

Türkiye's national policy regarding ecological security at the basin level

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PRESENTATION BRIEF

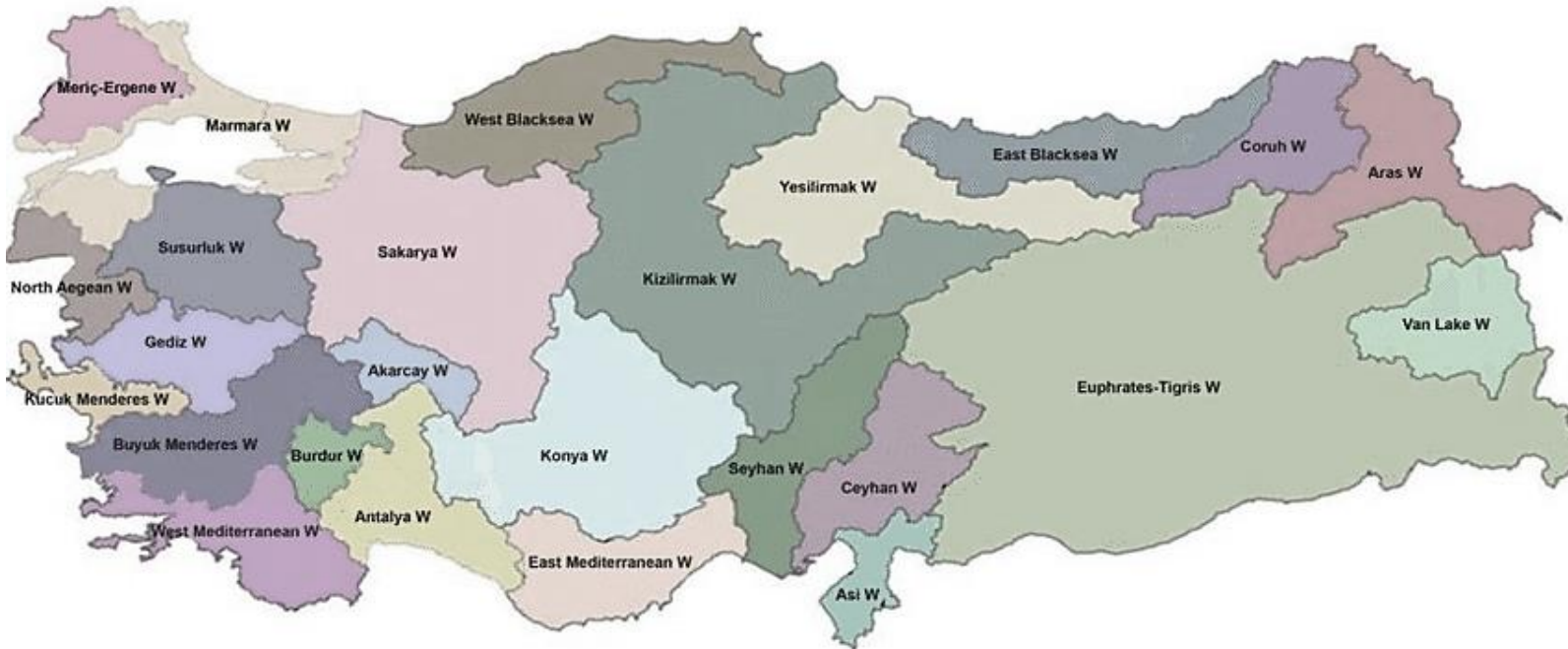
- Session number: Basin Segment Day-High level session on Better integration of ecological security in basin level approaches
- Name of presenter: Prof. Dr. Lütfi AKCA (President)
- Institution: Turkish Water Institute (SUEN)
- Key phrases:
 - River Basin Management Plans of Türkiye
 - Identification of Sensitive Water Bodies
 - Ecosystem Based Water Quality Monitoring
 - Environmental Flow and Fish Passes

Harmonization with EU Directives

- Türkiye initiated the harmonization and implementation of the European Union Water Framework Directive (WFD) to its national legislation in 2005.
- Water policy in Türkiye is aiming to achieve ecological and chemical "good status" in all water bodies in line with the EU WFD.
- The Regulation on Surface Water Quality harmonizes Türkiye's legislation on surface water quality and classification with EU directives, adapting them to the country's specific conditions.



River Basin Management Plans



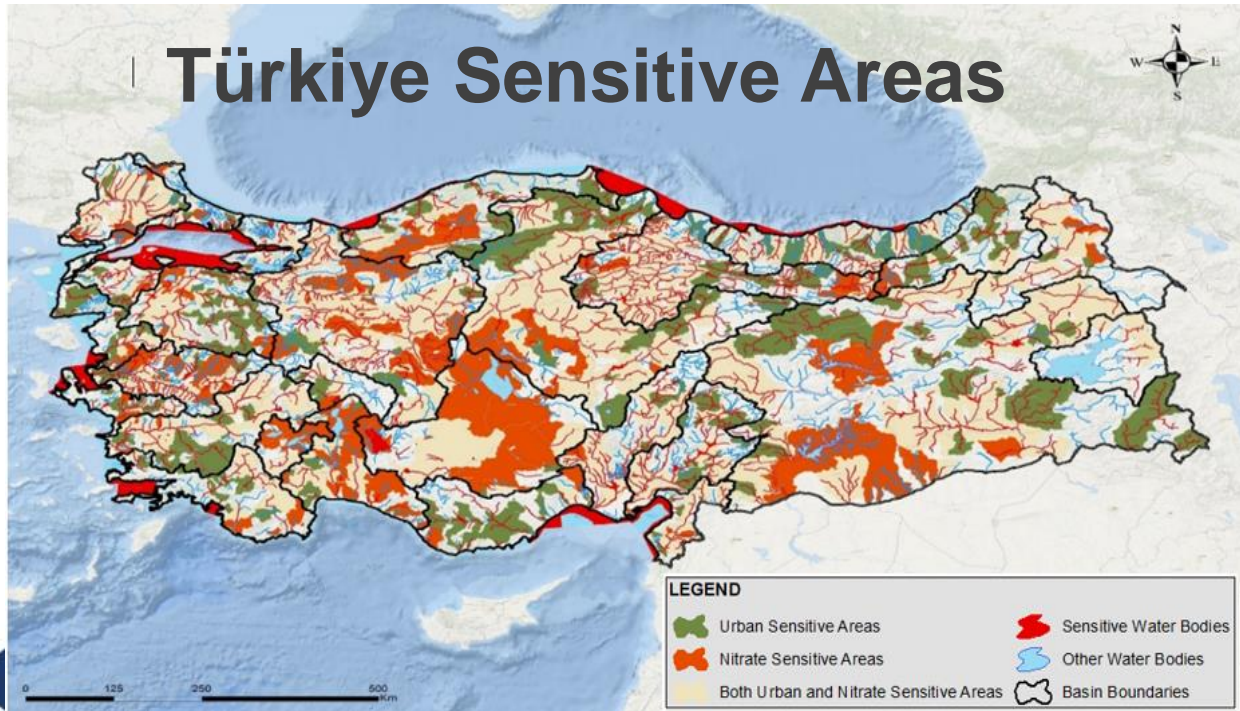
- Environmental Quality Standards
- Ecological and chemical "good status" for:
 - The human health
 - Ecosystem safety

The 12 (twelve) River Basin Management Plans are in effect and the remaining 13 (thirteen) are in progress.

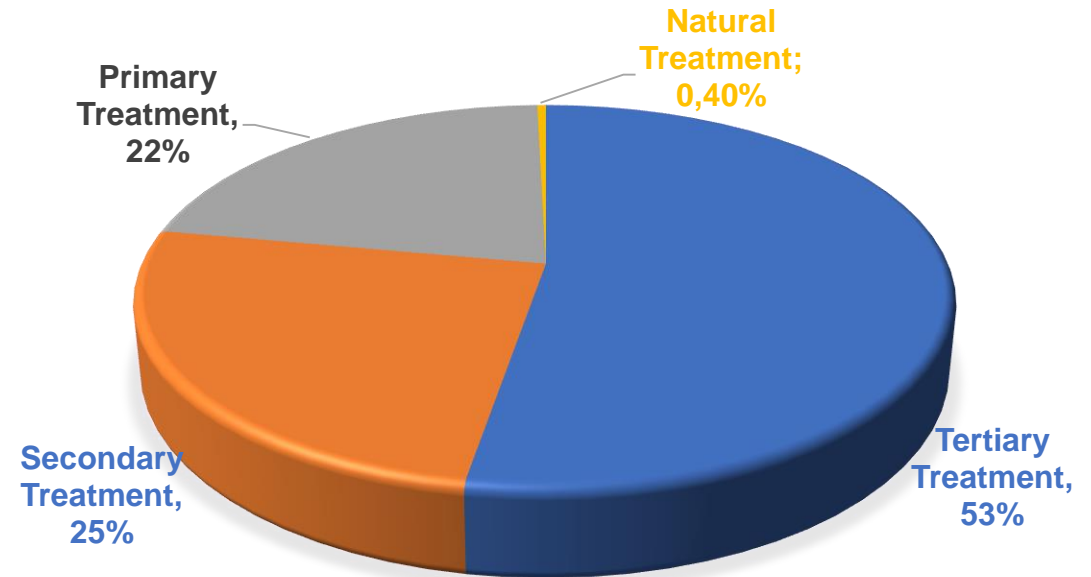


Determination of Sensitive Areas

A total of **875** urban sensitive areas
A total of **844** nitrate sensitive areas



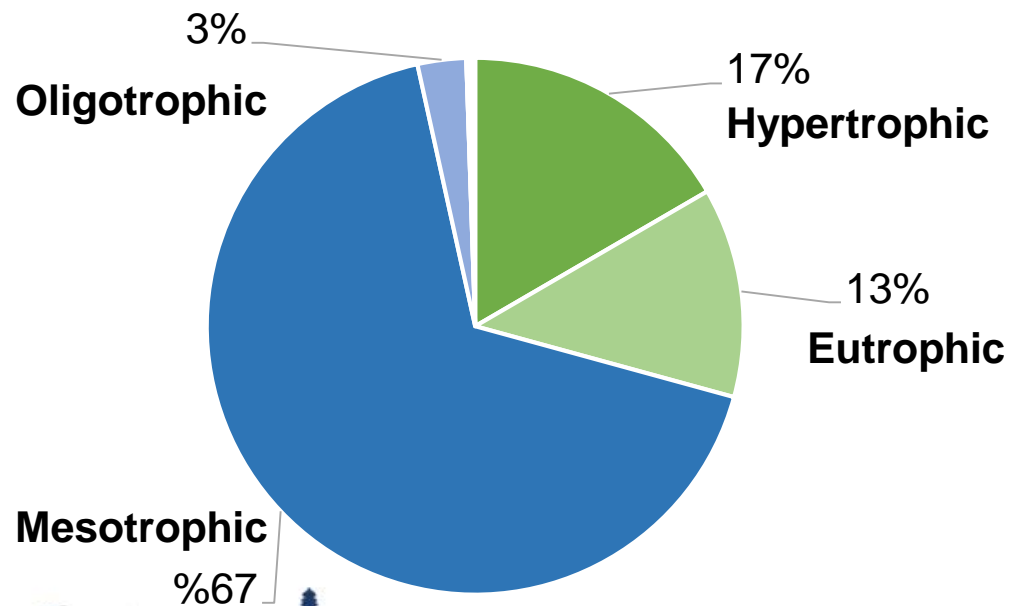
- Urban sensitive areas**
- Nitrogen and phosphorus parameters added to the **Urban Wastewater Treatment Regulation** as discharge standards.
- Nitrate sensitive areas**
- Good agricultural practices



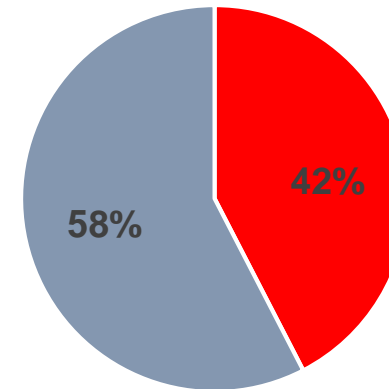
WWTP to population

Determination of Assimilative Capacity of Stagnant Waters and Improvement of Water Quality

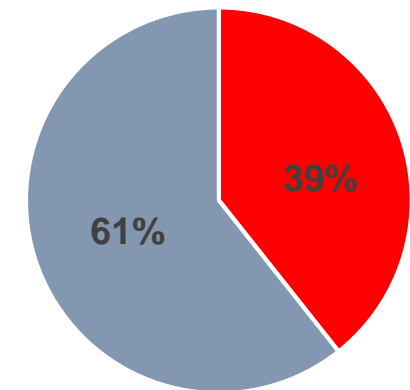
Eutrophication Status of Stagnant Waters



Assimilation capacity- TP (ton/y)



Assimilation capacity- TN (ton/y)



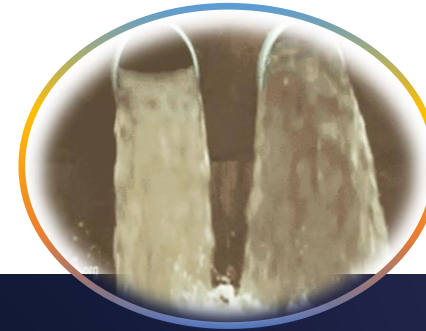
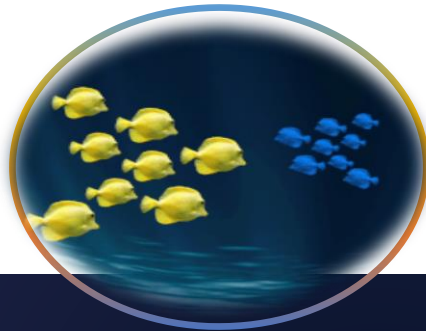
■ Not - exceeded
■ Exceeded



Ecosystem Based Integrated Water Quality Monitoring Studies



Protecting the quality and quantity of water resources



MONITORING

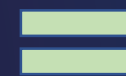
ECOLOGICAL STATUS

- Hydromorphological Quality Elements
- Biological Quality Elements
- Environmental Flow



CHEMICAL STATUS

- Physicochemical Parameters
- Specific Pollutants
- Priority Substances



WATER STATUS

Environmental Flow Assessment

Environmental Flow Assessments consider factors like:

- Unique area conditions (protected areas),
- Protected species,
- Project characteristics to ensure adequate flow preservation for ecosystems.



‘Water is life and peace!’

THANK YOU

