



OVERVIEW: ISSUES TO BE ADDRESSED

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National Groundwater Conference, Kabul

7-8th June 2015

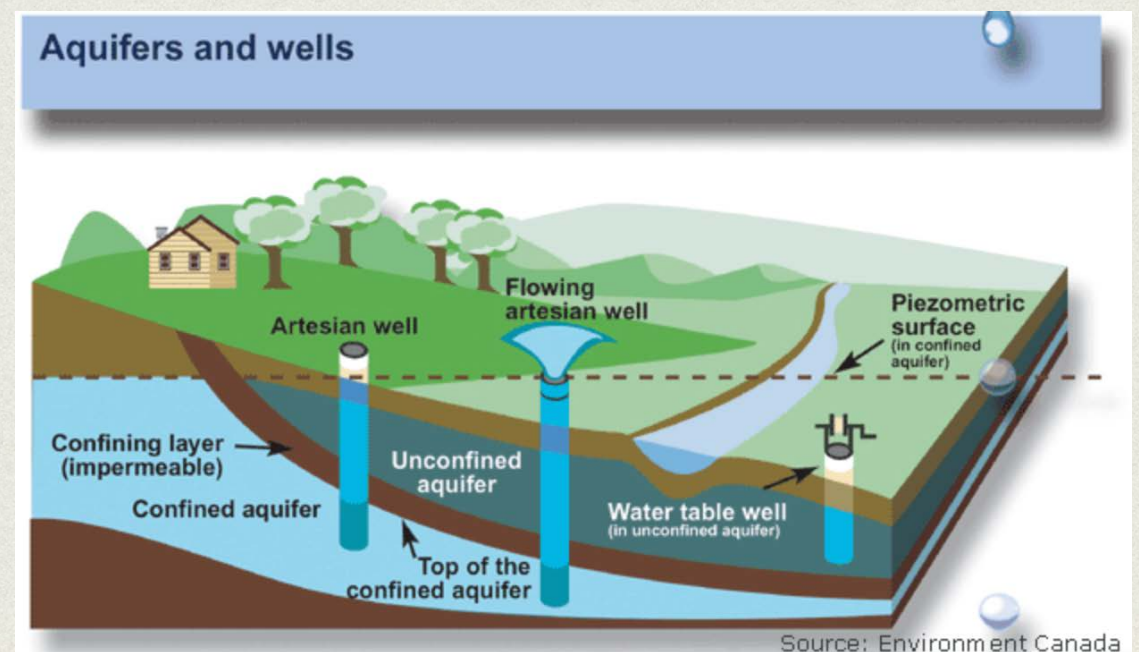


NORPLAN 
Consulting Engineers and Planners



GENERAL PICTURE

- Country: **Afghanistan** located in Arid and semi arid region of the world.
- A nation with people: **29 million** – modernized/ Urbanized
- Services requirements: **Drinking water, food, electricity, Industry, ecology**
- Are all served adequately: **NO**



GENERAL PICTURE

- Should water be shared?
- How can we share if we don't know what we have and where we can find it?
- How are groundwater systems replenished?
- GROUND WATER MAPPING IS NEEDED
- Government to set the priority for use?
- What about regulation and enforcement?

MANY SMALL USERS

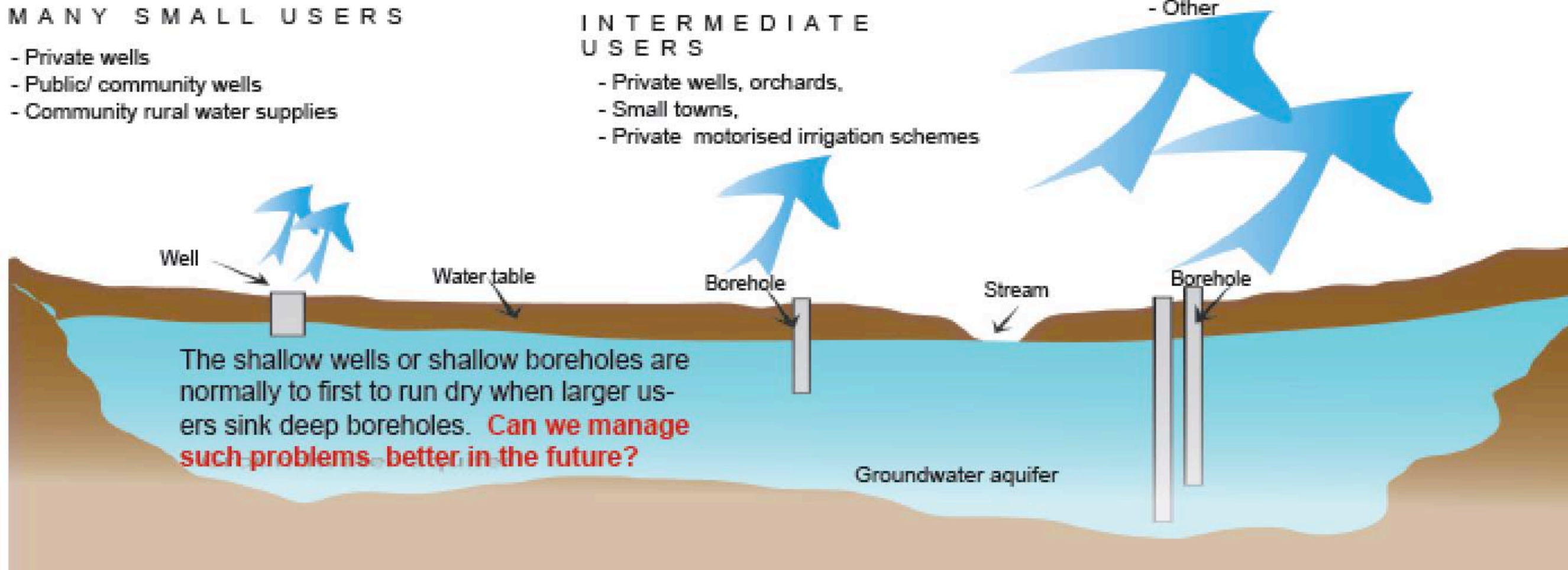
- Private wells
- Public/ community wells
- Community rural water supplies

INTERMEDIATE USERS

- Private wells, orchards,
- Small towns,
- Private motorised irrigation schemes

LARGE USERS

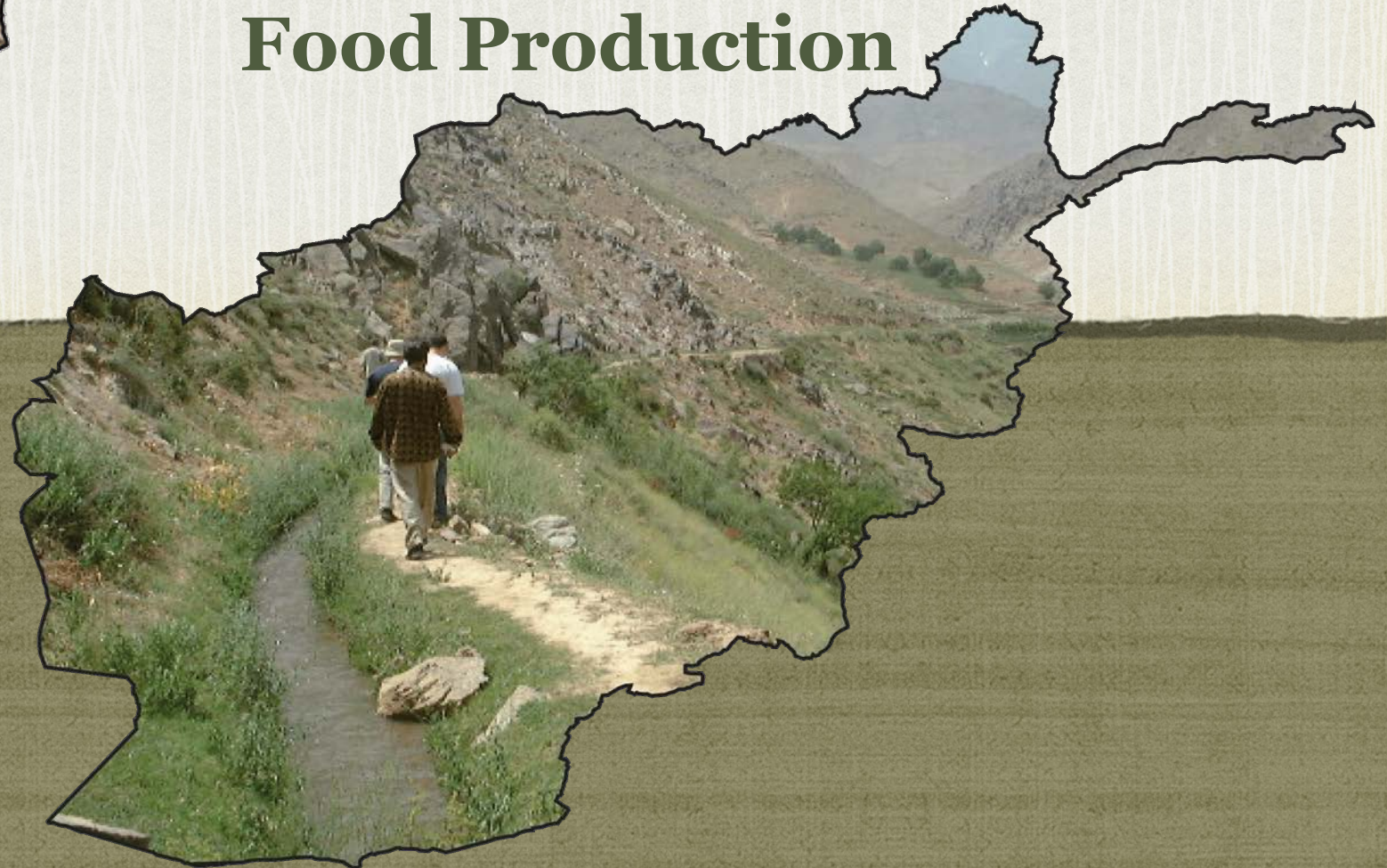
- Irrigation schemes
- Large private users
- Larger public/ private water supply
- Industry
- Other



Drinking water



**Water for Irrigation -
Food Production**



**GROUNDWATER -
ESSENTIAL
RESOURCE**

LETS STOP A LITTLE

What are we here to discuss?

- Projects??— Perhaps
- Ministries?? — Perhaps
- Organisations??- Perhaps
- Services for people??- **YES, for all Afghans**

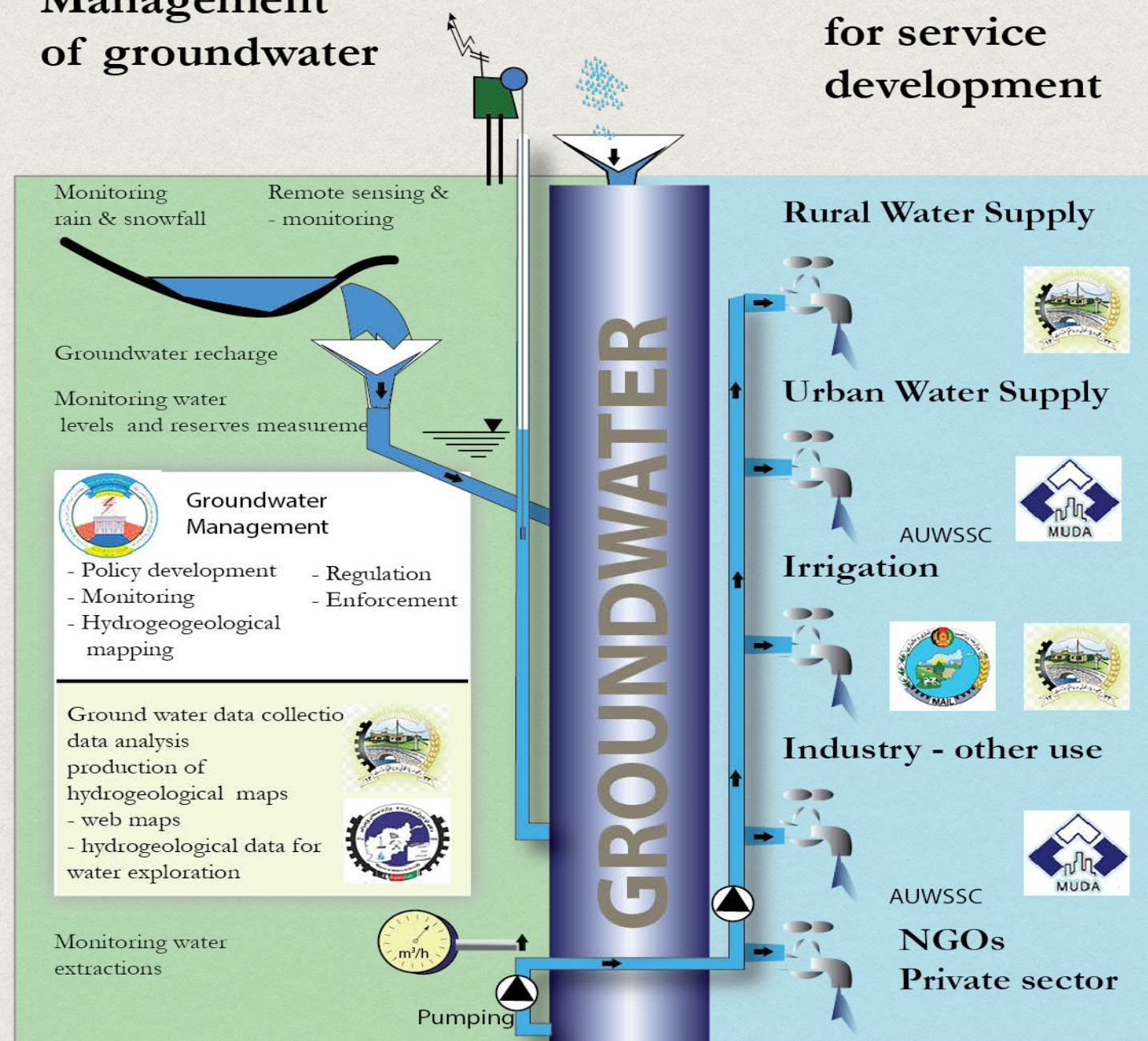
KEY STAKE- HOLDERS

Groundwater resources

Users and producers of important information of government ministries and organizations.

Management of groundwater

Water use for service development



Ministries:



MEW



MoM



MRRD



MAIL



MUDA

Draft document- unofficial- 28.10.13

MANY ACTORS, BUT MILLION OF USERS



Many stakeholders-

- Coordination and information important

to make forward planning & monitoring effective



MEW



MAIL



MRRD



ADB



NORPLAN



MUDA



MOPH



MOM

KFW



UNEP



jica



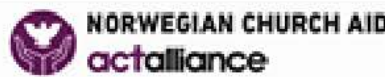
Kabul Univ.



Kabul Polytec. Univ.



ANSA



unicef



giz



DACAAR



BORDA



+ 29 million Afghans!

MORE CHALLENGES?

- Still 15 million rural people without safe water supply
- Urban people need safe water supply but afraid of their only groundwater source is not protected from contamination?
- Need for irrigation more water?
- Shallow wells AND Karezes and spring dry up/ stop working.
- TIME TO PLAN FOR ACTION?

LEGAL FRAMEWORK

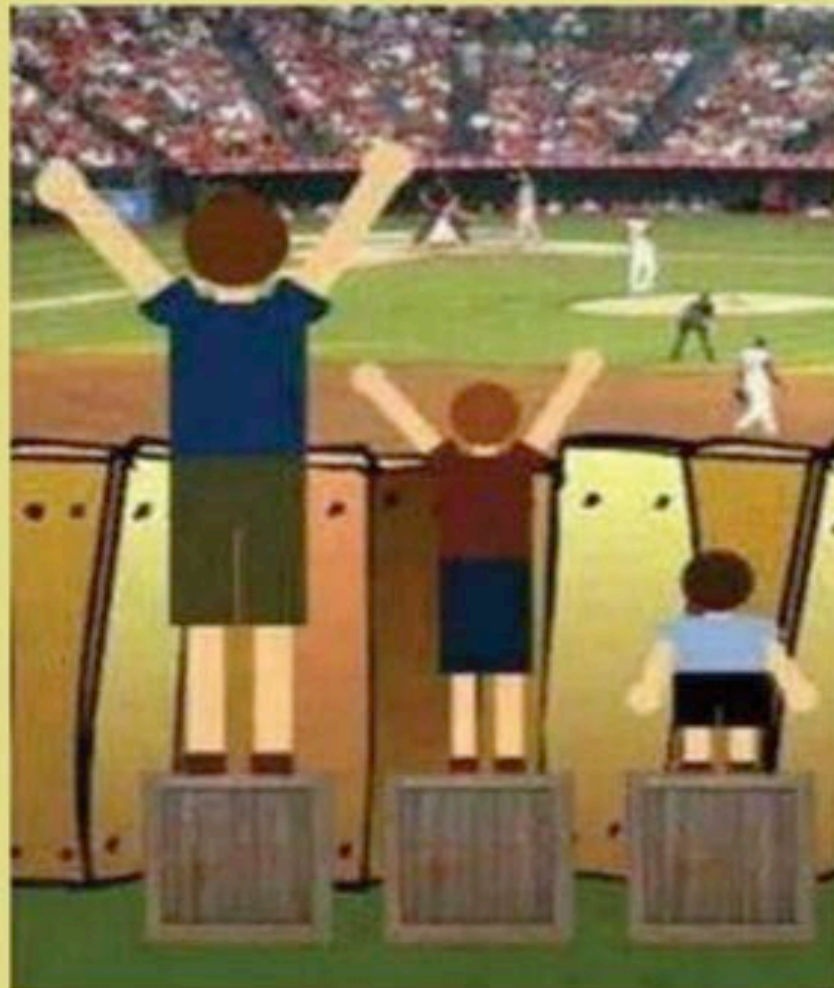
- Strategic Policy Framework
- Water Law
- Water Sector Strategy
- Groundwater Policy



WE ALL HAVE TO COLLABORATE TO SECURE THEIR FUTURE?
DO WE HAVE OR NEED A PLAN?

DEVELOPMENT SOMETIMES DIFFICULT

EQUALITY DOES NOT MEAN JUSTICE

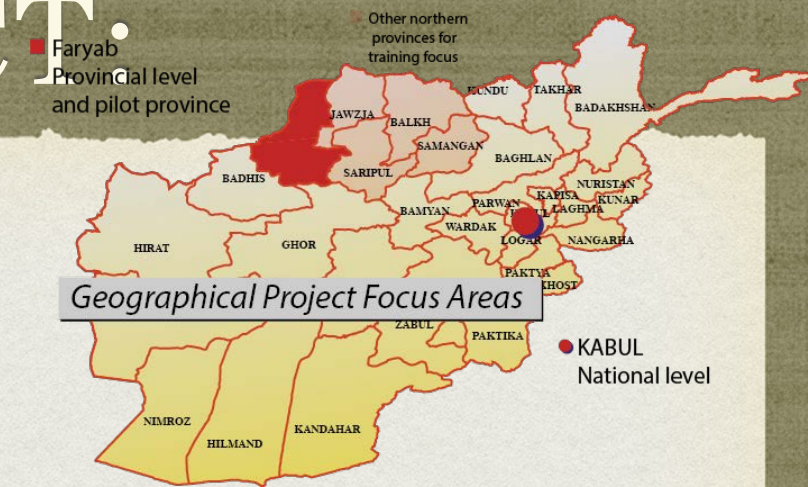


EQUALITY



JUSTICE

EXPERIENCE FROM THERE YEAR GROUNDWATER CAPACITY BUILDING PROJECT.



- Appear groundwater has low priority ??
- Little technical coordination of groundwater stakeholders to make use of all available local resources, expertise and data.
- Collective action seems to be needed to secure adequate management and use for the groundwater resources
- Let this conference be a start for better collaboration, mapping, protection and management of ground waters

LEARNING FROM EACH OTHER?

IS IT NOT TIME TO LISTEN AND WORK WITH
ANOTHER?

TOGETHER WE SHOULD BE STRONGER?

THERE IS MUCH TO SHARE:

- *HARMONISE TRAINING BY SHARING DOCUMENTS, TRAINING MATERIALS BETWEEN STAKEHOLDERS*
- *SUPPORT EACH OTHER WITH EQUIPMENT*
- *HARMONISE AND EXCHANGE DATA*
- *SUPPORT AND INTERLINK TRANSPARENT PUBLISHING OF INFORMATION TO BENEFIT SETOR*
- *SHARE IT SKILLS MANY HAVE TO THOSE STAKEHOLDERS THAT STRUGGLES.*
- *SHARE EXPERIENCE PROFESSIONS AS TRAINERS*

ACTIVITY: GEOPHYSICAL INVESTIGATION



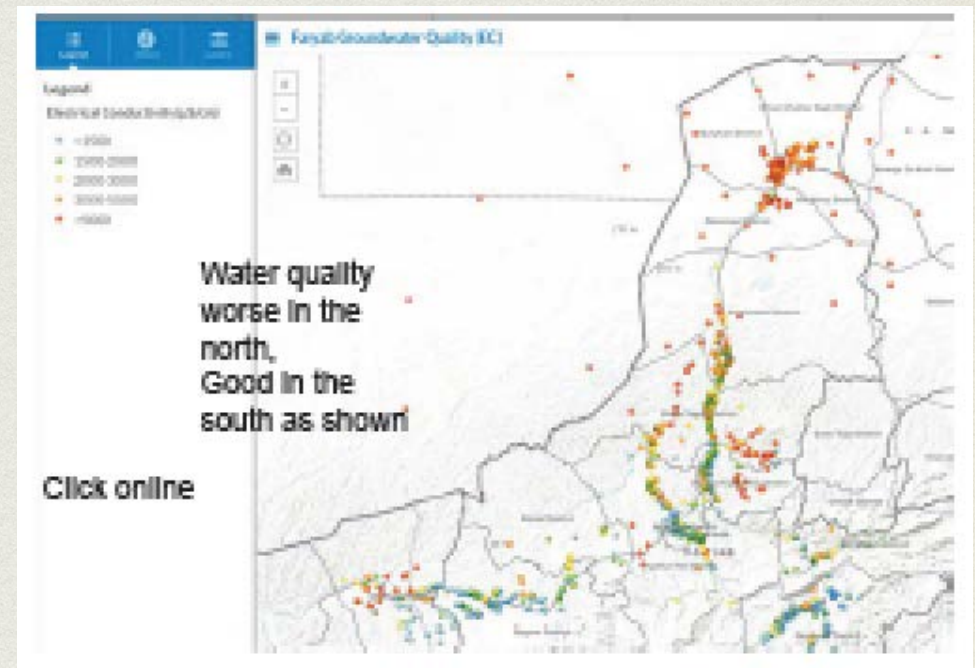
ACTIVITY: EXPLORATORY DRILLING



ACTIVITY: WATER QUALITY CONTROL



ACTIVITY: DATA ANALYSIS & REPORTING



ACTIVITY: TRAINING AND CAPACITY- BUILDING





DIFFICULT TO GET
INFORMATION

OFTEN WRONG FORMAT,



CAN THE DATA
BE TRUSTED?



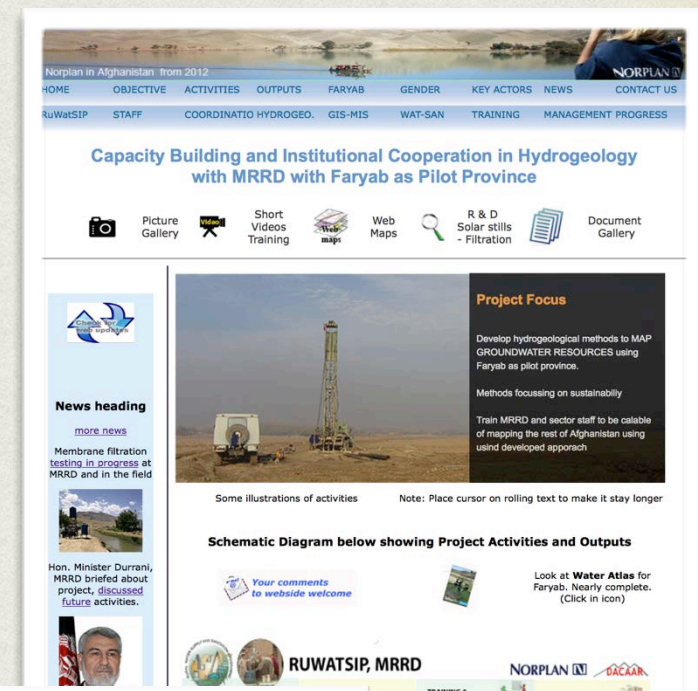
HOW CAN WE MANAGE WATER
RESOURCES IF WE DO NOT
KNOW WHAT RESOURCES
HAVE TO MANAGE??

HOW TO SHARE KNOWLEDGE?

Online
water point
information

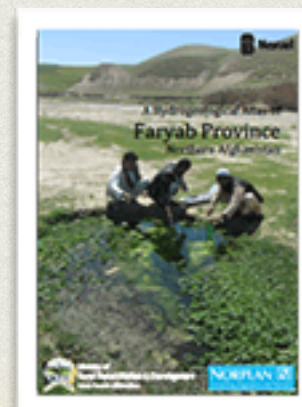


Training
programs/
materials



Books

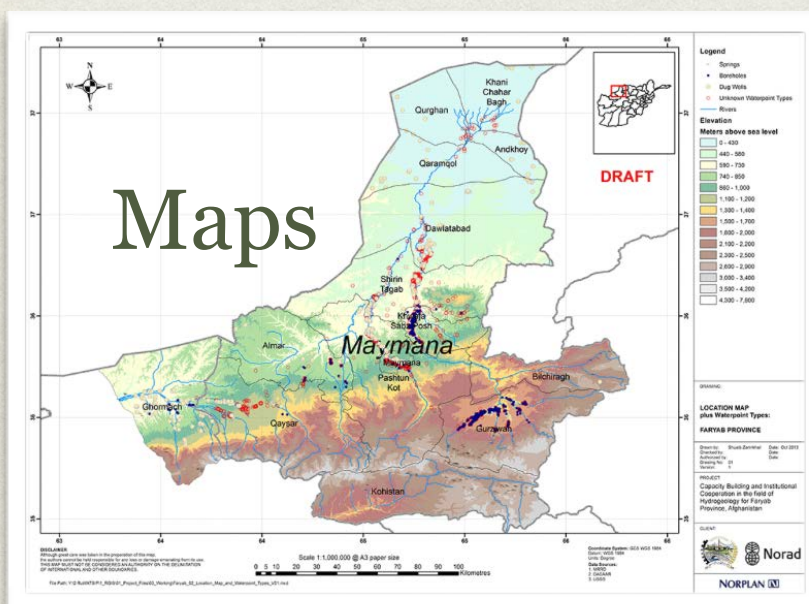
Reports



Web-
pages



Maps



SHARE INFORMATION ON INFRASTRUCTURE

Example: See where all registered waterpoint are?
Can also be used for irrigation channels, schools etc.



WHY NOT SHARE DOCUMENTS. TRAINING MATERIALS- PHOTOS?











Example

- Photos from training-
- Field reports
- Training videos
- Technical

TC 4.12 Training in MS ACCESS Database: 27th Sept-1st Oct. 2014



Field survey methods and NOTES

English	DARE	Activities planned by NORPLAN (D. Banks) while field work will be implemented by DACMAR
Click on symbol for pdf	Click on symbol for pdf	
		Precipitation survey (Rain and flow sampling. (v1))
		River Profile Survey (v3)
		Soil sampling and analysis methodologies (v3)
		Soil salinity survey (v2)
		Water Sampling Methodologies and analysis (v3)



Under construction

NOTE.

View on YOUTUBE



Geophysical



Higher resolution (slower)

Lower resolution (faster)



Higher resolution (slower)

Lower resolution (faster)



Higher resolution (slower)

Lower resolution (faster)

Quality Control for Web

Higher

Lower

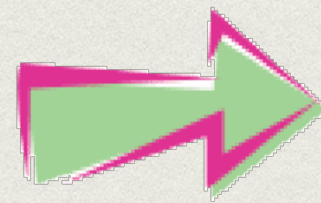
Testing SkyHydra



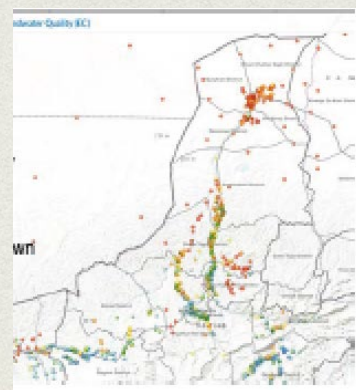
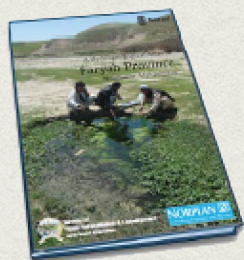
NEW TECHNOLOGY CAN HELP

- Share information.
- Better coordination
- More transparent
- Civil society can easier participate and interact in development issues
- Duplication can be reduced
- We can share documents, expertise, tools and plans better

HYDROGEOLOGICAL MAPPING?



Scaling up?



TIME FOR LEADERSHIP, PLANS AND ACTION?

- What services can ground waters provide
- What is the government priority use?
- How should be resource be mapped, managed and protected?

COORDINATION ACTION NOW?

- TIME FOR COORDINATED PLANNING
- TIME FOR TRANSPARENT INFORMATION MANAGEMENT?
- TIME FOR INVITING ALL RESOURCE ORGANIZATION FOR CONTRIBUTING TO DEVELOP NATIONAL PLANS
- TIME TO ACTIVITE A CO-ORDINATION FRAMEWORK FOR REPORTING ON GROUNDWATER STRATEGIC PLANNING PROGRESS?

**LETS MAKE AN ACTION PLAN
TOGETHER FOR A BETTER
FUTURE**



Thank you
for listening



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