Presentation from 2016 World Water Week in Stockholm

www.worldwaterweek.org

© The authors, all rights reserved





Large-scale irrigation in the Lake Tana Basin, Ethiopia challenges and opportunities

Atakilte Beyene, NAI

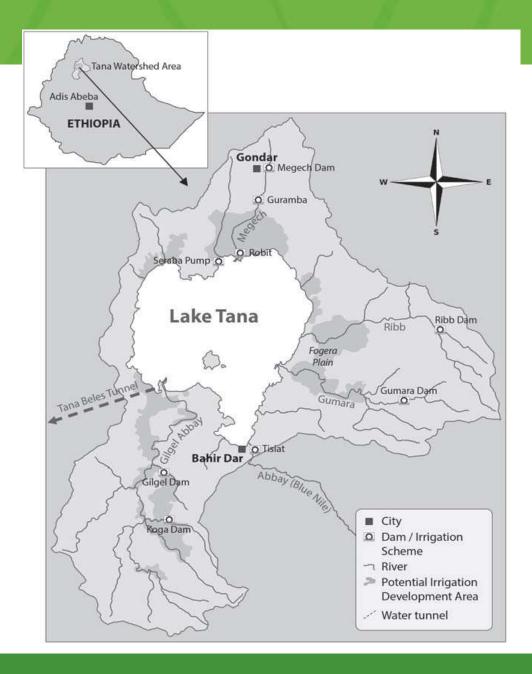
29 August 2016

World Water Week 2016, Stockholm

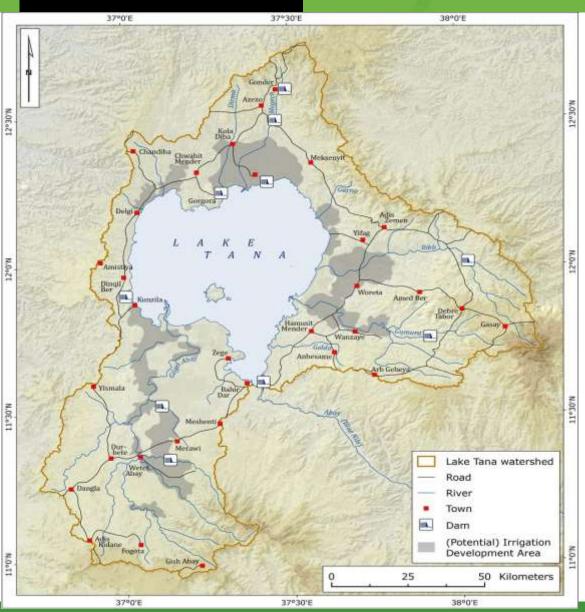


The Lake Tana Basin

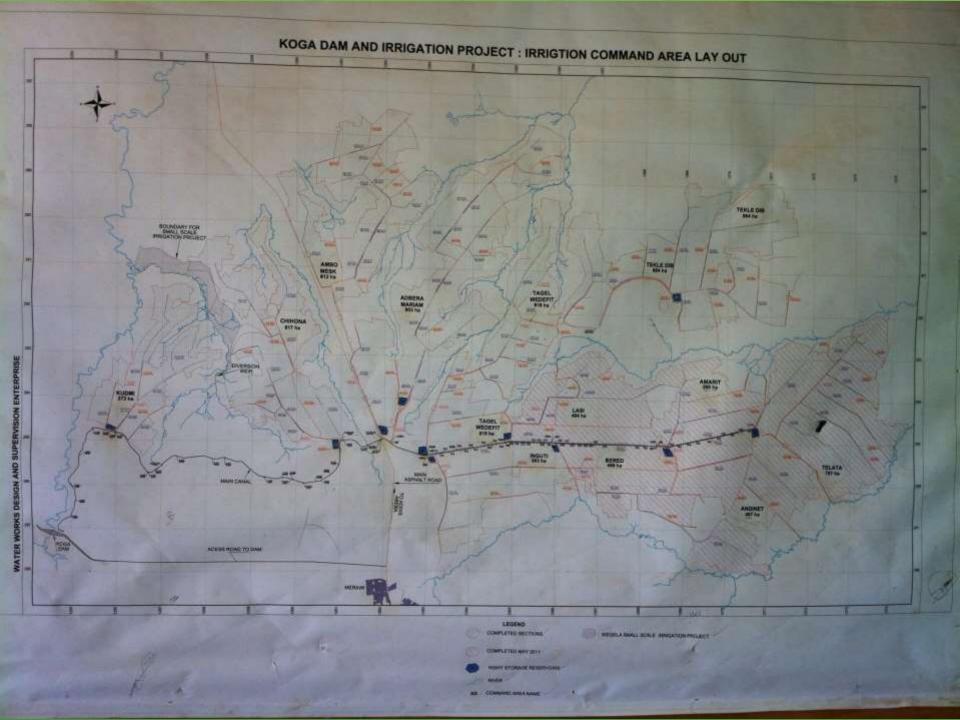
- Ca 3 million population (2007)
- Drainage area of about 15,575 km2 of which the lake itself covers 3,156 km2 (SMEC 2008)
- Four major river tributaries:
 Gilgel Abay, Ribb, Gumera and
 Megech
- Ca 130,508 ha of irrigable land distributed across 106 medium-(200ha -3000ha) and 11 largescale (greater than 3,000ha) irrigation areas (Wale et al., 2013)







Planned and ongoing dam and irrigation sites





Large-Scale Irrigation for smallhlder farmers – overall objectives

Multi-objective, emerging land investment model

- Poverty reduction, growth, change
- Climate resilience, green growth strategies

Change smallholder production dynamics

- Secure household income
- Initiate regional/national economy: growth corridor
- Create critical mass of producers that meet urban and industrial demands
- Transform agriculture



Three key issues

- 1. The scheme as a 'common good'?
- 2. Governance: institutions & organizations
- 3. Scale formation: scheme-level and beyond



Practicing the common

- The scheme as a 'common good'?: As infrastructure and as resource
 - Technology (dam and canals) as setting/defining boundaries
 - Technology scoped the common to become inclusive
 - But also the volume of the investment is big and this puts pressure on users to deliver (expectations)



Practicing the common

Conditions to access water are fairly defined, but no strict rules on water use

- Inclusive (downstream) and exclusive (upstream) characters
- About 10,000 households and almost all in the irrigable site are included
- Upstream people who depend on ca 20,000 ha required to practice conservation, but no mechanisms of payments enforced
- Water use efficiency/productivity

Multi-actors

- Government agencies (Agriculture, Extension, Land Administration); Authorities (Abbay Sub-Basin; Donor agencies
- Farmers

Require collective action

Systemic integration and collaboration mechanisms need to be strengthened



Governing the 'common'

- Transfer of canal management (state to users)
 - After 5 years of the project period, but not yet
- Institutions & organizations
 - Water use associations/cooperatives/unions
- 'Self-organised' vs government-supported WUAs
 - Government support is necessary in terms of providing clear framework
 - New policy on WUA: obligatory membership to access water
 - But, crucial that users own the processes



Challenges

- Engagement and mobilization of users
- Water financing
 - Cost recovery mechanisms, setting the fees, etc
 - Financing operation and maintenance works
 - Costs of clogged irrigation channels, etc.
- Communication structure across scheme
- Up- and down-stream collaboration and benefit sharing/ payment for ecosystem services



Creating scale: missing elements

- Production and market frontier
 - Some reasonable degree of market focus
 - Some degree of uniformity in production
- Access to household irrigation technology and improved market linkages
- Capacity building
- Engagement with mid- & large-scale private sectors (the case of babycorn outgrower scheme)
- Agricultural productivity & commercialization



Concluding remarks

- Move focus beyond the physical infrastructure
 - More on conditions that ensure returns and benefits/facilitate transformation
 - Pro-smallholder value chains
 - Farmers' cooperatives, secure access to markets
- Nurturing 'new' production and marketing dynamics among small farms
 - Differentiations in farms and products
 - Early-state business incubation and insurance
- National policies should align investment models so that small farms can invest or engage with investors, e.g.
 - Building skills & capacities of small farmers
 - Promoting relevant, small-scale and affordable agro-processing technologies
 - Promoting specialty and niche markets that also involve small farms
- Interaction and collaboration



Thank you!

Visit us at www.nai.uu.se

