

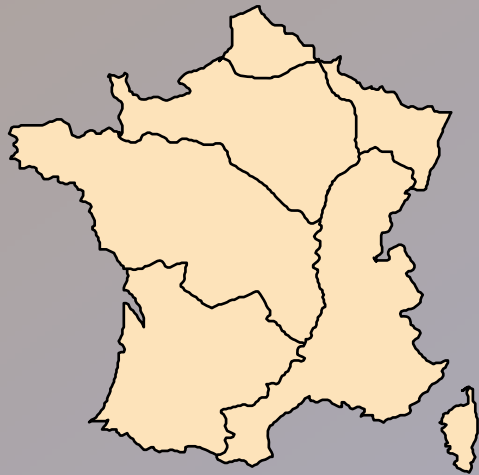
WATER FRAMEWORK DIRECTIVE

Implementation on the Rhône-Méditerranée Basin



François Guerber
Rhône-Méditerranée & Corse Water Agency

WFD implementation



National organisation and
co-ordination



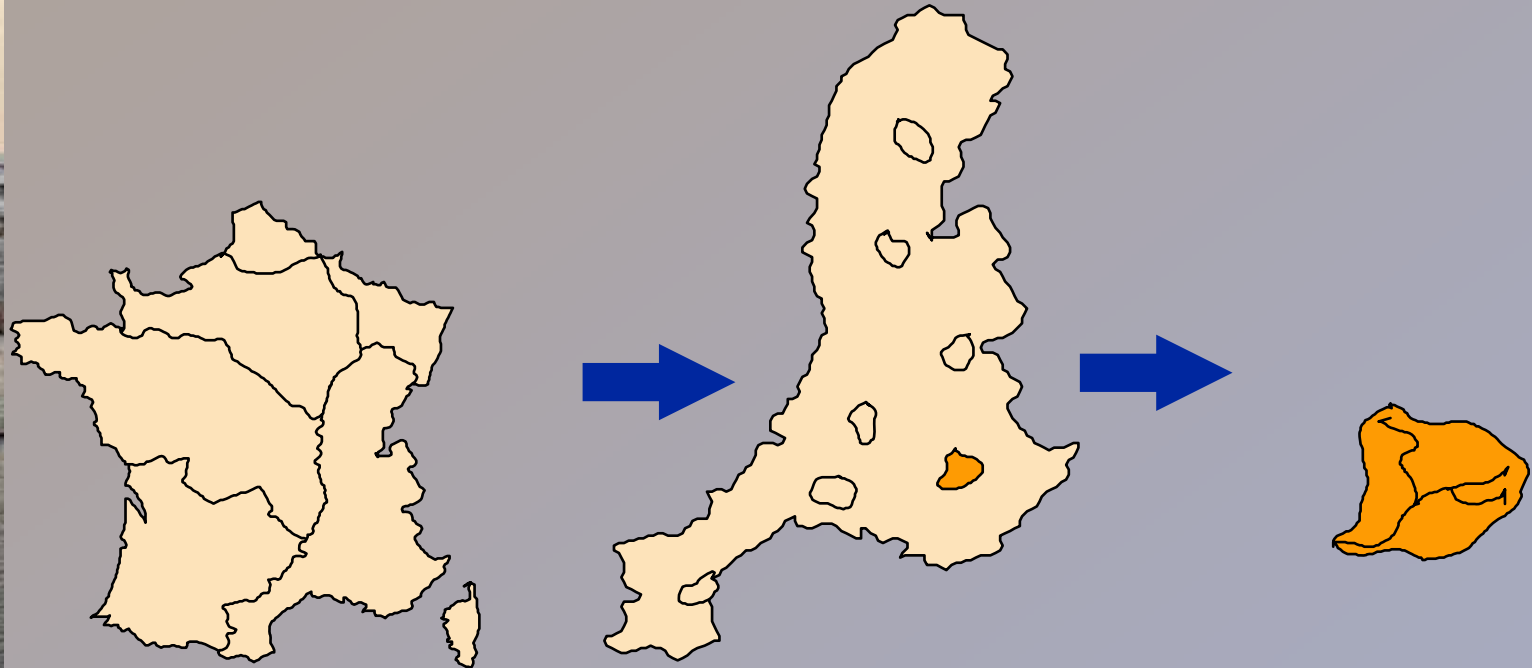
All along the process,
a double question :

- Which technical approach ?
- But also : which shared vision with local stakeholders, and so, which organisation to work with them ?



Concerning organisation.....

(cf. Water Law-1992 January 3th)



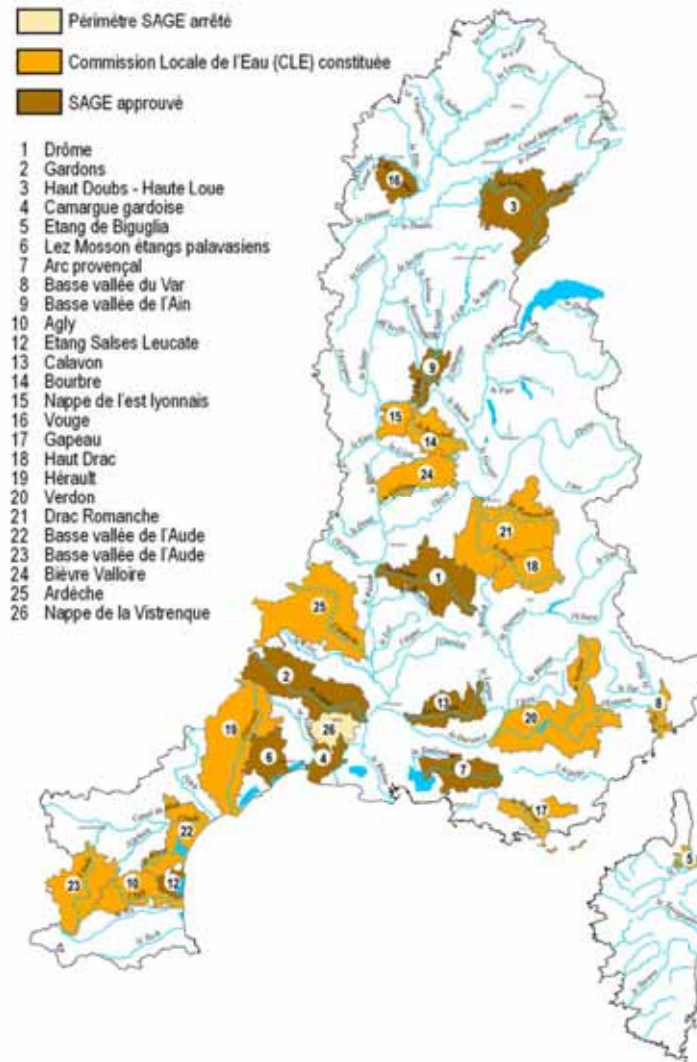
1

Local water management in the district

* The SAGE (water law 1992)

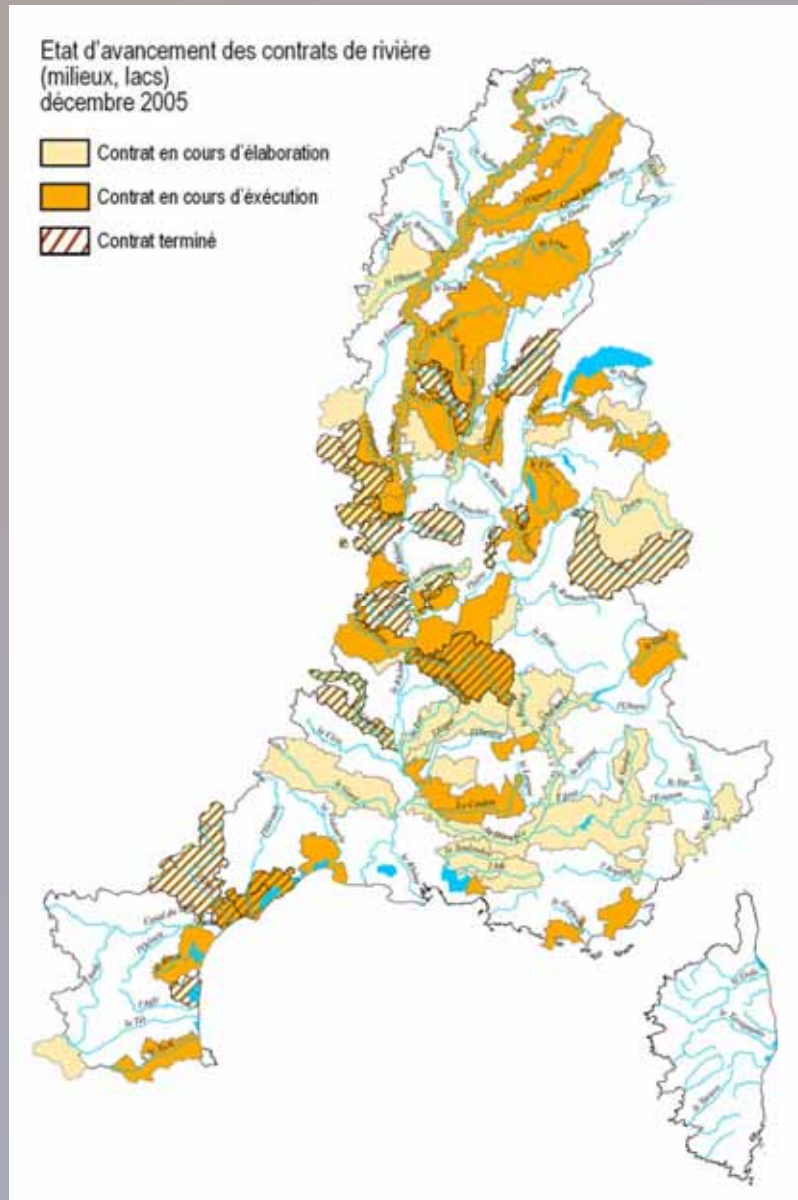


Etat d'avancement des SAGE
décembre 2005



Local water management in the district

* The river, lake, bay..contracts (since 1980..)



Local water management in the district



An opportunity for :

- A local expertise, an ability to contribute to the WFD
- The choice of the Basin Committee for the "co-construction" with local actors





FIRST STEP

Identification of water bodies at risk
of failing the environmental objectives



1

General approach

Data bases

Local expertise

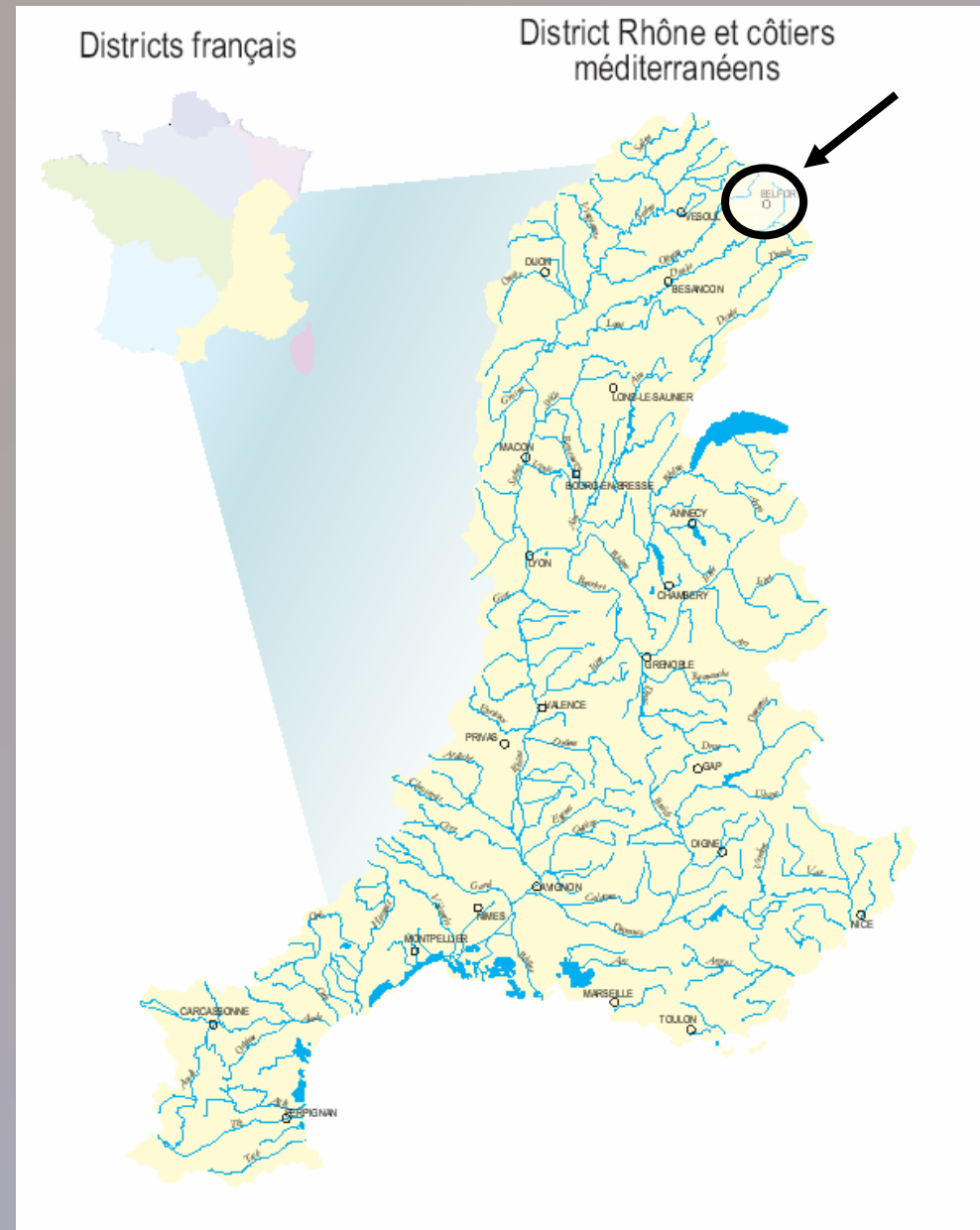
Pressures
identification and
impacts on present
status (2003)

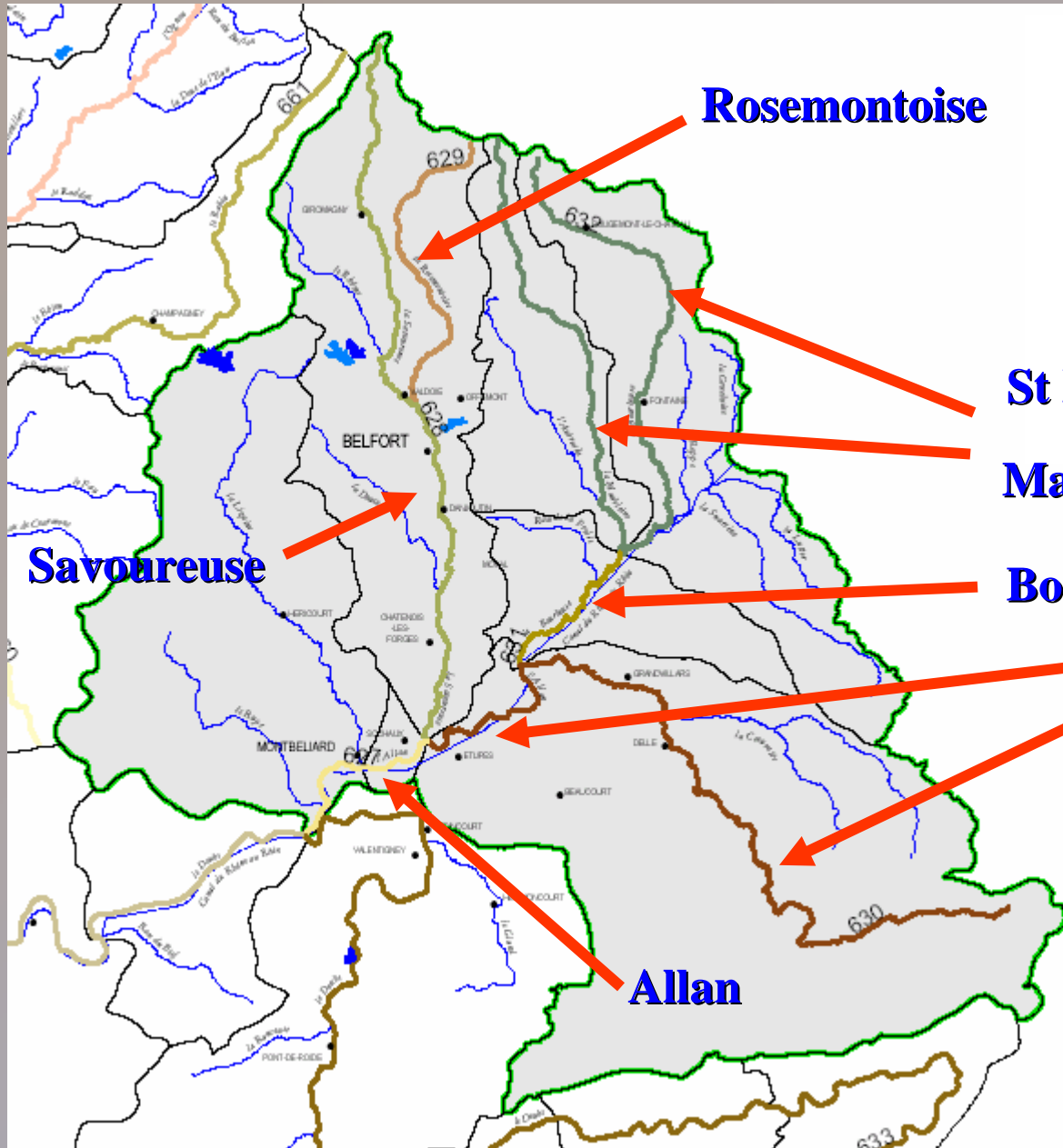
Trends evaluation and
forecasting
of the 2015 status

Risk assessment of environmental objectives
failure in 2015



Example : Allan watershed





Rosemontoise

**St Nicolas
+
Madeleine**

Bourbeuse

Allaine + Allan

Savoireuse

Allan



3

Data bases

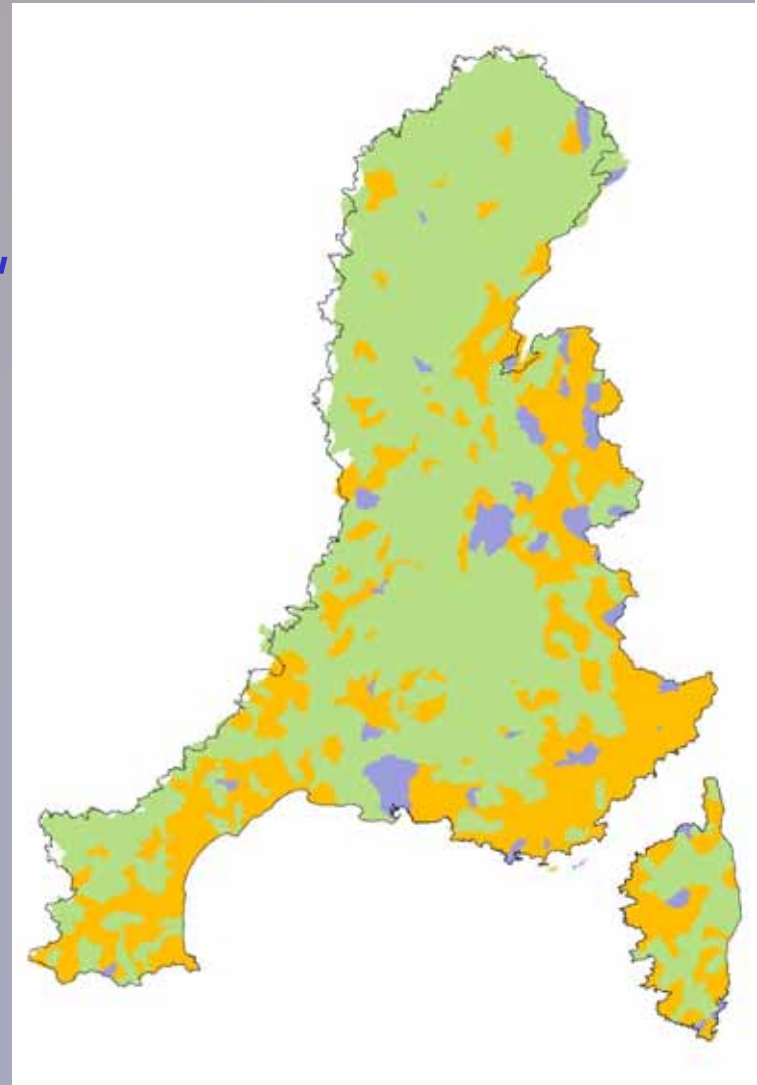
Water bodies quality and pressures in 2003

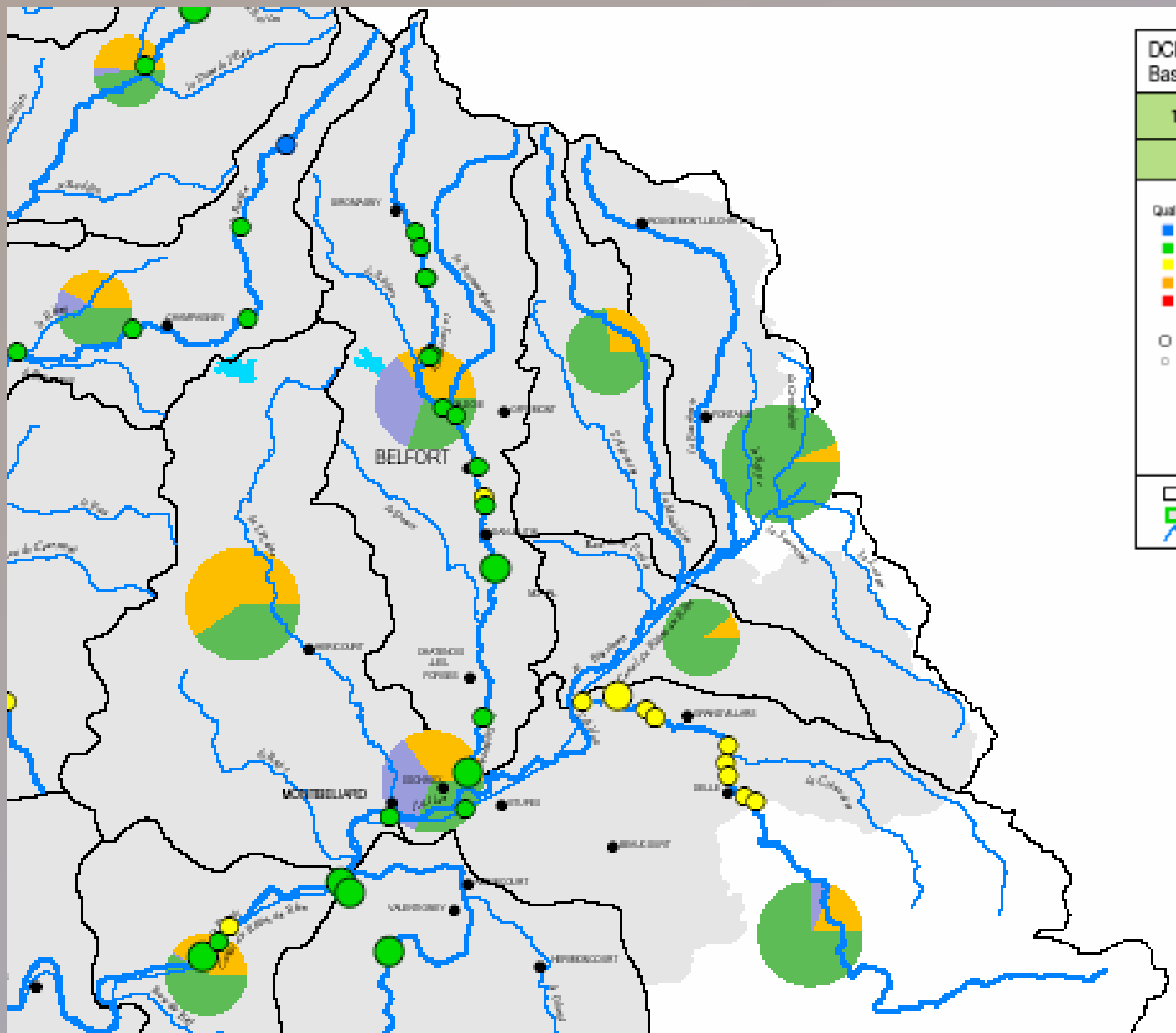
A - Pollution

(point and diffuse sources)

B - Morphological alterations,
water abstractions...

C - Biological data



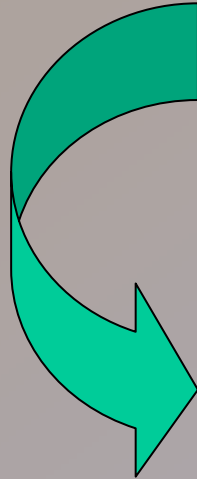


DCE		15 avril 2003
Bassin versant de l'Allan		
Thème 3 : Qualité des eaux et pressions polluantes		
Altération Nitrates		Rejets en NO3
Qualité ■ très bonne ■ bonne ■ moyenne ■ médiocre ■ mauvaise ○ Poste RN6 ou RCB ○ Poste Eau		■ Urbain ■ Industriel ■ Agricole (dominés en altitude) 1100 kg) 410 kg) 0,07 kg)
□ Bassin versant DCE ■ Bassin versant 〰 Mesure d'eau superficielle		Echelle : 1:250000 Copyright IGN BD Carthage V3 2002



4

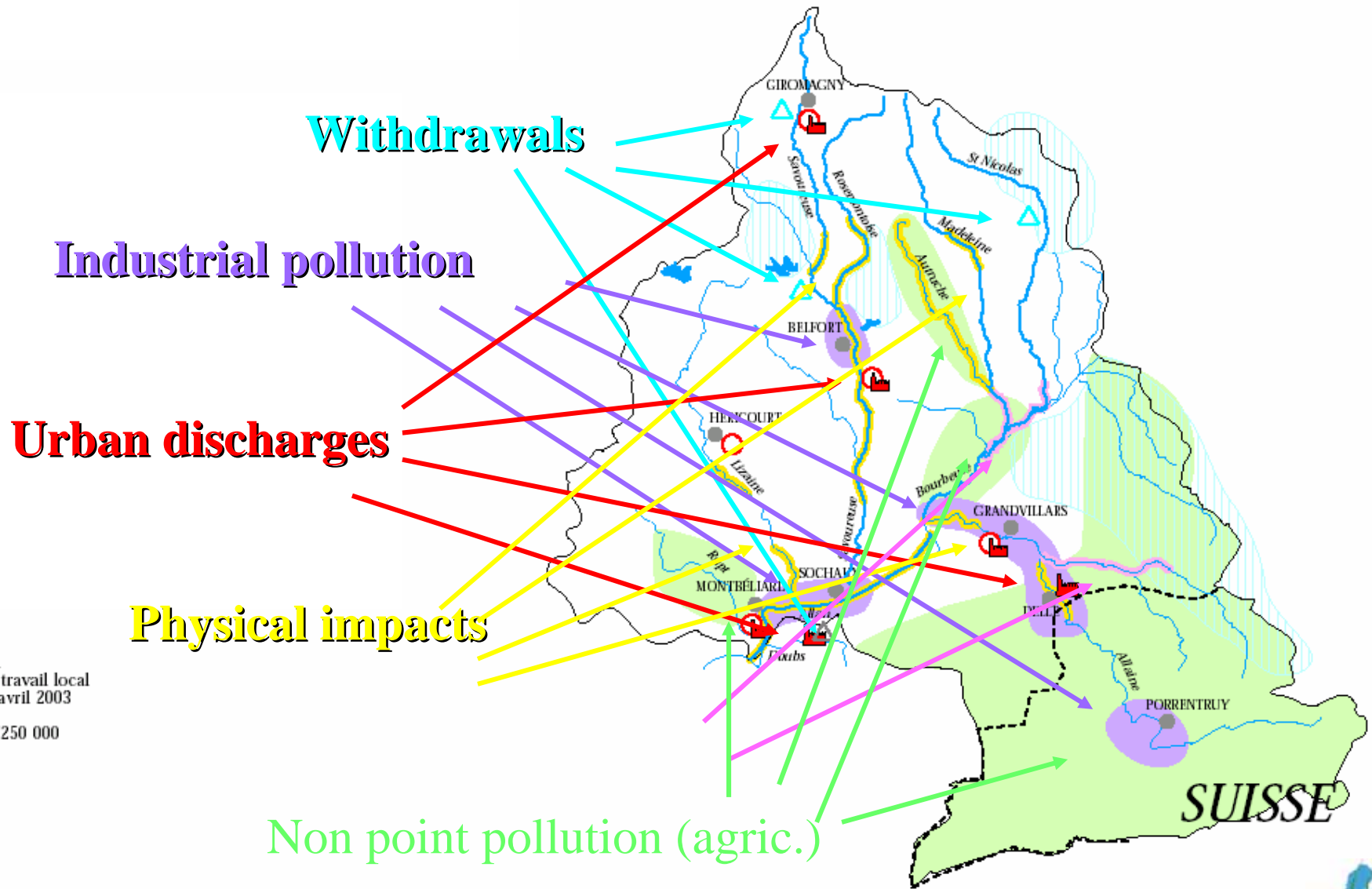
Data bases



To be compared and completed
with local expertise



Main pressures and impacts on water bodies

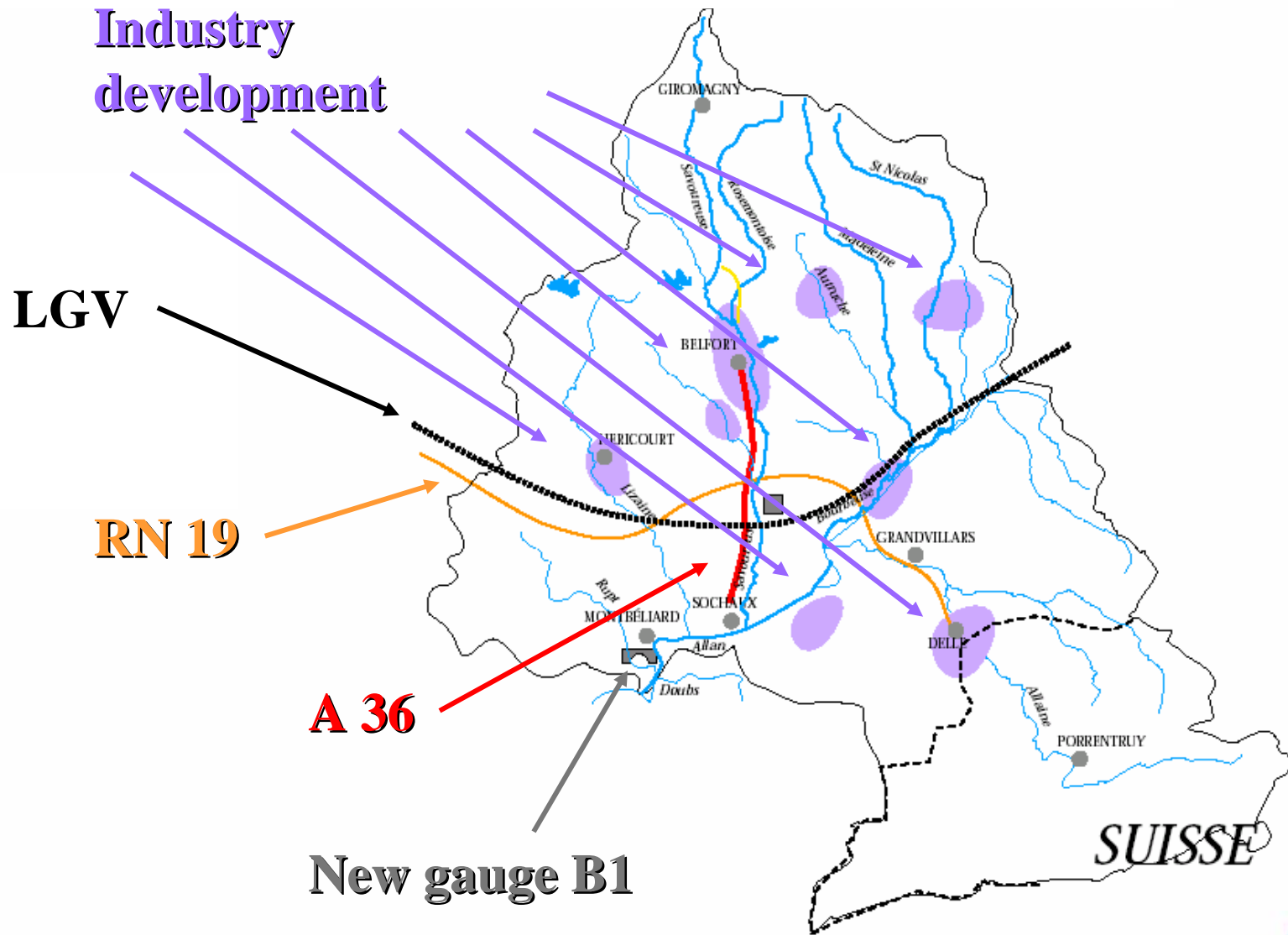


Élaboration
Groupe de travail local
Besançon, avril 2003

Échelle : 1/250 000



Uses and land planning : trends and forecasting



Élaboration
Groupe de travail local
Besançon, avril 2003

Échelle : 1/250 000



5

Method

Risk assessment of good status failure

Local expertise
+
standard data

Current
situation

Trends

2003

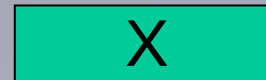
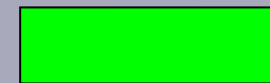
2015

Status / Organic M.

Urban impact (Org. M.)

Industries impact (Org. M.)

Agriculture impact



Physico-chimie

	Allaine/Allan		Allan		Rosmontoise	
	2003	2015	2003	2015	2003	2015
Qualité du milieu/Mo et Oxydables	Yellow	Green	Green	Green	Green	Blue
Qualité du milieu/matières azotées	Orange	Green	Green	Green	Blue	Blue
Impact des MO urbaines	XXX	X	X	X	X	0
Impact des MO industrielles	XXX	X	X	X	0	0
Impact des MO agricoles	X	X	0	0	0	0
Qualité du milieu / nitrates	Yellow	Yellow	Green	Green	Green	Blue
Qualité du milieu/matières phosphorées	Yellow	Green	Green	Green	Blue	Blue
Impact des nutriments urbains	XX	X	X	X	X	0
Impact des nutriments industriels	XX	X	X	X	0	0
Impact des nutriments agricoles	X	XX			0	0
Qualité du milieu/métaux	Yellow	Green	Orange	Green		
Qualité du milieu/ pesticides	Green	Green	Green	Green		
Qualité du milieu/ autres micropolluants	Yellow	Green	Yellow	Yellow		
Impact des toxiques urbains	XX	X	XX	X	0	0
Impact des toxiques industriels	XX	X	XXX	XX	0	0
Impact des toxiques agricoles	X	X	X	X	0	0
Qualité du milieu/ eutrophisation	Green	Green	Yellow	Yellow	Blue	Blue
Impact des prélèvements et des modifications du régime hydrologique	0	0	X	X	X	X
Impact des ouvrages transversaux	XX	X	XX	XX	0	0
Impact des aménagements sur la fonctionnalité transversale	0	0	XXX	XXX	0	0
Impact des pressions directes sur le vivant						
Autres Impacts						
Qualité hydrobiologique (invertébrés)	Yellow	Green	Yellow	Yellow	Green	Blue
Qualité piscicole	Yellow	Green	Yellow	Yellow	Yellow	Green
Principaux problèmes vis à vis du Bon Etat	Apport nutriments Suisse. Activités industrielle		Modification du milieu - forte concentration urb. Et ind.		Impact des étangs	
Risque de Non atteinte du Bon Etat	Faible		Moyen		Faible	
Milieu susceptible d'être classé comme fortement modifié	Non		Non		Non	



6

Which results

- 1 - Definition of water bodies boundaries
- 2 - Main problems identification to achieve good status in 2015
- 3 - Risk assessment of failing the environmental objectives for each water body
- 4 - A first identification of the heavily modified water bodies



7

Rhône-Méditerranée district waterbodies

737 river waterbodies

179 groundwater waterbodies

60 natural lakes et 49 dams on rivers

35 transition waterbodies

32 coastal waterbodies

154 artificial waterbodies :

21 artificial lakes

121 irrigation canals

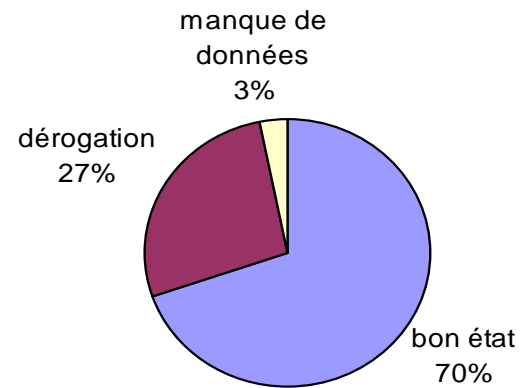
12 navigation channels



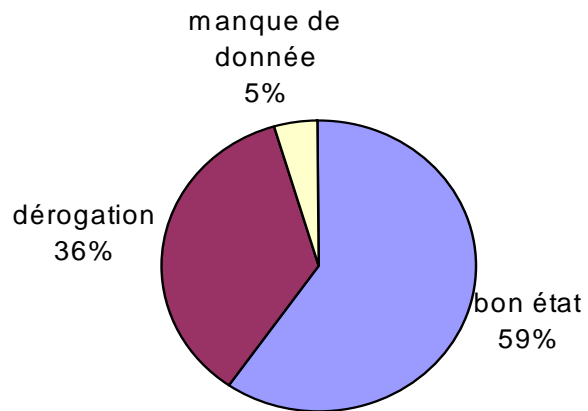
8

2015 objectives (*Risk assessment of failing the environmental objectives*)

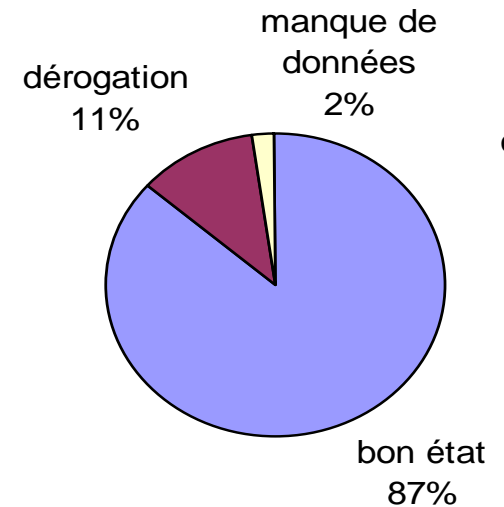
Coastal waterbodies



Rivers



Groundwaters

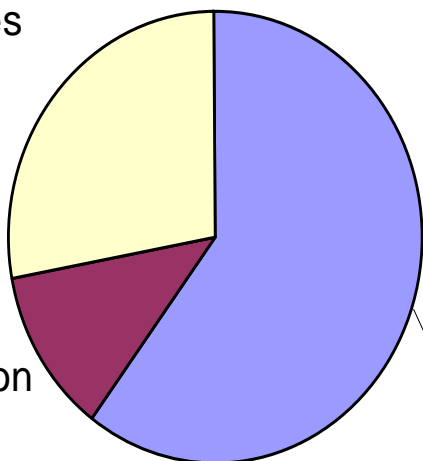


Groundwaters

Initial present status

manque de données
28%

dérogation
12%



bon état
60%

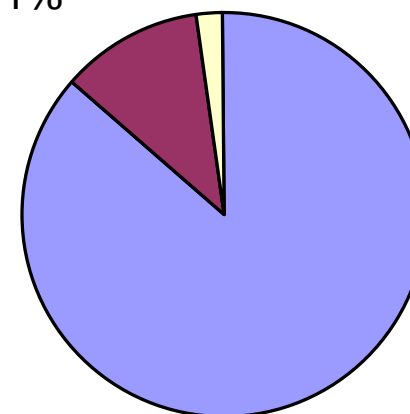
Implementation
of measures



Deeper characterization

dérogation
11%

manque de données
2%



bon état
87%



SECOND STEP

Identification of significant issues
linked to WFD implementation



1

Method

1-Risk assessment
(local level)

2-Sectorial analysis
(large basin level)

- › hydroelectricity
- › pesticides
- › artificial water bodies
- › industries
- › ...

3-Basin committee

Identification of
11 significant
issues



The 11 significant issues

- 1 Local management to be implemented
- 2 Consistency with territorial policies
- 3 Water quantity and economic demand
- 4 Hydroelectricity and renewable energy
- 5 Physical restoration and environmental objectives
- 6 Flood protection and WFD
- 7 Hazardous substances
- 8 Pesticides and agriculture
- 9 Public health and environmental approach
- 10 Social and economic capacity to achieve the WFD objectives
- 11 Efficiency of current water policy



3

The need to clarify

- 1- ...the types of solutions
(organisation, legal, technical,
political...)
- 2- ...the good level to find an answer
(local, basin, national, european)

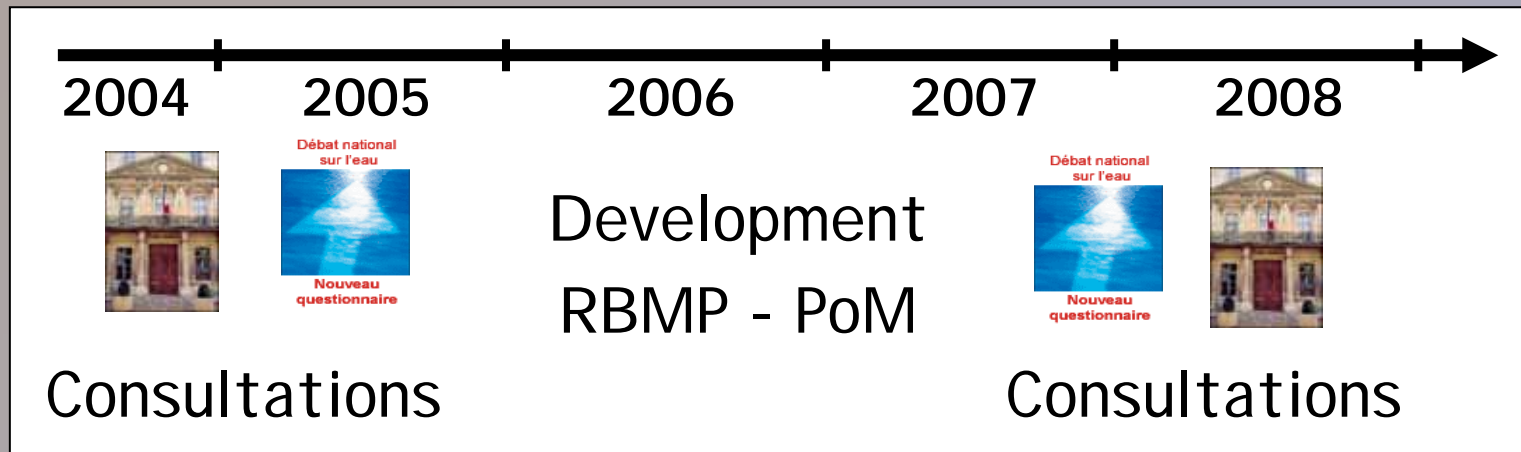


		Organisation Participation	Legislation Regulation	Funding	Socio- economical tools	Technical tools	National strategy	European strategy
1	Local water management							
2	Territorial policy							
3	Water quantity management							
4	Hydroelectricity							
5	Hydromorphology restoration							
6	Flood							
7	Hazardous substances							
8	Pesticides							
9	Health							
10	Economy & environment							
11	Efficiency, evaluation							



4

Planning





THIRD STEP

Finalisation of the programme of measures
(Action Plan 2009-2015)



Programme of measures

→ Implementation of the monitoring programme

- ***2007 : surveillance control***
- ***2008 : operational control***

→ River Basin Management Plan and programme of measures

- ***2007 : draft RBMP and 9th Water Agency's Programme of intervention***
- ***2009 : action plan 2009 - 2015***

Thank you !

