

WATER FRAMEWORK DIRECTIVE

Implementation works

National level and district level

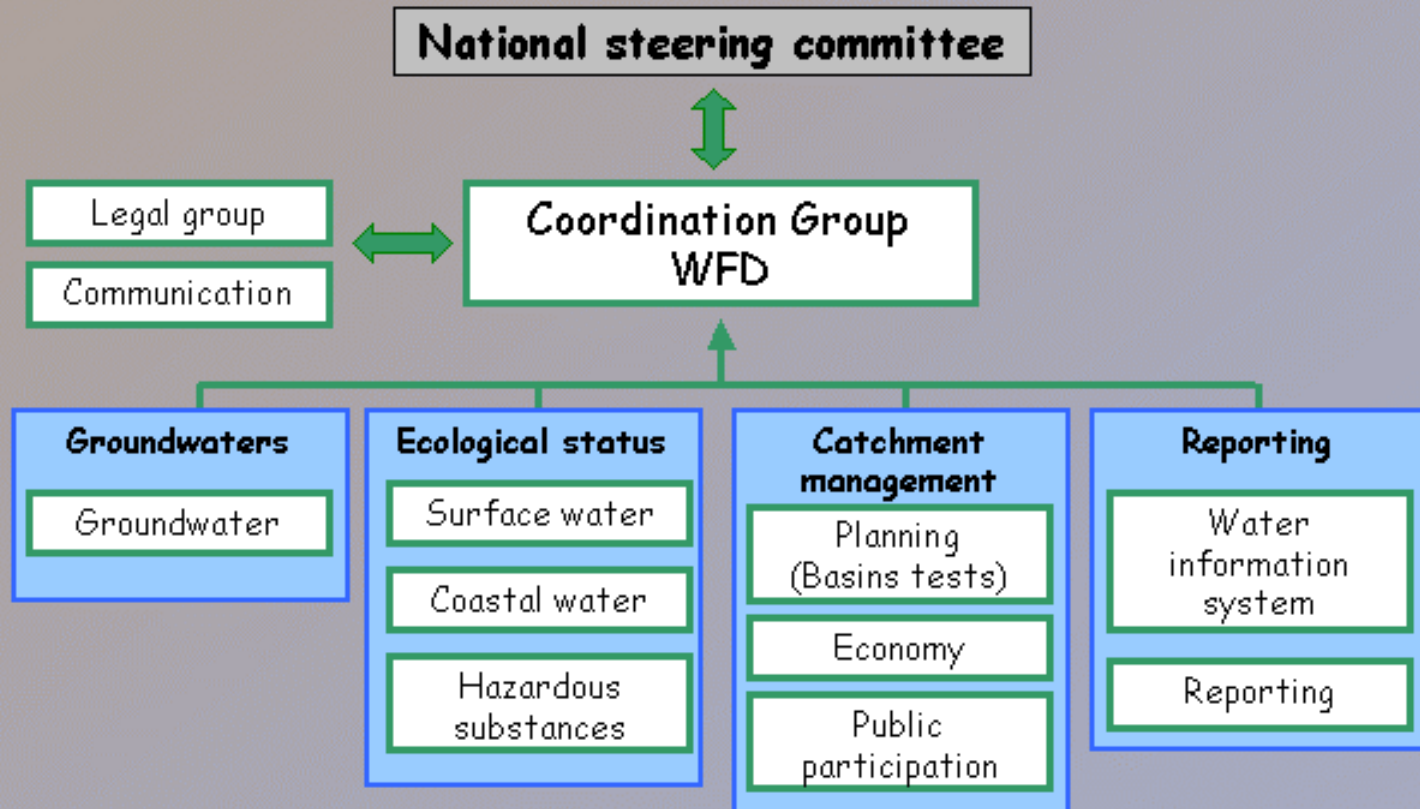


Jean-Louis SIMONNOT
Rhône-Mediterranee & Corse water agency

National organisation of implementation works

1

French national organisation



2

French guidances

- Characterization (art 5&6)
- Pressures and impacts
- Groundwater (delimitation and characterization)
- Heavily modified water bodies
- Groundwater monitoring
- Economy
- Public participation

- Communication

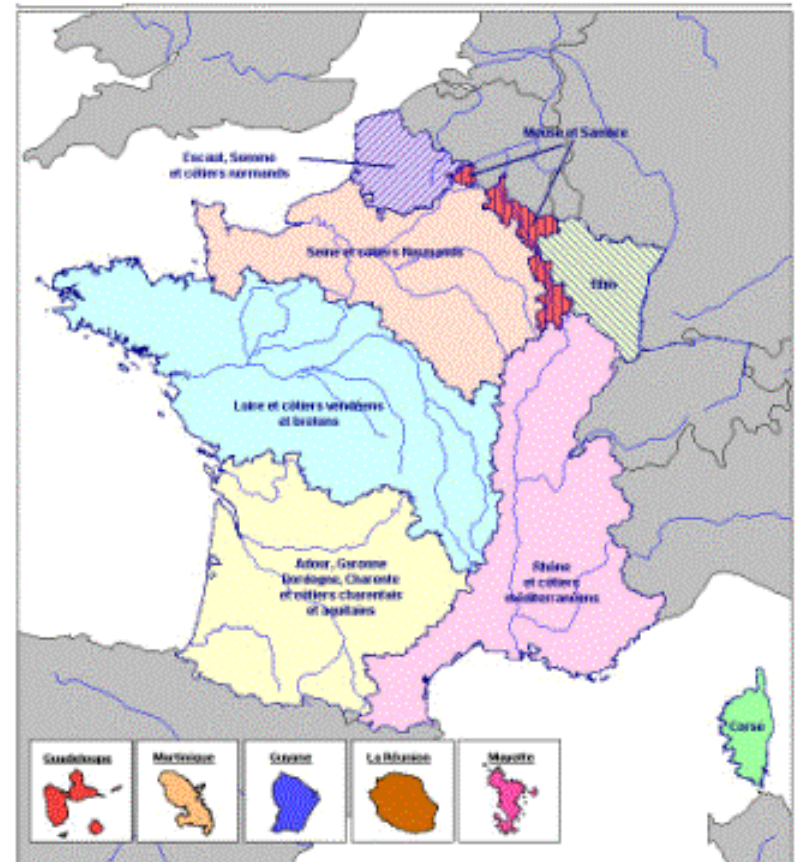


Law 2004 April 21th

- ❑ WFD transposition
 - ✓ Delimitation of the district by the administrative authority
 - ✓ Implementation works by the basin committee
 - ✓ Planning policy strengthening (new documents)
 - ✓ Objectives are defined in the water masterplan of the district
 - ✓ Public participation
- ❑ Watershed management plan (SAGE), obligatory tool
- ❑ Compatibility of town planning documents

River basin districts in France

- 13 basins of which
 - 3 international :
 - Escaut
 - Meuse et Sambre
 - Rhin
 - 5 over seas



4

New documents

- ✓ **Etat des lieux (2004)**
 - District characterization
 - Protected areas register

- ✓ **Programme of surveillance (2006)**

- ✓ **Programme of measures (2009)**
 - Actions to achieve the objectives of the WFD and the objectives of the water masterplan

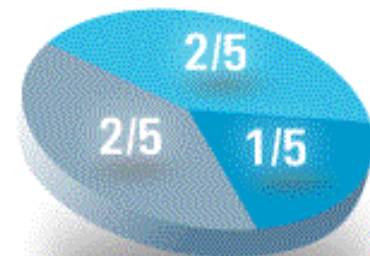
Basin committee

- Drafts and adopts SDAGE (Water management masterplan at the district level) prior to state approval and monitors their application
- Gives its advice on SAGE (Water management plan at the watershed level)
- Directs water agency financial intervention policy by approving its intervention programme
- Is made up of local authorities, users and state representatives

2/5 élus régionaux, départementaux et municipaux

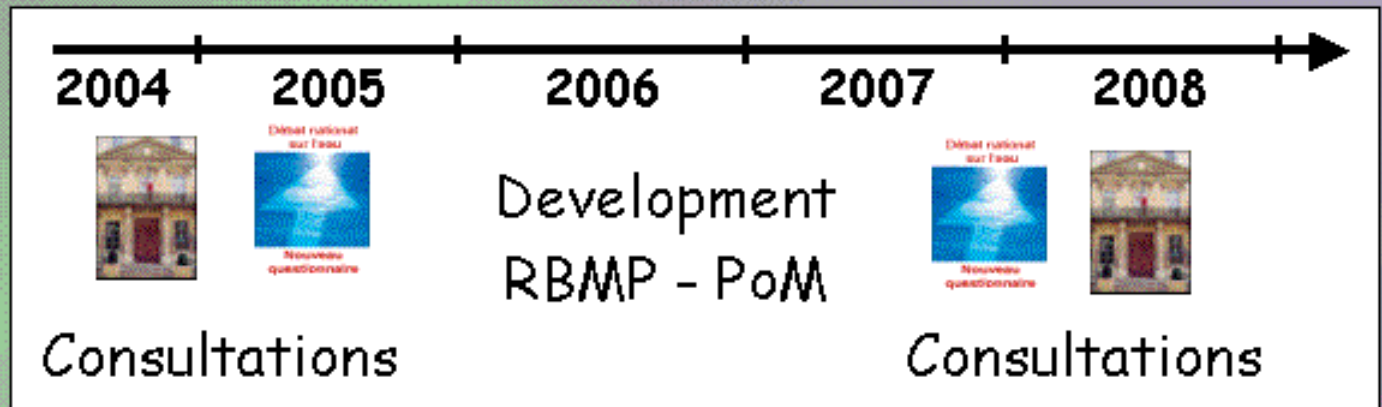
2/5 représentants des principaux utilisateurs d'eau dans le bassin : industriels, agriculteurs, pêcheurs, associations de consommateurs et de protection de l'environnement

1/5 représentants des différents ministères concernés



5

Planning



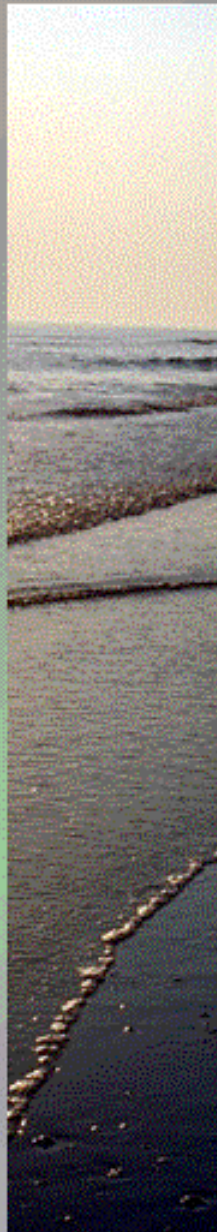
6

Main issues in discussion

- Planning
 - Programme of measures
- Surface water
 - Good status and assessment system
- Public consultation
 - First consultation in 2005
- Groundwater
 - Proposal for a directive
- Hazardous substances
 - Development of the directive

Organization of implementation works

Rhône-Méditerranée & Corse districts



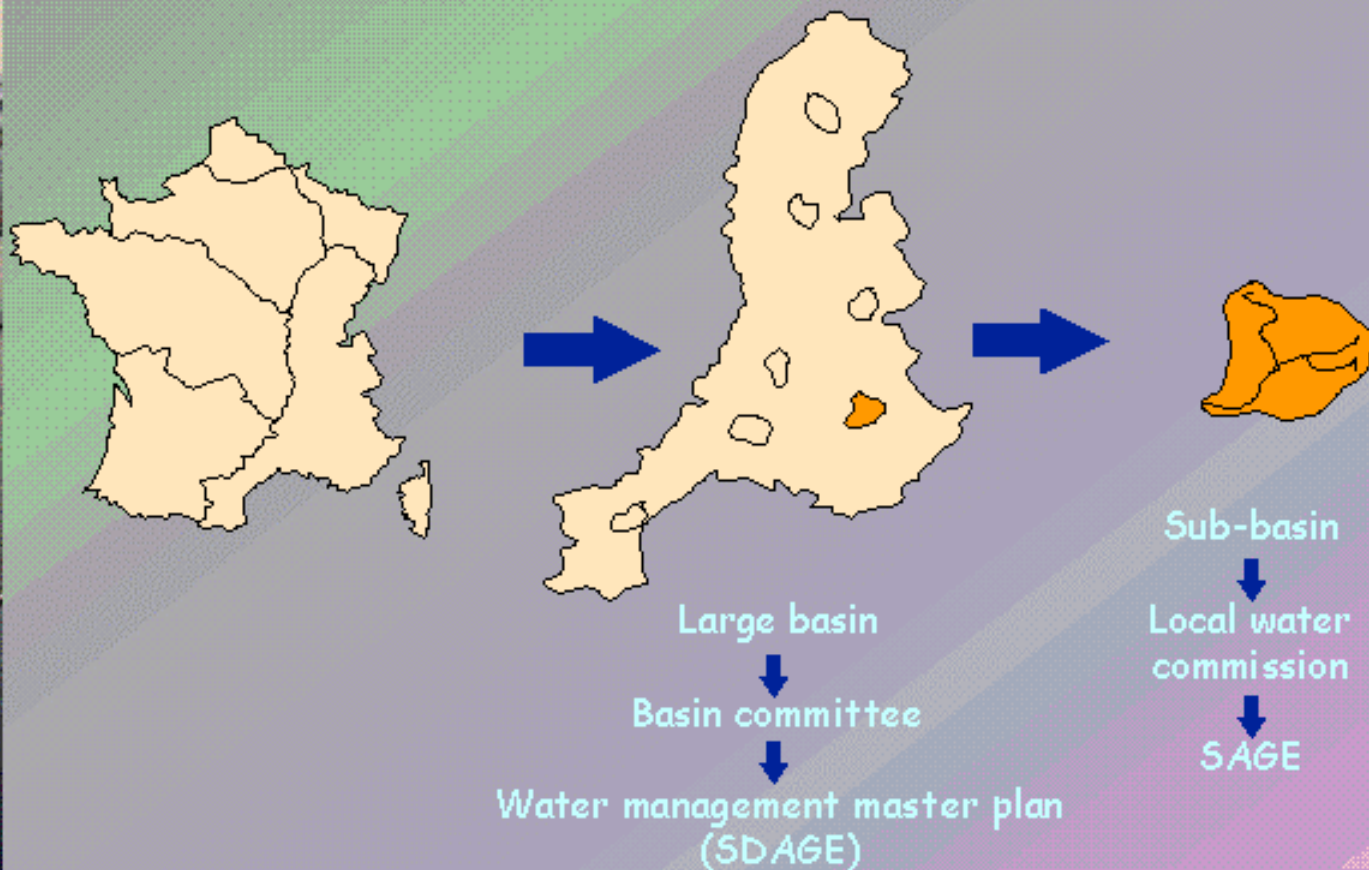
All along the process,
a double question :

- Which technical approach ?
- Which organisation with local stakeholders ?



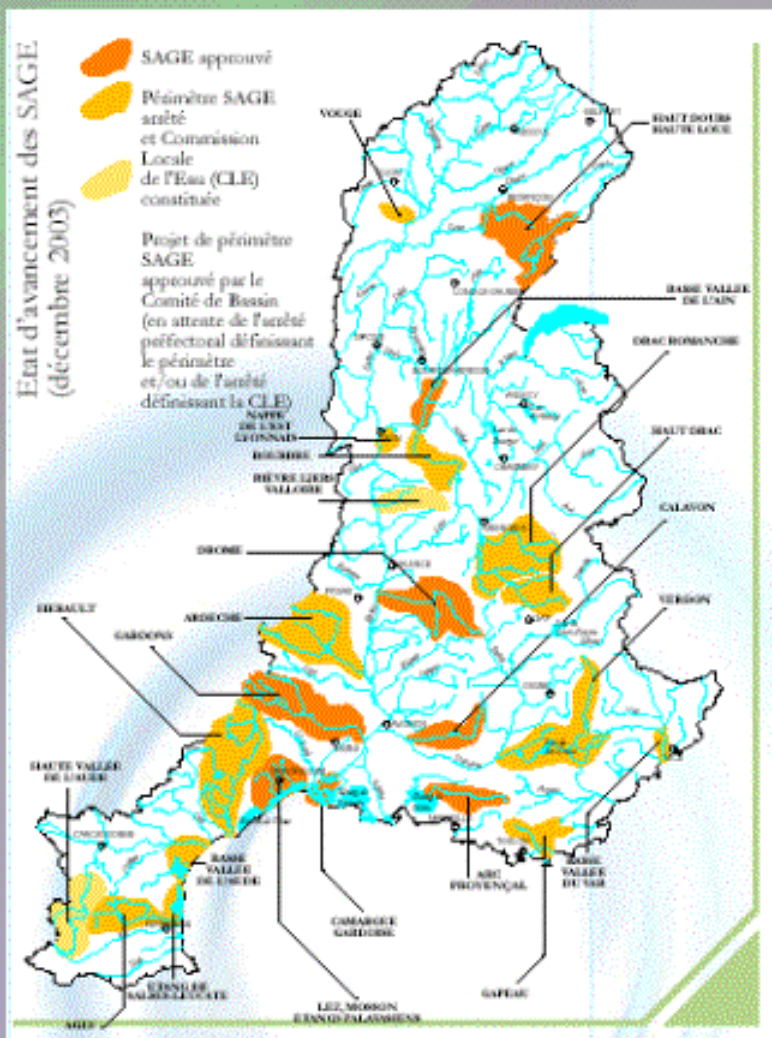
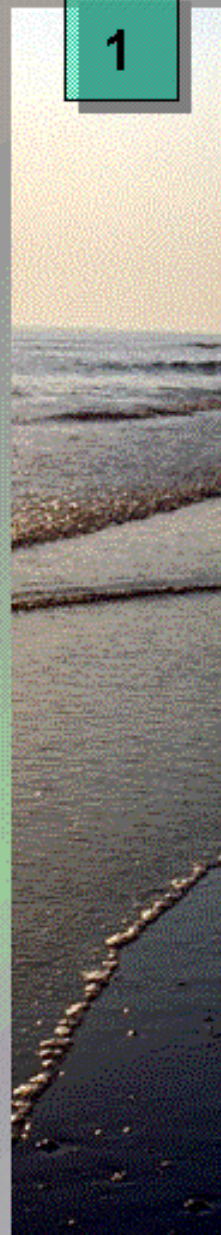


Concerning organisation..... (cf. Water Law-1992 January 3th)



Local water management in the district

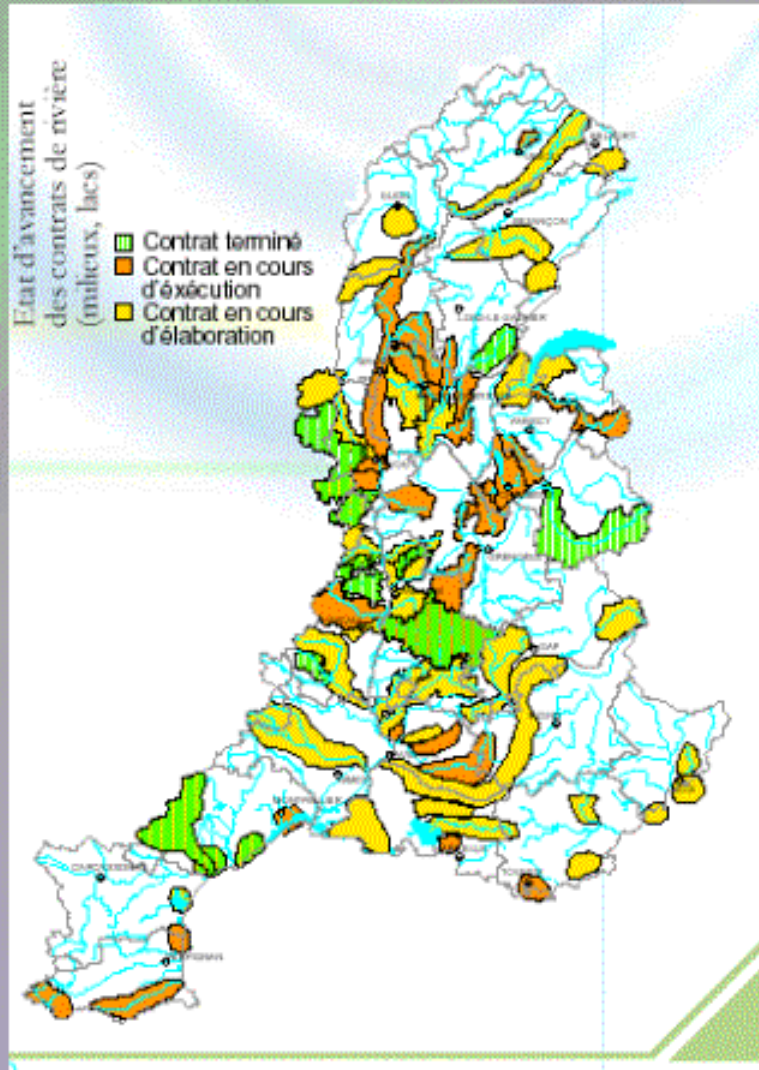
* The SAGE (water law 1992)



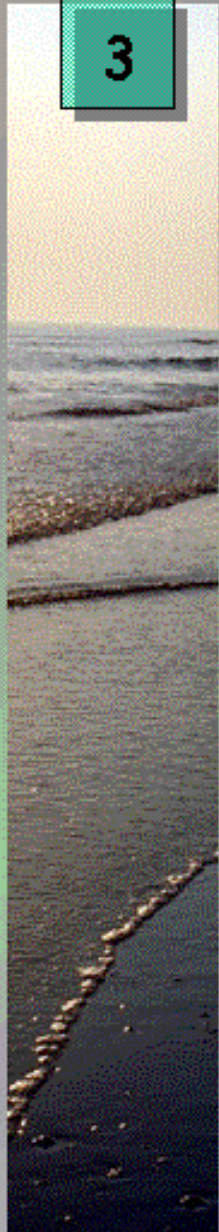
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Local water management in the district

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



Local water management in the district



4

Local water management in the district



An opportunity for :

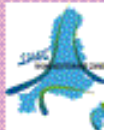
- A local expertise, an ability to contribute to the WFD
- The choice of the Basin Committee for the "co-construction" with local actors





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)

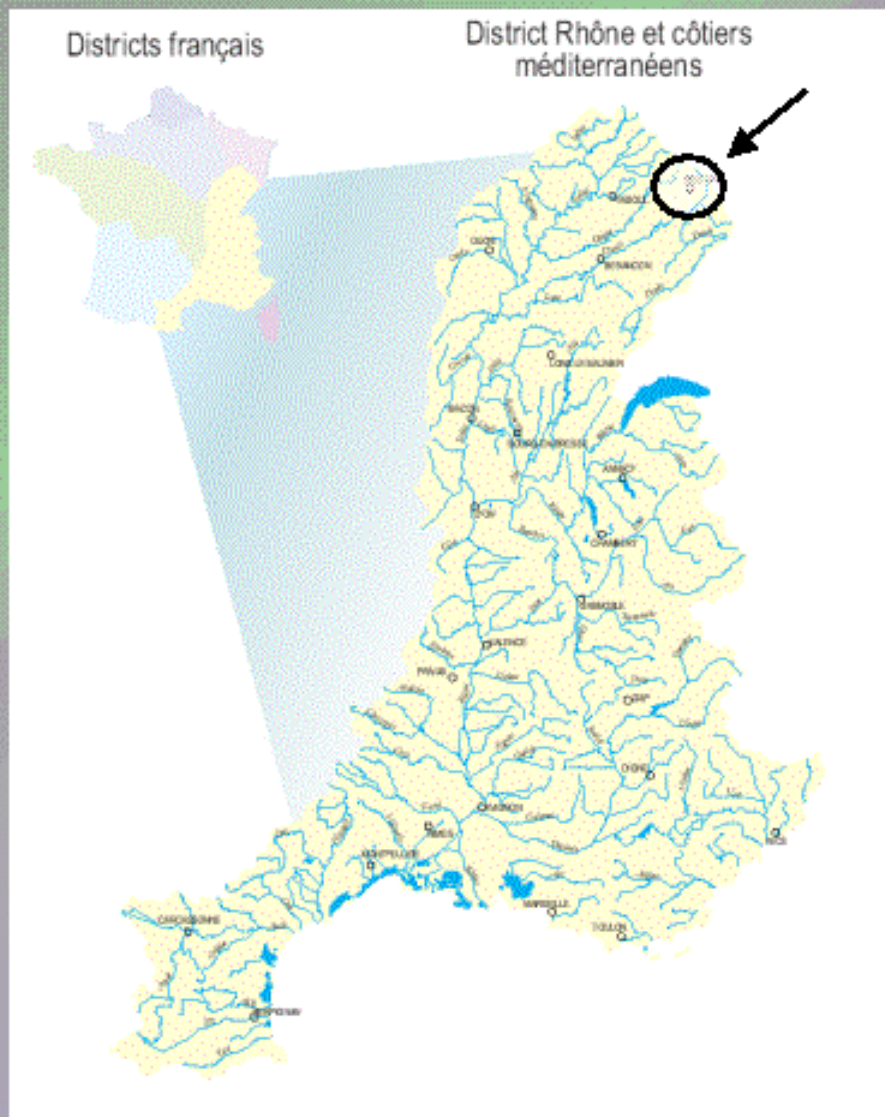
Trends evaluation and
forecasting
of the 2015 status

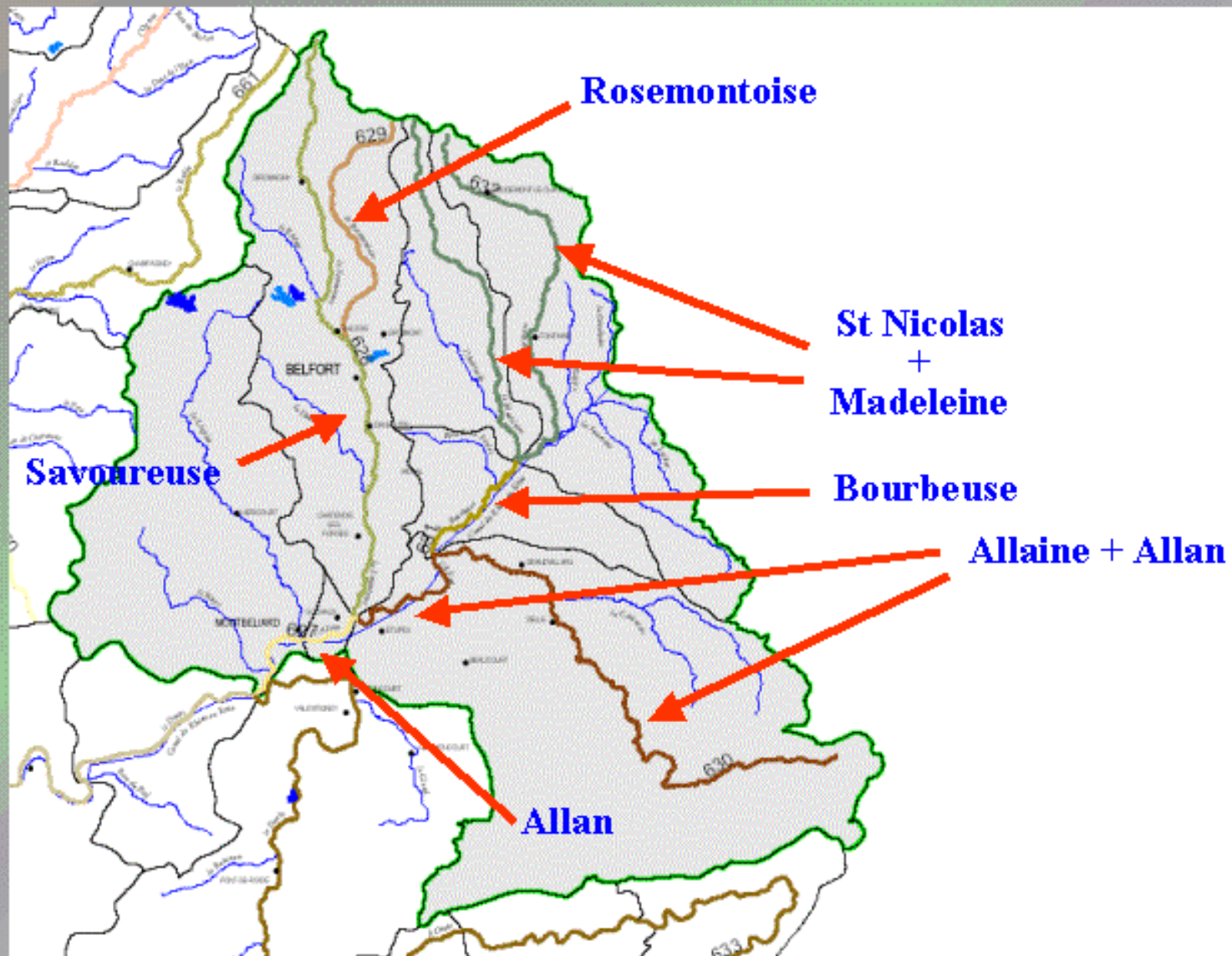
Risk assessment of environmental objectives
failure in 2015



2

Example : Allan watershed





3

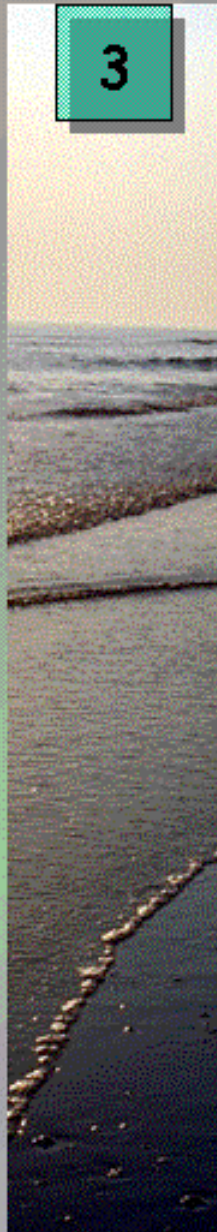
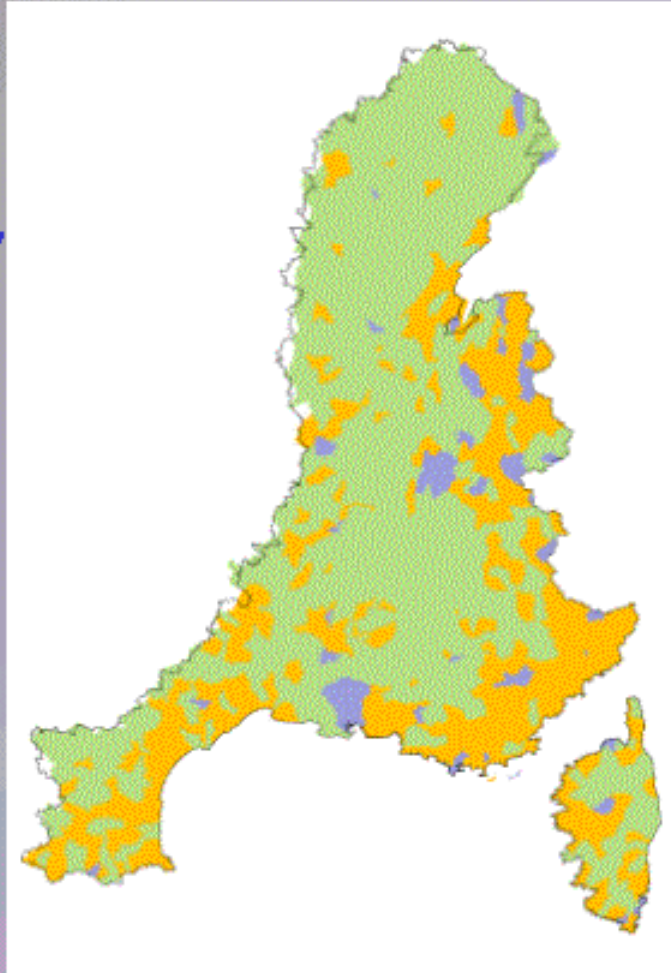
Data bases

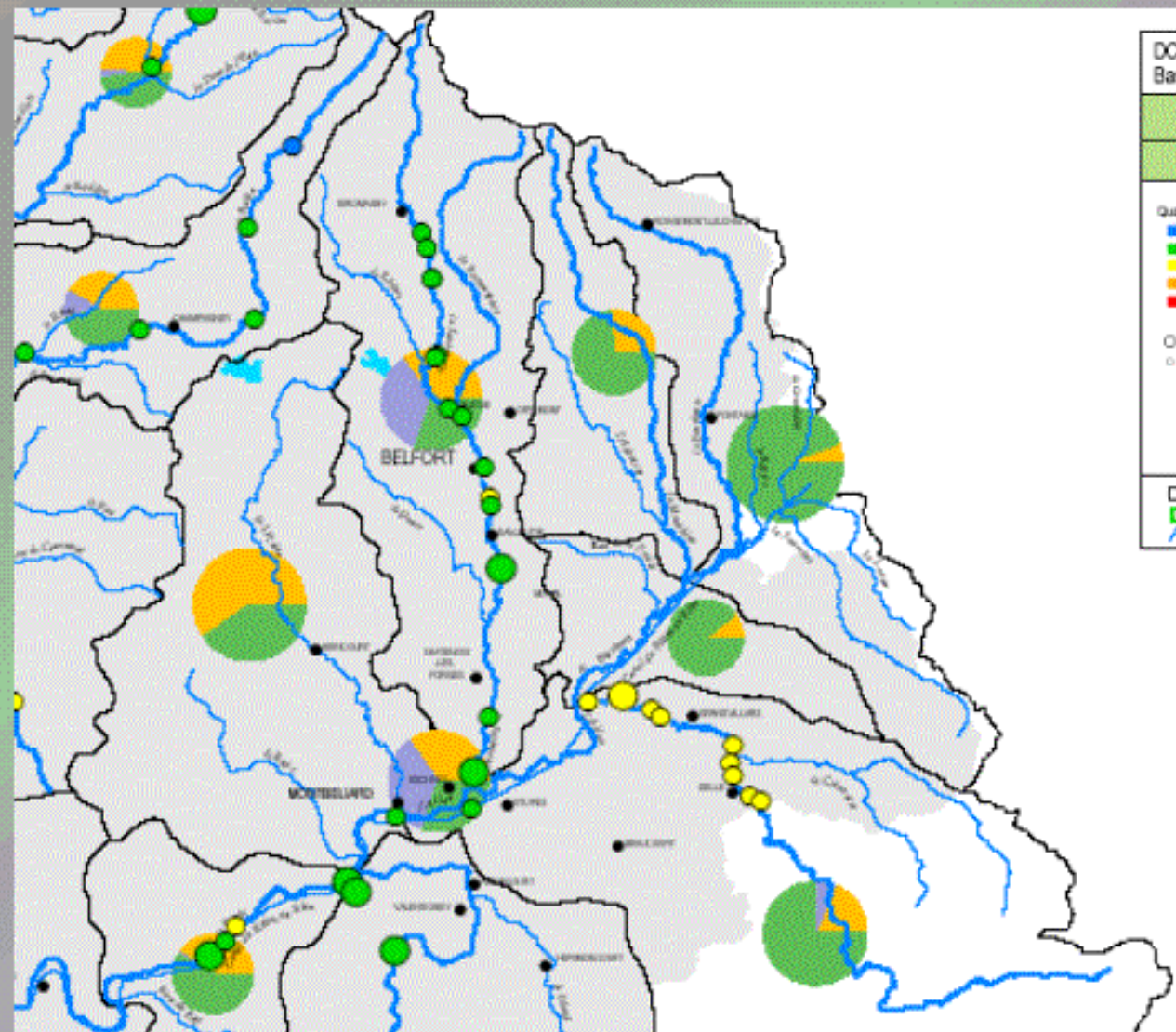
Water bodies quality and pressures in 2003

A - Pollution
(point and diffuse sources)

B - Morphological alterations,
water abstractions...

C - Biological data





DCE
 Bassin versant de l'Allan 15 avril 2003

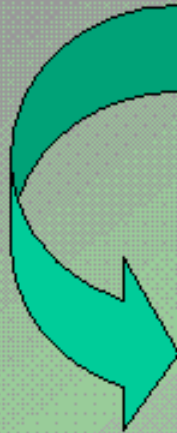
Thème 3 : Qualité des eaux et pressions polluantes

| Altération Nitrates | Rejets en NO3 |
|---|---|
| <p>Qualité</p> <ul style="list-style-type: none"> ■ eau terre ■ terre ■ moyenne ■ médiane ■ mauvais <p>○ Poste FIB ou FCB ○ Poste State</p> | <ul style="list-style-type: none"> ■ Urbain ■ Industriels ■ Agricoles (fermes en altitude) <p>○ 1000 kg ○ 400 kg ○ 100 kg</p> |
| <p>□ Bassin versant DCE □ Bassin versant 〰 Mesure d'eau superficielle</p> | <p>Echelle : 1:25000 Copyright IGN © Collège V3 2003</p> |



4

Data bases

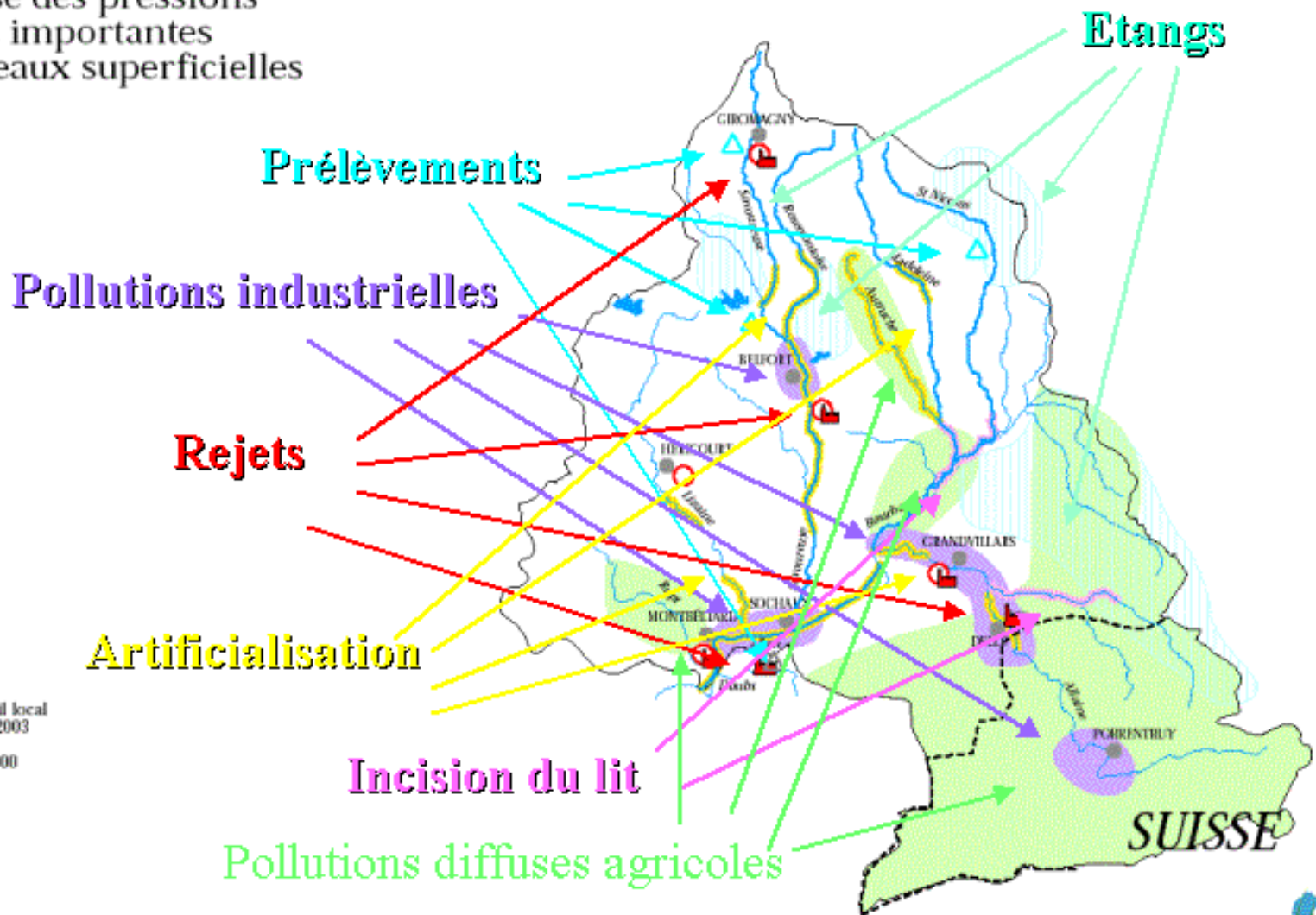


To be compared and completed
with local expertise



Bassin versant de l'Allan

Synthèse des pressions les plus importantes sur les eaux superficielles



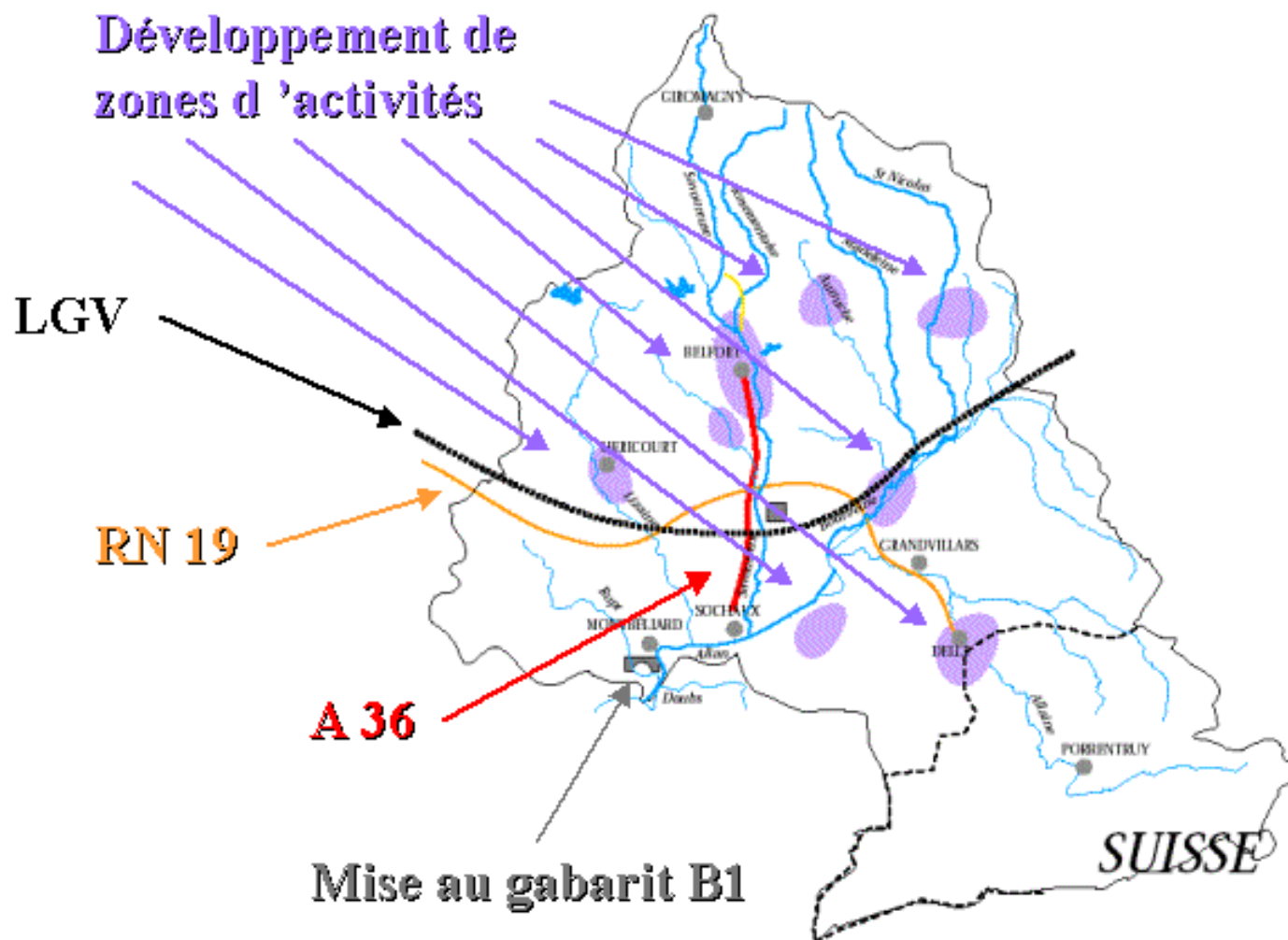
Élaboration
Groupe de travail local
Besançon, avril 2003
Échelle : 1/250 000



Bassin versant de l'Allan

Scénario tendanciel

Développement de zones d'activités



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

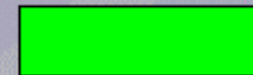
2015

Status / Organic M.

Urban impact (Org. M.)

Industries impact (Org. M.)

Agriculture impact



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



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 | XXXX | X | X | X | X | 0 |
| Impact des MO industrielles | XXXX | 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 | XXX | X | X | X | X | 0 |
| Impact des nutriments industriels | XXX | 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 | |



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

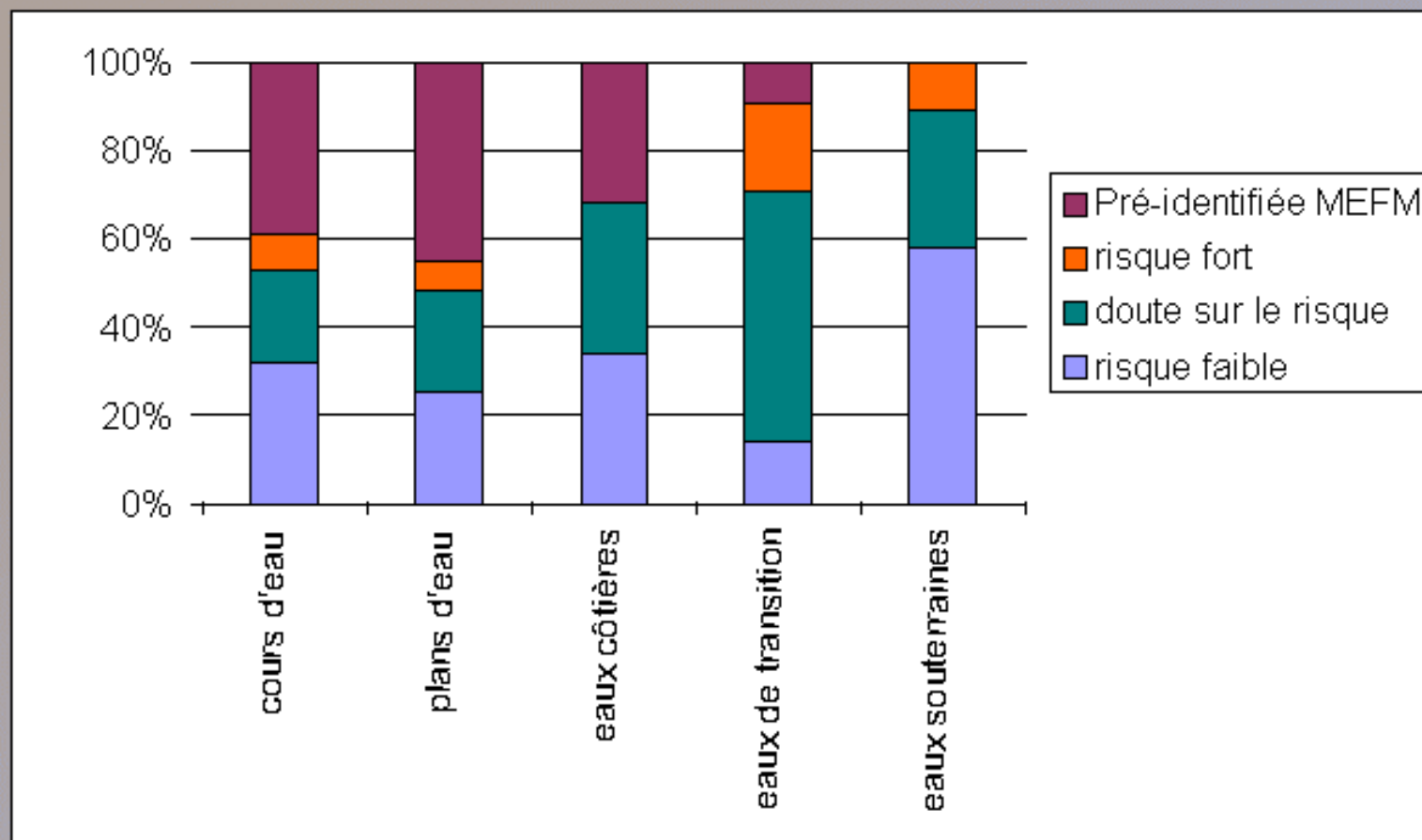
121 irrigation canals

12 navigation channels

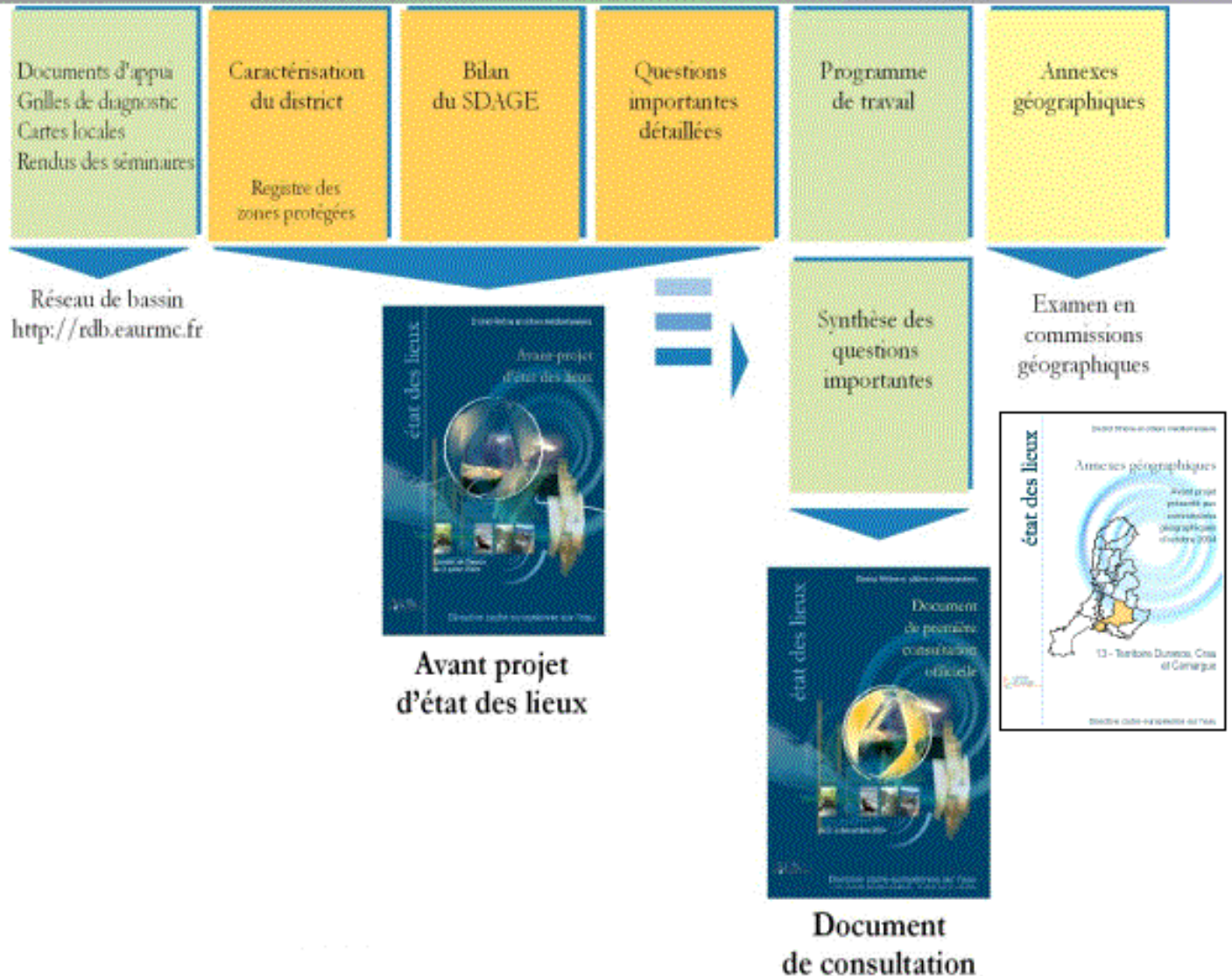


8

Risk assessment of failing the environmental objectives



Draft of the district characterization





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
(+ intermediate level)

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





AND NOW

How to go further ?

If we agree with these significant issues...
we have to find efficient answers...



1

Example N°1

My water body is at risk because nobody takes care of it...

- 1 - I know some good experiences somewhere else
 - 2 - The water law gives me efficient tools for local management (SAGE)
 - 3 - If I succeed to convince local stakeholders
- ...and if the basin agency gives me subsidies...that's ok



Answers at local and basin levels



2

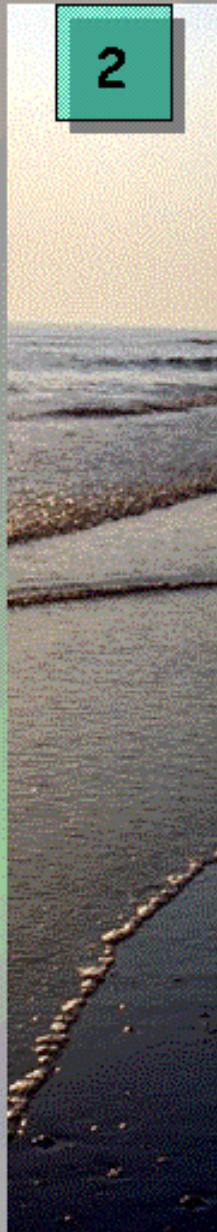
Example N° 2

My water body is at risk because of an hydroelectricity project...

- 1 - In one case there will be a local solution, with current legal and economic instruments
- 2 - In another case, the basin or national level will be concerned, due to economic and strategic considerations



Answers at local or higher levels



3

Example N° 3

A group of water bodies is at risk because of pesticides from agriculture...

- 1- I need technical solutions
- 2- I have to take into account economical aspects
- 3 - The national legal context is not so clear
- 3 - The CAP has to play a main role



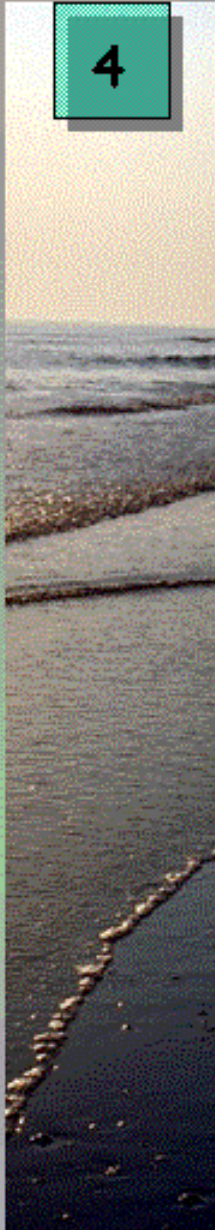
Complexity and strong links with other policies at higher levels



4

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 | | | | | | | |



Specific issues for the mediterranean area

- ↪ 1 - How to define specific reference conditions for mediterranean rivers
- ↪ 2 - How to take irrigation canals into account
- ↪ 3 - How to ensure the objectives consistency between different water body categories: groundwater, surface water, ...
- ↪ 4 - How to conciliate socioeconomic development and environmental objectives achievement ?



Conclusions

- ↳ 1 - Efficient answers will be found at local and basin levels but...
- ↳ 2 - ...there are national key issues (hydroelectricity, territorial policies...)
- ↳ 3 - ...there are also European key issues (good status..., CAP and WFD, hazardous substances...)
- ↳ 4 - and there is a political demand concerning these issues ! So...



Merci !

