

Welcome

# **Water, Peace and capacity building**

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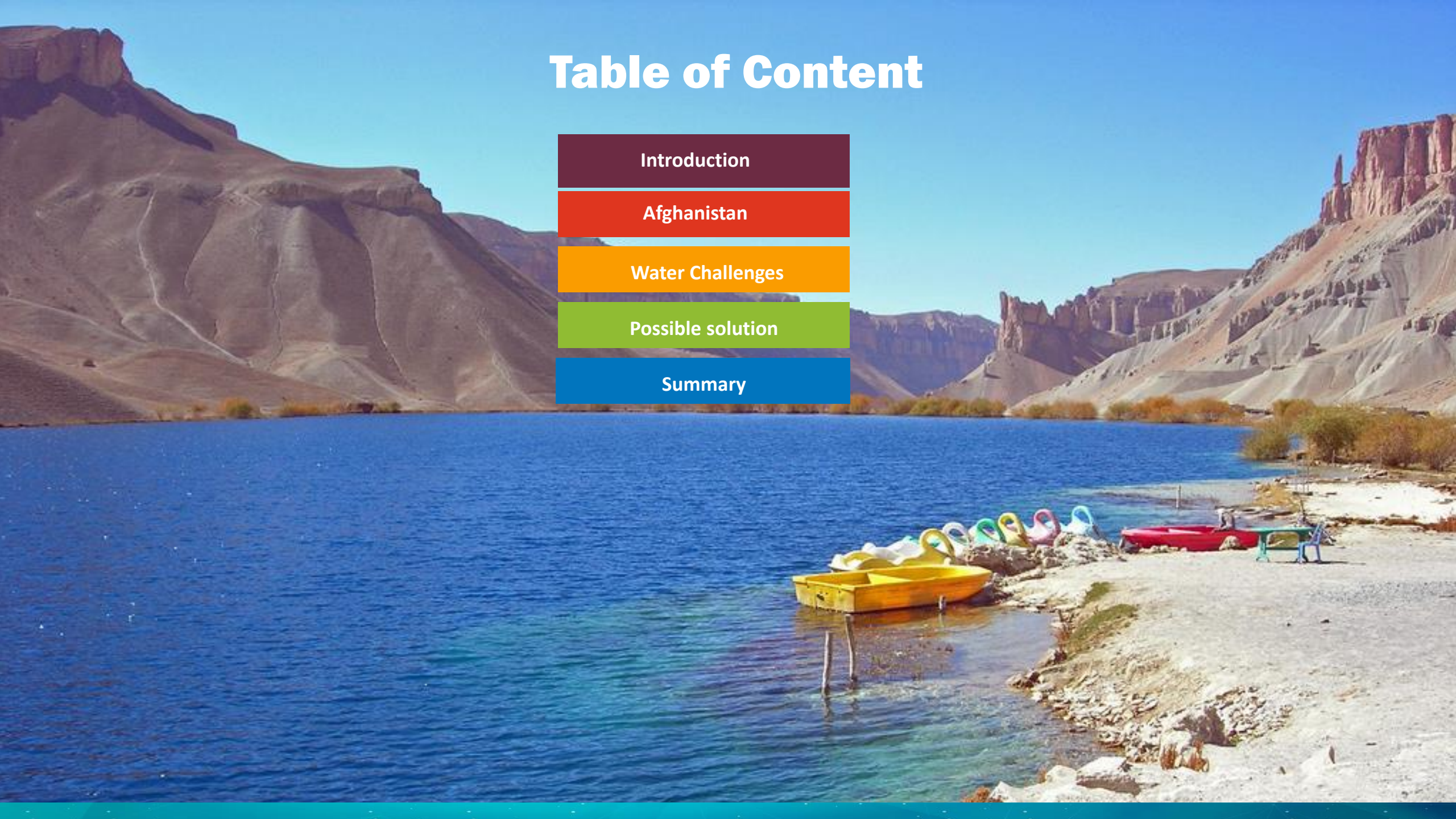
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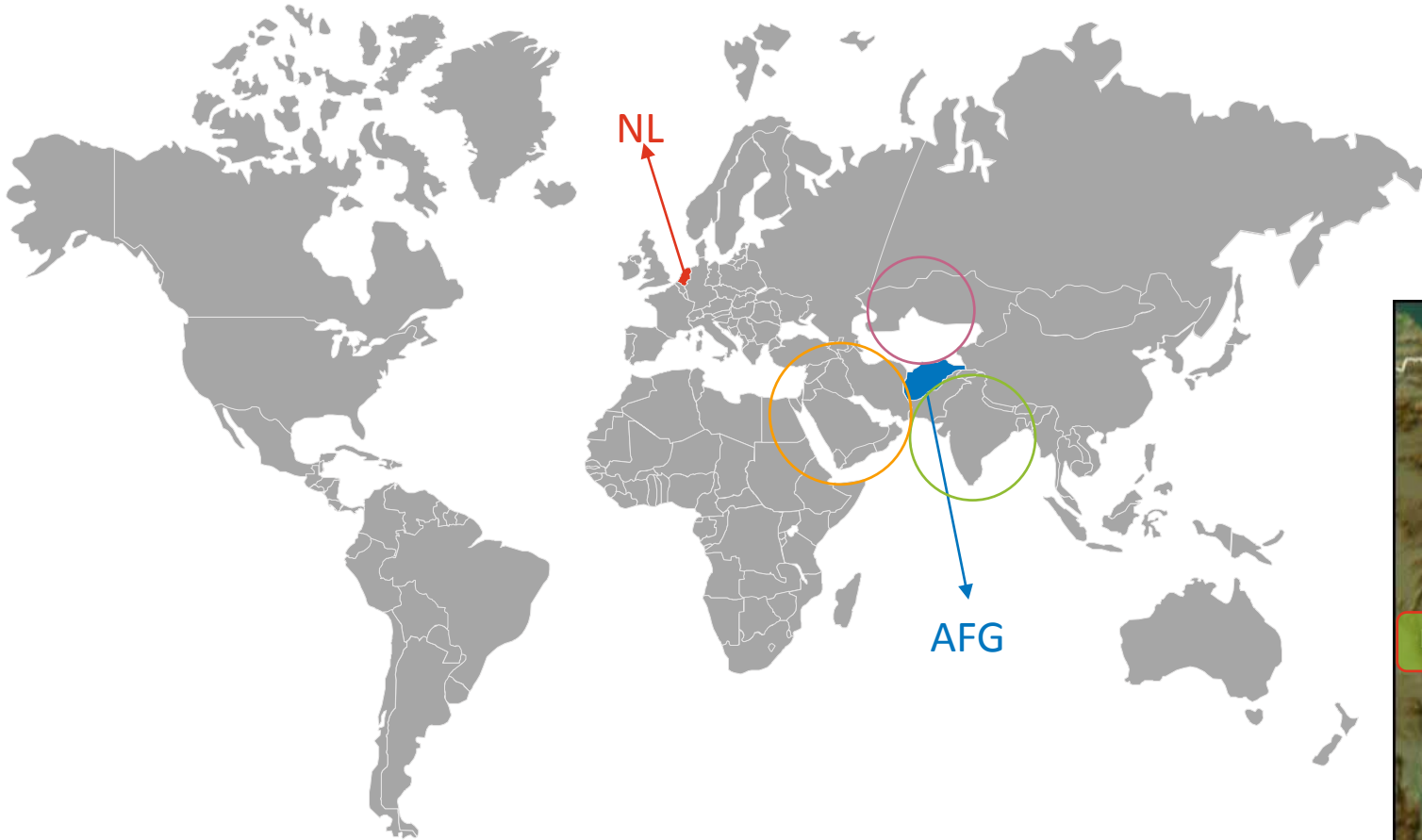
Summary





# Afghanistan

## A Short Introduction



## Location

- Landlocked country
- Strategically located
- $\frac{3}{4}$  is covered with mountain

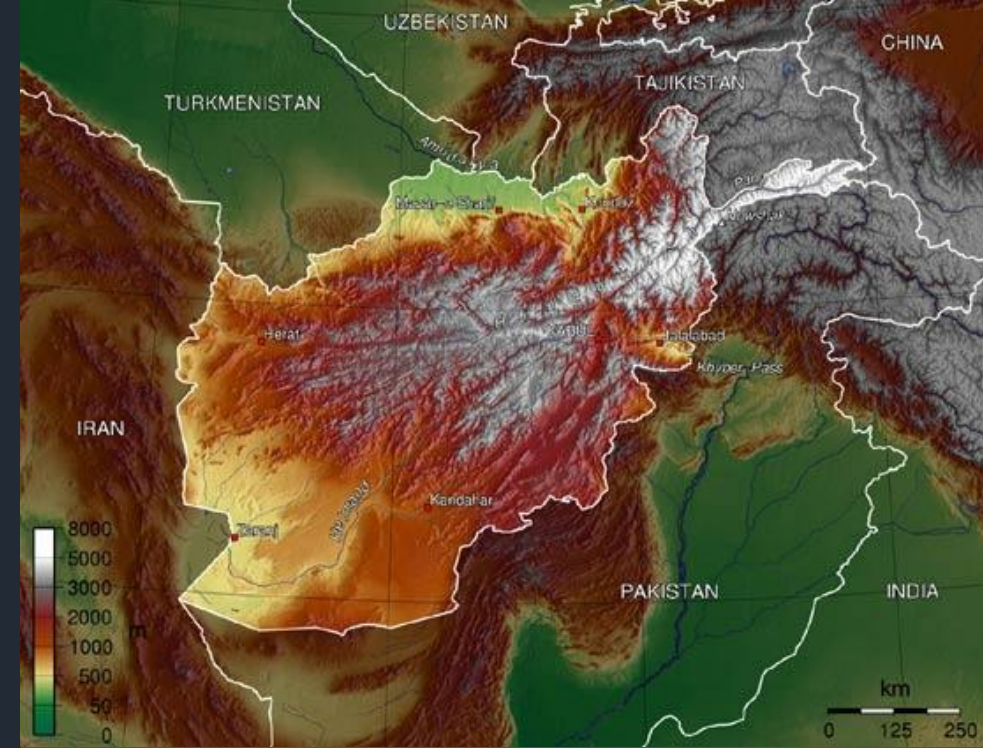


# Afghanistan

## A Short Introduction

### Mountains: source of wealth

- Hindukush: Continuation of Himalia
- Source of precious stones such as:
  - Emerald, ruby, sapphire, Lazuli (for making ornaments)
  - Uranium, Lithium (Arabia of Uranium and Lithium)
- Main source of water (80%) in the summer and winter



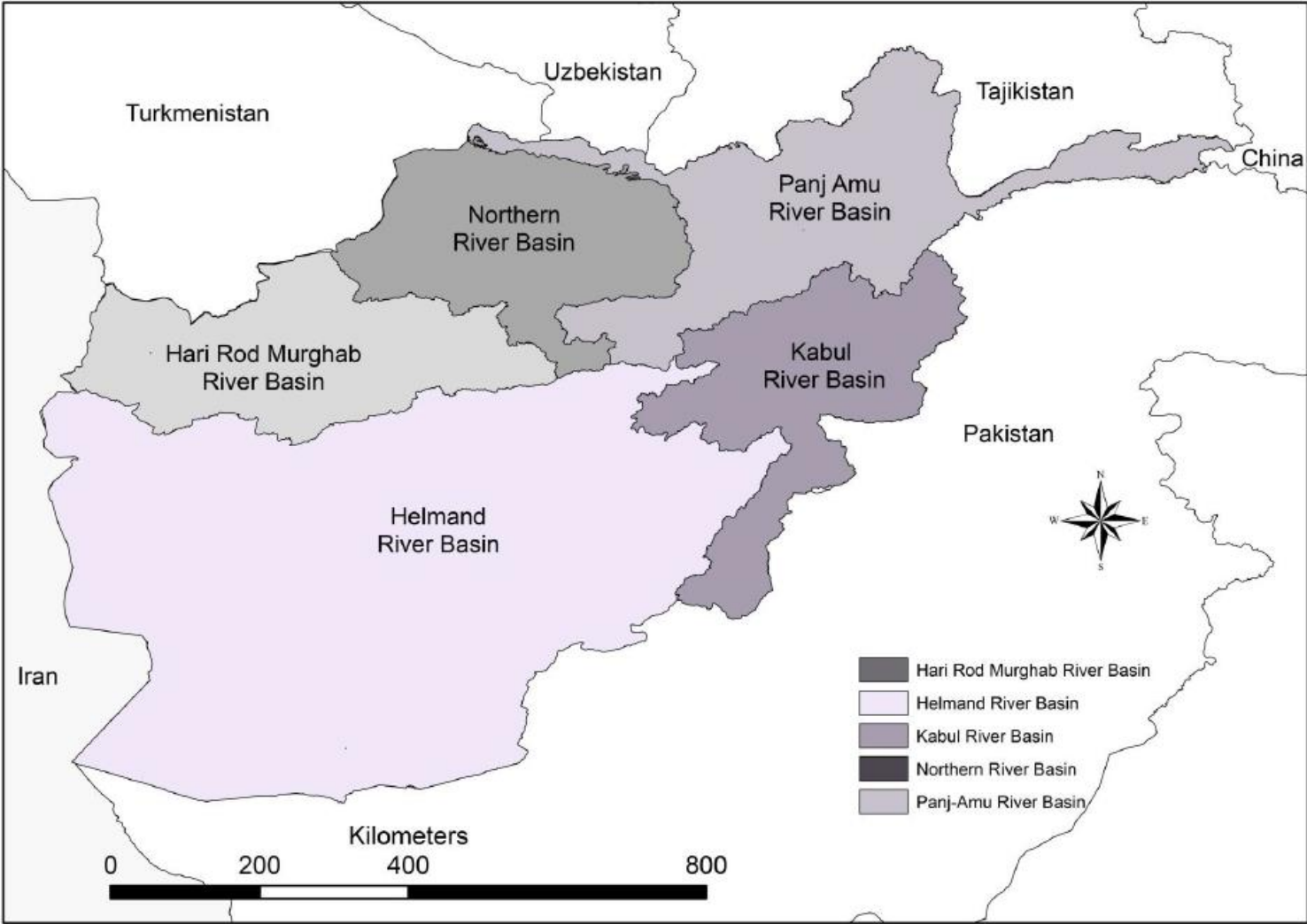


# Water in Afghanistan

A very short summary

River Basins in Afghanistan

Name of River Basin	Biggest river	Important stakeholder(s)
Kabul	Kabul	Pakistan
Helmand	Helmand	Iran
Hari_road (Hari river)	Hari_road	Iran / Turkmenistan
Shomali (Northen)	Shomali	-
Amu Darya (Amu River)	Amu Darya	Tajikistan, Uzbekistan, and Turkmenistan



# Water Challenges

- National Challenges
  - Rural area
  - Urban area
- International challenge and the role of neighbouring countries





# Water Challenges

## Rural Area Challenges

80% of people living in Rural area

90% of poor living in Rural area

Agriculture:

- Accounts about  $\frac{1}{4}$  of GDP (excluding opium Poppy)
- Afghanistan has much bigger capacity for agriculture
  - Security: A part is in occupation of poppy fields
  - Technical support: Not intensive use of the land
  - Urbanization: A part is not in used due to immigration to cities



# Water Challenges

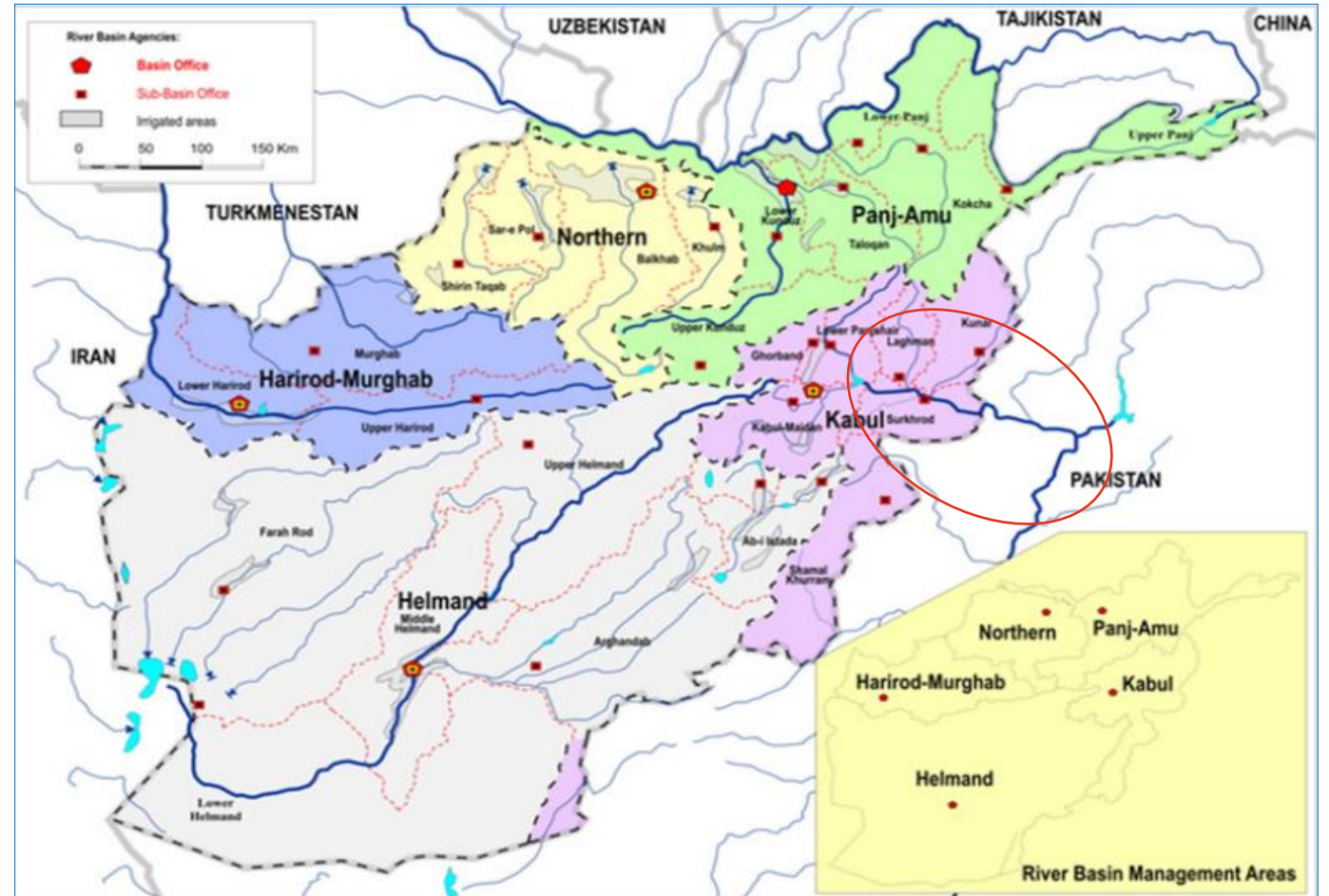
## Urban Area Challenges

- The urban population increases rapidly (14% between 1999-2010)
- Immigration from urban area mainly due to water shortage
- Effect of rapid urbanization:
  - Exporter to importer
  - No central water treatment facilities
  - Rapid decrease of water table
    - Social impact and unfair distribution of water
    - Declined water quality
    - Impact on structures and buildings
    - Environmental impact (plants)



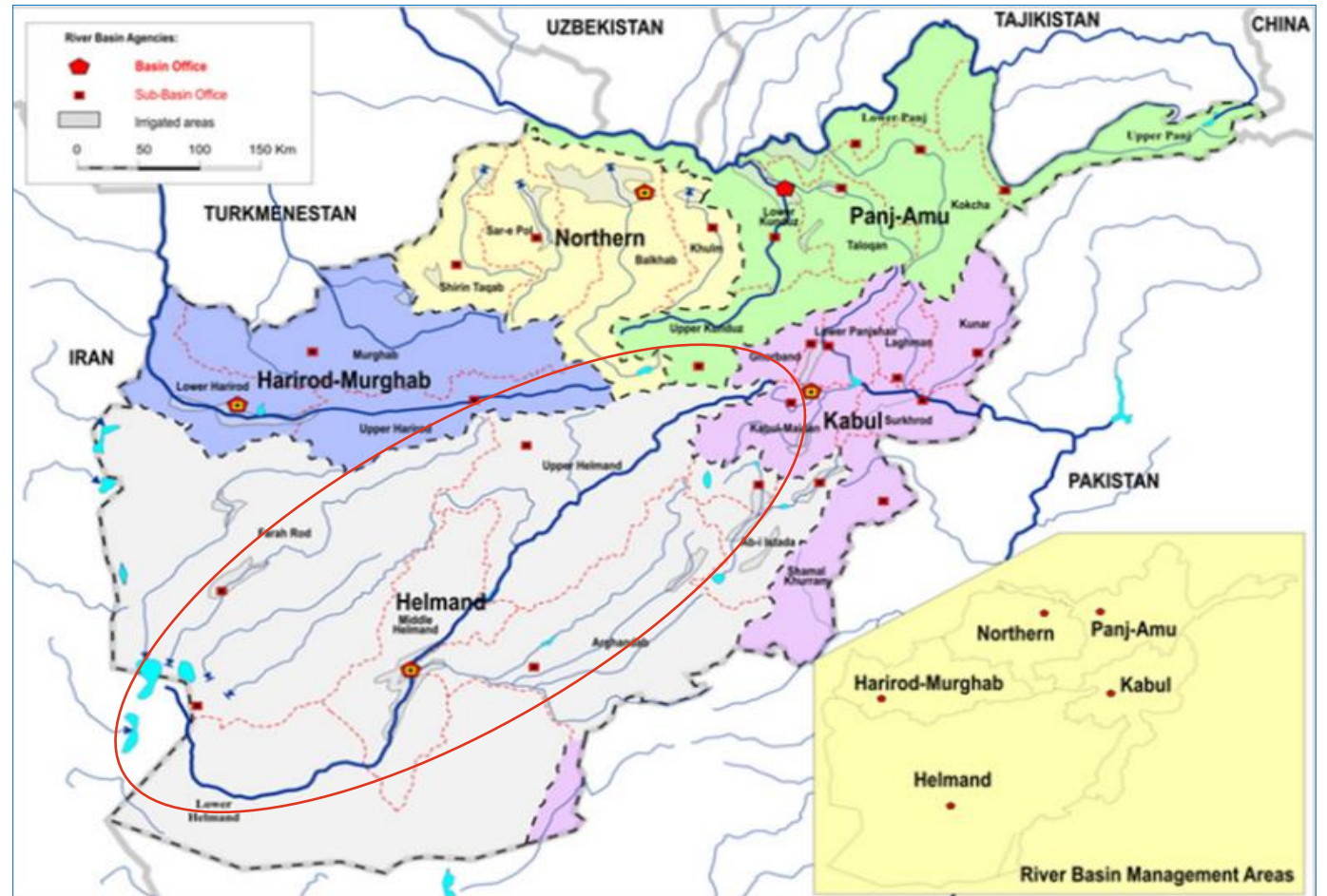
# International Challenges

- Magic of Kabul River
  - Several hydropower dams: such as Sorobi and Naghlo



# International Challenges

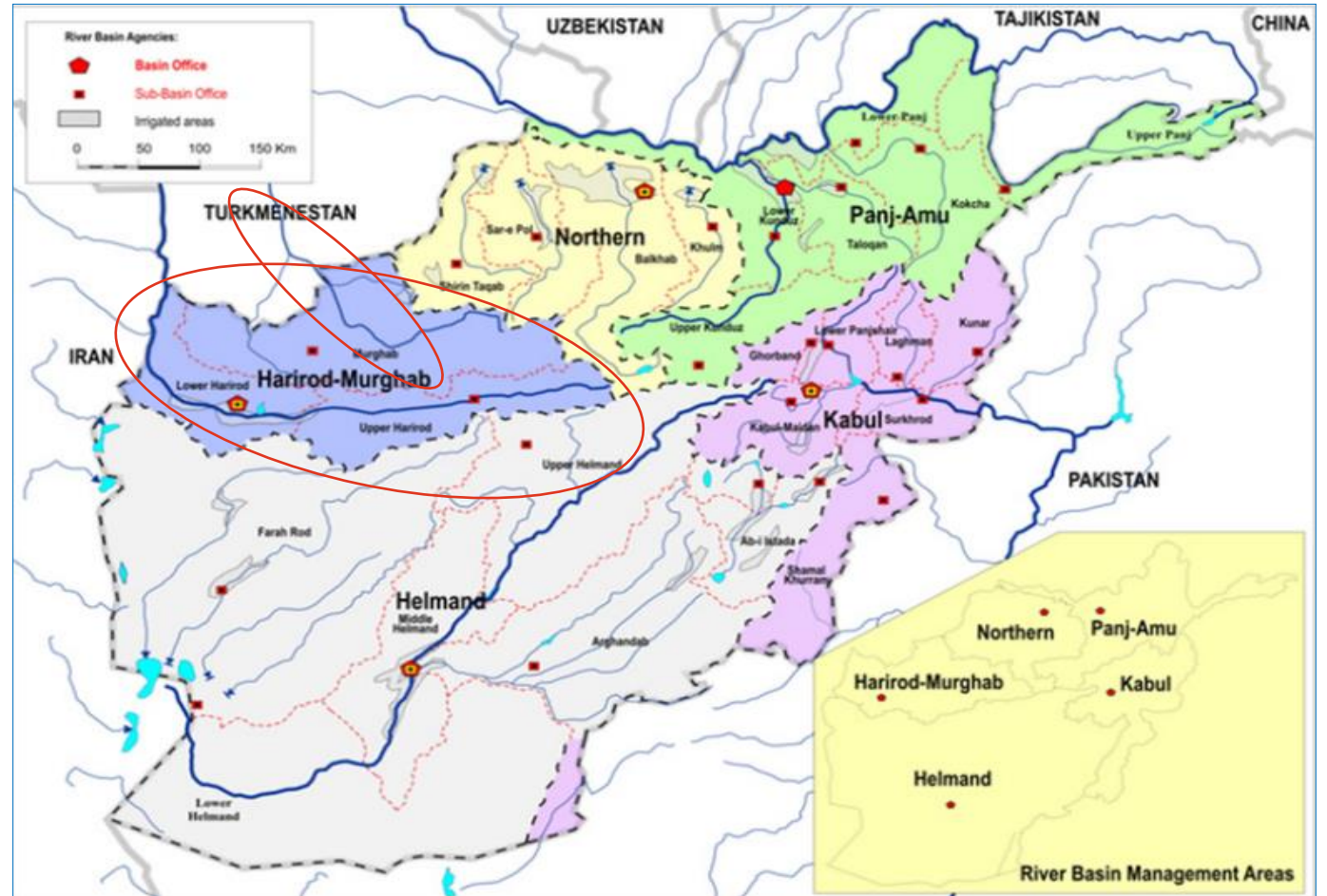
- Magic of Kabul River
  - Several hydropower dams: such as Sorobi and Naghlo
- Only international agreement
  - Helmand River





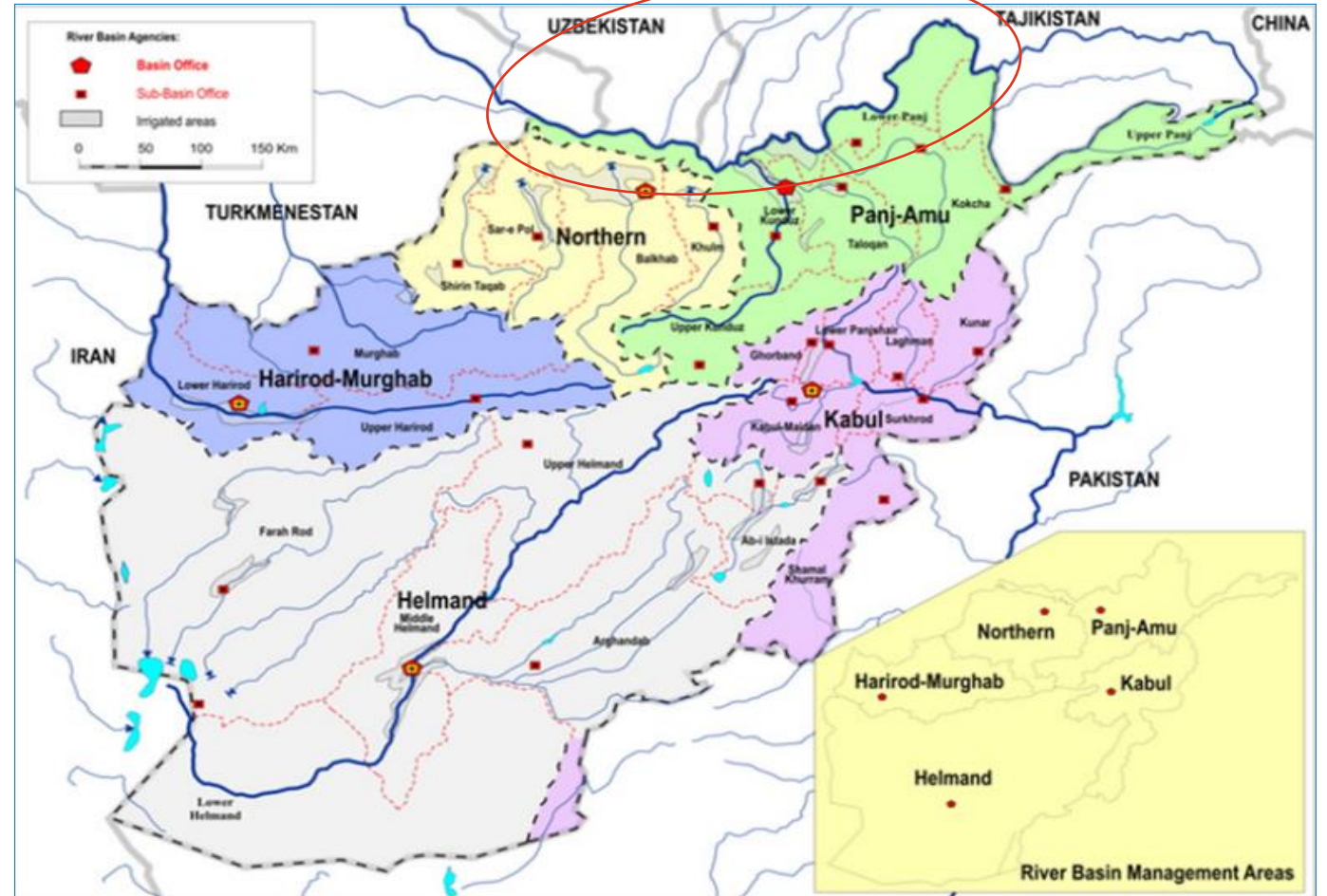
# International Challenges

- Magic of Kabul River
  - Several hydropower dams: such as Sorobi and Naghlo
- Only international agreement
  - Helmand River
- Silent diplomacy
  - Salma dam (Hari River)
    - Iran and Turkmenistan
    - Pakistan



# Amu River

- Magic of Kabul River
  - Several hydropower dams: such as Sorobi and Naghlo
- Only international agreement
  - Helmand River
- Silent diplomacy
  - Salma dam (Hari River)
    - Iran and Turkmenistan
    - Pakistan
  - Amu Darya
    - 22% vs 6%
    - Changing of river basin
      - New islands

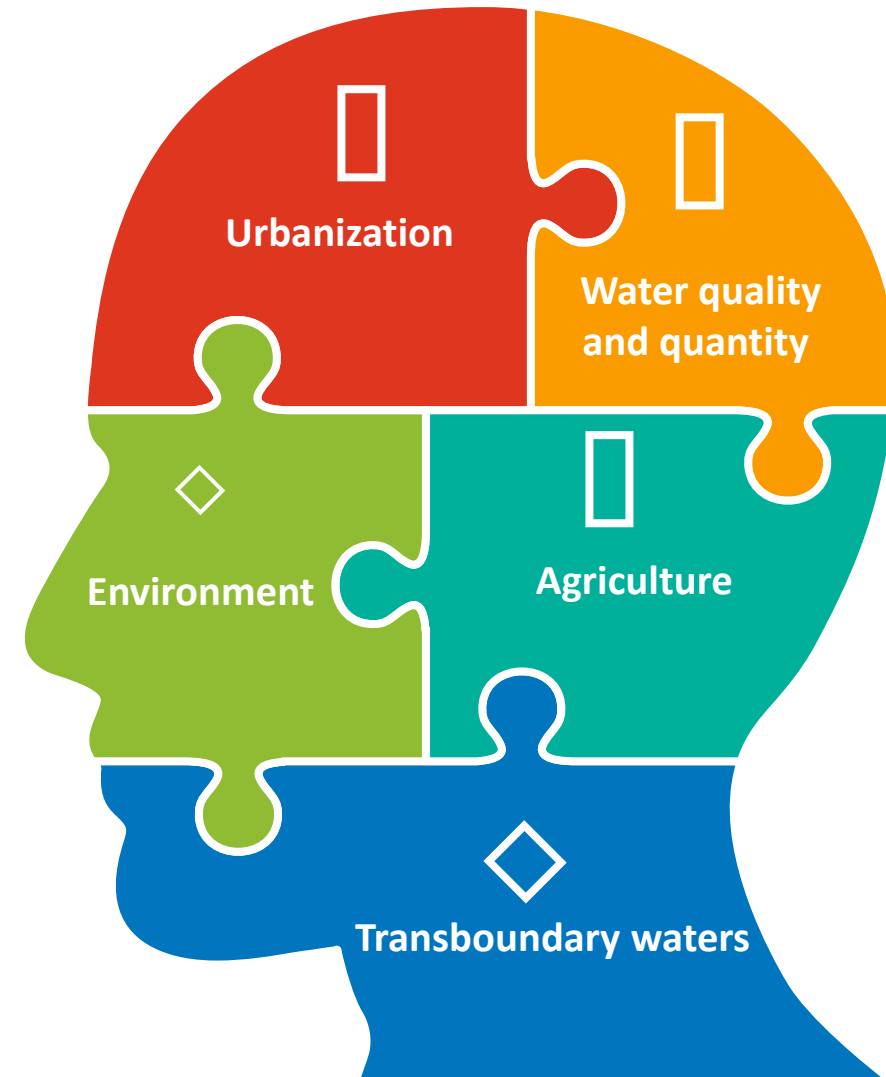




# Summary and conclusions

give a man a fish and you feed him for a day; teach a man to fish and you feed him for a lifetime

- The same situation is in Tajikistan
- While there is enough water available in upstream countries (Afghanistan and Tajikistan), people suffer from water scarcity
- The future peace in area depends on a transparent legal discourse about water
- Such discourse requires enhancement of capacity building particularly in legal and technical matters related to water



# Summary and conclusions

give a man a fish and you feed him for a day; teach a man to fish and you feed him for a lifetime

## International help

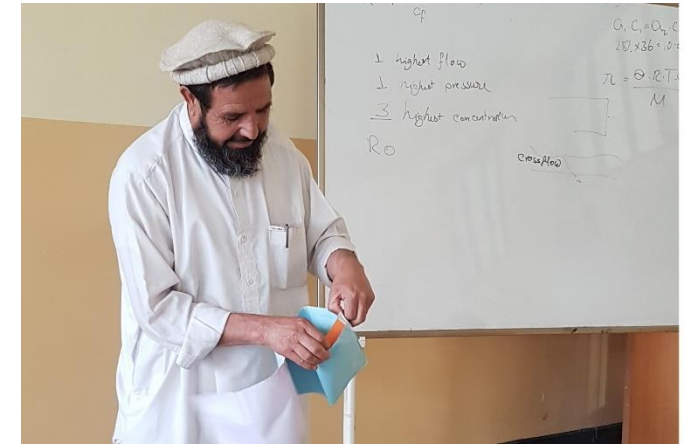
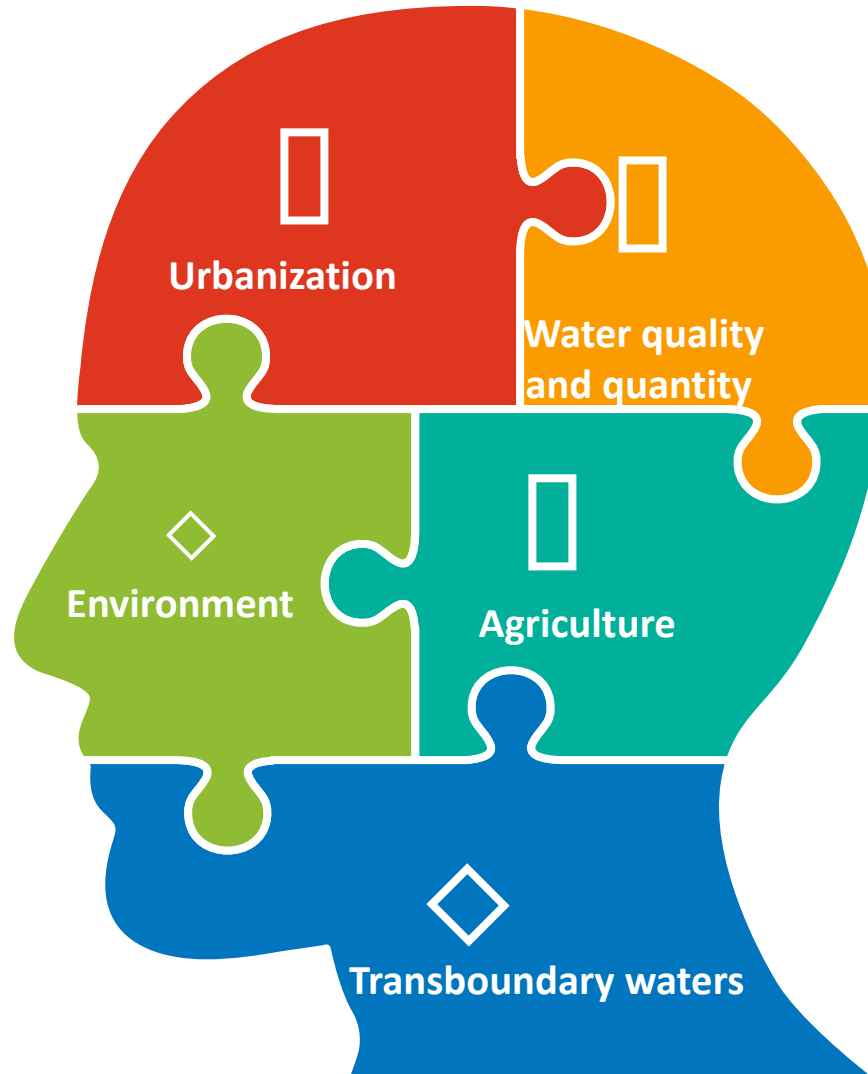
- Top country in water management, sanitary and environmental engineering
- Second top exporter of Agriculture in the world
- Role of high educated immigrants

## Short term solution

- Short courses, workshops and Internships
- PDEng and PhD students

## Long term approach

- Regional water research institute
- National water research institute





# Thank you for you attention

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