



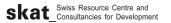




Research Rocks

helping groundwater research to change lives

Sean Furey MSc FRGS
Water & Sanitation Specialist
Skat Foundation, Switzerland
Secretariat, Rural Water Supply Network (RWSN)





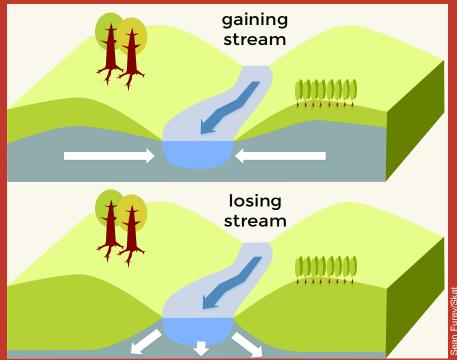
Overview

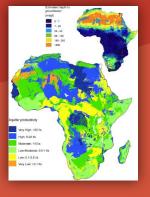
- African Groundwater
- The UPGro programme
- Research ► Change
- Next steps
- Research Rocks but can it change lives?





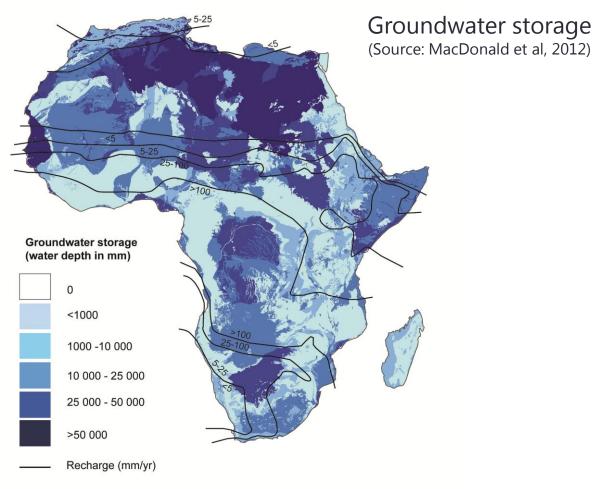
AFRICAN GROUNDWATER





Groundwater – hidden wealth

2012: first quantitative continent-wide maps of aquifer storage and potential published



British Geological Survey © NERC 2011. All rights reserved.

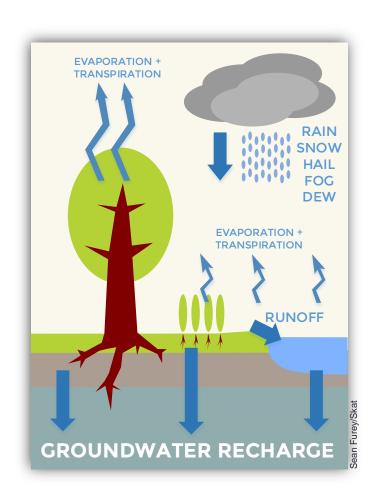
Boundaries of surficial geology of Africa, courteyy of the U.S. Geological Survey.

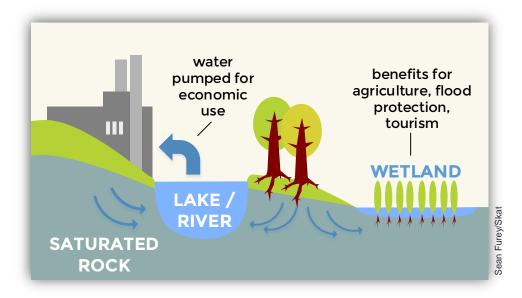
Country boundaries sourced from ArcWorld © 1995-2011 ESRI. All rights Reserved

Modern annual recharge data (Doll and Fielder 2008)



Complex natural & human processes







Choices to be made

Sustainable yield

Limit
abstractions to
no more than
the long-term
average
recharge.

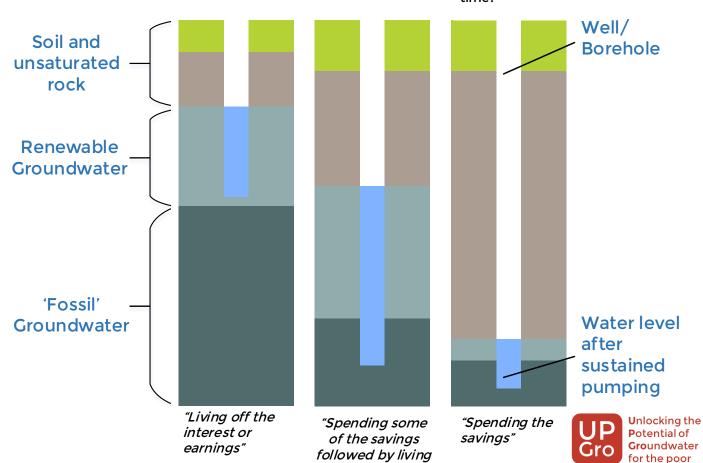
Mixed strategy

Planned depletion for a limited period followed by abstraction at a sustainable rate.

Mining

Long-term progressive depletion, reducing the groundwater reserves over time.

upgro.org



off the interest or

earnings"



THE UPGro PROGRAMME

Welcome to UPGro

 Unlocking the Potential of Groundwater for the Poor (UPGro), is a seven-year international research programme (2013-2020)

• We focus on improving the **evidence base** around **groundwater** availability and management in **sub-Saharan Africa** (SSA) to enable developing countries and partners to use groundwater in a sustainable way in order to **benefit the poor**.



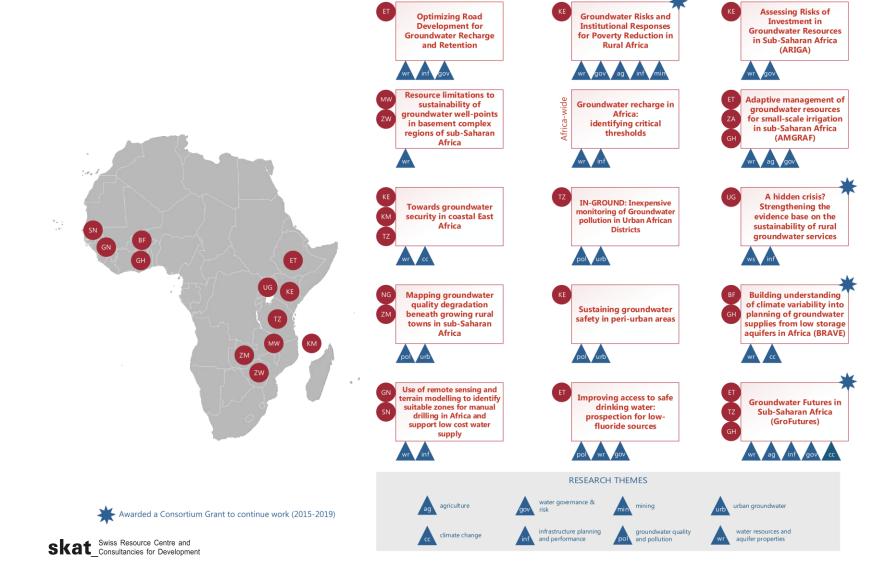
Professor Declan Conway

Grantham Institute on Climate Change & Environment, LSE

Chair of the Programme Executive Board of UPGro



The Catalysts (2013-2015)



The Consortium Projects (2015-19)









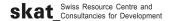








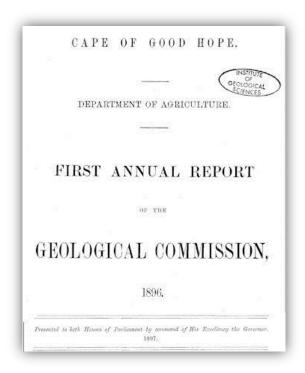




The Africa Groundwater Atlas and Literature Archive

- The most comprehensive catalogue yet available of groundwater literature for Africa.
- more than 3000 of the indexed documents link to either the full text document or an online abstract.
- Atlas will have country-by-country overviews of groundwater and geology

www.bgs.ac.uk/africagroundwateratlas





So what?







RESEARCH > CHANGE

Knowledge Broker

Knowledge exchange by research teams







Improving water security for the poor

8,000+ individual members, from 149 countries

Executive Committee:

UNICEF, SDC, AfDB, IRC, The World Bank/WSP, WaterAid, World Vision

Collaborations:

Professionalising water well drilling (UNICEF-Skat-WaterAid)

Member engagement:

Webinars, training, e-discussions, events, peerreviewed publications

Events: Stockholm Water Week, IAH Congress, WEDC Conferences

Partner Networks: SWA, African GW Network, IAH



7th RWSN Forum: Water for Everyone 29 Nov – 2 Dec 2016 Abidjan, Côte d'Ivoire



But...

RWSN was a good start...
 ...but only for rural water supply.

• Interdisciplinary science: How do we engage with social sciences?



... and why should decision-makers care about groundwater?

- Infrastructure projects: roads, water, urban extension
- Economic & social policy: agriculture, small-holder farmers,

urban healthcare



Next steps

 Stimulate discussion with African decision-makers and media and listen.

 Support research teams to match up the evidence they can supply, with the questions being asked.

• **Learn** from you on how best to do these.





Research Rocks – but can it change lives?

Improving projects and policies is vital...

... lasting change takes time ...

... but there are some quick wins











UPGro is funded by:



