



Ministerie van Buitenlandse Zaken

# Diplomacy Water Productivity Towards a stable world

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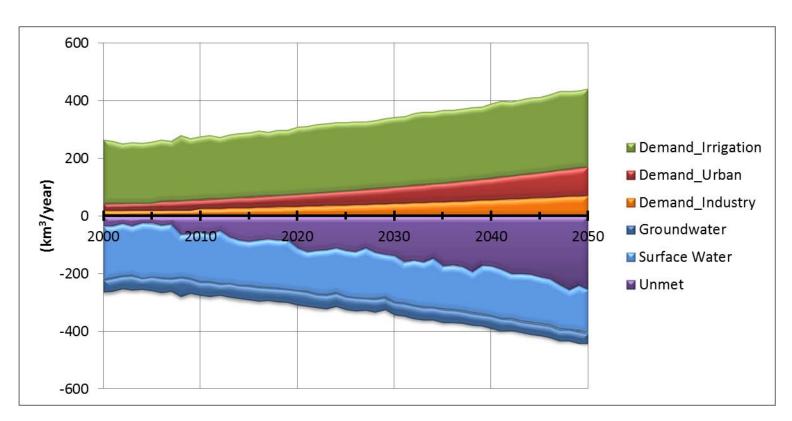
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19/5/17





# Water Scarcity and Adaptation Water Allocations and Water Productivity



Source: http://www.futurewater.nl/wp-content/uploads/2011/04/Final\_Report\_v11.pdf MENA water outlook 2050. Peter Droogers, et al



# Game changer/ need for indicator

trigger

# 25% target NL



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# Yemen: The request for an open database

Yemen Parliament members

Consultations diplomatic level

Invitation by Speaker of the Parliament -FAO and EKN 4

Request for introduction of a cloud based database to measure Land and Water productivity









### March 2015: FAO agreement for a database



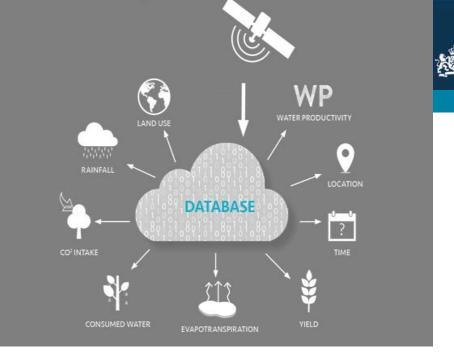
- Open source
- Objective
- Near real time

### Reach of the Database

#### Database

- Continental level
- II. Country river basin level
- III. Irrigation scheme level





# **WAPOR**

http://www.fao.org/in-action/remote-sensing-for-water-productivity/en/

http://www.fao.org/land-water/overview/global-framework/partners-meeting/en/

http://www.fao.org/land-water/overview/global-framework/partners-meeting/partners-meeting-report/en/

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#### the challenge

manage monitor manage



# Towards a stable world: What are the causes of instability?

#### 1.Ideological differences

#### 2. Global inequality GPG











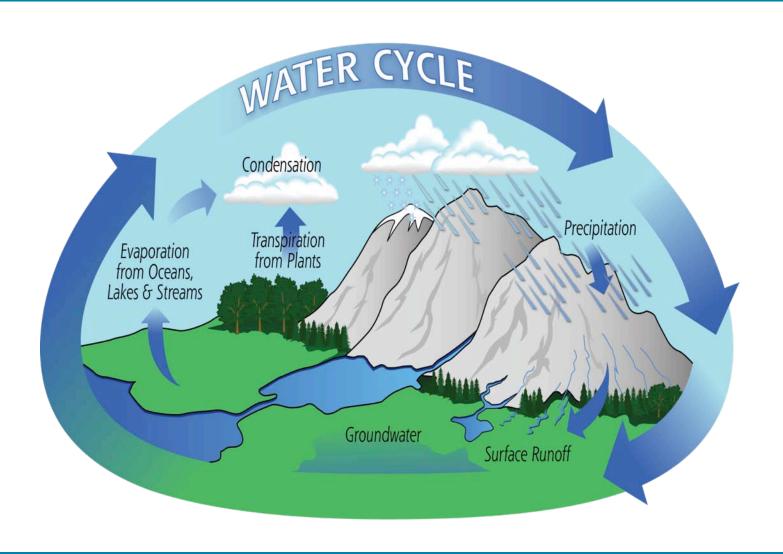
#### Targets for MoFA- IGG Water





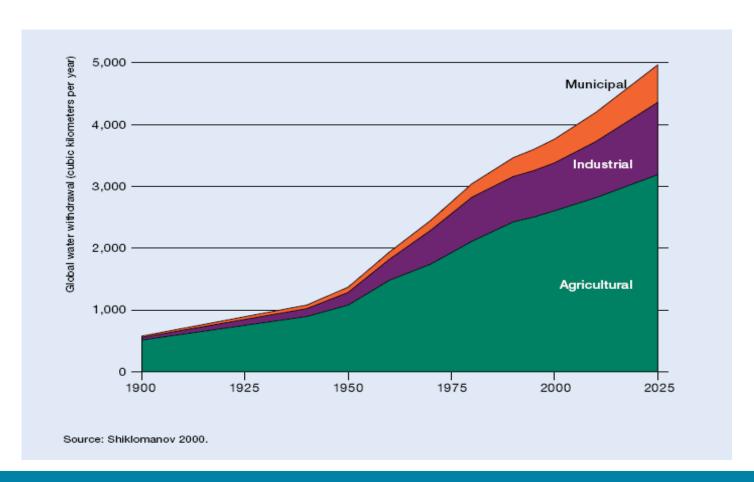








# Increasing pressure on finite water resource by main water consumers





#### WATER PRODUCTIVITY WP

- Water used
- \$ USD
- Calories







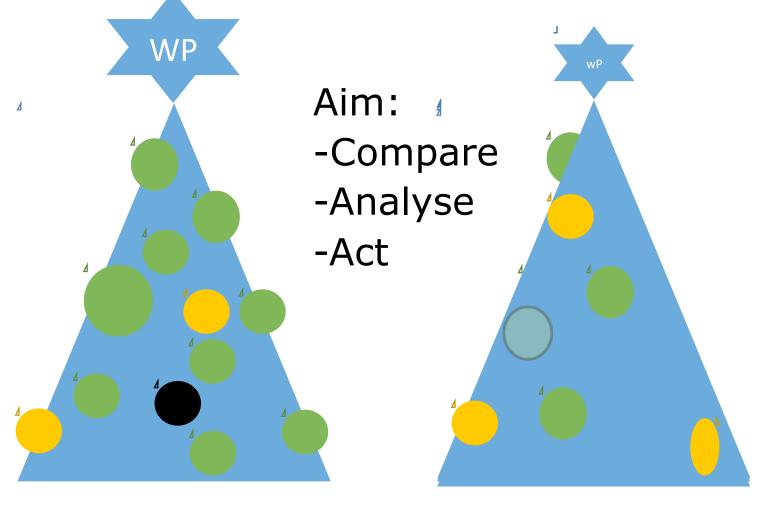
-The game changer !!

-Now we are able to talk

-Are we managing with all pressure on water in AGRI.

-using RS
Lie same language
our investments to

reduce



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#### **Stakeholders**

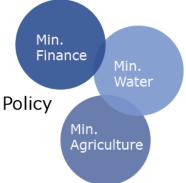


HUNGER

Increase transparancy on water use, create evidence-based news

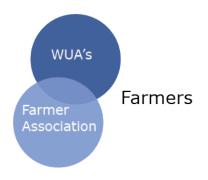


Assessment overal availability, long-term planning, valorisation of water









Decision-making in investments, crop choice, water infrastructure





Assisting of farmers in related aspects such as improved seedlings, risk management in insurances

## Improving WP with small scale irrigators in Ethiopia

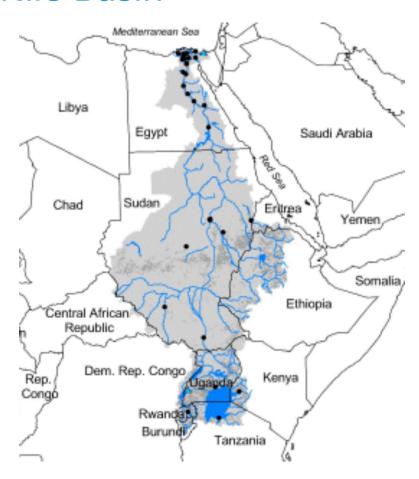
Farmer Liyu Fetene: "The Wetting Front Detector helped us save time and labor by reducing irrigation frequency without affecting the growth and performance of the crops,"

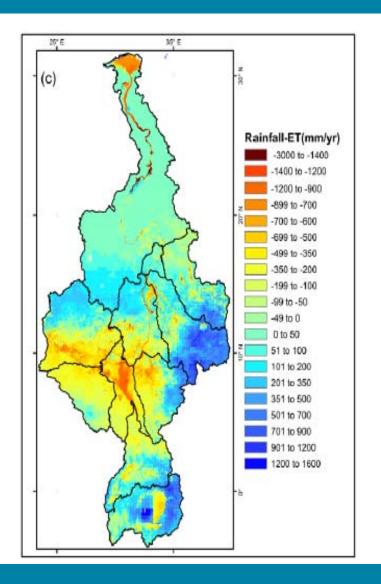


P. Schmitter, A. Haileslassie, Y. Desalegn, A. Chali, S. Tilahun, S. Langan, J. Barron

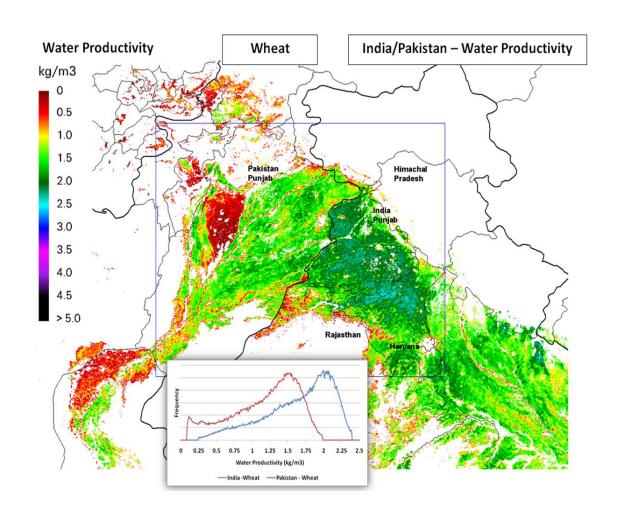


#### Nile Basin



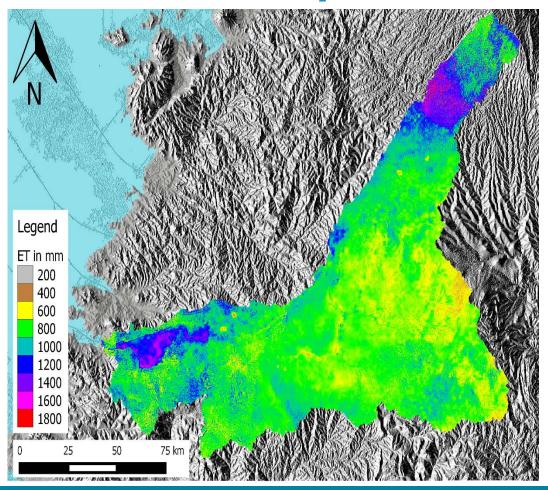






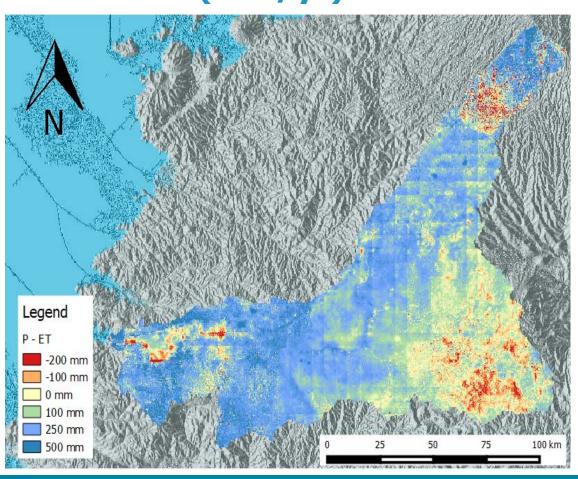


### **Annual ET variability 2014 Mara Basin**



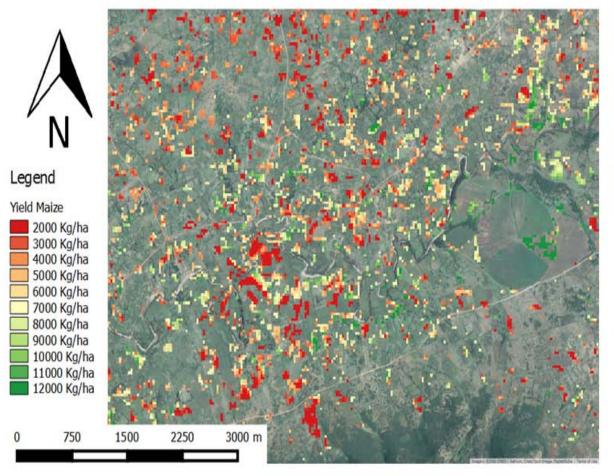


# Annual Water Yield (P - ET) 2014 Mara Basin (mm/yr)

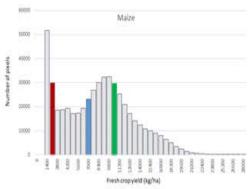




### **Crop yield Maize**

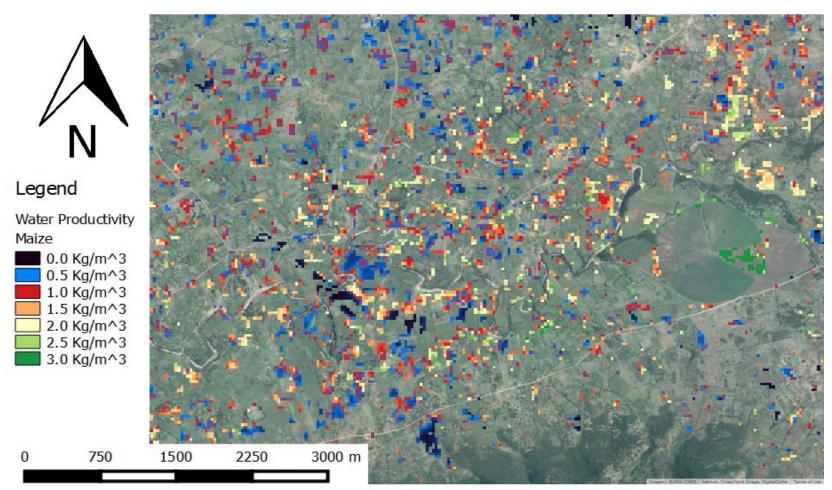






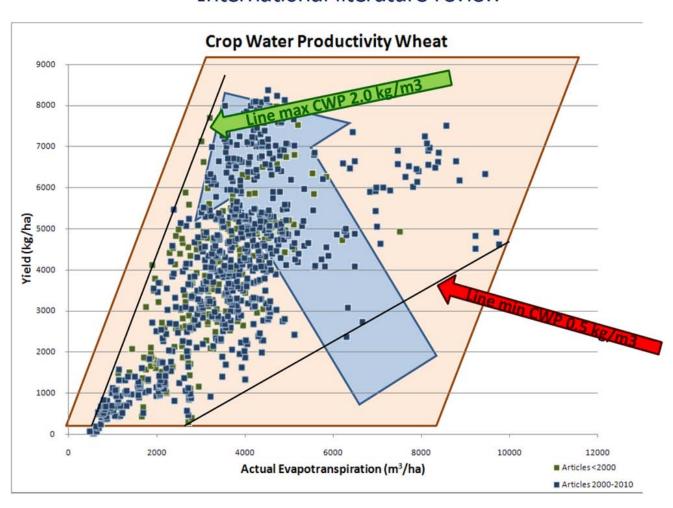


### Crop water productivity: Maize





#### International literature review





#### Thank you. Remember:

- Water is a GPG = Common responsibility
- •Water geopolitics threat multiplier
- •Scarcity is a matter of pressure, allocation, valuing water and inefficient use of water.
- •Set measurable targets. Talk same language
- •RS is a game changer for WATER

Focus on 25% WP as a start

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