



# The 7th World Water Forum

12-17 April 2015, Daegu-Gyeongbuk, KOREA



Thematic Process 4.5: Enhancing Education and Capacity Building

## 4.5.4 “Facing the changes in due time: Specific training for basin organizations”

**Mr Mustafa SARIKAYA**  
**SUEN - Turkish Water Institute**

Thursday 16 April, 14h40-16h40 Daegu EXCO, DEC\_307 – 3F – Room 321



TURKISH WATER INSTITUTE  
**SUEN**  
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Session 4.5.4:

Facing the changes in due time:  
Specific training of staffs and stakeholders of basin  
organizations is a prerequisite!

**Daegu / ROK**

# FROM 5TH WORLD WATER FORUM SECRETARIAT TO SUEN

TURKISH WATER INSTITUTE  
**SUEN**  
TÜRKİYE SU ENSTİTÜSÜ



## FROM 5<sup>TH</sup> WORLD WATER FORUM TO A RESEARCH INSTITUTE

- The great success of the Forum which hosted more than 30,000 participants from 192 countries, awarded Turkey a new status, as a country with an important principal voice on water on a global scale.
- The multifaceted knowledge gained by this forum became the basis of SUEN.

## WHO WE ARE

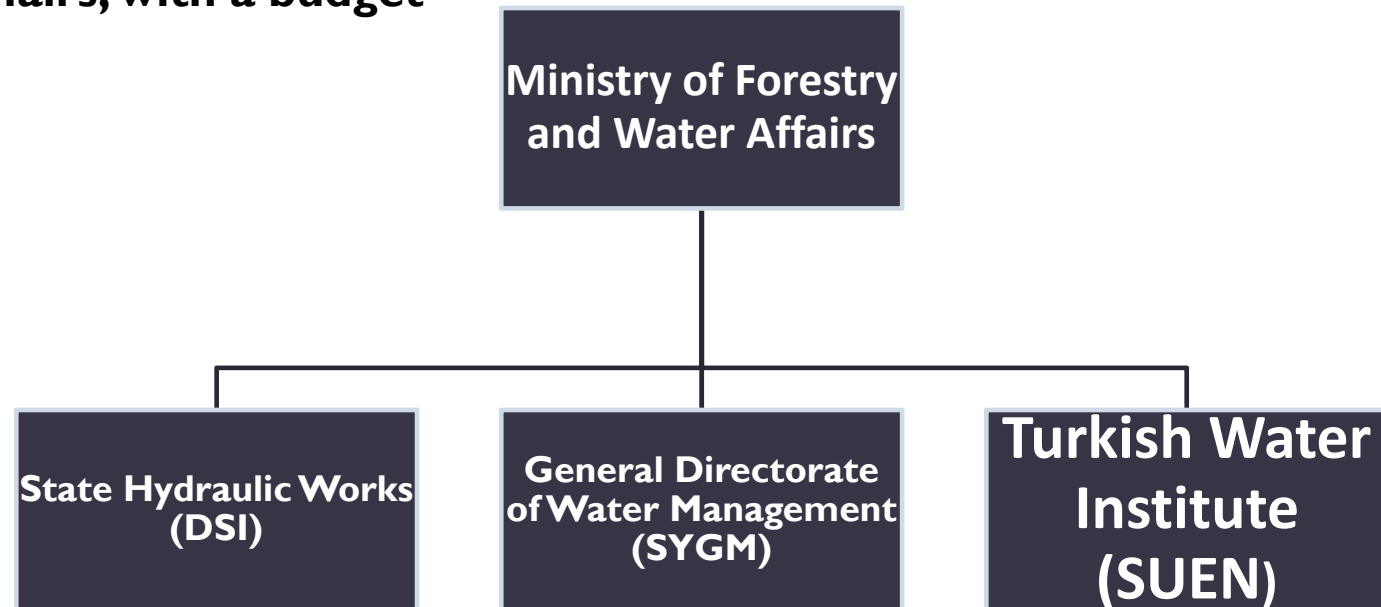


- SUEN was established on **2 November 2011** (decree law 658 published in Official Gazette ) as a special funded entity under the authority of Ministry of Forestry and Water Affairs.
- SUEN can be defined as a **think tank** that aims to develop short- and long-term strategies, national policies for good governance of water.
- SUEN works in close collaboration with national and international organizations on sustainable water management, development of water policies, sustainable energy issues and capacity building for the solution of local and global water problems.

# THE MINISTRY OF FORESTRY WATER AFFAIRS OF TURKEY



- **SUEN** is established under the authority of **Ministry of Forestry and Water Affairs**, with a budget of its own.



# SUEN'S ROLE IN TURKEY'S WATER MANAGEMENT



- **Conduct and support scientific research to develop national and international water policies.**
- **Collaborate with national and international organizations and follow the recent developments through the studies, knowledge production and statistical activities.**
- **Organize national and international training programs.**
- **Contribute to national and international forums, conferences, meetings, seminars, symposiums, training programs.**
- **Carry out activities to enable cooperation among national and international water sectors and to collaborate in projects with institutions and persons distinguished in the water sphere.**

# WHAT WE DO

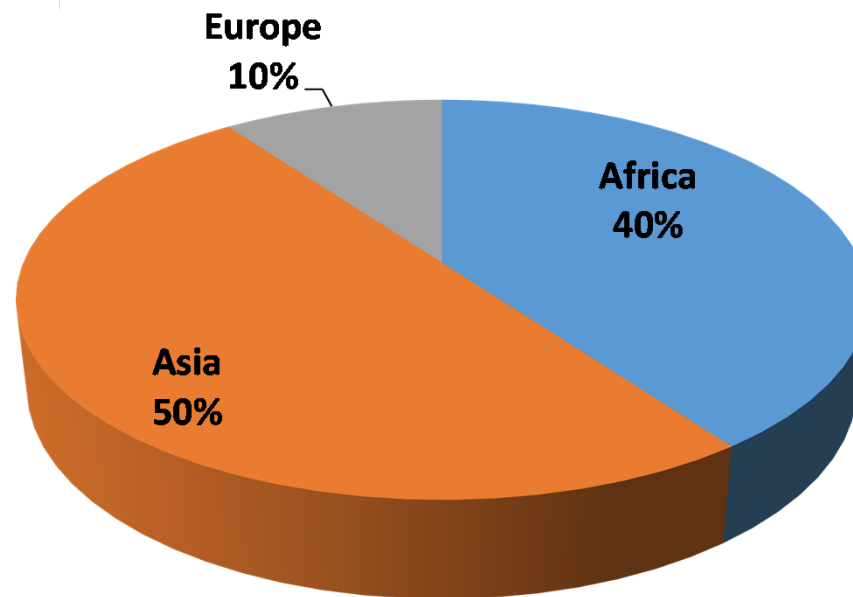


Research and Thinking	Education and Training	Organisation	Consultancy	Collaboration
Transboundary Waters Water-Food Water-Energy Climate Change Improving Water Quality Right to Water Legal Aspects ...	Trainings in Water and Sanitation  Seminars	Istanbul International Water Fora	Plant design (Ergene Basin)	INBO D-8 OIC ICID IWRA World Water Council WatEur GWOPA ...

## TRAINING PROGRAMS BY SUEN

- SUEN delivered many training to various countries in different topics.

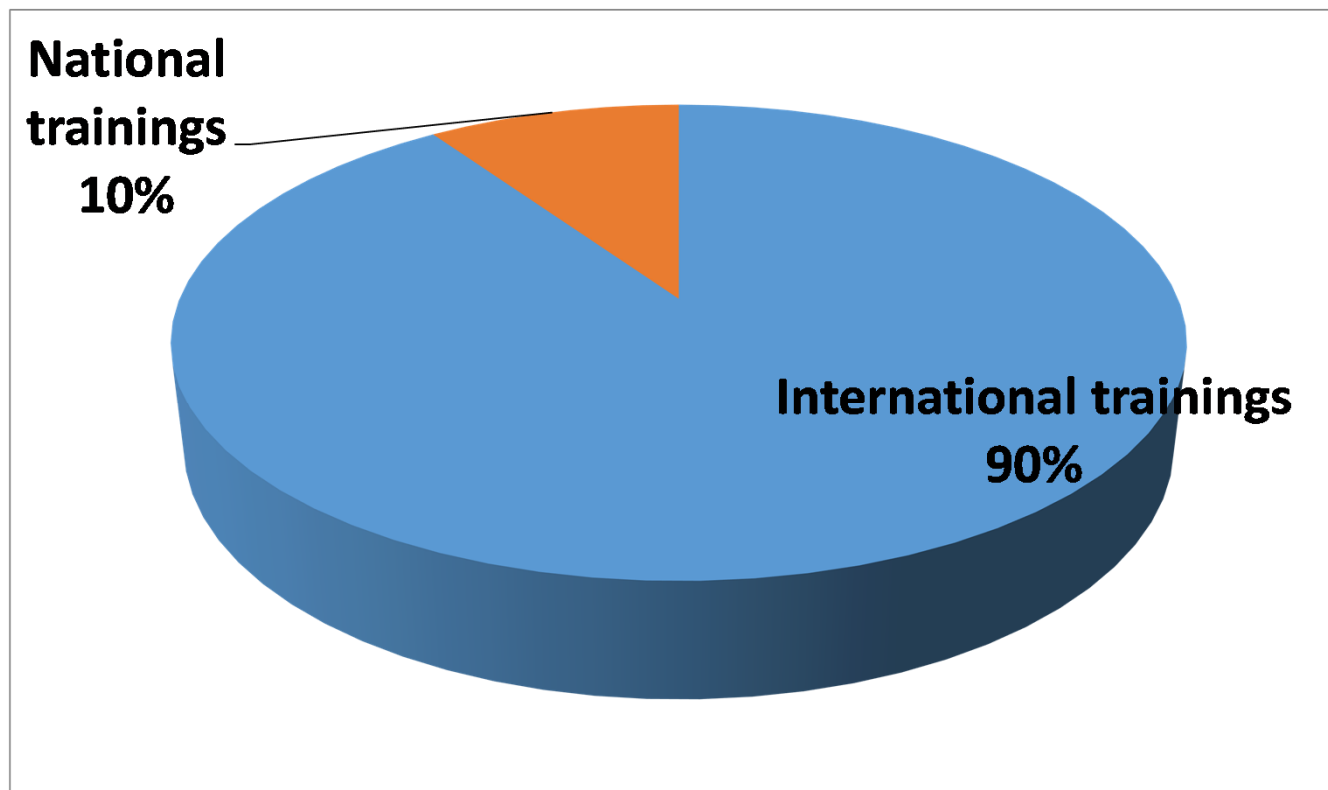
**Portions of the trainings per continents**





## TRAINING PROGRAMS BY SUEN

- More than 500 participants were trained



## WATER CONSERVATION

- ❑ There are 3 pillars for effective water conservation:
  - Technology – Water saving technologies
  - Economy – Rationale water tariffs
  - Training – Public and stakeholder participation



# PREPARATION OF RIVER BASIN MANAGEMENT PLANS

❑ PUBLIC AWARENESS RAISING

❑ STAKEHOLDER PARTICIPATION

❑ CAPACITY BUILDING AND TRAINING

- Needed for successful implementation of the River Basin Management Plans (RBMP)



# TRAINING AREAS

- Training is needed for:
  - Monitoring water quantity and quality
  - Monitoring of ecological status
  - Master planning (Program of measures – the economics)
  - Modelling use of the existing and developed models
  - Operation of treatment plants
  - Good agricultural and industrial practice
  - Etc.



## TARGET GROUPS

- Ministries (central government)
- Local governments (municipalities)
- Water and Wastewater Agencies/Operators
- Industry
- Farmers
- NGO's



# CAPACITY BUILDING PROCESS



## APPROACH OF TRAINING

- Tailor-made – customized to the prior needs with practical and feasible solutions
  - The most advanced solution not always the optimal solution
- Create environment for continuous peer-to-peer knowledge exchange,
  - Global network with local ownership
- Study visits (hands-on demonstration) a must
- Phasing the training

# TRAINING PHASING

## INTRODUCTORY TRAINING & ORIENTATION

- The overall goal is to introduce best practices in water operators
- Acquaint w related fields

## VOCATIONAL TRAINING

- This training concerns a training related to participants' occupations
- e.g. Water treatment principles

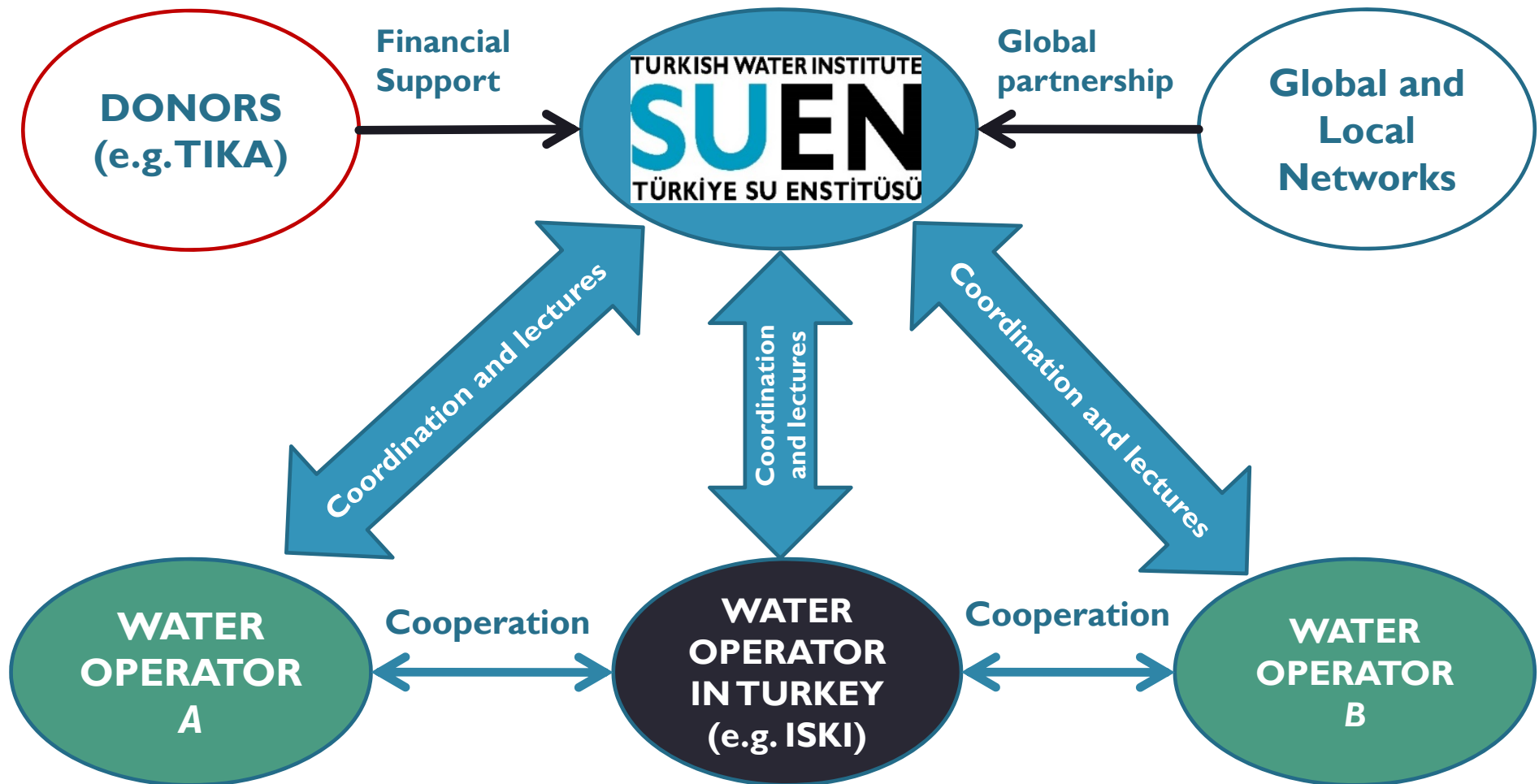
## EXPERTISE TRAINING

- A detailed training on specific topic
- e.g. Sludge stabilization

In line with the  
T-shaped Competency  
Profile applied by  
UNESCO-IHE

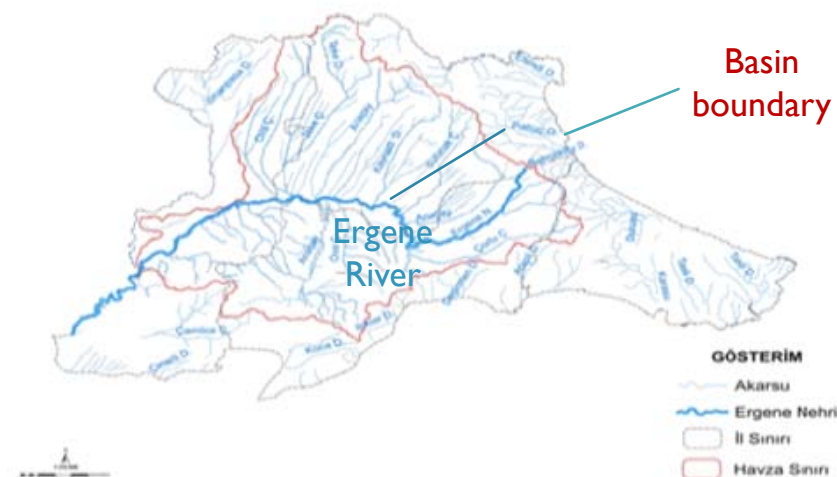


# NETWORKING IN TRAININGS



## CASE: ERGENE BASIN (TURKEY)

- One of the main tributaries of the **Maritza River**
- **Transboundary river basin** between Turkey, Bulgaria & Greece
- Springs out from Strandja Mountains and links with **Maritza (Meric) River** flowing to Gulf of Saros. The whole length of Ergene River is 238 km and its basin has 11.000 km<sup>2</sup>.
- The water potential of Ergene River is 1.7 billion m<sup>3</sup>/yr.



# THE NEW PERSPECTIVE OF TURKEY: RIVER BASIN MANAGEMENT

Our Ministry has prepared a Basin Protection Action Plan for the Ergene Basin, where there is intensive residential and industrial development.

- In this basin, where 230.000 m<sup>3</sup> of domestic wastewater per day is discharged into the Ergene River, domestic and industrial wastewater treatment plants are constructed and the river bed is rehabilitated.
- 12 new advanced wastewater treatment plants in the region





## CASE: AZERSU

- **An extensive training program was carried out in 2012 and 2013 involving 240 personnel of Azersu JSC.**
- **The goal was to build the capacity of the young engineers and experts.**



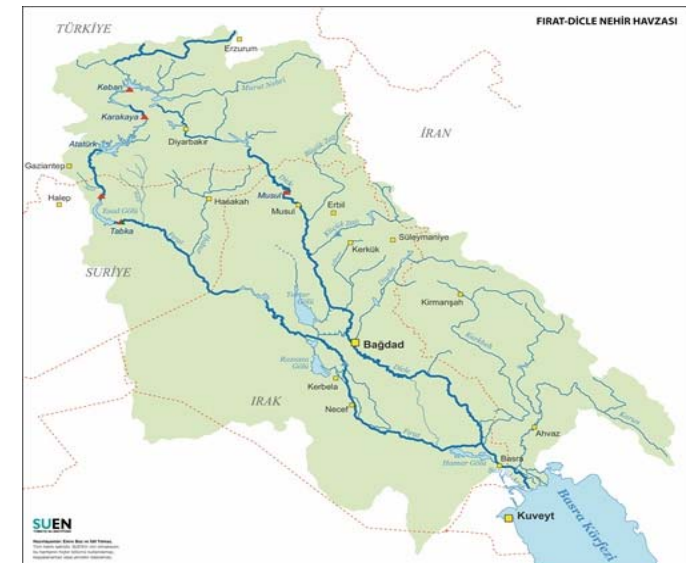
## CASE: AFRICA

- **By means of financial support by the Turkish Cooperation and Coordination Agency (TIKA) training programs are organized for African countries.**
- **Joint courses were organized facilitating interaction**



## CASE: EUPHRATES-TIGRIS BASIN (IRAQ)

- **As per a recently signed protocol, there will training and knowledge transfer programs organized**
- **Exchange of knowledge as the best way to get nations closer → trust-building**



## CONCLUSIONS

- Ensuring the technical and financial self-sufficiency of a River Basin crucial
- A governmental water training center «such as SUEN» as facilitator/coordinator has proven to be successful to fill the gaps in capacity development
- No one-size-fits-for-all approach for a capacity building program → analyzing/benchmarking the needs and tailoring thereto crucial



## CONCLUSIONS

- Relatively small-scale training centers like SUEN can also great added value
- Training programs as the best way to build trust
- **Firm training centres/institutions and strong networks imperative in solving global water issues.**





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**THANK YOU.**  
**감사합니다.**

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