



Presentation from
**2016 World Water
Week in Stockholm**

www.worldwaterweek.org

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Large versus small scale irrigation: *Framing the level of irrigation investment discourse*



Stockholm World Water Week
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Institute

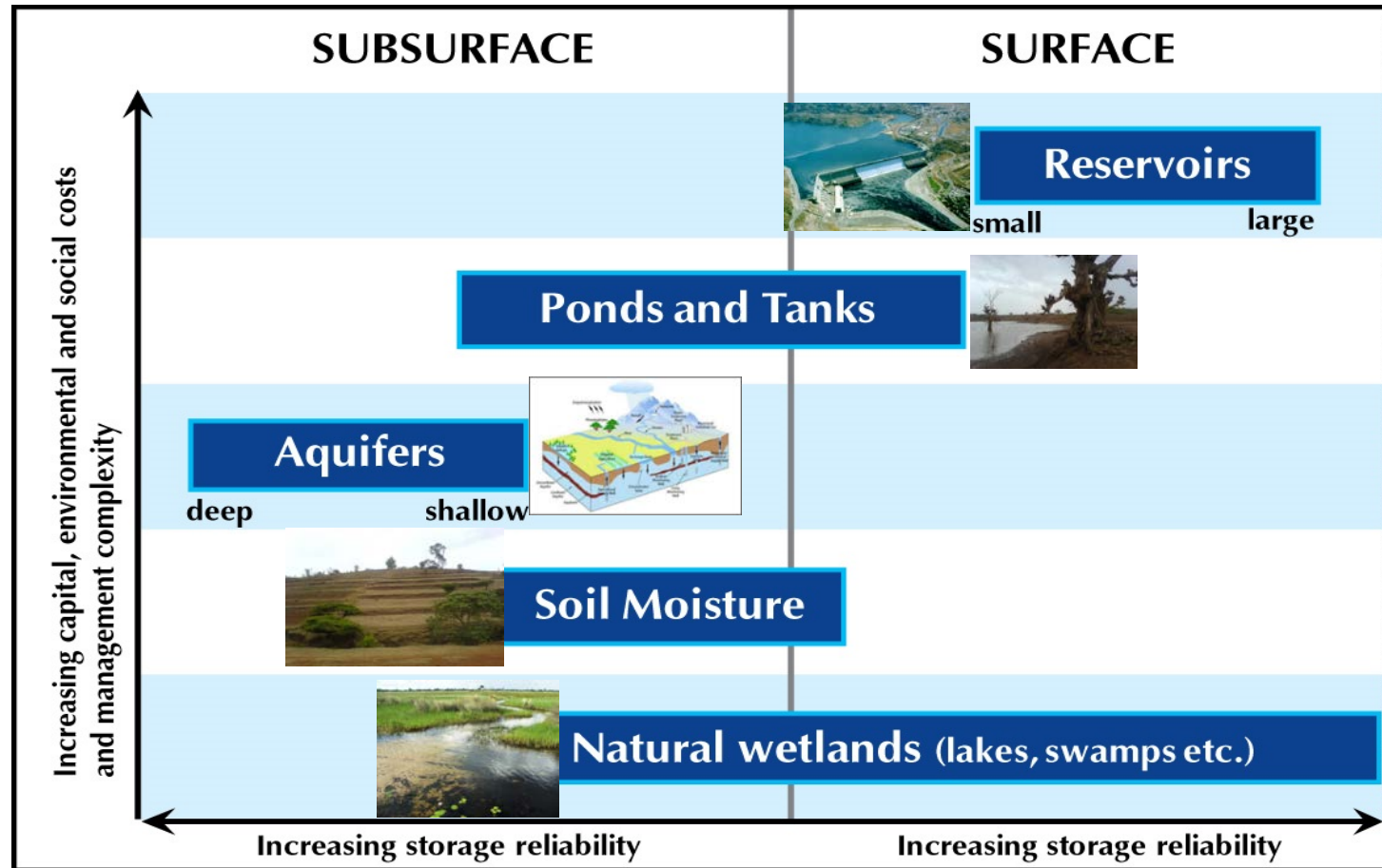
Objective – who are the target beneficiaries?

Leads to totally different development pathways and the need to address barriers to access

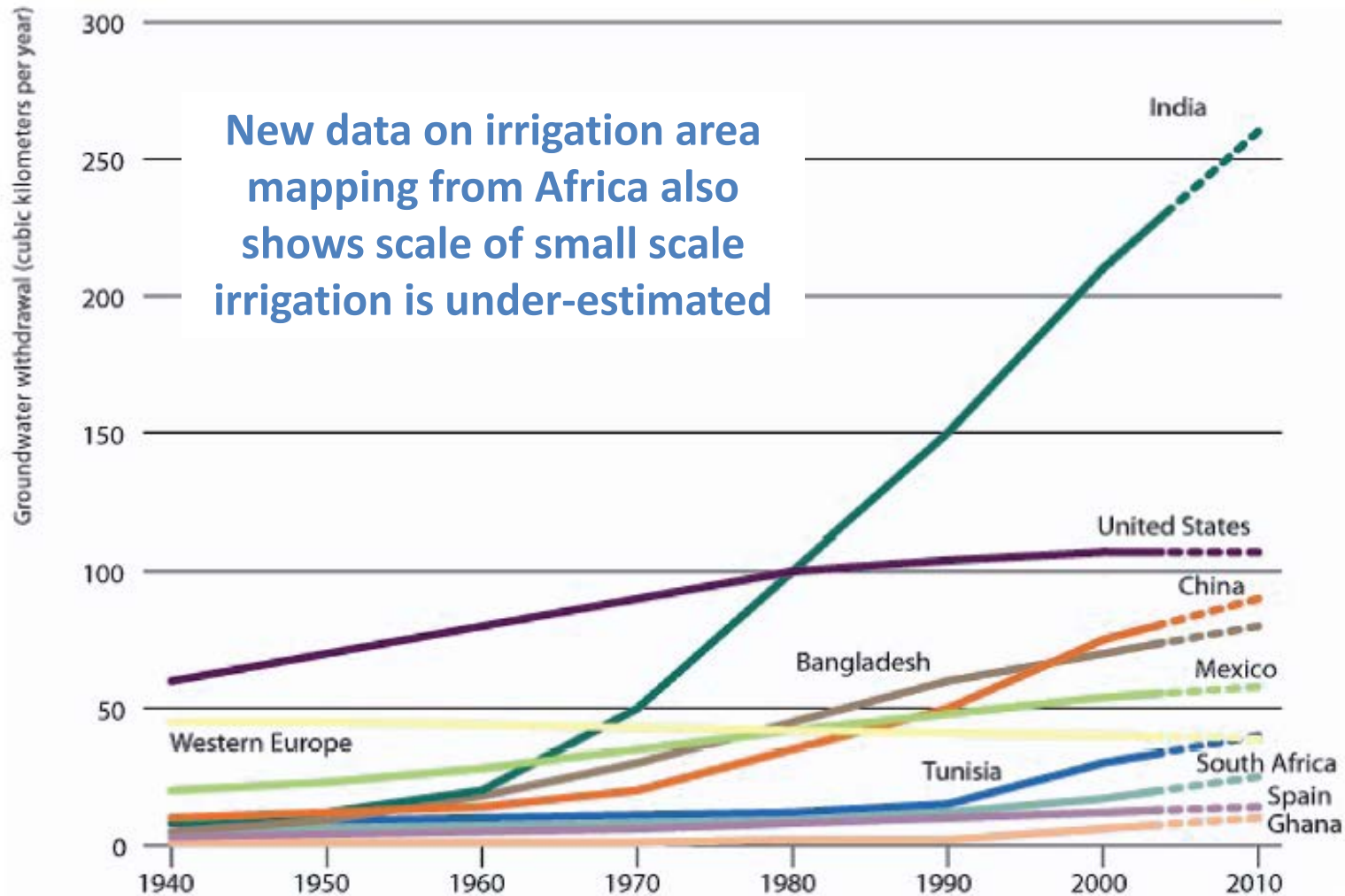


Irrigation /storage spectrum – no “one size fits all”

Source: McCartney & Smakhtin 2010

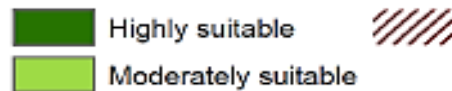
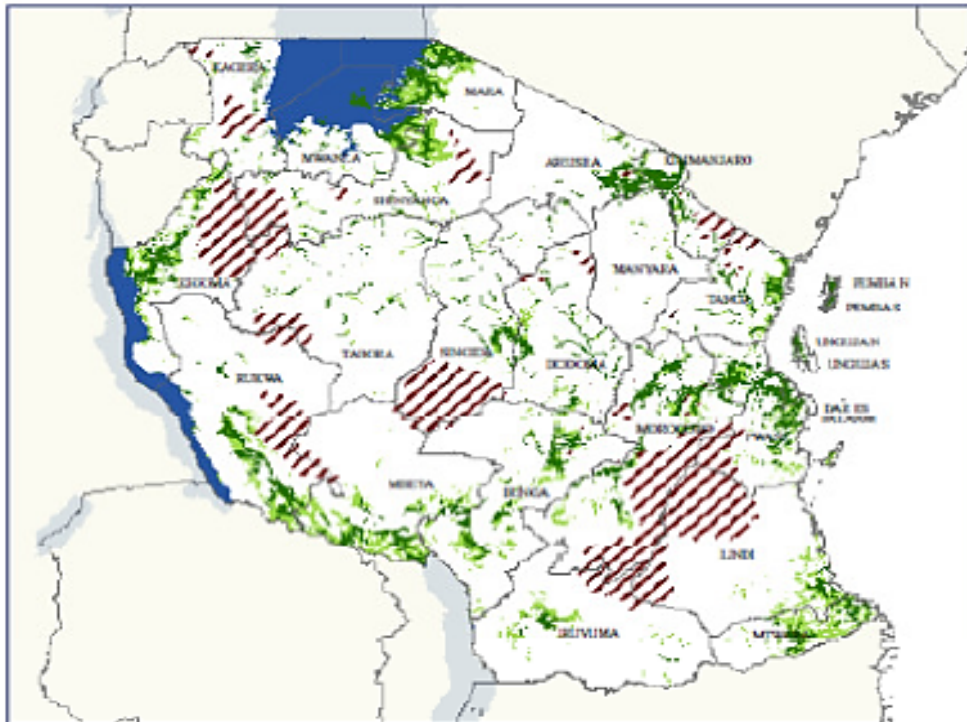


Groundwater – a major factor in small scale irrigation expansion – sustainability challenge

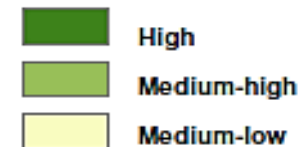
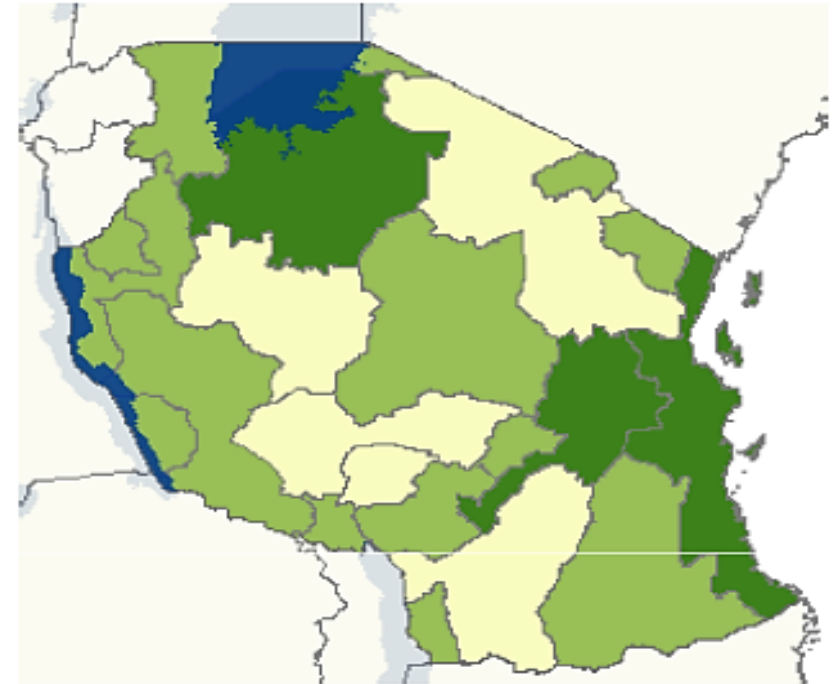


From bucket to pump – a step on the irrigation ladder

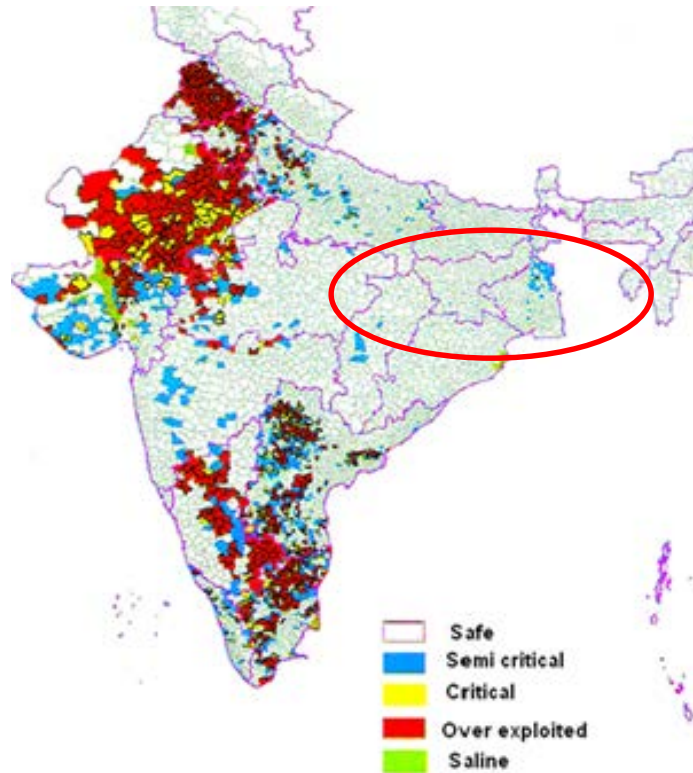
Biophysical suitability



Livelihood-based demand



Role of policy reform in gaining access– EGP



Accessing annually replenished water,
Mukherji and Shah



Insights and Opportunities from New Field Studies with Small-scale Irrigation in Tanzania, Ethiopia, and Ghana

- What technologies, tools and approaches make farmers profit and improve wellbeing?
- How can these be enabled for women and men farmers?
- Can such interventions be sustainable within the landscape and in relation to other water users?



What are some of the limitations of large scale irrigation systems ?

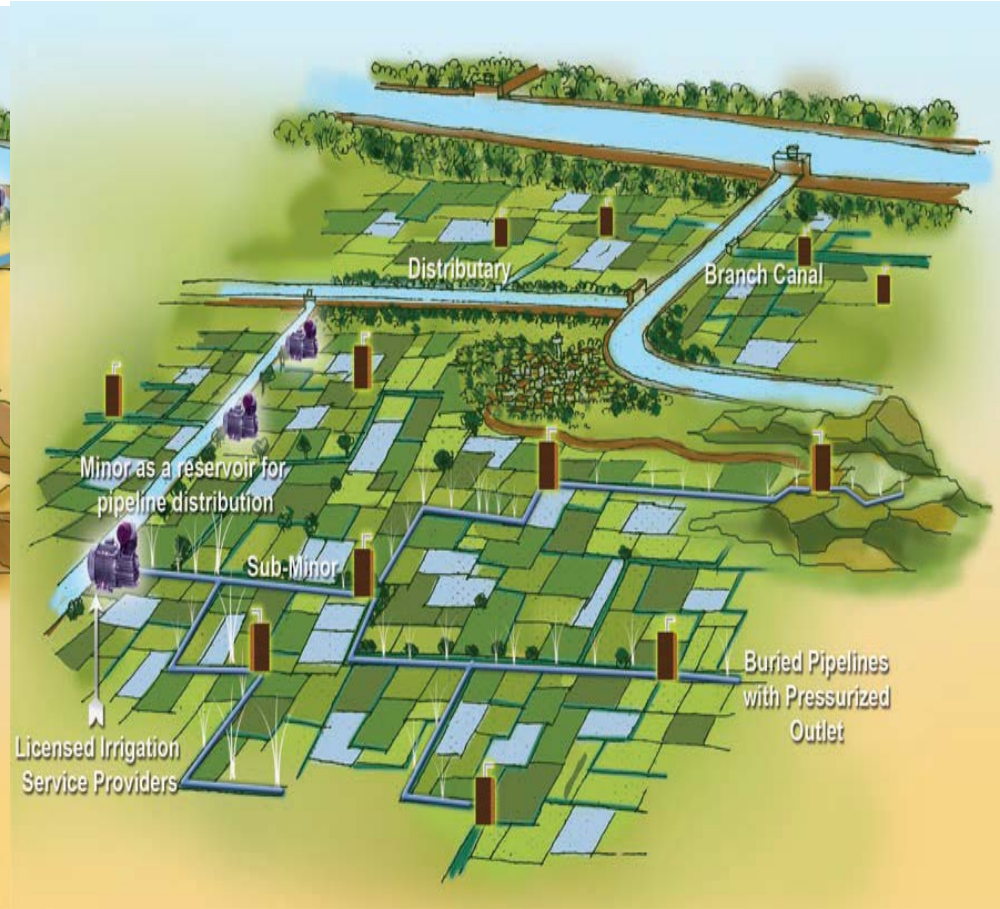
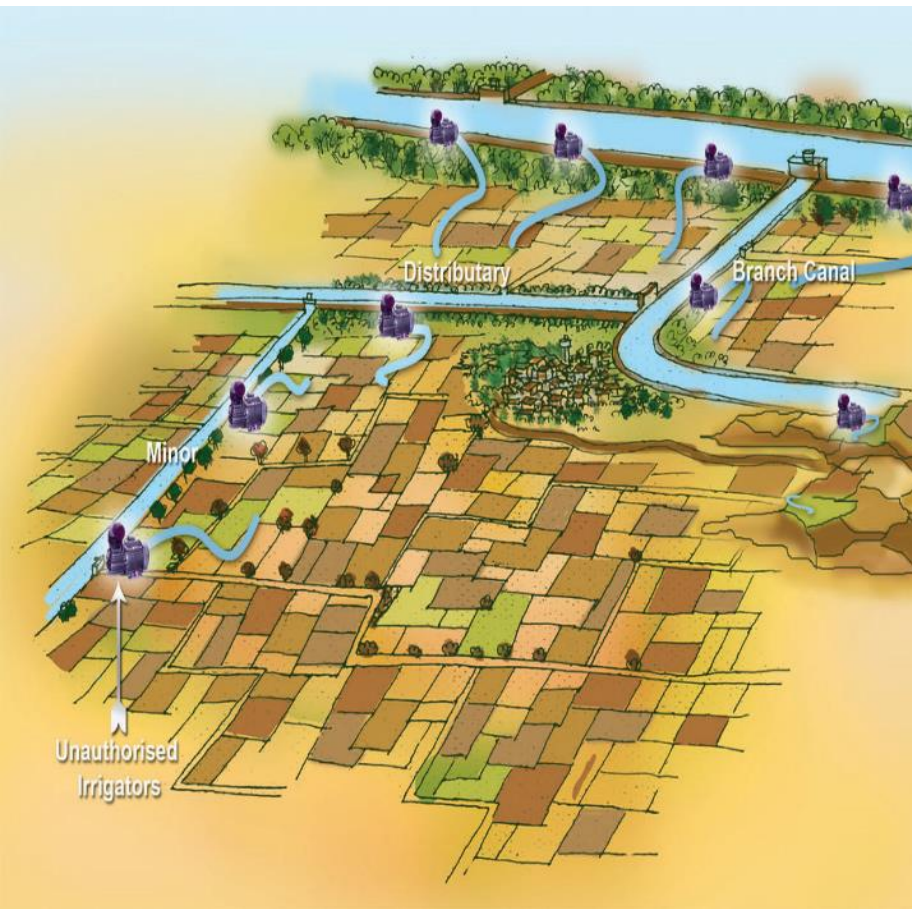
- Cycle of rehabilitation / decline
- Poor financial performance / cost recovery
- Water and land productivity sub-optimal
- Highly variable and unreliable deliveries
- Low levels of investment in building capacity and research
- Political interference
- Perverse incentives to performance

More food, less water (IWMI forthcoming)

Are institutional structures constraining options and performance?



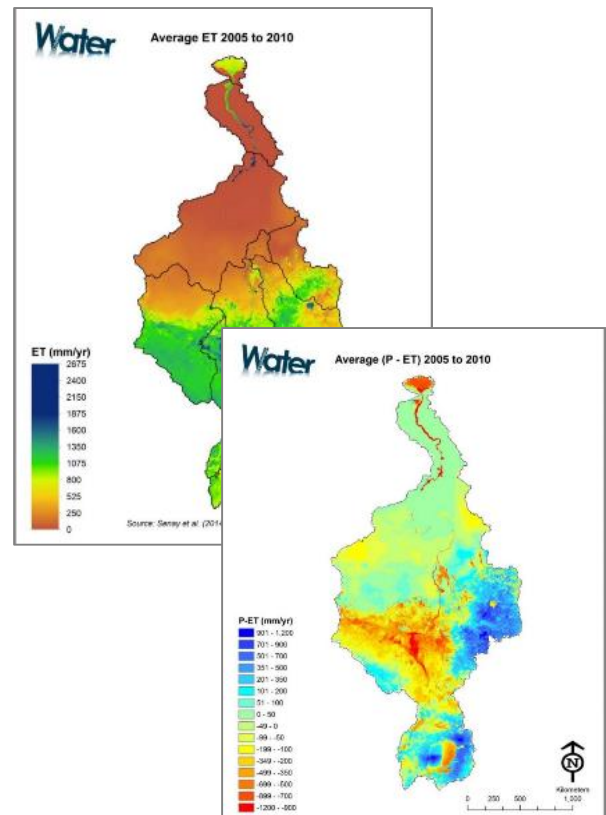
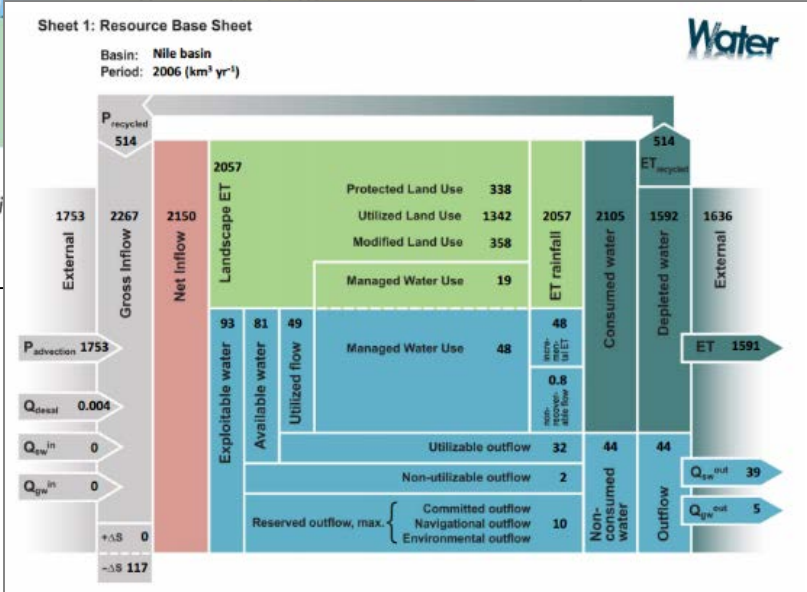
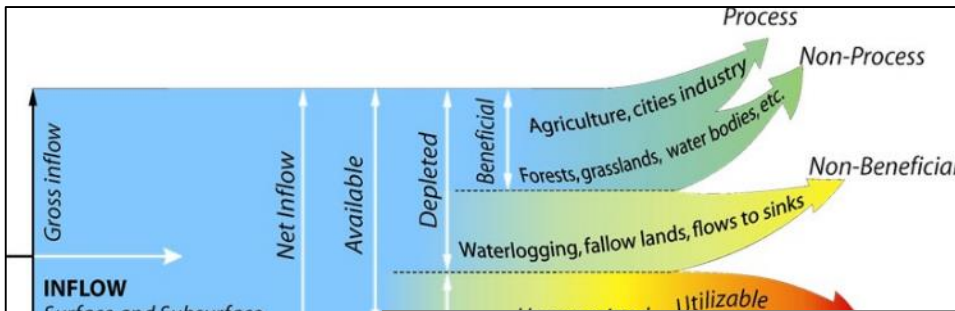
Can large systems replicate some characteristics of small scale – reliability/predictability?



Participatory Irrigation Management – mixed results. How to build on successes and learn the lessons of past failures?



How does 'Big Data' provide an opening to influence productivity and broader SDG achievements



Bastiaanssen et al. 2014

Beware of being drawn into a narrow water efficiency discourse – need to view within the broader set of SDG indicators

Some reflections

‘A key lesson is that policies and strategies for changing water use and management need to consider the often different perspectives, objectives and incentives across user groups and the potential impacts at broader (basin) scales’.

Meredith Giodarno – perscomm
Author of the forthcoming World Bank report
BEYOND “MORE CROP PER DROP”: EVOLVING
THINKING ON AGRICULTURAL WATER
PRODUCTIVITY

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