

Specific issues and challenges regarding the development of River Basin Management Plans in the EU: Example of a french basin: Adour Garonne

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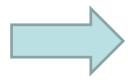


Outline

- 1-Institutional Frame work of Water policy
- 2-What is a Water agency?
- 3-River basin characterisation
- 4-Monitoring and status assessment
- 5-How to set environmental objectives?
- **6-Programme of measures**
- 7- Main findings



INSTITUTIONAL FRAME WORK OF WATER POLICY





Key dates

3 laws to reconcile economic development and ensure quality/quantity of water including ecosystems:

- 1964
- 1992
- =>2000 EU-Water Frame Work Directive
- 2006



French water policy principles



- √ A global integrated approach :
- √ At catchment area level: the « basin »
- ✓ Decentralized management and local decisionmaking
- ✓ Involvement of the population
- √ Water is free but water service has to be paid
 by the users





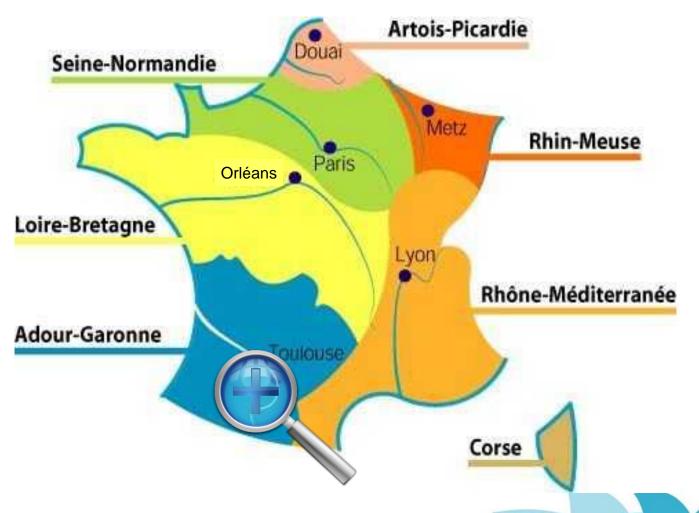
WHAT IS A WATER AGENCY?



6 water agencies

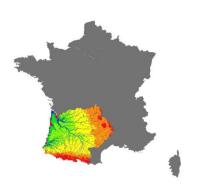
Since 1964!

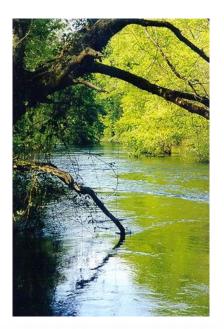
50 years old





What is a water agency?



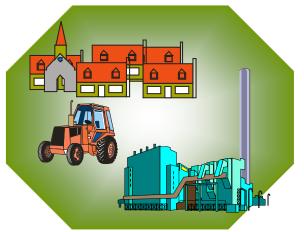


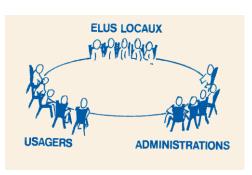
- A local public organisation
- Collect fees on water uses and Finance water protection and management measures in order to ensure all water use;
- Provide knowledge and data on water
- Financial autonomy
- No police power
- 50 years'old (1964)
- 256 staff in Adour Garonne (5 spots)



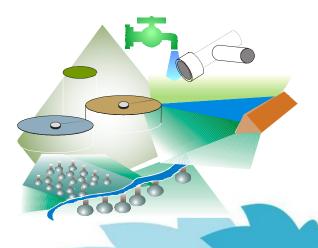
An autonomous fund based on the « polluter-pays » principle





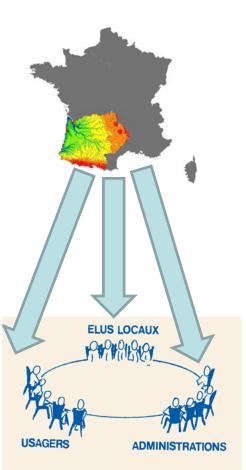


Water agency board





The river basin committee



Main stakeholders

54 elected officials (local authorities - 40%)

54 water users (40%)

27 State (20%)

- Appoint the representatives of the water agency board
- Approve the main lines of the Water agency 6-year programme
- a place to discuss on water issues
- Elaborate the 6 year Basin Water Management
 Master Plan





ADOUR GARONNE RIVER BASIN CHARACTERISATION



Welcome in Europe

India:

3.29 M km2 **313 inhab/km2**

Europe:

4.32 M km2 **112 inhab/km2**

Adour-Garonne: 56 inhab/km²





France & Adour Garonne basin

Adour-Garonne:

20% of national territory

7 M inhabitants

Rural and agricultural basin 56 inhab/km2 (118 in France)

2 large cities (1 Mon)

7 000 municipalities

35 cities > 20,000 inhab

4500 villages < 500 inhab





« Adour Garonne basin »

- 120,000 km waterways,
- Many lakes and reservoirs
- 2900 water bodies
- 420 km of Atlantic coast line
- Agricultural vocation (34% of french irrigated crops in surface) and an agribusiness industry
- High technology industries (aeronautics);
 Decline of traditional industries
- The Hydroelectricity 20% of national hydro-electrical energy production
- Fish and aquatic resources



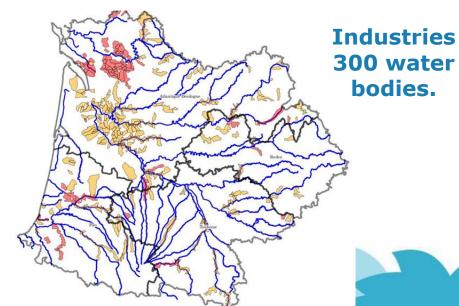


Main pressures =>impacts?

Data gathered to calculate water fees is used to increase knowledge Agricultural (NO3, pesticides) 1000 water bodies.

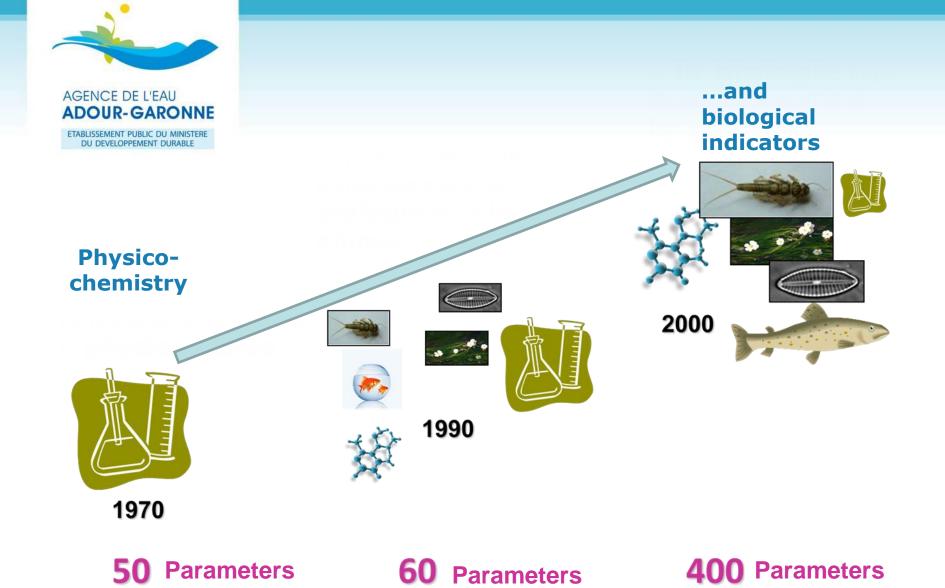


Domestic pollution 800 water bodies





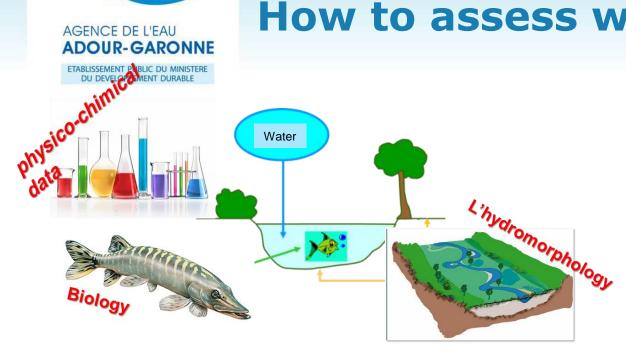
MONITORING PROGRAMMES AND STATUS ASSESSMENT



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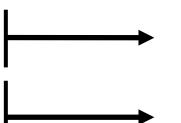
How to assess water status?





Ecological status

Very good Good Medium Low Bad









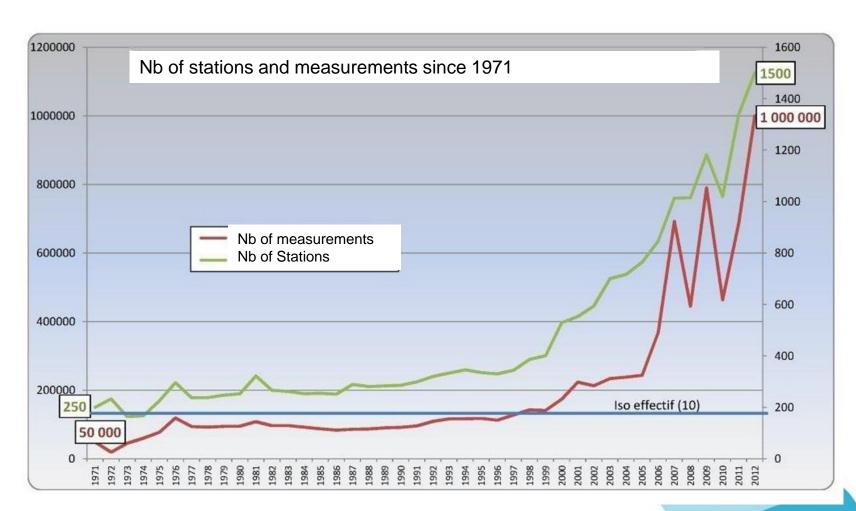
Chemical status





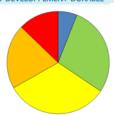


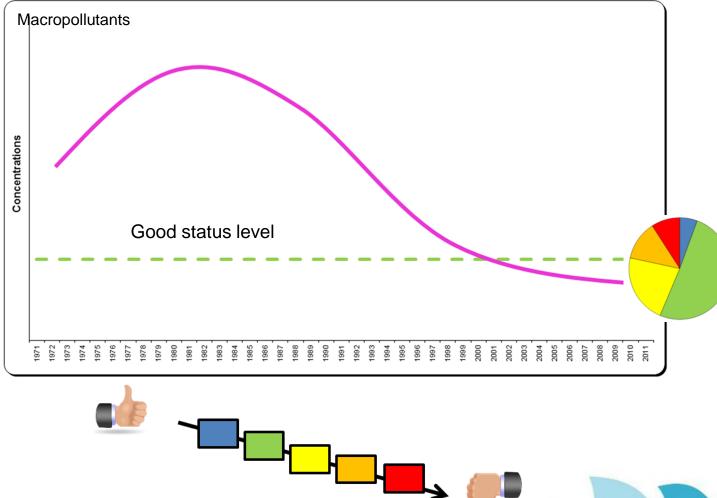
An increasing demand of datas/standards





Pollution decrease since 1971



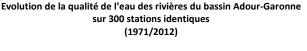




How to measure progress with increasing standards?

A progress in chemical

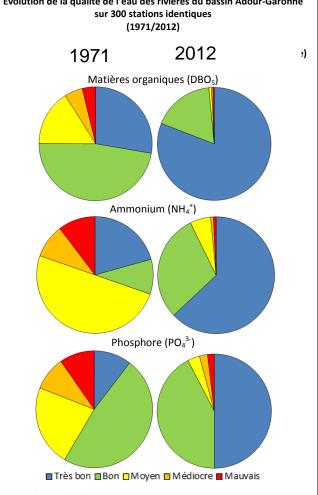
status



DBO₅

NH4⁺

PO4 3-



But low improvement in ecological status

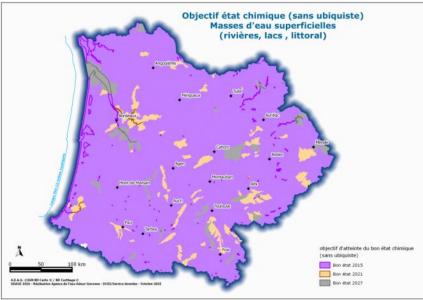
- Recent measurements
- Changes in parameters
- Diffuse pollution



HOW TO SET GOALS?

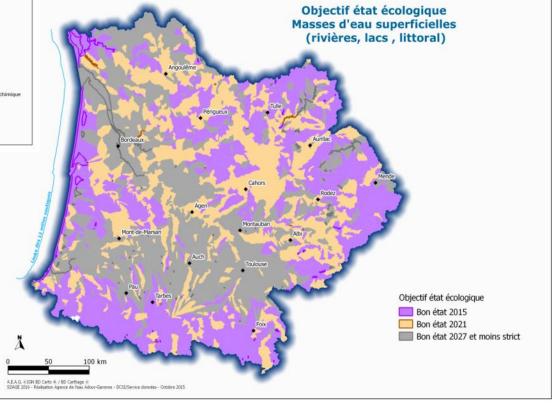


Surface water bodies



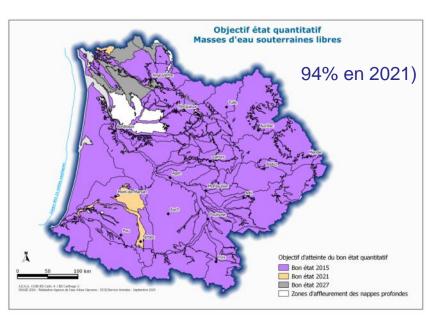
Goals:

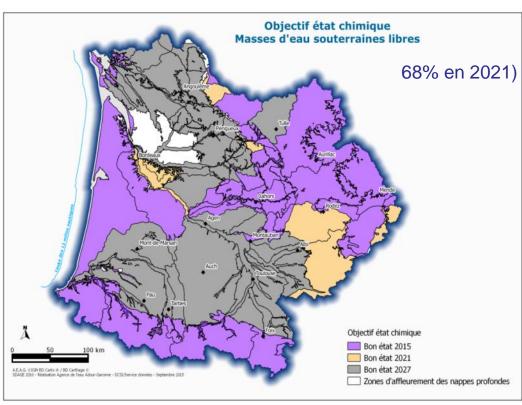
43% of rivers in good status in 2015 70% of rivers in good status by 2021 100% in 2027?





Ground Water bodies







How to set goals?

Risk: pressure*status
Compromise
Technical, social, economic,
feasibility
Cost-benefit, who pays what?



Proposal of the Water committee Public consultation



PROGRAMME OF WORK & MEASURES FOR 2016-2021

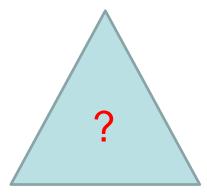


How to restore/preserve water quality-quantity?

Basin level Direct measures



Market



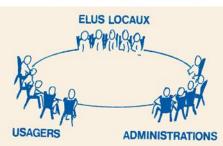
Regulation

Volontary measures

National level Indirect measures

- Agricultural policy
- Energy policy
- Industrial policy
- Land management
- Other environmental policies





500 M€/year

50% from water agency

Programme of measures

1-Water Governance

2-Pollution reduction

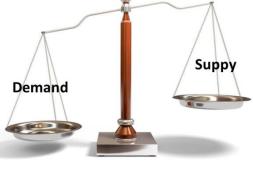
3-Water Quantity

4-Preservation of water and aquatic

environment







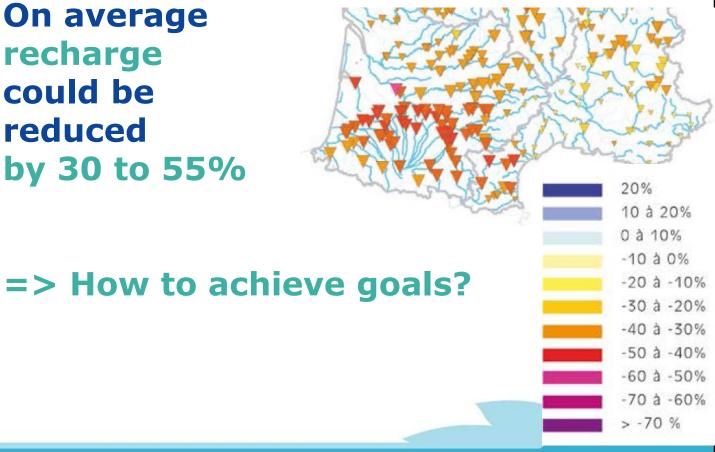




Climate change by 2050

-20 and -40% water flows in the summer period

On average recharge could be reduced by 30 to 55%





Findings from our experience



- How to involve stakeholders in planning and action
- Water management does not know administrative boundaries
- Need for a multi-scale approach
- Promote simplicity and step by step approach
- Think management an maintenance before investment;
- preventive>>curative measures
- Someone has to pay
- No regulation without transparency an control
- Need for combination of measures and therefore for coordination

?

Market

measures

Regulation