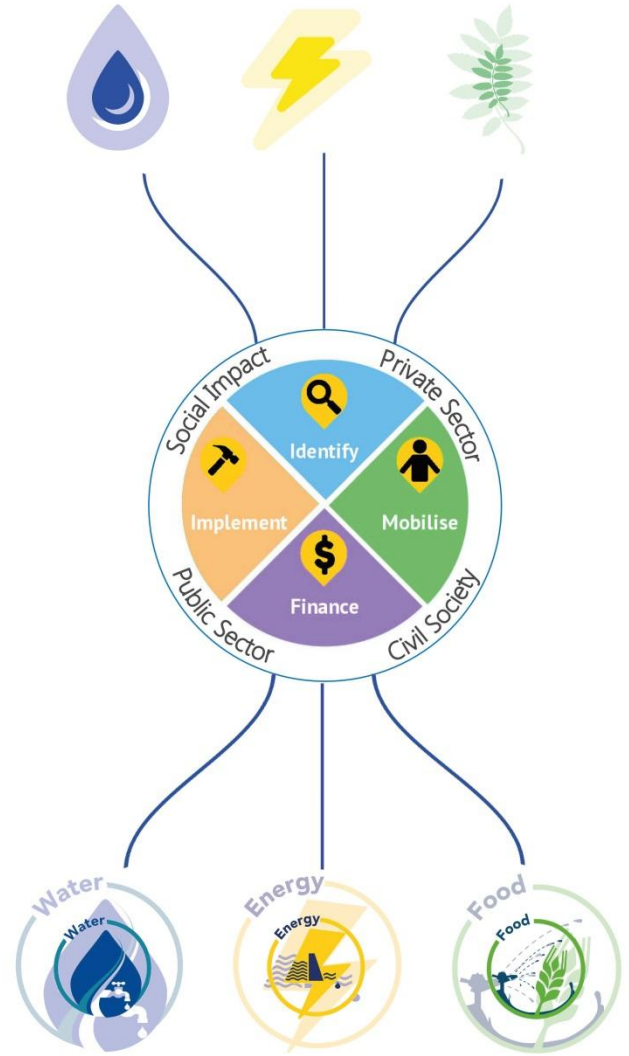
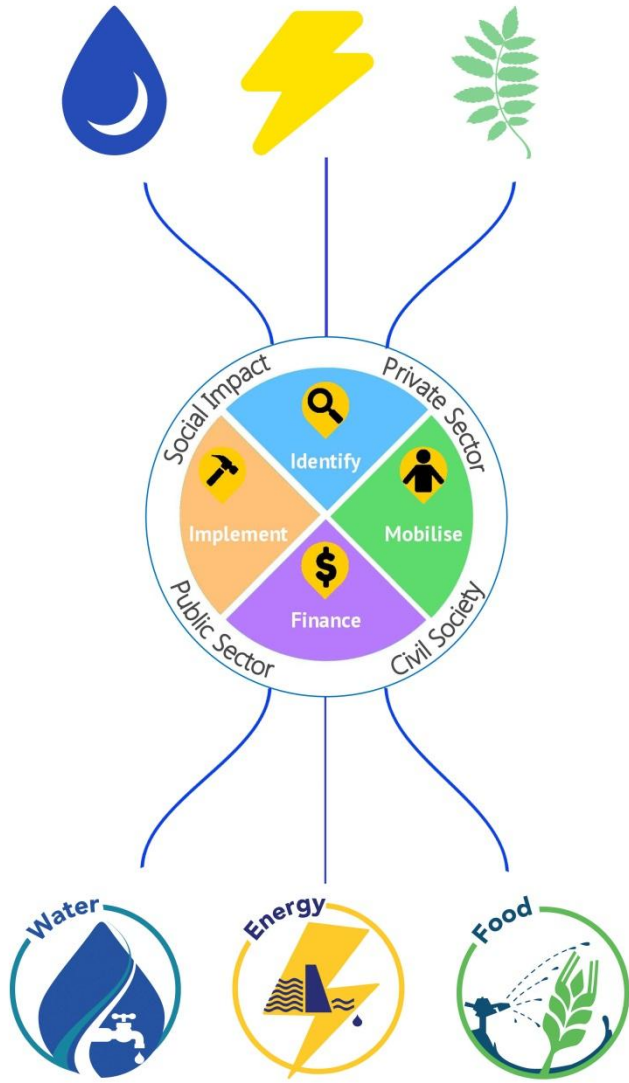
- Water demand is projected to increase by 55% over current levels
- Energy demand by 80%
- Demand for renewable energy will increase by 60%
- In 2008 –Kenya had an overall drop in GDP of 10% due to drought
- China's electricity generation in 2035 will be 3 more times what it was in 2008
- In sub-Saharan Africa, levels of access to electricity in rural areas are typically much lower than coverage of water supply and sanitation (Burkina Faso, 1%; Kenya: 8%; Uganda 5%; Tanzania 4%, (SE4All, 2013)). Of the 1.3 billion people with no access to electricity, 95% of them are in sub-saharan Africa
- 2011-2030 – to close the energy poverty gap need US\$980 billion

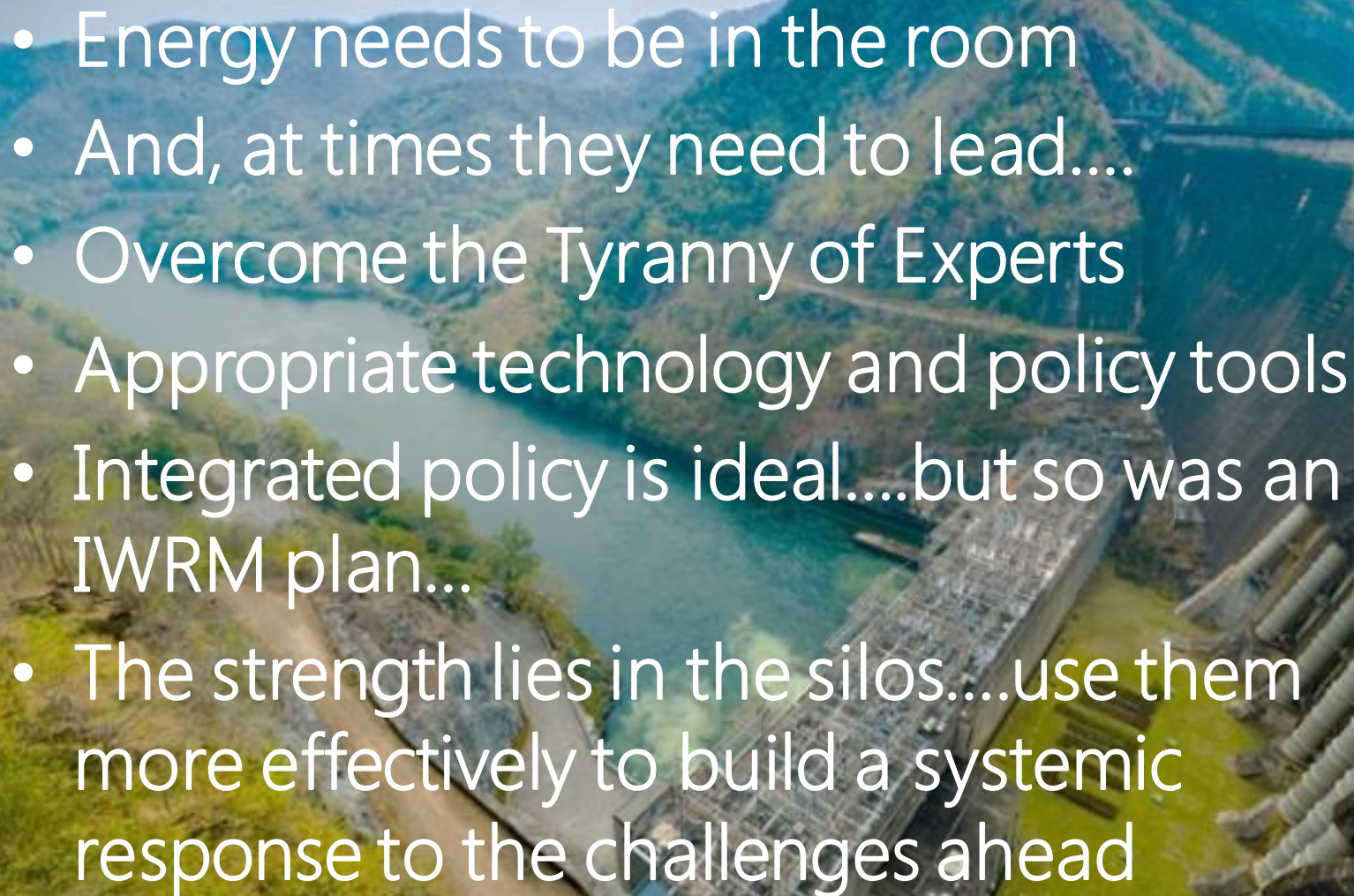
We silo ourselves

- Different objectives, frameworks, tactics
- IWRM plans (all of them) consider energy a user, or a beneficiary of an allocation, and not a water manager
- Cost recover of water use by energy sector is poor
- Energy operates differently







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- An aerial photograph of a large dam and reservoir. The dam is a long, concrete structure with several spillways. The reservoir is a large body of water behind the dam. The surrounding landscape is hilly and green. The sky is overcast.
- Energy needs to be in the room
 - And, at times they need to lead....
 - Overcome the Tyranny of Experts
 - Appropriate technology and policy tools
 - Integrated policy is ideal....but so was an IWRM plan...
 - The strength lies in the silos....use them more effectively to build a systemic response to the challenges ahead

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Thank you

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