Water productivity: vision, policy and implementation





Wim Bastiaanssen





We have to produce more food from less land and less water

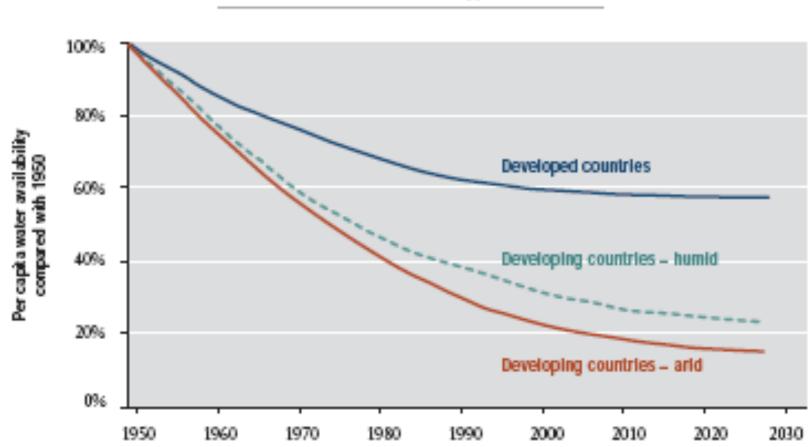


FIGURE 7 Water availability, 1950 to 2030

Source: Bridging Troubled Waters: Assessing the World Bank Water Resource Strategy, World Bank, 2002



Improve efficient use of water in agriculture





Hoe draagt Nederland bij aan wereldwijd waterbeheer?

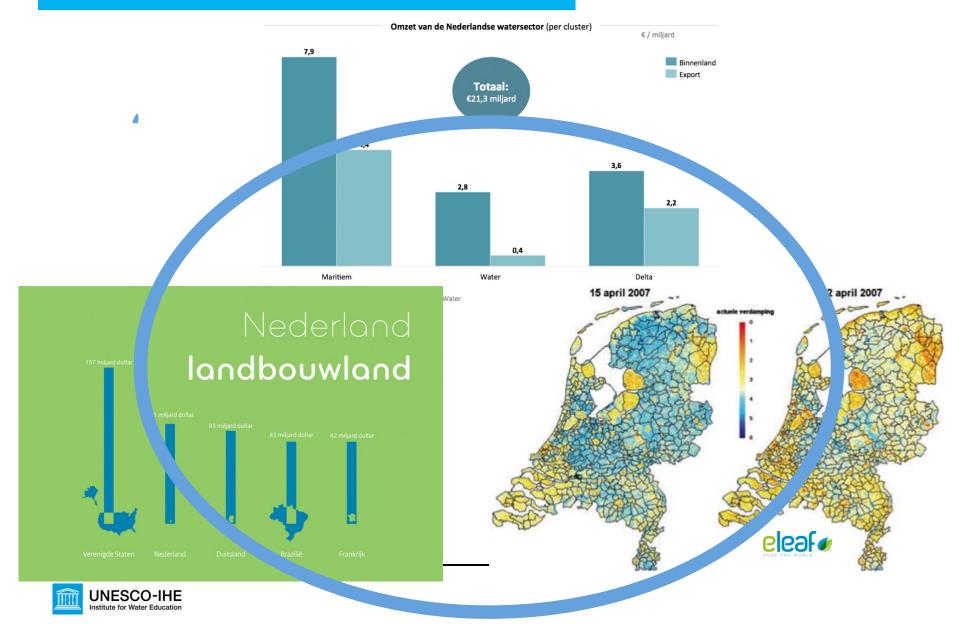
Waterbeheer is een van de 4 belangrijke thema's van het Nederlandse ontwikkelingssamenwerkingsbeleid. Nederland stelt daarbij 3 doelen:

- veilig en schoon drinkwater: verbeterde toegang tot veilig drinkwater en sanitaire voorzieningen voor 25 miljoen mensen;
- waterbeheer: verbeterd stroomgebiedsbeheer en veilige delta's;
- Verhogen van de waterproductiviteit in de landbouw met 25%.

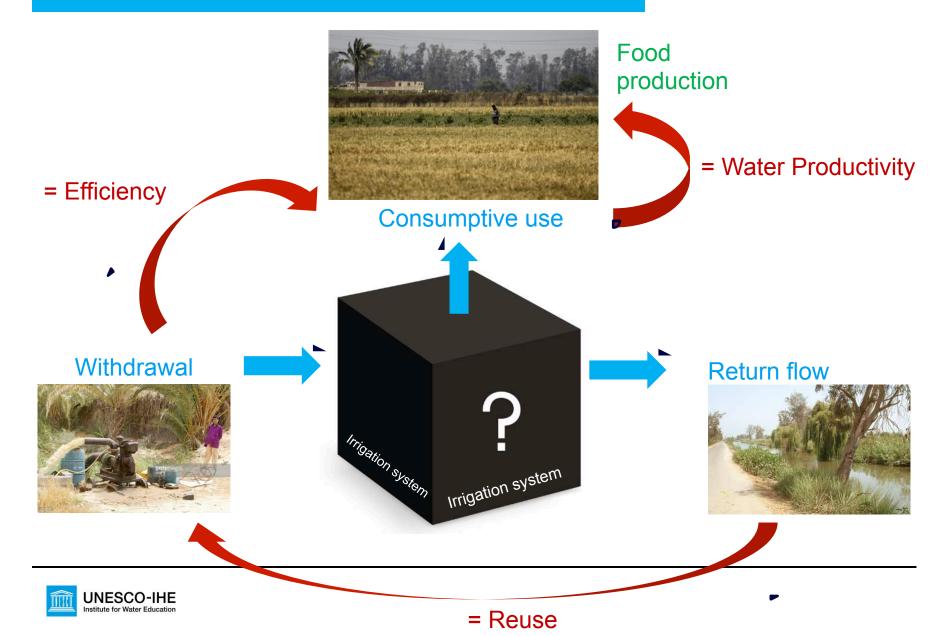


Ministerie van Buitenlandse Zaken

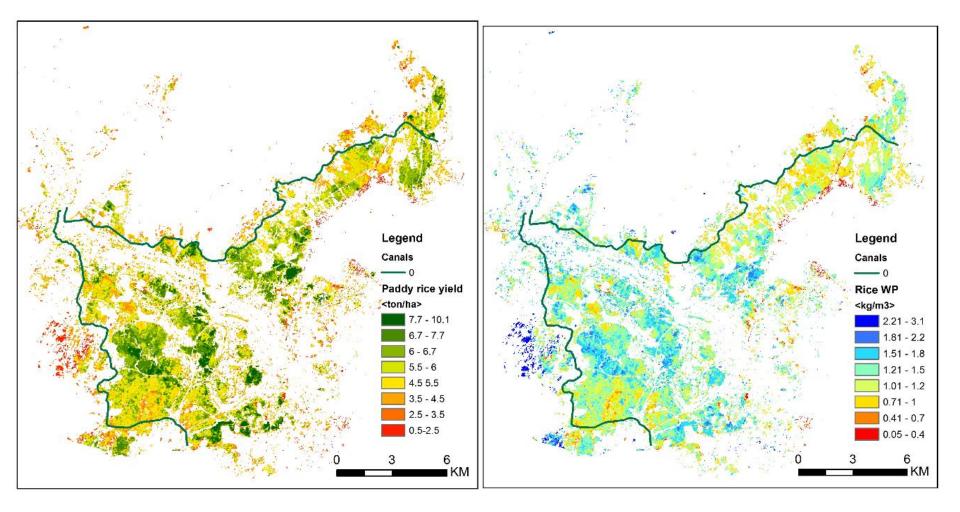
Landbouw & Water & Remote Sensing



Understand the field scale water balance first



Example land and water productity in rice (Vietnam)



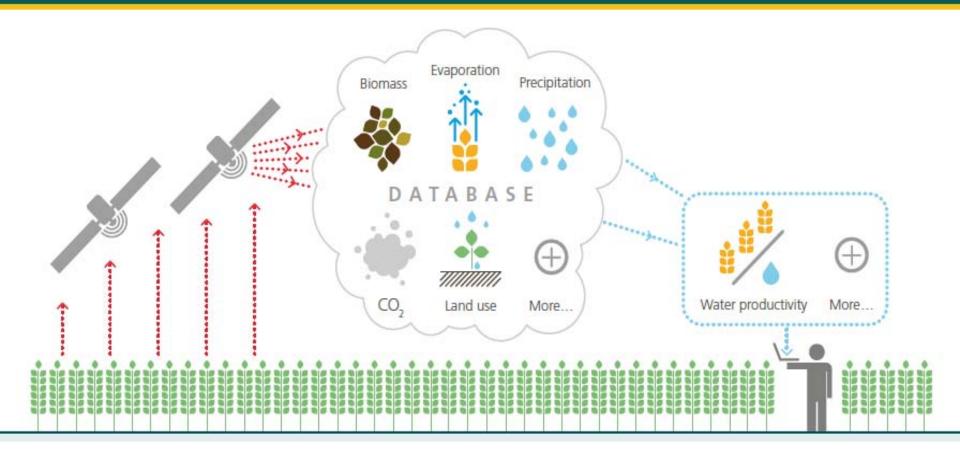




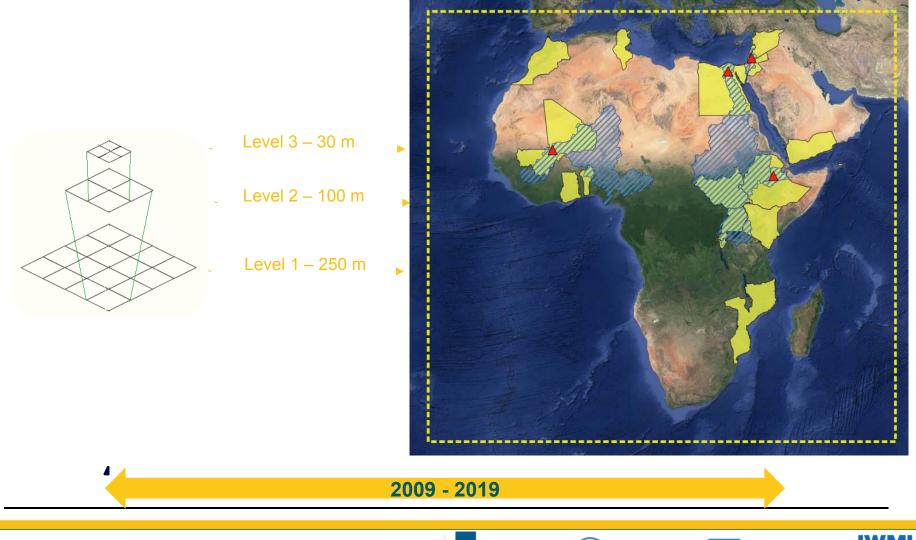
Food and Agriculture Organization of the United Nations

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

Using Remote Sensing in support of solutions to reduce agricultural water productivity gaps



1. Database: structure



Methodology Review Workshop 18-20 October 201



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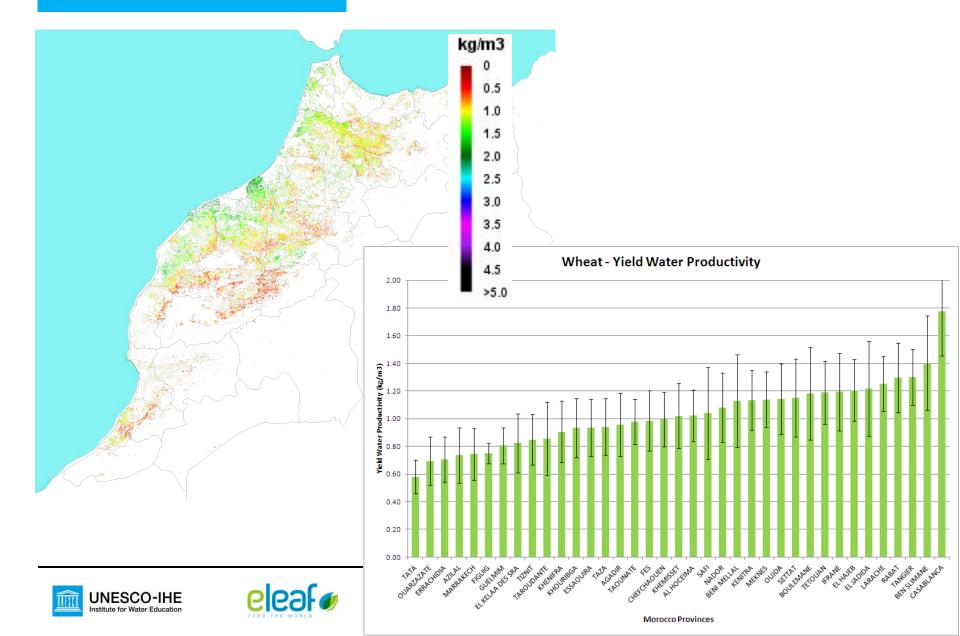
Role of United Nations (FAO)

The Water Scarcity Initiative (WSI) has been formulated to support the countries of the NENA Region to cope with one of their most striking challenges: the pursuit of **food and water securities**, for a **sustainable** social and economic **development**, under an unprecedented severe escalation of water scarcity

The objectives of the initiative are: enhancing policies, investments, governance and best practices to sustainably increase water and land productivity; providing tools for strategic planning of optimal and sustainable allocation of scarce water resources; implementing a regional collaborative strategy for a water-reform agenda



Role of Governments

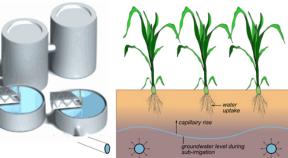


Role of farmers





Role of the AgWa community





What is efficient use of water in agriculture ?

Improvement of efficient water use in irrigated agriculture at field scale

