

KIVI NIRIA
Afdeling Oost

Afghanistan

Ervaring

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7 juni 2010



Afghanistan,



**Er is niet alleen
maar oorlog**

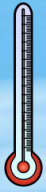
Overzicht van ontwikkelingen in
Water Resources Management & UWSS

Introduction: General information, water related

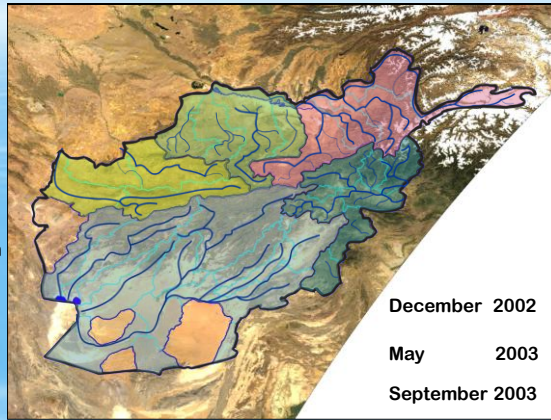
Climate



Average 250 mm
North-East 1200 mm
South-West 60 mm



35°
-20°



ETP
1200mm North
1800mm South
South West

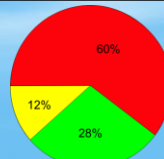
December 2002

May 2003

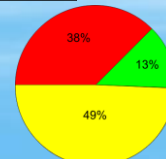
September 2003

Water Resources

Amu Darya River Basin
Northern River Basin
Harirud-Murghab Basin
Helmand River Basin
Kabul-Eastern River Basin



Water flow



Land area

Irrigatie

>80% Bevolking in landbouw

65 miljoen Ha

12% beboubaar

2% bosgebied

86% grasgebied of kaal

Efficiëntie 15 – 30 %

Op dit moment 2 miljoen Ha onder irrigatie

Mid '70's Afghanistan zelf-voorzienend in voedsel productie

Drinkwater voorziening

Geen toegang tot drinkwater

stedelijke gebieden 70%

platteland 80%

Efficiëntie watervoorziening ongeveer 50%

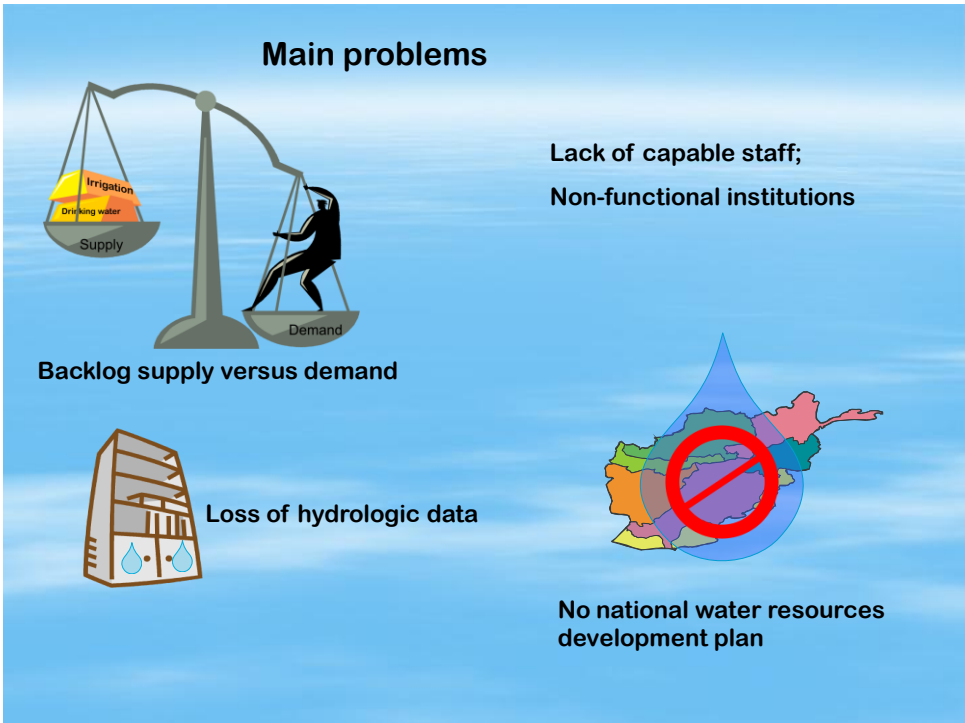
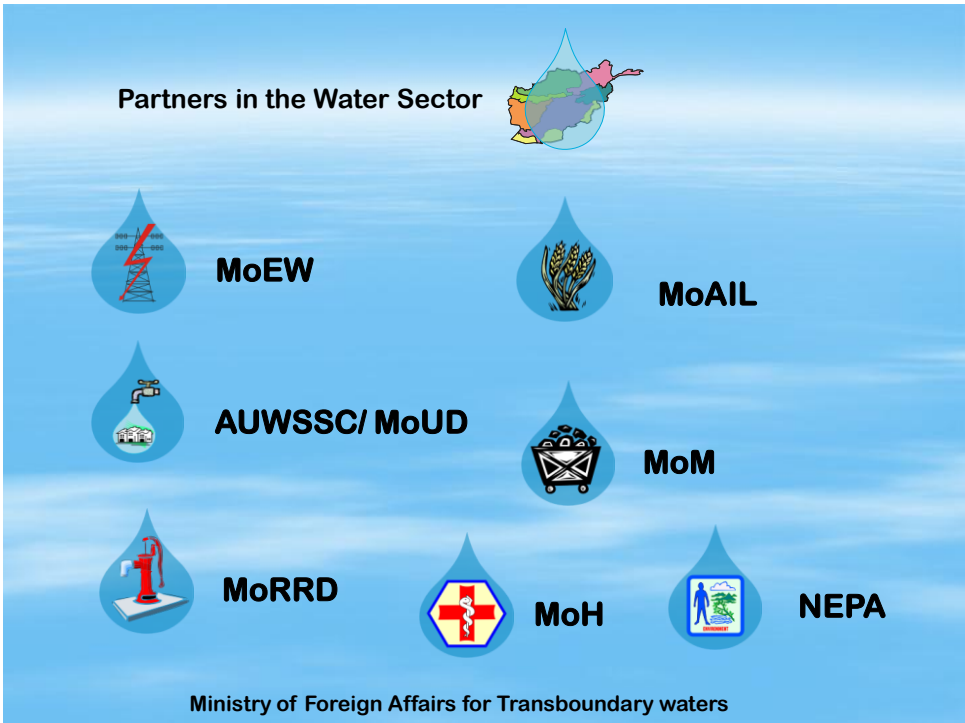
Meer vraag dan voorziening

Vervuiling oppervlakte - en grondwater

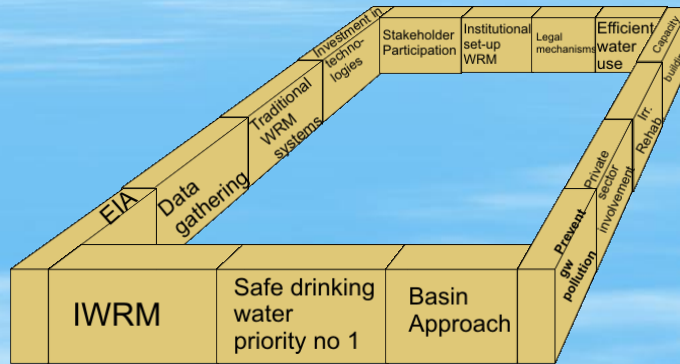
Slechte sanitatie,

Slechte/geen vast vuilinzameling

75% waterbronnen in Kabul vervuild

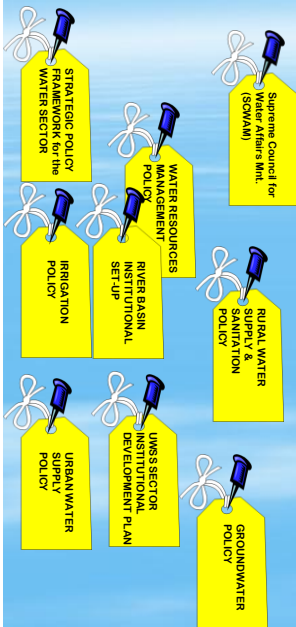


Het leggen van de fundering



“Kabul Understandings” May 2002

Mijn Werk IWRM (geïntegreerd water beheer)



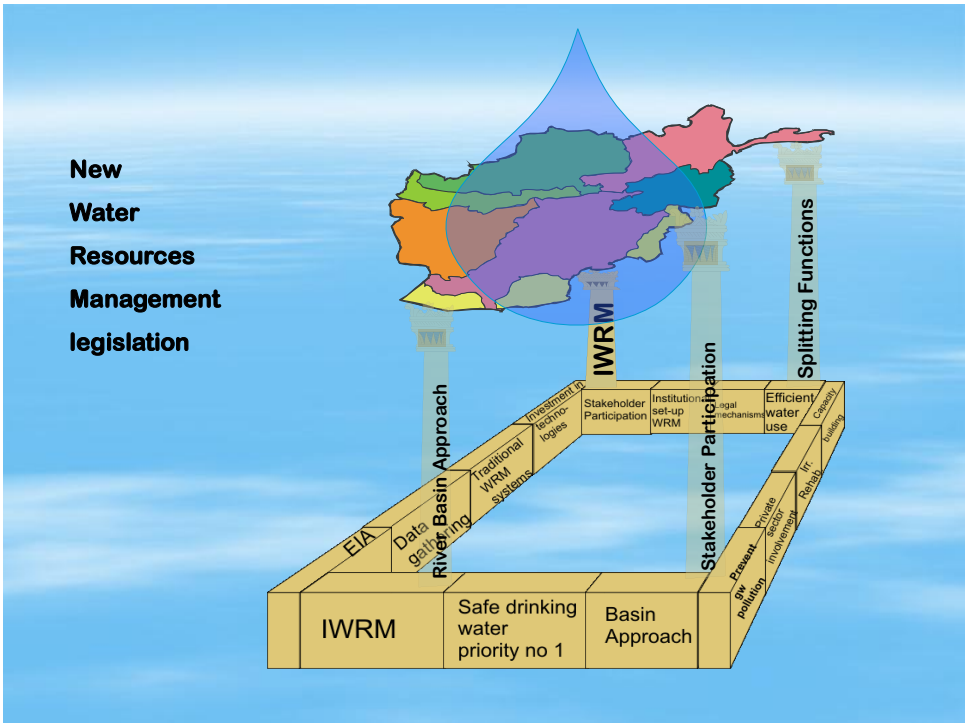
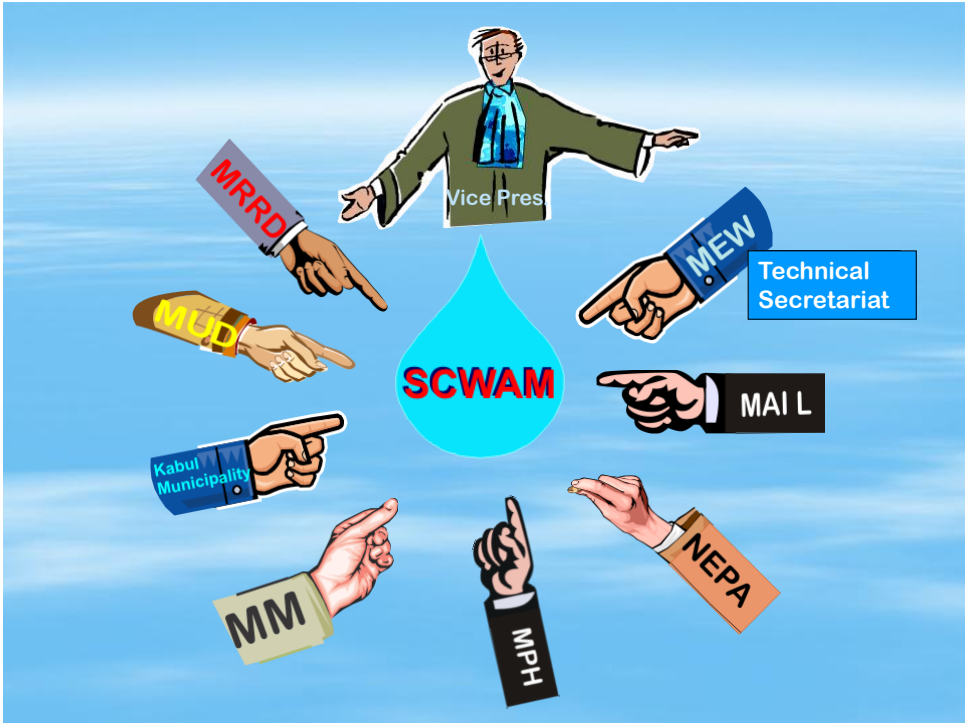
Hoever is de legpuzzel van de water sector



Amendment
Water Law



Regulations



IWRM

It Looks at.....

Surface Water

Ground Water

Quality

But it also looks at:

Social aspects

Environmental aspects

Cultural aspects

Legal aspects

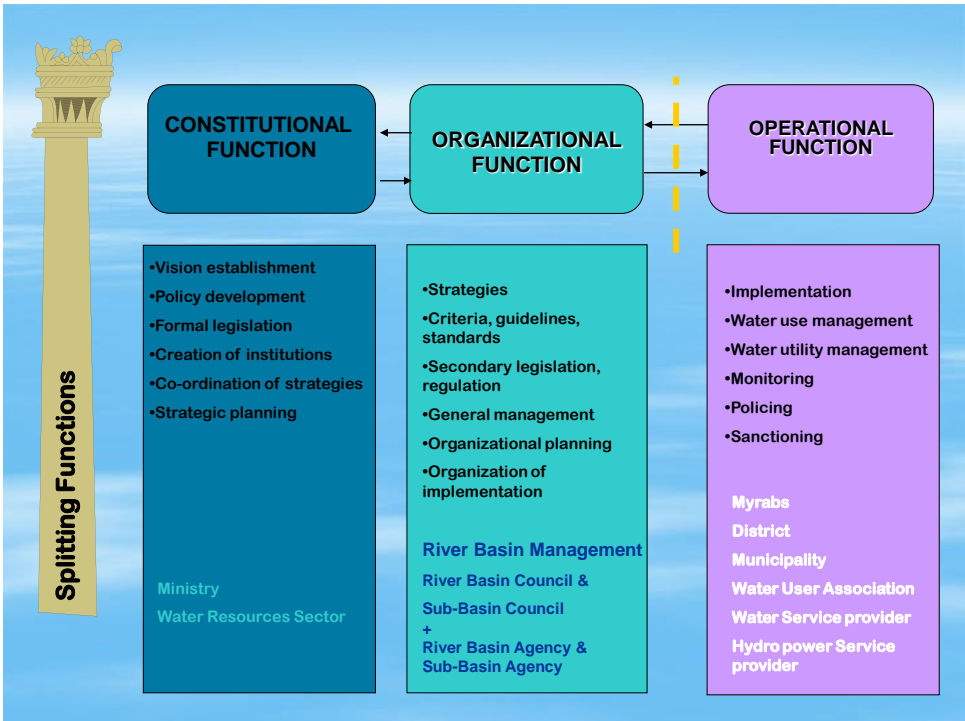
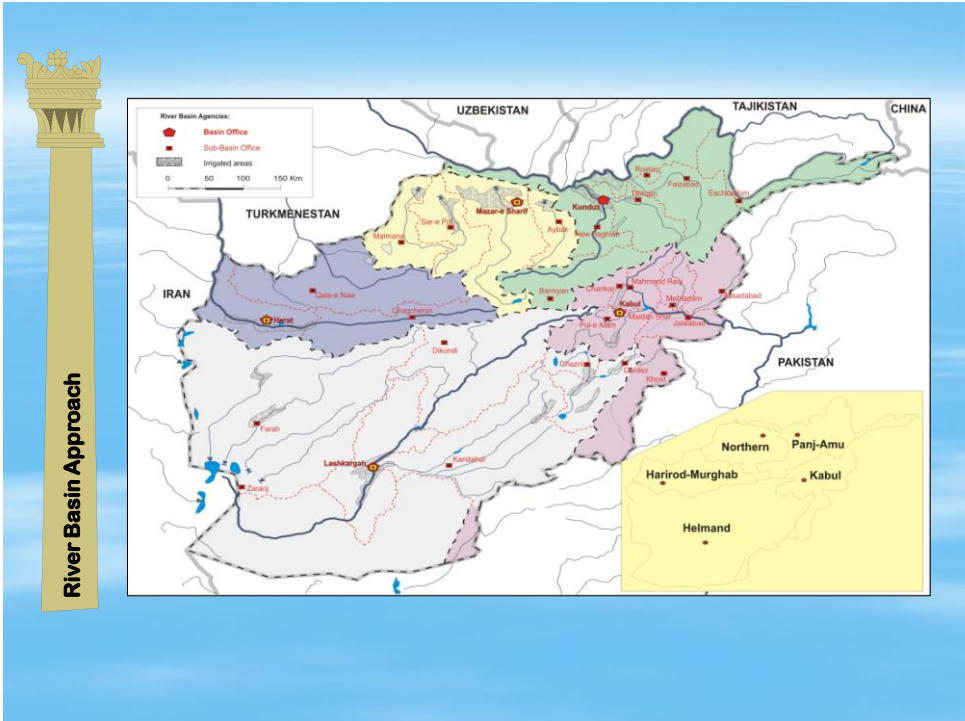
IWRM

But it also looks at:

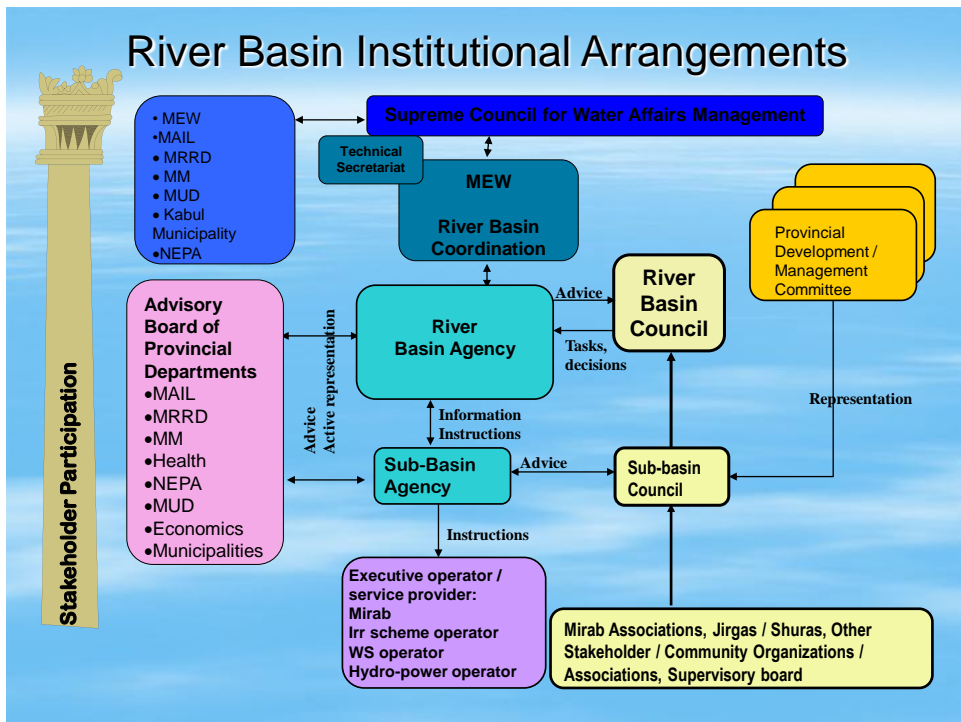
Economical aspects

Financial aspects

Institutional aspects



River Basin Institutional Arrangements

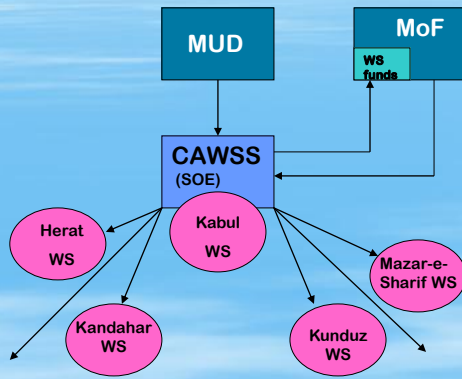


Functions and Powers of (Sub) Basin Council



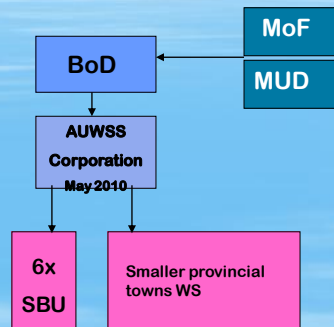
My Work UWSS

Urban Water Supply and Sanitation ---- 2008



In total 32 provincial water supply offices

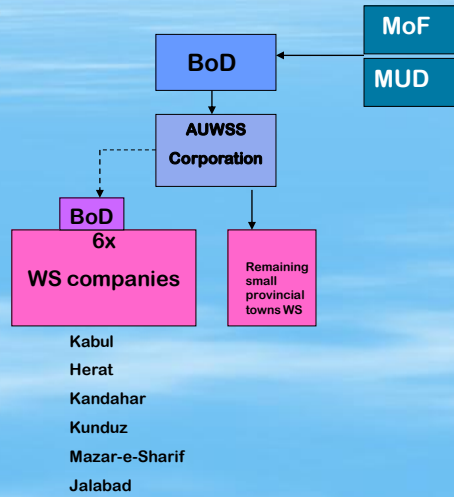
Urban Water Supply and Sanitation 2008 ----



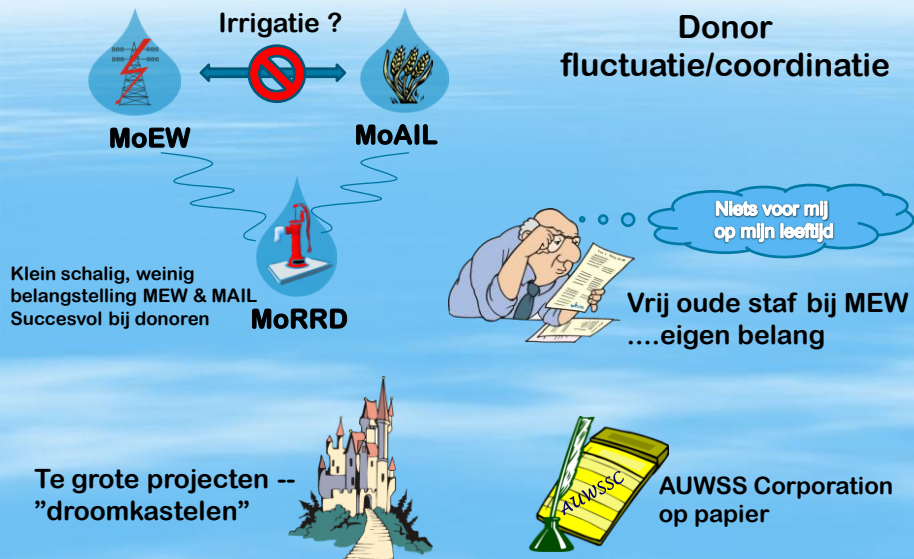
- Kabul
- Herat
- Kandahar
- Kunduz
- Mazar-e-Sharif
- Jalabad

SBU = Strategic Business Unit
 Directly responsible for O&M
 Only percentage of income to AUWSS HQ
 Tariff setting still done by AUWSS

Urban Water Supply and Sanitation Vision



Barrières in de ontwikkeling





De Magie van Water

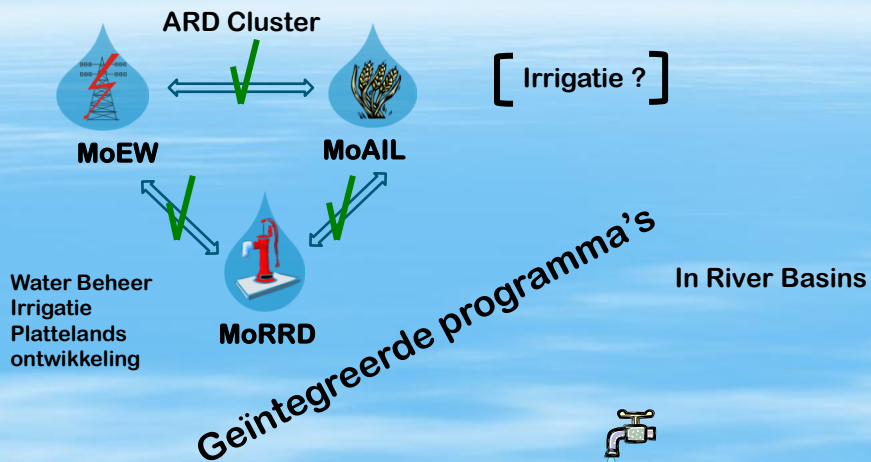
**WATER : een
ongrijpbaar
natuurlijk
rijkdom**



Dat moeilijk is vast te houden



VOORTGANG ?



AUWSS Corporation baas over
stedelijk water (Mei 2010)



Mijn ervaring met de Afghaanse counterparts

Vertrouwen kweken & Eigendomsgevoel opbouwen

Infrastructuur



Institutionele Opbouw

Samenwerking met

EU - Panj Amu Darya River Basin project



Grensoverschrijdende rivieren:

4 van 5 rivier-stroomgebieden grensoverschrijdend



Mijn ervaring met de cultuur



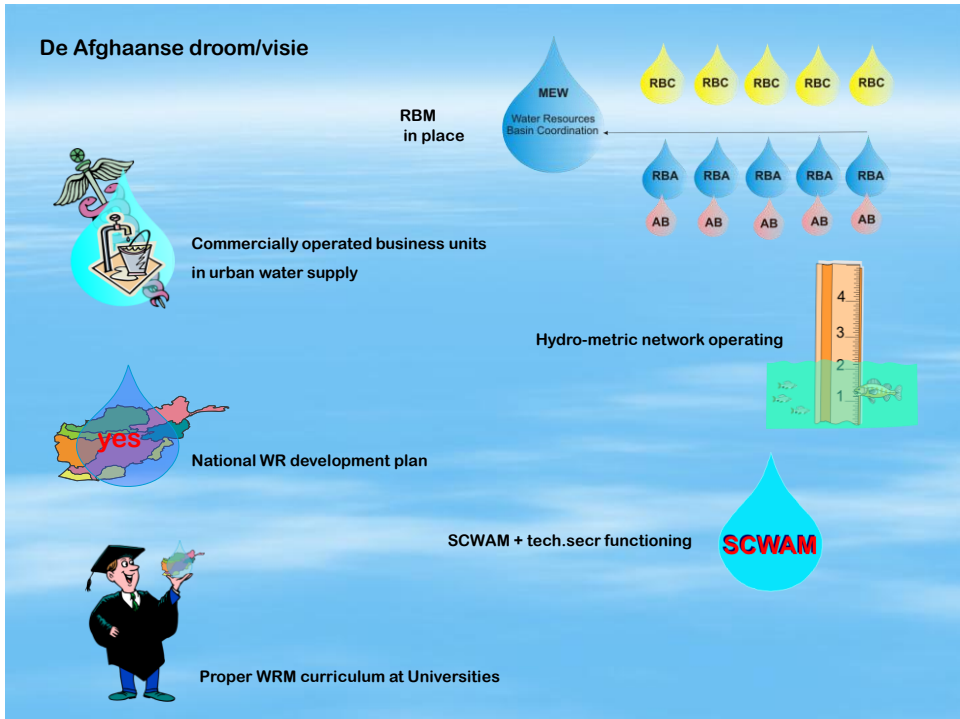
Afghanen zijn trotse mensen



حصاری زبان

Taal barriere

De Afghaanse droom/visie



De Afghaanse uitdagingen

- Improvement of human resources
- Creation of political will for support
- Setting-up institutional components
- Awareness creation with general public
- Opening dialogue for transboundary issues
- Establishment of water research institute

Info also at www.and.s.gov.af

**Integrated
Water Resources
Management**

**for
a sustainable future
of
Afghanistan.**

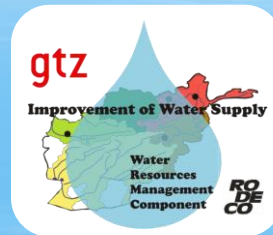
They work on that !!!



Thank you.



Islamic Republic of Afghanistan
Ministry of Energy and Water



AFGHAN GERMAN TECHNICAL CO-OPERATION

gtz **RODECO** RODECO Consulting GmbH