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CEENBO
Central and Eastern European Network of Basin Organisations



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**Сеть водохозяйственных организаций стран
Восточной Европы, Кавказа и Центральной Азии**



« EURO INBO 2012 »

**10th EUROPEAN CONFERENCE
ON THE WATER FRAMEWORK DIRECTIVE IMPLEMENTATION**

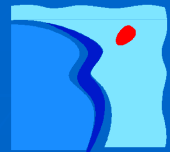
ISTANBUL (TURKEY) – 17 - 19 OCTOBER 2012

at Istanbul Grand Cevahir Hotel & Convention Centre



International

International



CONVENTION D'HELSINKI – 17 MARS 1992



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- PRÉVENTION, MAÎTRISE, RÉDUCTION DE LA POLLUTION
- GESTION RATIONNELLE DES RESSOURCES ET PROTECTION DE L'ENVIRONNEMENT
- USAGE RAISONNABLE ET ÉQUITABLE DES EAUX:
 - ◆ Principe de précaution
 - ◆ Principe pollueur-payeur
 - ◆ Principe d'égalité et de réciprocité
 - ◆ Principe du droit des générations futures



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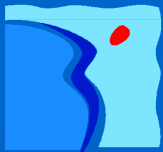
HEKSİNKİ ŞARTI- 17 MART 1992



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- ÖNLEME, YETKİNLİK, KİRLİLİĞİN AZALTILMASI
- KAYNAKLARIN AKILCIL YÖNETİMİ
VE ÇEVRENİN KORUNMASI
- SULARIN MAKUL VE EŞİTLİKÇİ KULLANIMI :

- ◆ İhtiyat ilkesi
- ◆ Kirleten-öder ilkesi
- ◆ Eşitlik ve karşılıklılık ilkesi
- ◆ Gelecek kuşakların hakkı ilkesi



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- **6 Directives**
 - **Water Framework Directive**
 - **Groundwater Directive**
 - **Directive on Environmental Quality Standards (EQS)**
 - **Urban Waste Water Directive**
 - **Nitrates Directive**
 - **Floods Directive**

- **+ quantitative and adaptive water management issues, for which there is currently no legislation at EU level:**
 - **Communication on Water Scarcity and Drought**
 - **Policy paper accompanying the White Paper on Adapting to Climate change on Water, Coasts and Marine Issues.**



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■ **6 Direktifler**

- **Su Çerçeve Direktifi**
- **Yeraltı Suyu Direktifi**
- **Çevresel Kalite Standartları (EQS) Direktifi**
- **Kentsel Atık Sular Direktifi**
- **Nitrat Direktifi**
- **Sel Direktifi**

■ **+ henüz AB düzeyinde hiçbir mevzuatın bulunmadığı nicel ve uyarlamalı su yönetimi sorunları:**

- **Su Kıtlığı ve Kuraklık İletişimi**
- **İklim değişikliğinin Su, Kıyı ve Deniz Sorunlarına Uyarlanmasına ilişkin Beyaz Bülteni içeren Politika formu.**



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General summary, conclusions and proposals:

1st - "Management of European basins: to ensure cooperation and peace, promote economic development, prevent risks, achieve good status of water bodies and adapt to climate change".

2nd - "The multiple water uses for economic development and health of Europeans : urban and rural water, agricultural water, industrial water, hydropower, inland navigation, fisheries and fish farming, domestic tourism".

3rd - "Towards green and blue growth: increasing knowledge, fostering innovation and building capacity to protect and restore aquatic ecosystems and develop natural infrastructure".

4th - "Strengthening European cooperation for better water management on a pan-European scale and with all the countries of the world".

All the river basins in Europe are concerned:



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Avrupa'daki tüm nehir havzaları söz konusudur:



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In Europe a majority of basins being transboundary ones!

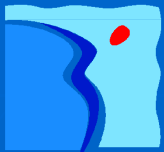


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Avrupa'da havzaların çoğunluğu sınır ötesidir!



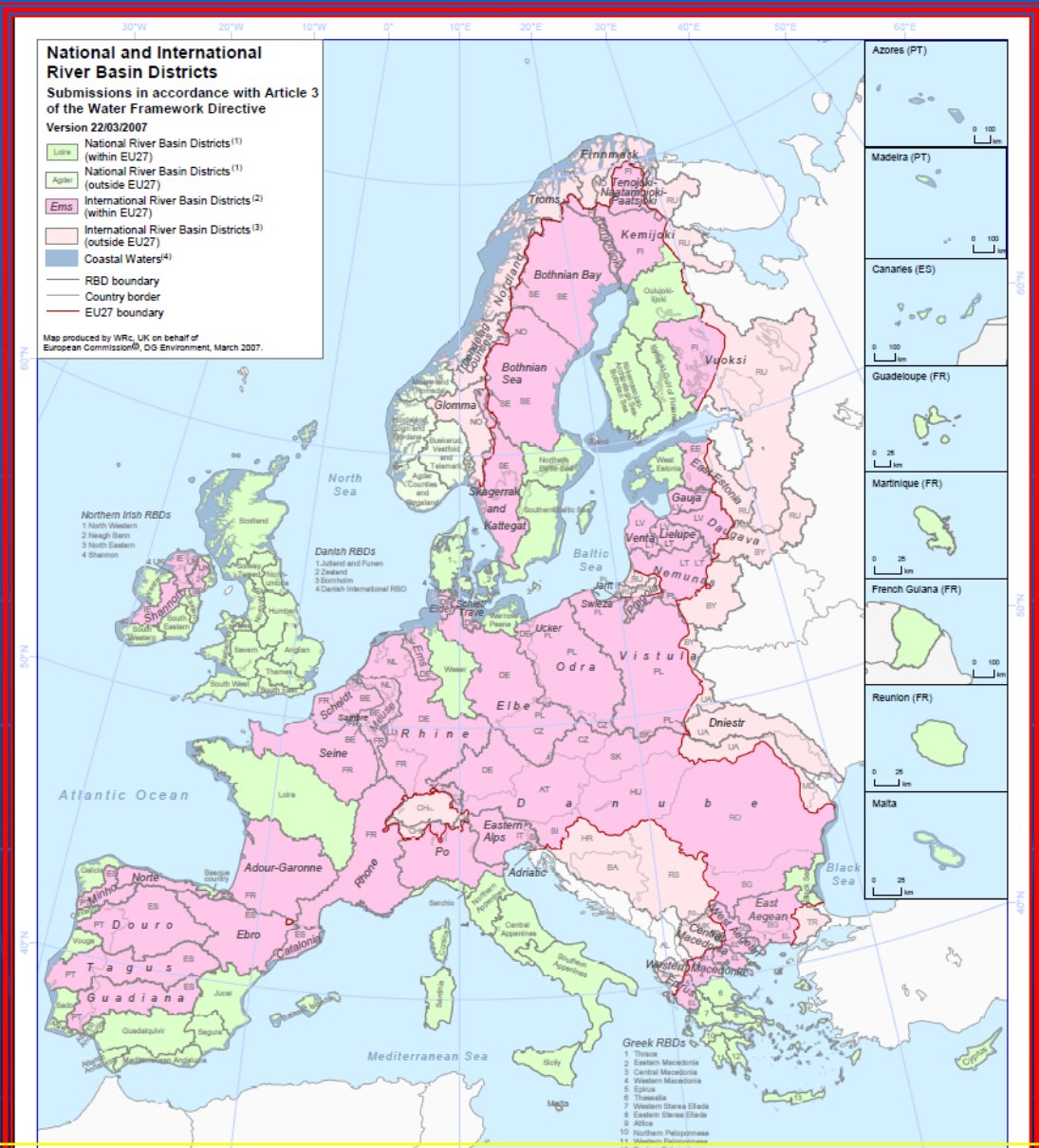
**HUGE WORK IS STILL NEEDED:
MANAGEMENT PLANS OF INTERNATIONAL RIVER BASIN DISTRICTS
STILL TOO OFTEN LOOK LIKE A PATCHWORK OF NATIONAL ELEMENTS**



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**110 RIVER BASIN DISTRICTS HAVE BEEN ESTABLISHED
40 ARE INTERNATIONAL RIVER BASIN DISTRICTS**



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**Indeed, basins are the natural territories,
in which water runs,
on the soil or in the sub-soil,**

**whatever are the national or administrative boundaries
or limits crossed.**



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**Ayrıca; havzalar, ulusal ve idari sınırlar
veya kısıtlamalar ne olursa olsun,
suyun toprak veya alt toprak
tabakasında aktığı doğal
sınırlardır.**

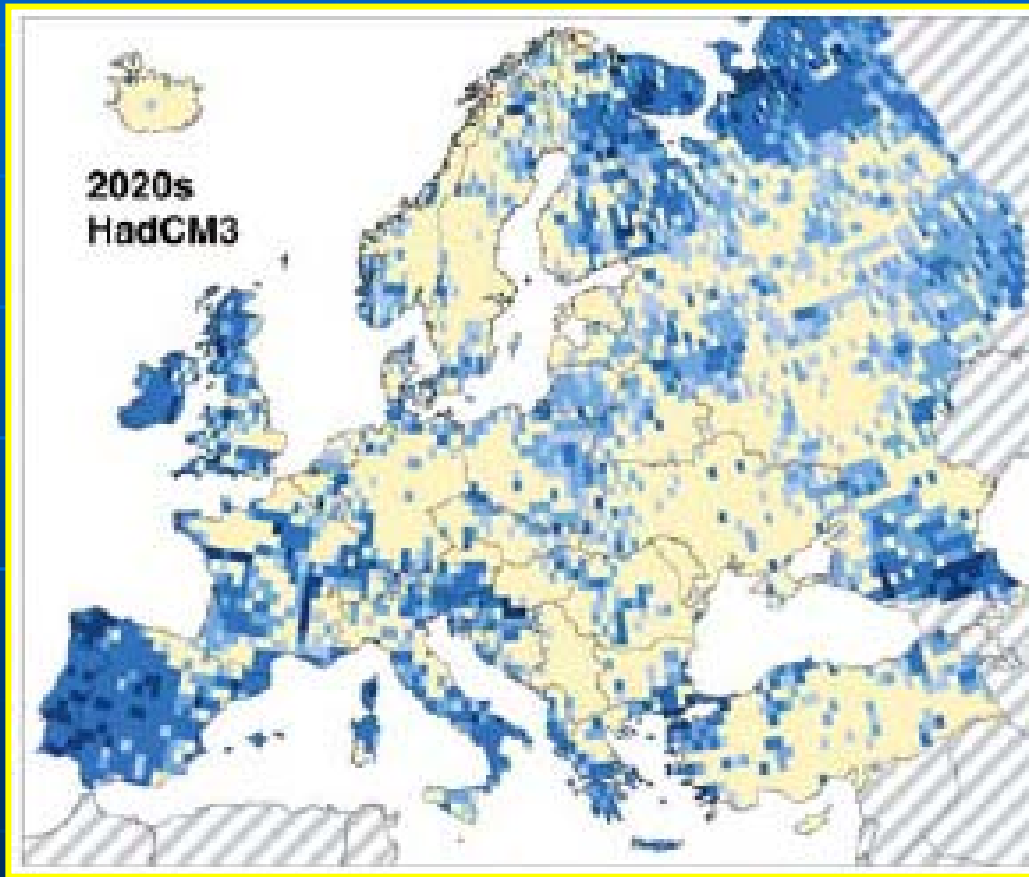


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Europe: Changing flood frequency



- Over much of Europe ,
“ one in a hundred year floods”
will occur
every couple
of decades

RIVER BASIN IS THE APPROPRIATE SCALE TO IMPLEMENT ACTION PLANS TO PREVENT DROUGHT AND FLOOD FUTUR SITUATIONS.

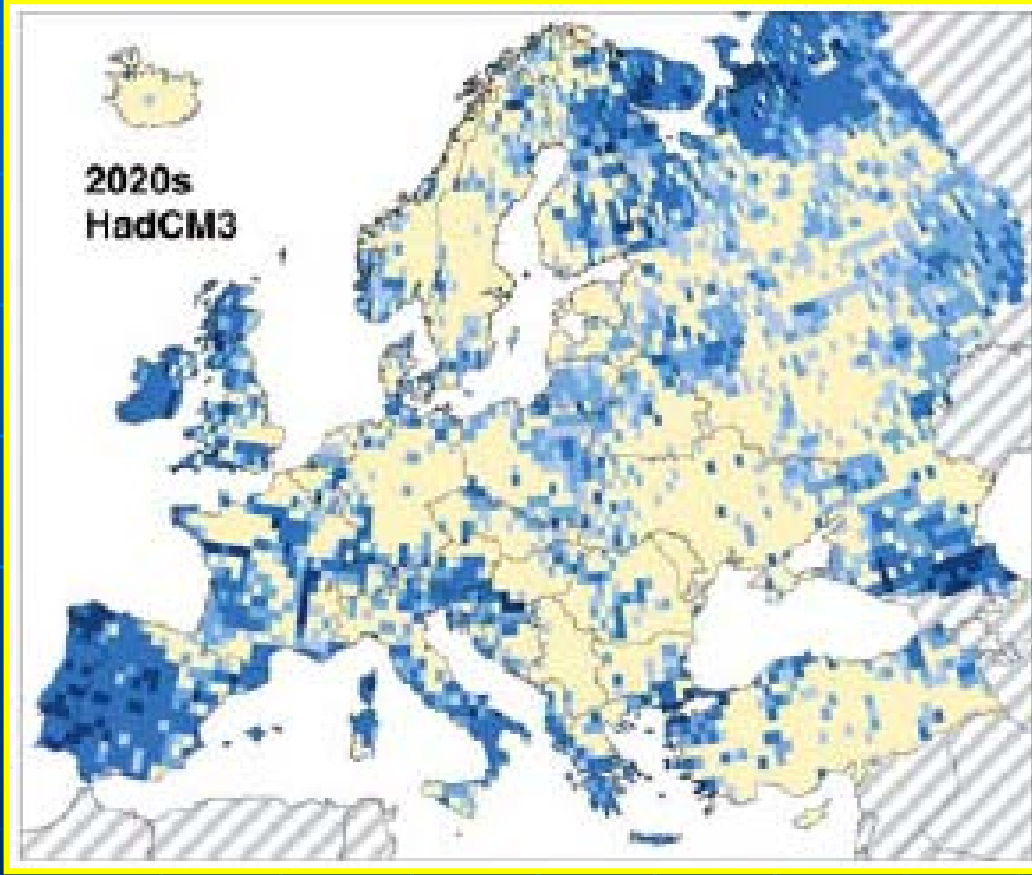


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Avrupa: Değişen sel sıklığı



- Avrupa'nın genelinde, "yüzyılda bir gerçekleşen seller" her birkaç on yılda bir meydana geliyor

AKARSU HAVZALARI GELECEKTE KURAKLIK VE SELLERİN ÖNLENMESİNE YÖNELİK EYLEM PLANLARININ UYGULANMASI İÇİN UYGUN BİR ÖLÇEKTİR.



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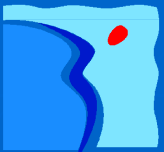


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**FLOOD CONTROL:
FORECAST, PREVENTION, PROTECTION
SEL KONTROLÜ:
TAHMİN, ÖNLEME, KORUMA**

**Foreseeing hazardous events,
Reducing vulnerabilities,
Protecting people and properties,
Warning and educating.**

**Tehlikeli olayların tahmin edilmesi,
Zayıflıkların azaltılması,
İnsanların ve mülklerin korunması,
Uyarı ve eğitim.**



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WITH REGARD TO DROUGHTS:

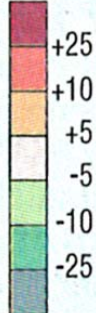


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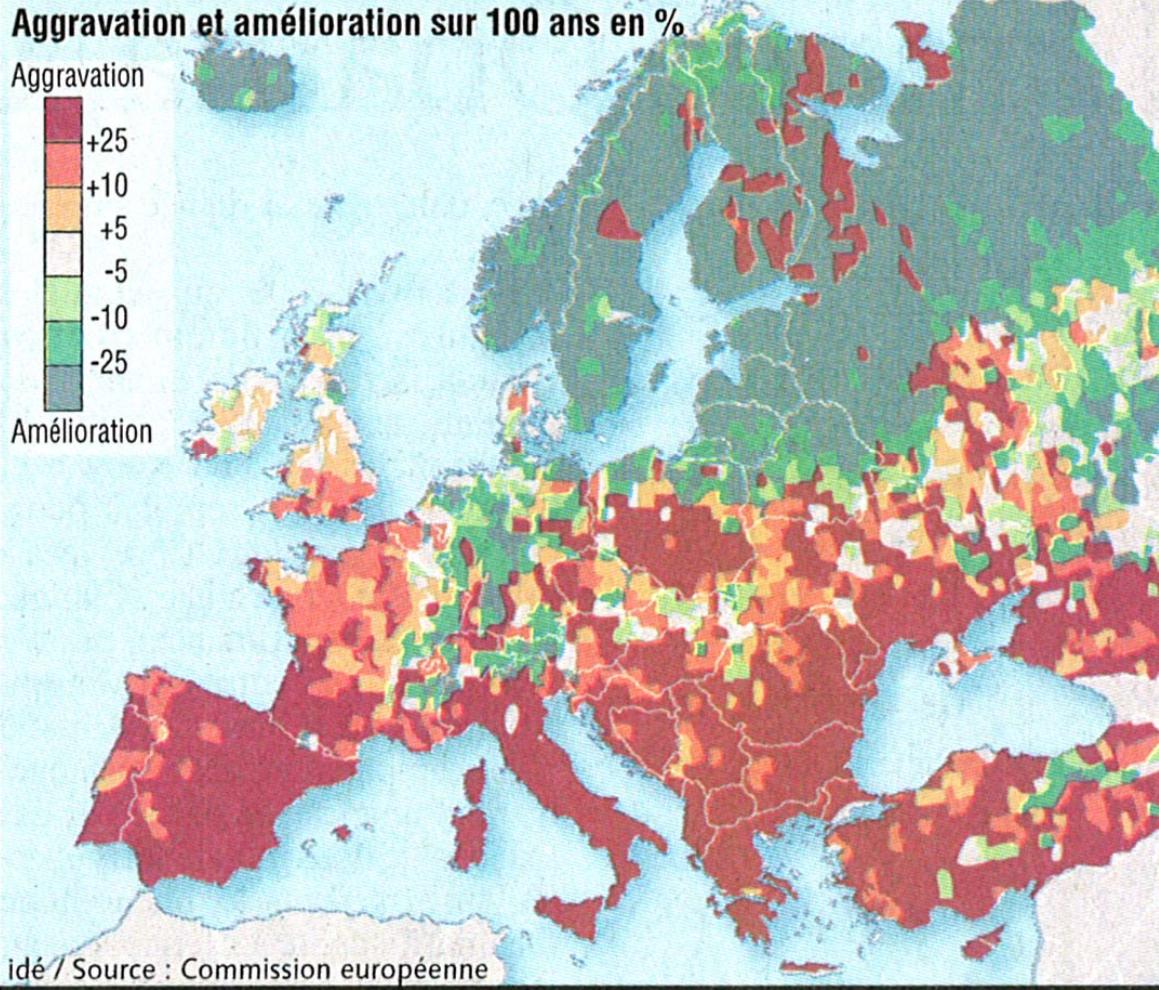
L'évolution des sécheresses en Europe (de 1970 à 2070)

Aggravation et amélioration sur 100 ans en %

Aggravation



Amélioration



idé / Source : Commission européenne

KURAKLIKLARLA İLGİLİ OLARAK:



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WITH REGARD TO DROUGHTS:



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- WATER SAVING,
- AVOIDING WASTAGES,
- LEAK DETECTION,
- RECYCLING,
- THE REUSE OF TREATED WASTE WATER,
- GROUNDWATER RECHARGE,
- THE DESALINATION OF SEA WATER,
- RESEARCH ON LOW-CONSUMPTION USES...

... MUST BECOME PRIORITIES.



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KURAKLIKLARLA İLGİLİ OLARAK:



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- SU TASARRUFU,
- ATIKLARIN AZALTILMASI,
- KAÇAK TESPİTİ,
- GERİ ÇEVİRİM,
- ARITILAN ATIK SULARIN TEKRAR KULLANIMI,
- YERALTI SUYUNUN YENİDEN ŞARJ EDİLMESİ,
- DENİZ SUYUNUN TUZUNUN ARITILMASI,
- DÜŞÜK TÜKETİMLİ KULLANIMLARIN ARAŞTIRILMASI...

... MUTLAKA ÖNCELİKLİ OLARAK ELE ALINMALIDIR.



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**MOBILIZING NEW RESOURCES
SHOULD BE PLANNED
WHEN THEY ARE ECOLOGICALLY ACCEPTABLE
AND ECONOMICALLY REASONABLE.**



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**EKOLOJİK OLARAK KABUL EDİLEBİLİR
VE MAKUL OLMASI DURUMUNDA YENİ
KAYNAKLARIN KULLANIMI
PLANLANMALIDIR.**



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The WFD introduces an obligation of results:



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*General
obligation*

*Actions defined
with regards
to the goal*

*Good
status*

*Derogations to be
justified*

Achieving
a "good status"
for surface
and ground waters
before 2015

**THIS WILL BE AN INCREDIBLE CHALLENGE
FOR ALL THE EUROPEAN BASIN ORGANIZATIONS...**



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the European Water Framework Directive



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- **FOR EACH DISTRICT,
HAVE BEEN FORMULATED:**
- **A "MANAGEMENT PLANS",
DEFINING THE OBJECTIVES TO ACHIEVE,
*AND***
- **"PROGRAMS OF MEASURES",
DEFINING THE NECESSARY ACTIONS.**



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Avrupa Su Taslağı Yönergesi



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Havza Kuruluşları
Ağı

■ HER BÖLGE İÇİN ŞUNLAR FORMÜLENMELİDİR:

ELDE EDİLECEK HEDEFLERİ
BELİRLEYEN **"YÖNETİM PLANLARI"**,
VE
GEREKLİ FAALİYETLERİ BELİRLEYEN **"
TEDBİR PROGRAMLARI"**.



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RIVER BASIN MANAGEMENT EXPERIENCED
A QUICK DEVELOPMENT IN MANY COUNTRIES



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INTEGRATED WATER RESOURCE MANAGEMENT

- **OVERALL MEETING OF RATIONAL AND LEGITIMATE DEMANDS**
 - Agriculture
 - Domestic uses
 - Industry
 - Fish farming
 - Electricity
 - Transports
 - Leisure
 - Fishing
- **WASTEWATER TREATMENT AND RECYCLING,**
- **CONSERVATION OF ECOSYSTEMS:**
rivers, lakes, wetlands, aquifers, costal areas,
- **RISK PREVENTION :**
 - Erosion
 - Drought
 - Floods



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AKARSU HAVZASI YÖNETİMİ BİRÇOK ÜLKEDE
HIZLI BİR ŞEKİLDE GELİŞMİŞTİR



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ENTEĞRE SU KAYNAKLARI YÖNETİMİ

- **GENEL OLARAK MANTIKLI VE MAKUL TALEPLERİN KARŞILANMASI**
 - Tarım
 - Evsel kullanımlar
 - Endüstri
 - Balık çiftlikleri
 - Elektrik
 - Taşımacılık
 - Eğlence
 - Balıkçılık
- **ATIK SU ARTIMA VE GERİ DÖNÜŞTÜRME,**
- **EKOSİSTEMLERİN KORUNMASI:**
akarsular, göller, sulak araziler, akiferler, kıyı alanları,
- **RİSK ÖNLEME:**
 - Erozyon
 - Kuraklık
 - Seller



ARE CONCERNED ALL MAJOR WATER USES



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hydropower

Industrial uses

- abstraction
- discharges

Agricultural uses

- abstraction
- diffuse discharges

■ Conservation of ecosystems:

- rivers, lakes, wetlands, aquifers, costal areas,

WATER ALLOCATION BETWEEN SECTORS,

Urban uses:

- drinking water supply
- wastewater treatment

Recreational / ecological uses

- angling
- bathing...



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TÜM ÖNEMLİ SU KULLANIMLARIYLA İLGİLİ



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hidroelektrik

Endüstriyel
kullanımlar

- ayırma
- deşarjlar

Tarımsal kullanımlar

- ayırma
- dağınık deşarjlar

■ Ekosistemlerin
korunması:

- akarsular, göller,
sulak araziler,
akiferler, kıyı
alanları,

SUYUN SEKTÖRLER ARASINDA DAĞILIMI,

Kentsel kullanımlar:

- içme suyu kaynağı
- atık su arıtma

Eğlence amaçlı / ekolojik
kullanımlar

- olta balıkçılığı
- yüzme...



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As everything is linked in each Water Body,
for a real implémentation of the WFD,
it's important to take into account :



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- not only the problems of quality of water and the environments,
- **BUT**, all the aspects of water management and their impacts,
- **AND**, in particular, obvious interfaces with navigation, energy production, the prevention and protection against floods and droughts,



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Herşey her bir Su Organı ile bağlantılı olduğundan,
WFD'nin gerçek bir uygulaması için aşağıdakileri dikkate almak önemlidir:

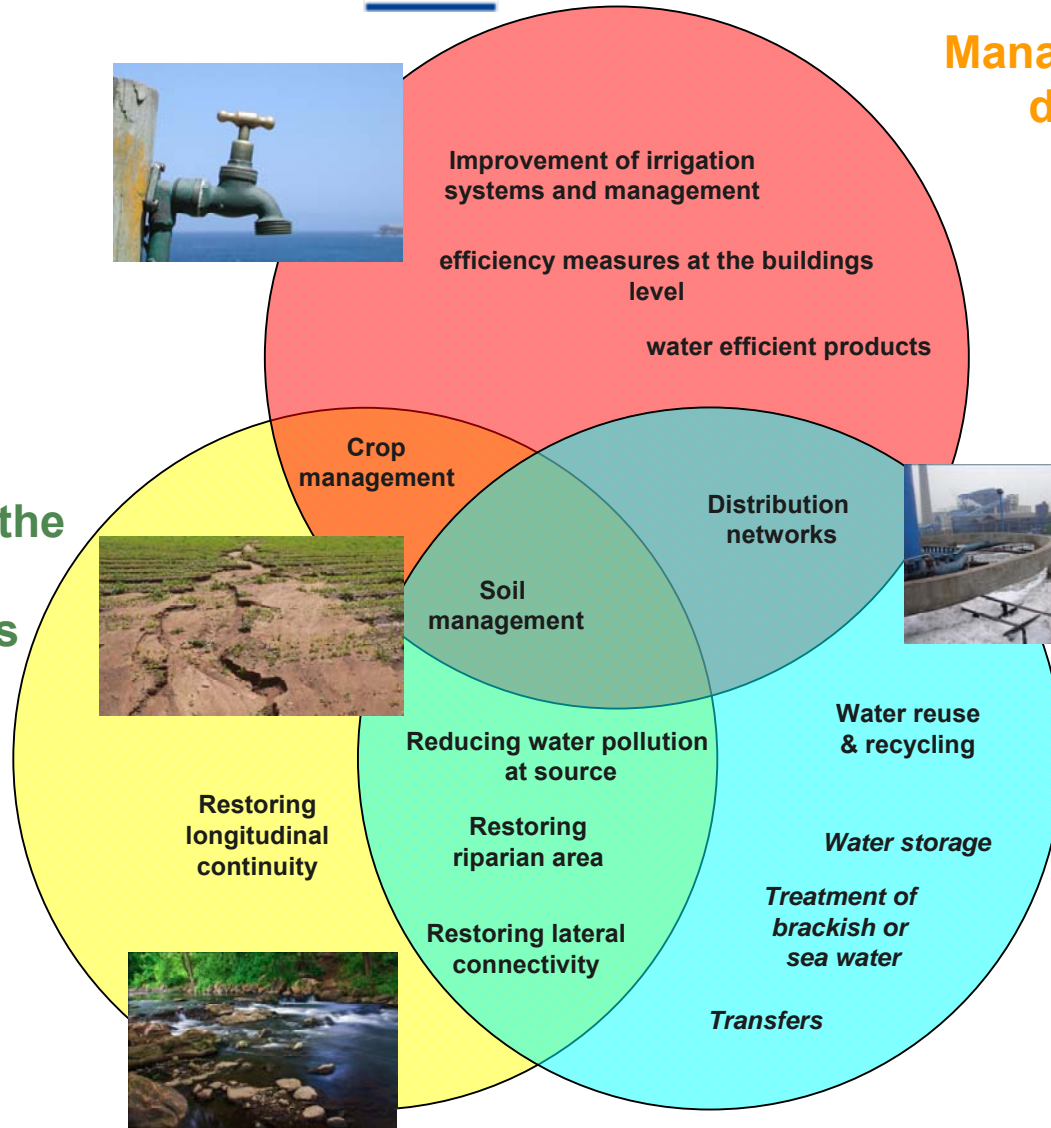


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- Sadece su ve çevre kalitesi değil,
- **FAKAT**, tüm su yönetimi bakış açıları ve etkileri,
- **VE**, özellikle de, denizcilik, enerji üretimi, sel ve kuraklıkları önleme ve bunlara karşı korunma arayüzleri,

Measures

Protecting the water ecosystems



Managing water demand



Improvement of irrigation systems and management

efficiency measures at the buildings level

water efficient products

Crop management



Soil management

Distribution networks



Water reuse & recycling

Improving availability of clean water

Water storage

Treatment of brackish or sea water

Transfers

Reducing water pollution at source

Restoring riparian area

Restoring lateral connectivity





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**WE MAY CALL FOR A TRUE MOBILIZATION CONCERNING AGRICULTURE:
TARIMLA İLGİLİ GERÇEK BİR SEFERBERLİK İLAN ETMEMİZ GEREKİYOR:**

**GERÇEK BİR REFORM VEYA ORTAK TARIM POLİTİKASI OLMADAN
2015 YILINDA VE HATTA 2021 VEYA 2027 YILINDA
SU KALİTESİ VE EKOSİSTEMLERLE
İLGİLİ OLUMLU SONUÇLAR ELDE ETMEMİZ ÇOK ZOR GÖZÜKÜYOR!**

**IT WILL BE VERY DIFFICULT TO OBTAIN POSITIVE RESULTS
ON THE QUALITY OF WATER AND ECOSYSTEMS IN 2015, AND EVEN IN 2021,
WITHOUT A TRUE REFORM OF THE COMMON AGRICULTURE POLICY!**



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HOW CAN WE APPLY THE « RENEWABLE ENERGY » DIRECTIVE AND THE “WFD” AT THE SAME TIME?





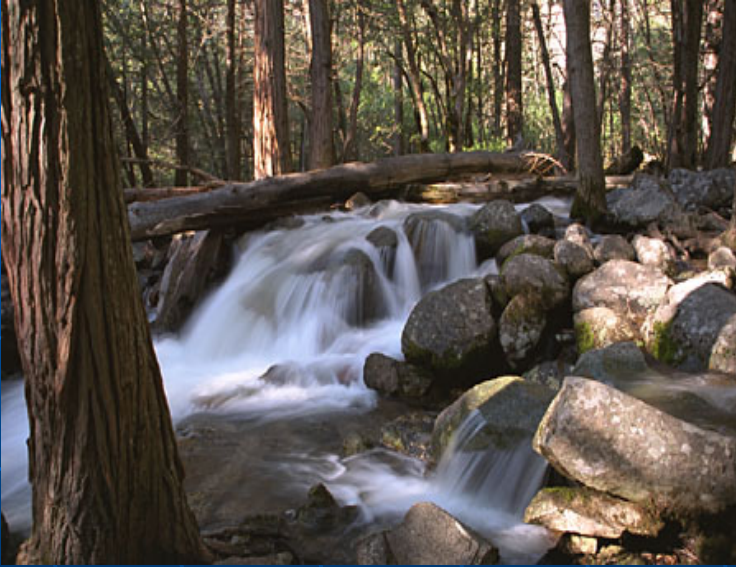
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All kinds of water
Are taken into consideration

Her türlü su
dikkate alınmalıdır



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- * geçici sular
- * kıyı suları
- * transitional water
- * coastal waters

- * surface waters
- * groundwater
- * yüzey suları
- * yeraltı suları





Ecological objectives

Non-deterioration

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Uluslararası Havza
Organizasyonu Ađý

Pollution

{ No or
minimal

Ecological status

Slight



Moderate

Major



Severe



Non-deterioration





Ekolojik Hedefler

Ekolojik Durum

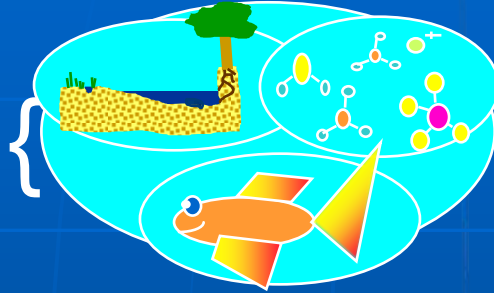
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Organizasyonu Ađý

Kirlilik



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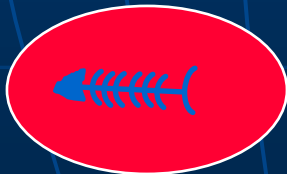
Orta



Çok



Aşırı



YÜKSEK

İYİ

ORTA

ZAYIF

KÖTÜ

Bozulma

İyileştirme



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**AS THE RESTORATION OF AQUATIC ENVIRONMENTS
IS OF PRIME IMPORTANCE
FOR ACHIEVING GOOD STATUS,
THE MEANS DEVOTED TO WETLANDS
AND HYDROMORPHOLOGY MUST BE INCREASED.**



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**SU ORTAMLARININ ESKİ HALİNE GETİRİLMESİ, İYİ DURUMUN
SAĞLANMASI İÇİN TEMEL
ÖNCELİK OLDUĞUNDAN, SULAK ALANLARA VE HİDROMORFOLOJİYE
AYRILAN KAYNAKLAR MUTLAKA
ARTTIRILMALIDIR.**

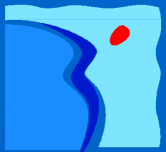


TRANSPARENCY OF COSTS AND POLLUTER-PAYS PRINCIPLE:



| Costs | Definition | Example |
|--------------------|--|---|
| Direct cost | Capital costs | <i>Principal and interest, depreciation</i> |
| | Operating costs | <i>Wages, electricity, maintenance of equipment, analyses of the quality of water...</i> |
| Environmental cost | Costs of the damages to the environment caused by a given activity | <i>Contamination of an aquifer, destruction of wetlands...</i> |
| Resource cost | Value of the alternative foregone by choosing a particular activity (= opportunity costs) | <i>Cost of electricity that could have been produced if water would be available instead of being pumped for irrigation</i> |

Sum = full cost



MALİYET VE KİRLETİCİ-ÖDER PRENSİBİNİN AÇIKLAMASI:

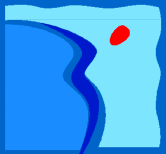


| Maliyetler | Açıklama | Örnek |
|------------------|--|---|
| Doğrudan Maliyet | Sermaye maliyetleri | <i>Prensip ve kar, amortisman</i> |
| | İşletme maliyetleri | <i>Maaşlar, elektrik, ekipman bakımı, su kalitesi analizi</i> ... |
| Çevresel Maliyet | Yapılan faaliyetten oluşan çevreye verilen zararların maliyeti | <i>Bir akiferin kirlenmesi, sulak alanların yok edilmesi ...</i> |
| Kaynak Maliyeti | Belirli bir fırsat seçerek kaçınılmaz bir alternative değeri (= fırsat maliyetleri) | <i>Suyun sulama için pompalanması yerine kullanılabilir olması durumunda üretilebilecek elektriğin maliyeti</i> |

Toplam = Tam Maliyet

European Water Twinning





The European Water Facility for African transboundary rivers,



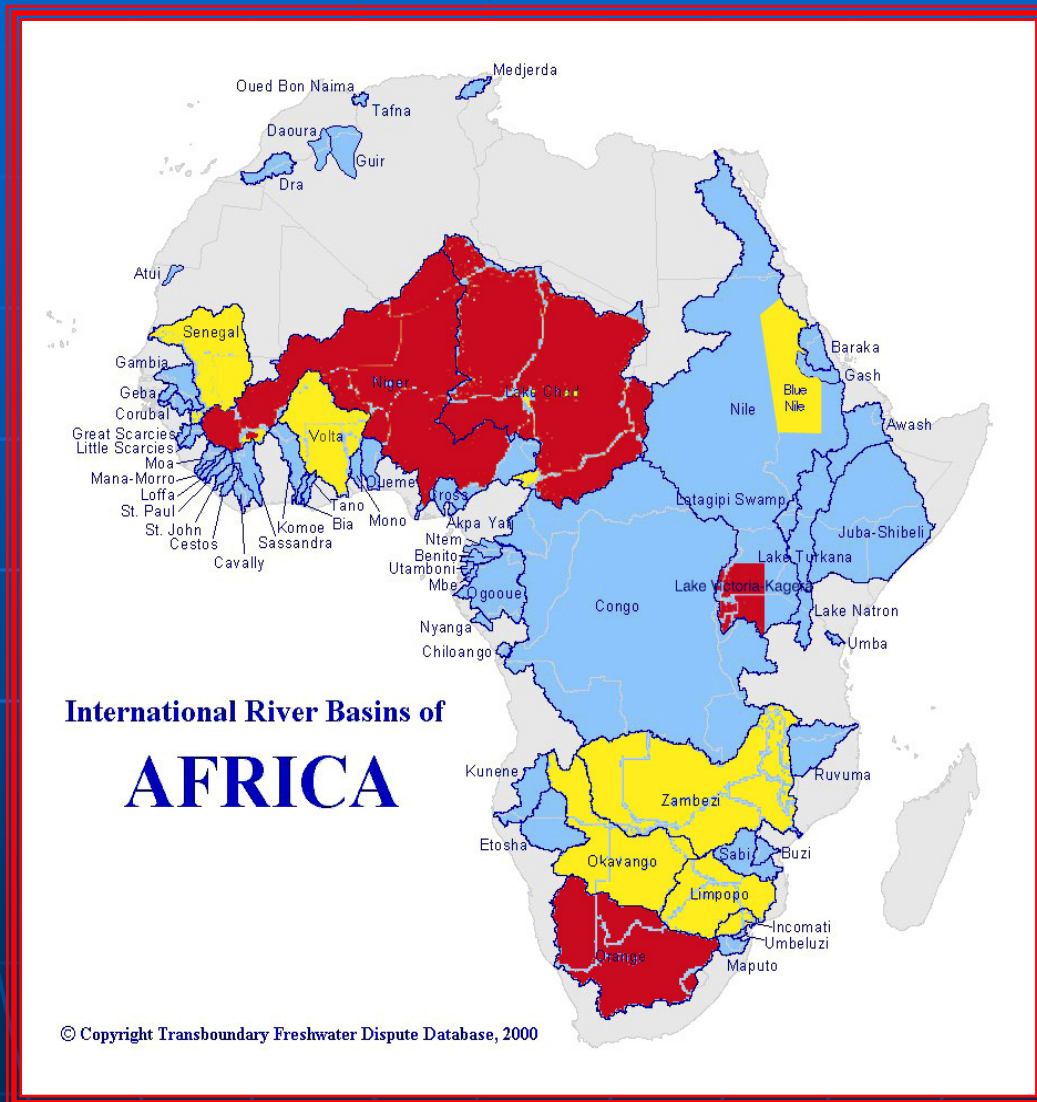
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pilot basins:

**Volta
Congo**





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AB Başkanlığına bir sonraki Birleşmiş Milletler konferansına su sorunlarını da dahil etmesi için baskıda bulunabilir miyiz ?

**Could we urge the E.U. Presidency
to include water issues in the negotiations on Climate Change
for the next UN conferences?**



Conflicts

requirements collected
from each point of view



Designing a program
through **dialogue**

Reaching **agreement**
with an ambitious program





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Anlaşmazlıklar

farklı tarafların
gereksinimleri toplanmalıdır

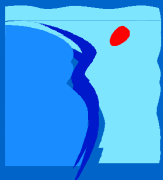


Diyalog yoluyla bir
tasarlanmalıdır



Hırslı bir program üzerinde
anlaşmaya varılmalıdır





ASSESSING WATER QUALITY:



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In Europe,

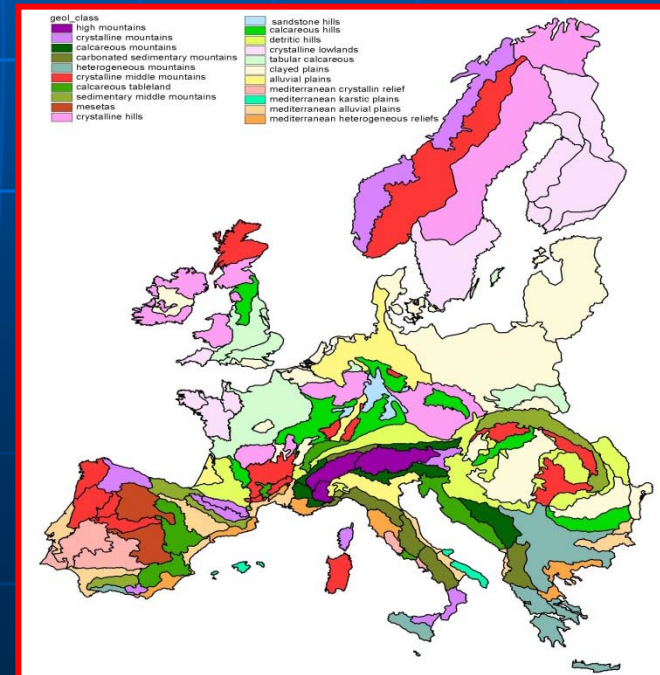
50,000 "WATER BODIES" have been identified:

- River WB = 27 455
- Lake WB = 10 060
- Groundwater WB = 7 719
- HMWB/AWB = 5 783

Hydro - ecoregions

IN FRANCE :

- River WB = 3 522
- Lake WB = 471
- Groundwater WB = 539
- HMWB/AWB = 912
- Good Status = 984
- At Risk = 941



SU KALİTESİ DEĞERLENDİRME:



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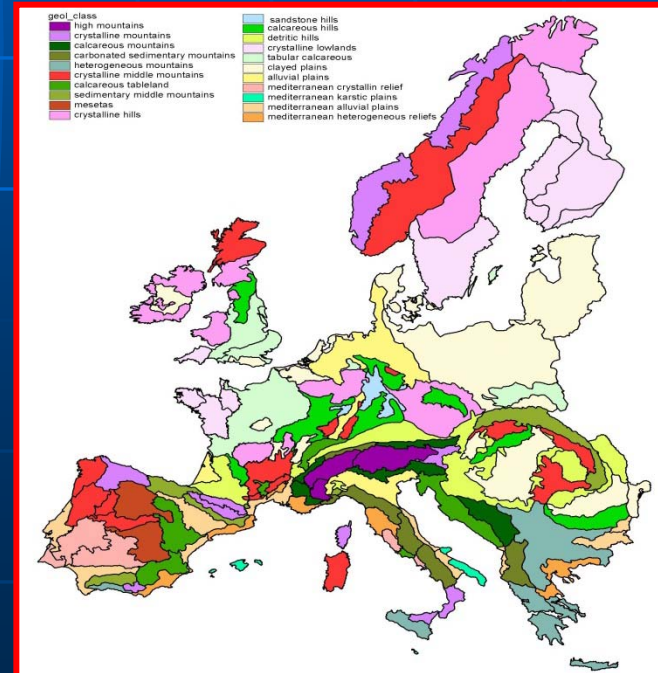
International
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PARIS-FRANCE

Avrupa'da,

50,000 "SU ORGANI" belirlenmiştir:

- Nehir WB = 27 455
- Göl WB = 10 060
- Yer Suyu WB = 7 719
- HMWB/AWB = 5 783

Hydro - ecoregions



FRANSA'da :

- Nehir WB = 3 522
- Göl WB = 471
- Yer Suyu WB = 539
- HMWB/AWB = 912
- İyi Durumda = 984
- Riskte = 941



**IF WE ARE NOT ABLE TO MOBILIZE ENOUGH MONEY,
WE SHALL NOT HAVE THE FRESH WATER WE NEED!**

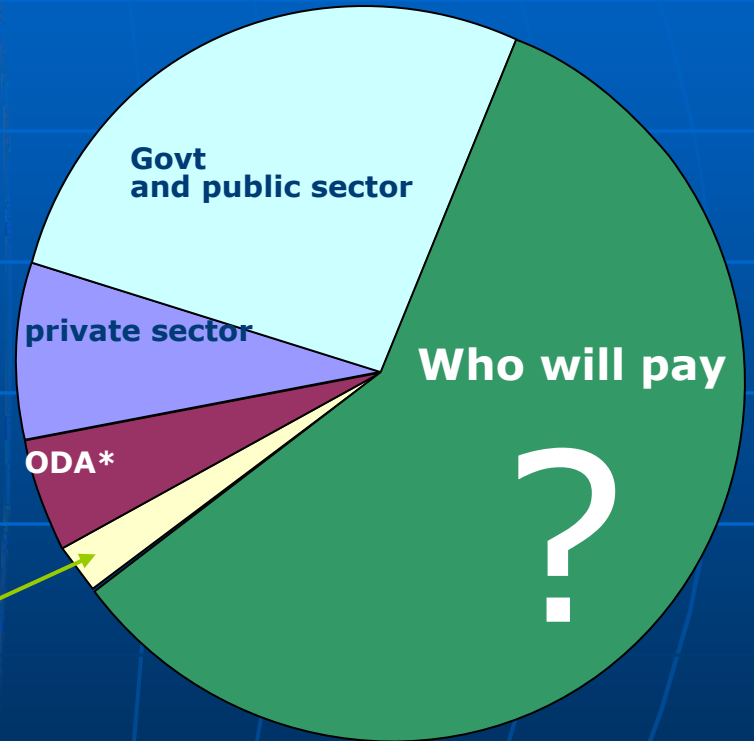
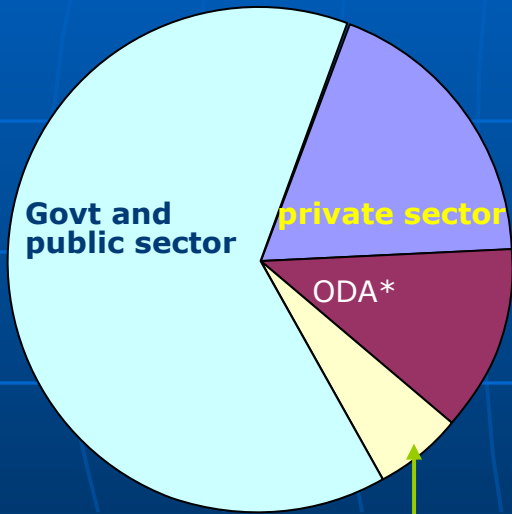


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Who will pay ?

FOR THE NEXT 18 YEARS

NOW



International firms

* Official Development Assistance

EĞER YETERİNCE PARA SEFERBER EDEMEZSEK,
İHTİYACIMIZ OLAN SAF SUYU ALAMAYACAĞIZ!



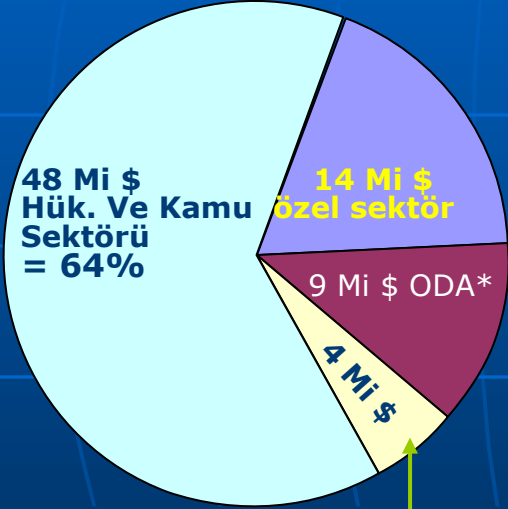
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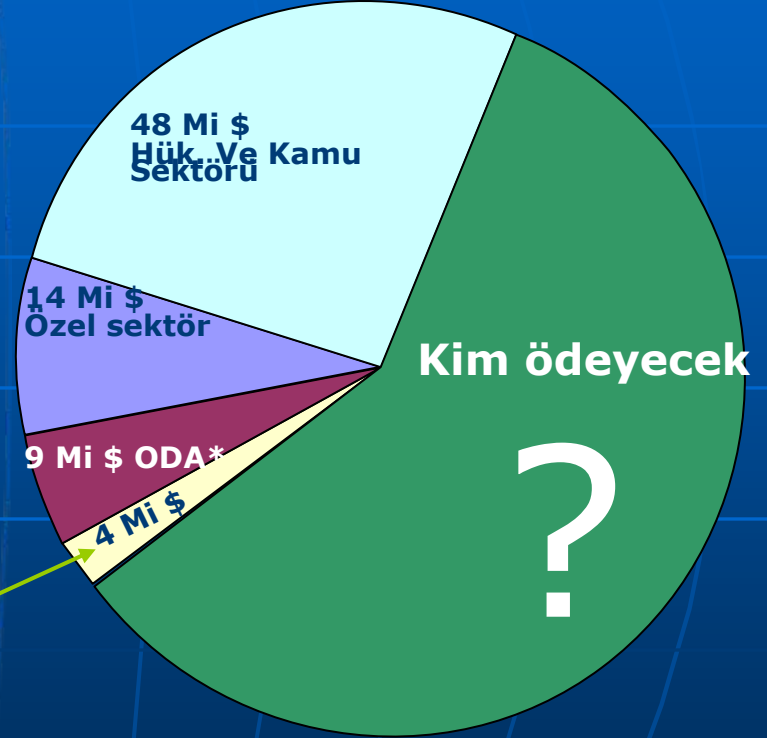
Kim ödeyecek ?

25 SENE SONRASINDA

ŞU ANDA



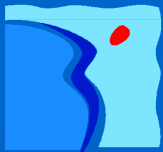
Uluslararası şirketler



75 milyar \$ / yıl

180 milyar \$ / yıl

* Resmi Gelişim Yardımı



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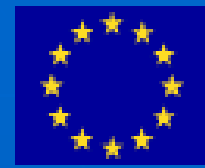
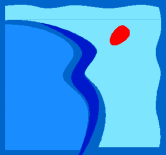


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Towards a European-wide exchange Network for improving dissemination of IWRM research outcomes:

- **identifying and describing the national research programs which have a relationship to IWRM in UE countries,**
- **locating the sources of information on recent and current projects,**
- **identifying and contacting the persons-in-charge of these programs**
- **organising workshops of these program managers to prepare the basis of a long-term collaboration,**
- **proposing new ways to develop a more demand-driven research, and a better dissemination of outputs.**



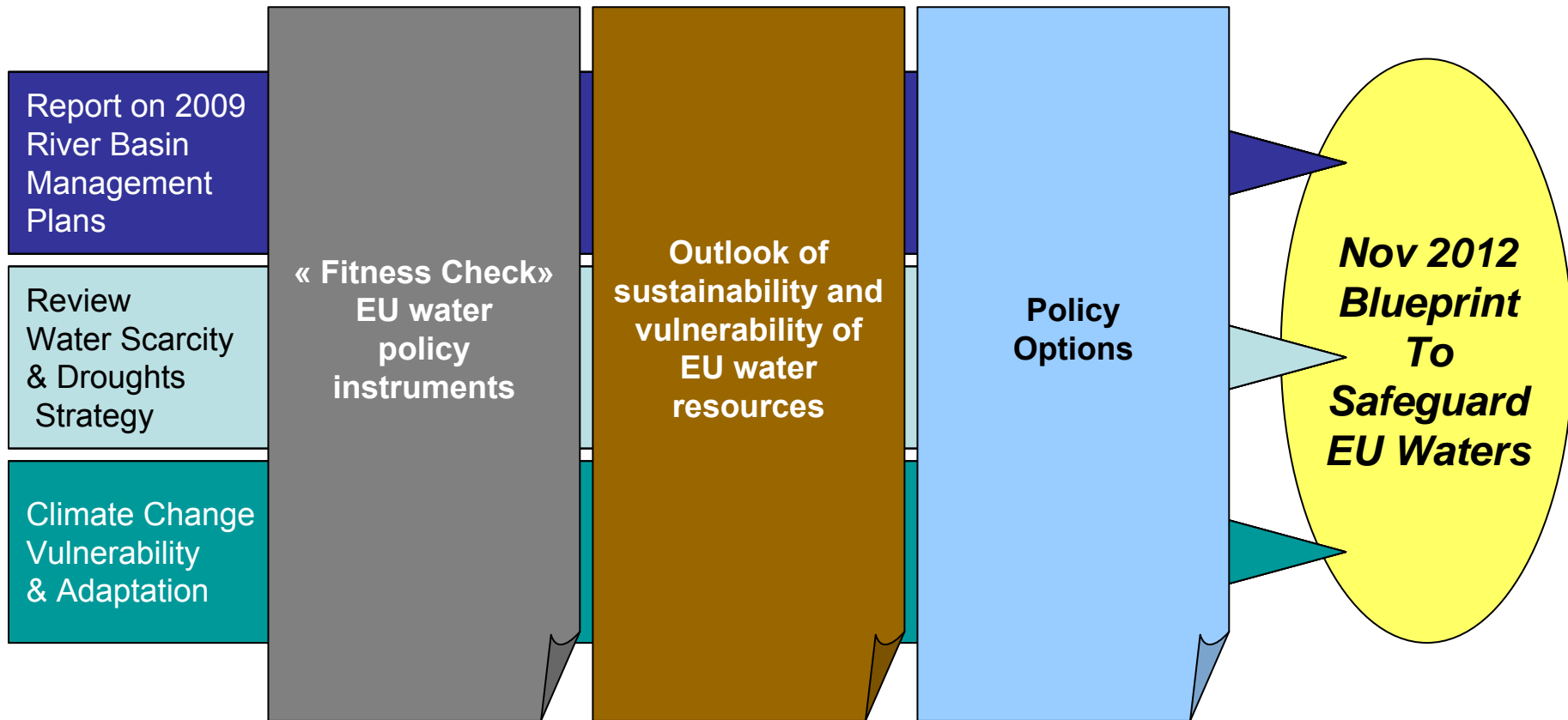
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(IWRM) USKY araştırma çıktılarının yayımlanmasını geliştirmek için Avrupa çapında bir değiş-tokuş ağına doğru:

- AB ülkelerindeki USYK'yla ilgili ulusal araştırma programlarının belirlenmesi ve ayrıntılandırılması,
- yakın zaman gerçekleştirilmiş ve halihazırda gerçekleştirilmekte olan projelere dair bilgi kaynaklarının saptanması,
- sözkonusu programlardan sorumlu kişilerin belirlenmesi ve bağlantıya geçilmesi
- uzun dönemli bir işbirliğine temel oluşturması amacıyla program yöneticilerinin katıldığı bir atölye çalışması düzenlenmesi,
- daha talebe dayalı araştırmalar geliştirmek ve çıktıların daha yaygınlaştırılması amaçlı yeni yol ve yöntemlerin önerilmesi.

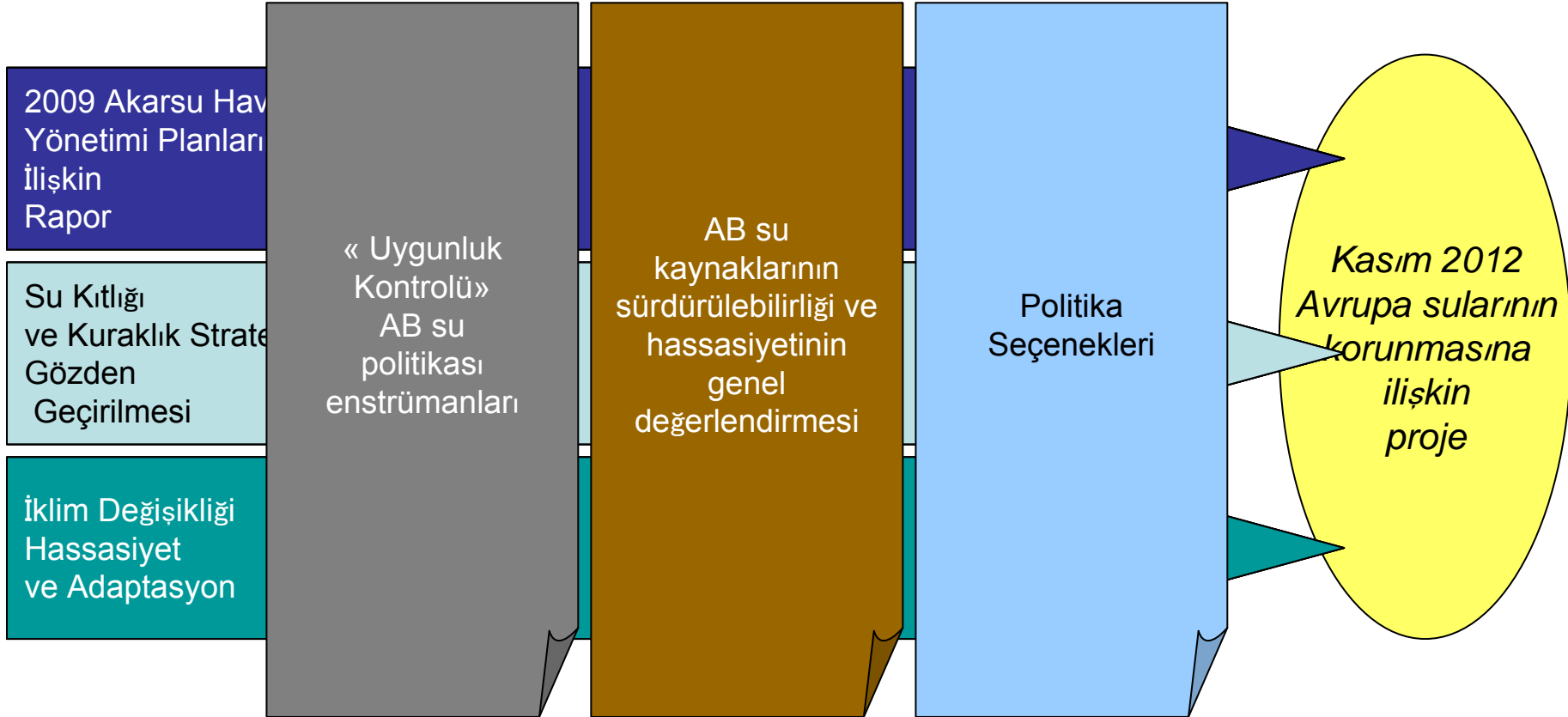
Synthesis of policy recommendations building on on-going assessments

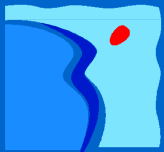
Impact Assessment



Devam eden deęerlendirmelere dayalı gerekleřtirilen politika nerilerinin birleřtirilmesi

Etki Deęerlendirmesi





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PARIS-FRANCE**

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NOW WE MAY GO AHEAD FOR BETTER BASIN MANAGEMENT IN EUROPE AND IN THE WORLD!



MERCI DE VOTRE ATTENTION!
THANK YOU FOR YOUR ATTENTION!

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www.riob.org

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riob2@wanadoo.fr

流域组织国际网

Vízgyűjtő Szervezetek Nemzetközi Hálózata

Международная сеть водохозяйственных организаций,

Réseau International des Organismes de Bassin

International Network of Basin Organizations

Red Internacional de Organismos de Cuenca

الشبكة الدولية لهيئات الأحواض