Presentation from 2015 World Water Week in Stockholm

www.worldwaterweek.org

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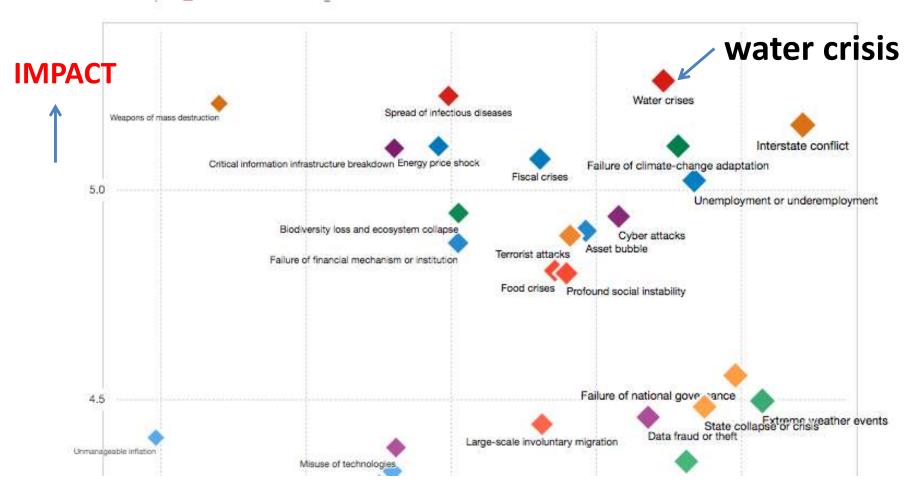


Stockholm Water Prize Seminar 2015

Three pockets of water blindness An eye-opener

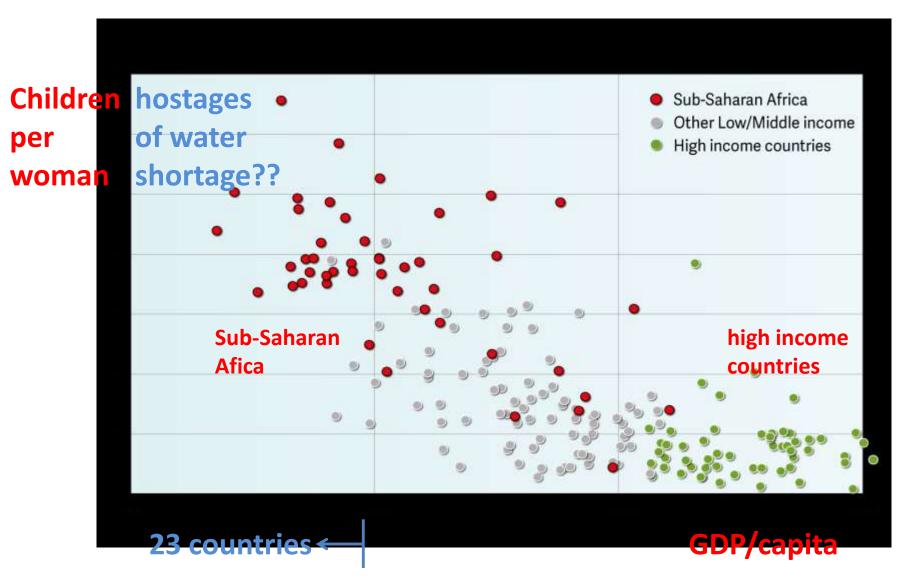
Malin Falkenmark
Stockholm Resilience Center
SIWI

World Economic Forum global crisis assessment 2015

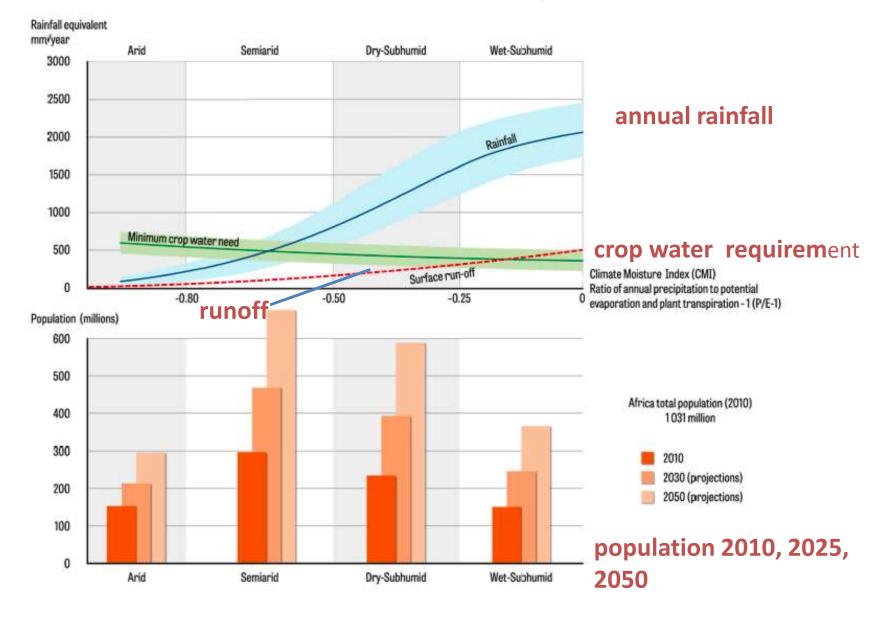




1. Water shortage in Africa



Sub-Saharan rain profile



Savanna vulnerability

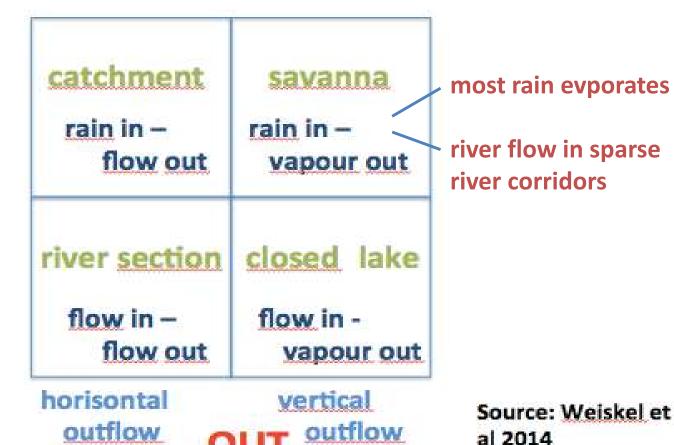
very limited river runoff

landscapes are different

vertical inflow

IN

horisontal inflow



2: Droughts are often dryspells

- can be overcome by rainwater harvesting

Growing season weeks

Sudan-Sahel region: annual dryspells

- four stations:

400 -> 900 mm rain

- 1982-2006

dryspells=grey

Source: Mertz et al 2012

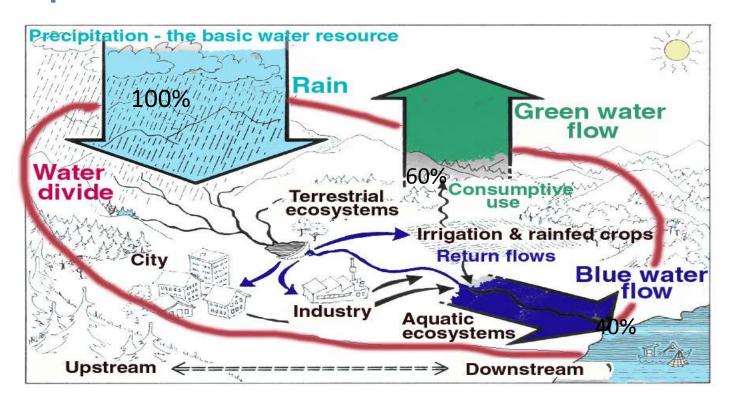


#3. TWO types of water in a landscape

-blue in rivers and wells

-green hidden in the soil

Green water is crucial for agricultural development in sub-Saharan Africa



Conclusions

Three eye openers:

*understanding savanna
hydroclimate

*many droughts are
dryspells

*hidden water in soil

*hidden water in soil

*management
component

- ° Asian "green" revolution NOT applicable
 - based on irrigation
 - blue water in river corridors only

African Green Revolution = green water based

catch the rain before it evaporates

/ Thankyou!