



# IMPLEMENTATION OF THE WATER FRAMEWORK DIRECTIVE IN HUNGARY

*Gyula Holló*

*Ministry of Environment and Water*

*WWF 4. 18 March 2006 Mexico City*

*INBO Europe*







## River water bodies

876 natural  
150 artificial

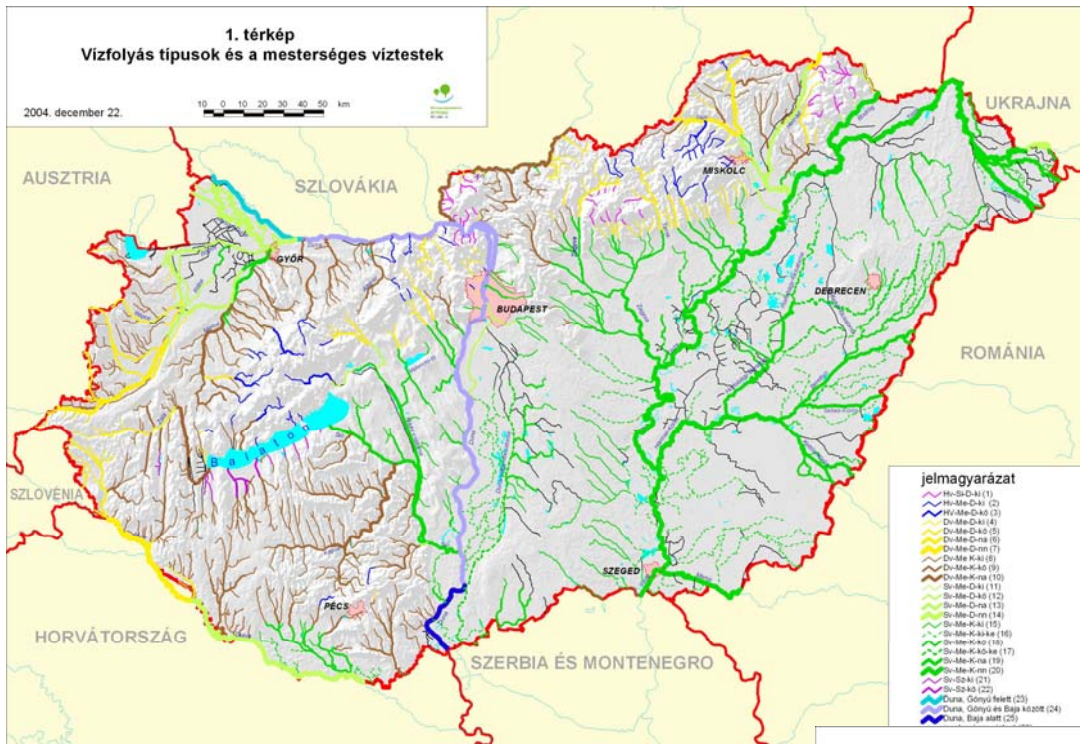




## Lakes (Water bodies)

100 natural  
124 artificial

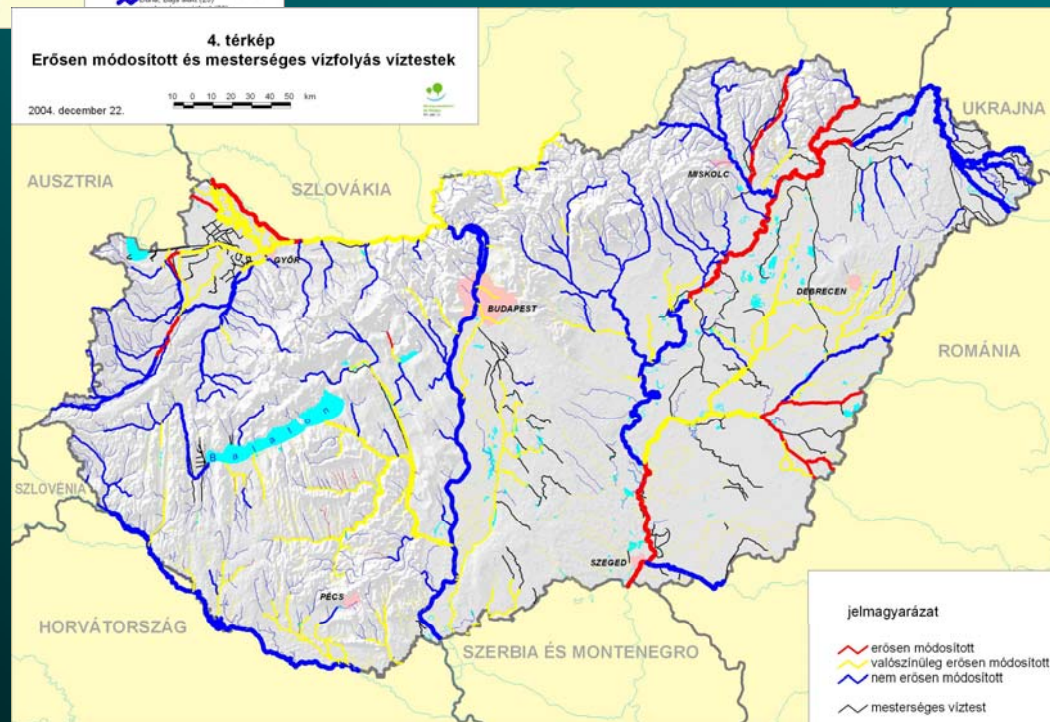




# River water bodies

## Types

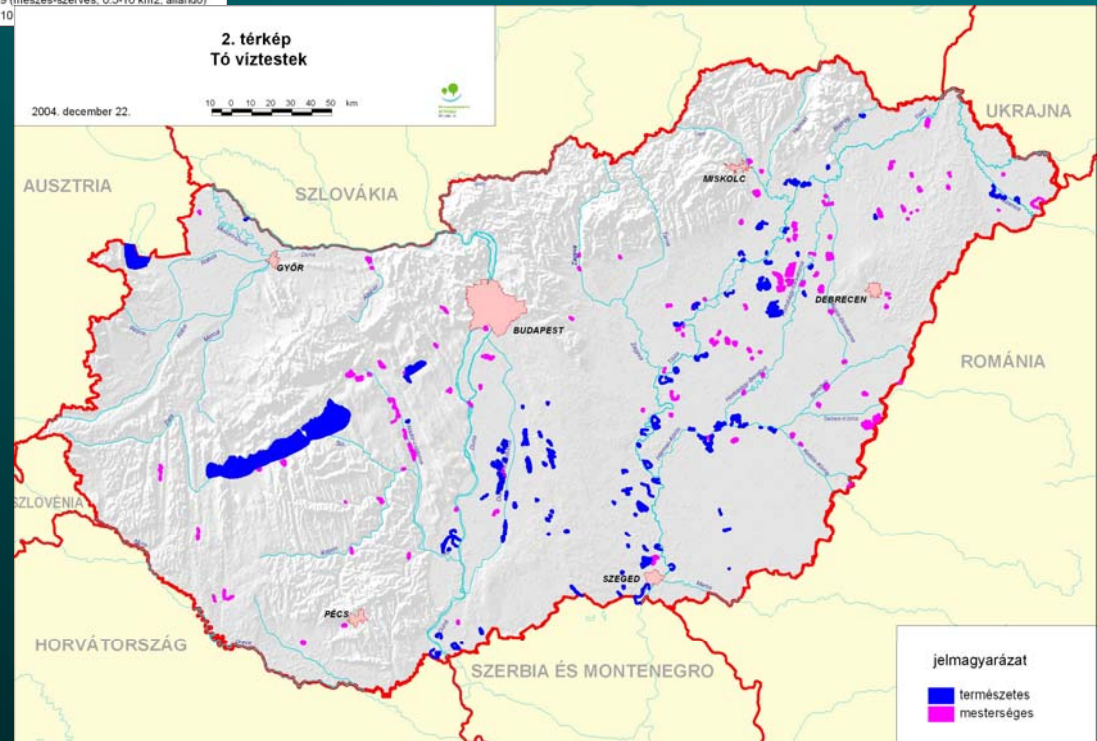
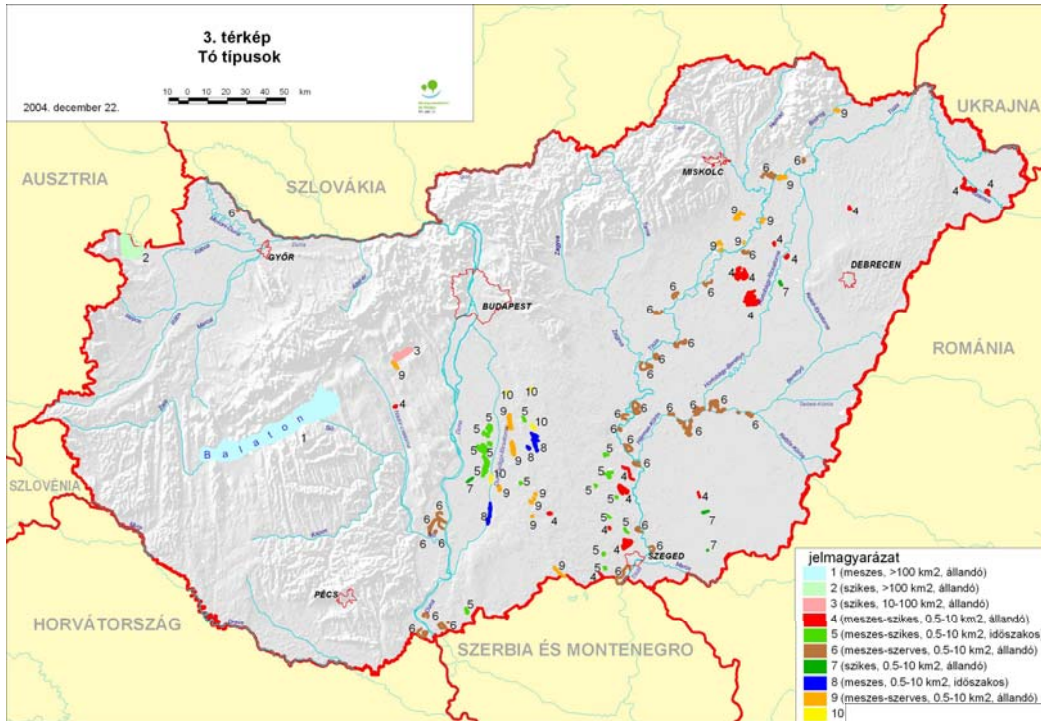
**Heavily modified and artificial water bodies (red, yellow, black)**





# Lakes

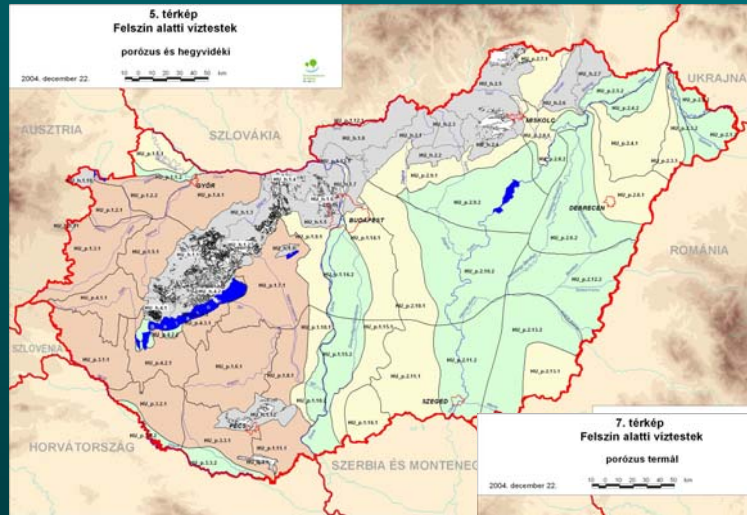
## Types



## Water bodies

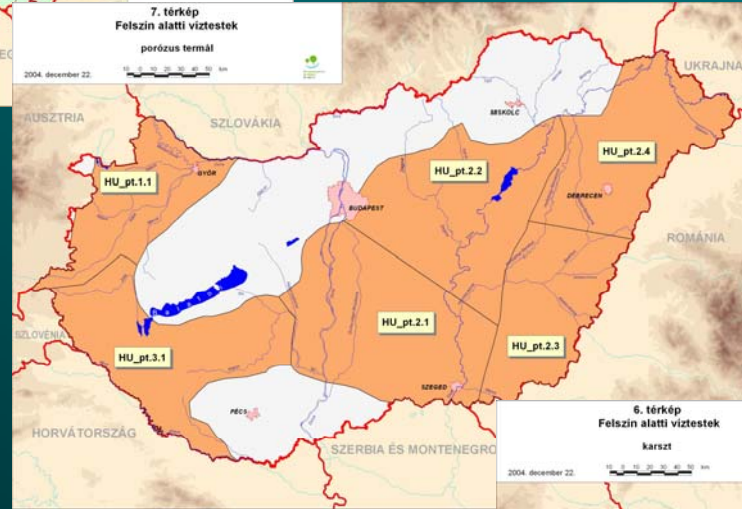


# Groundwater bodies (108)

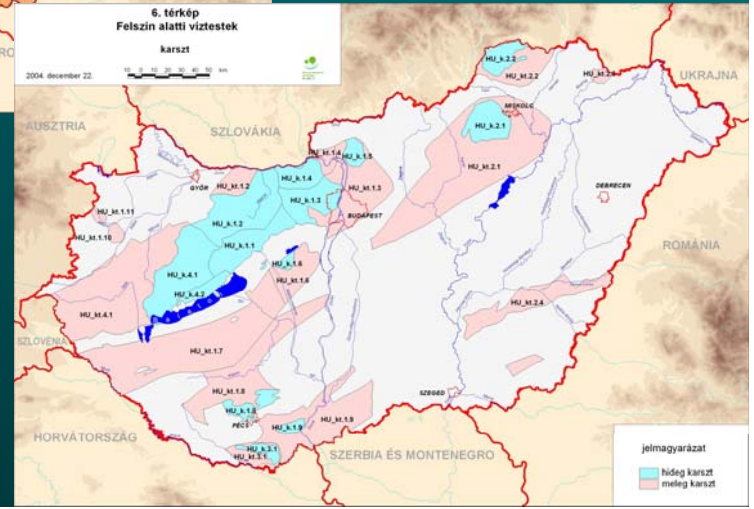


← porous, cold

porous, thermal →



karstic, cold and thermal →





## Tápanyag szerinti kockázatelemzés

2005.03.01.



Tápanyag tartalom szempontjából  
— kockázatos  
— lehet, hogy kockázatos  
— nem kockázatos

20 0 20 40 60 80 100 Kilometers

# Nutrients

# Organic pollutants

## Szerves szennyezettség szerinti kockázatelemzés

2005.03.01.



Szerves szennyezettség szempontjából  
— kockázatos  
— lehet, hogy kockázatos  
— nem kockázatos

20 0 20 40 60 80 100 Kilometers





# River water bodies

## Hazardous substances

### Veszélyes anyagok szerinti kockázatelemzés

2005.03.01.



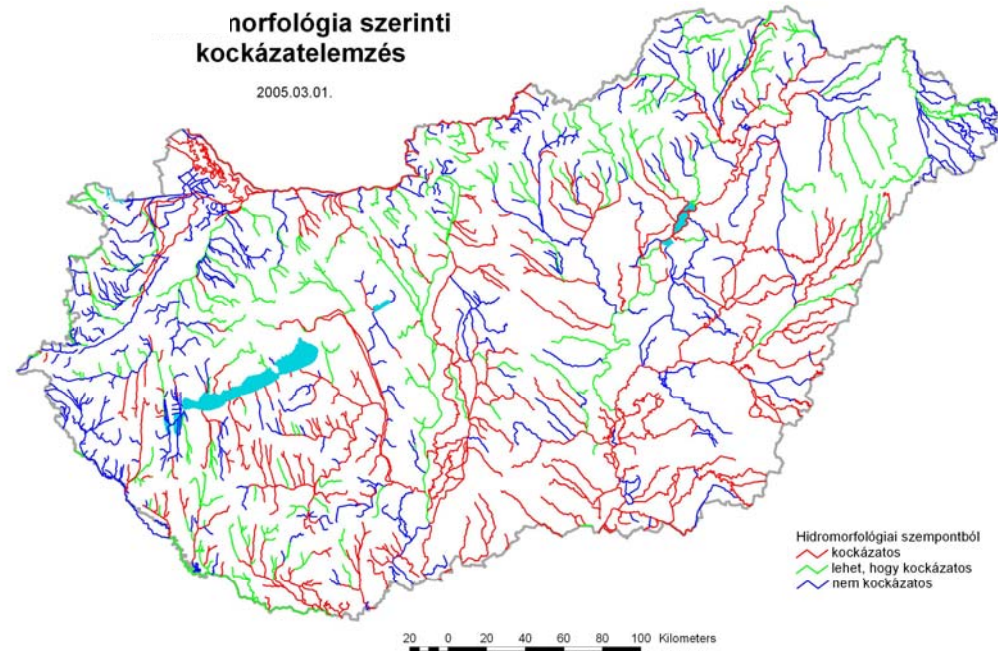
Veszélyes anyag szempontjából  
— kockázatos  
— lehet, hogy kockázatos  
— nem kockázatos

20 0 20 40 60 80 100 Kilometers

## Morphological alterations

### norfológia szerinti kockázatelemzés

2005.03.01.



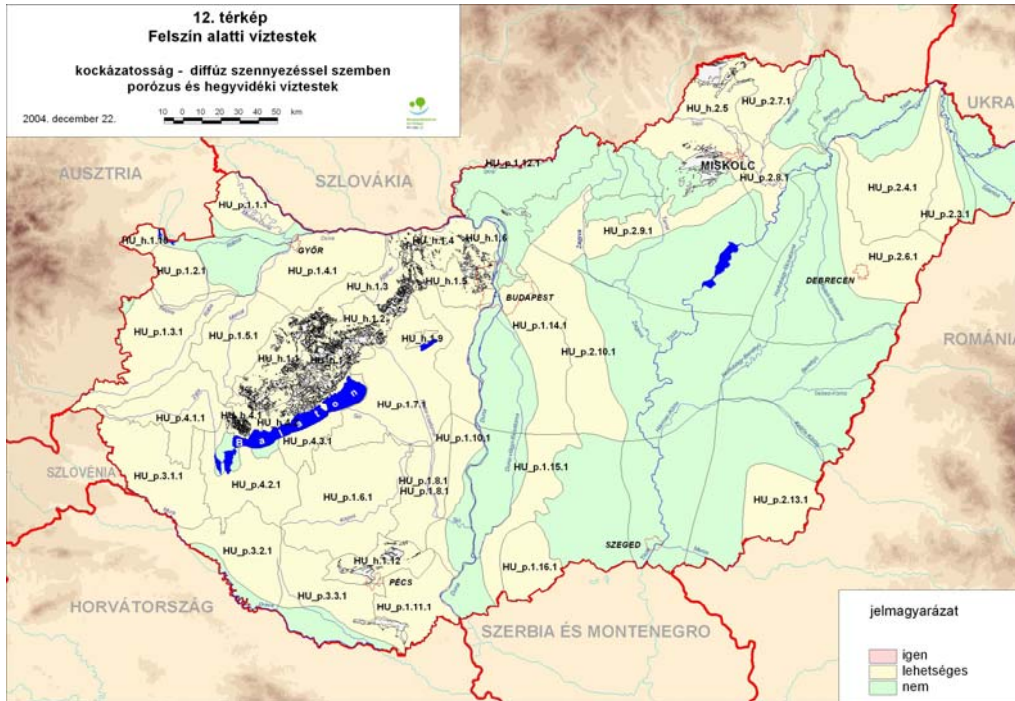
Hidromorfológiai szempontból  
— kockázatos  
— lehet, hogy kockázatos  
— nem kockázatos

20 0 20 40 60 80 100 Kilometers

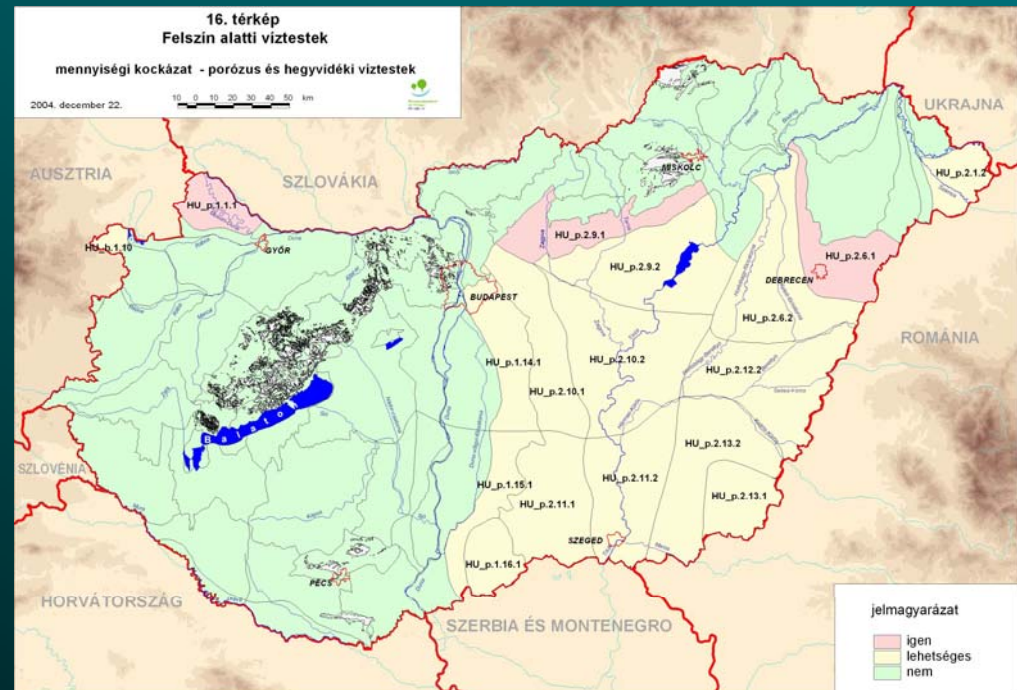




# Groundwater bodies diffuse pollution



# Groundwater bodies quantity status







# Progress in technical implementation

## Basic programme of measures



**Improvement of drinking water quality**



**Urban wastewater program**



**Protection against nitrate pollution**





# Progress in technical implementation Supplementary programme of measures



## Protection of drinking water sources



## Remediation of polluted areas



## Floodplain reactivation



**Mayflies in the Tisza river**

