

WATER FRAMEWORK DIRECTIVE

**Identification of water bodies at risk of failing
the environmental objectives**



Philippe Dupont

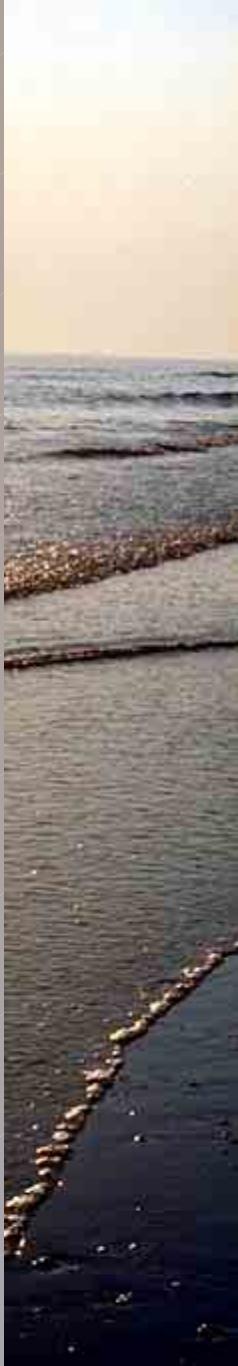
Agence de l'Eau Rhône-Méditerranée et Corse, Lyon-France



A double question :

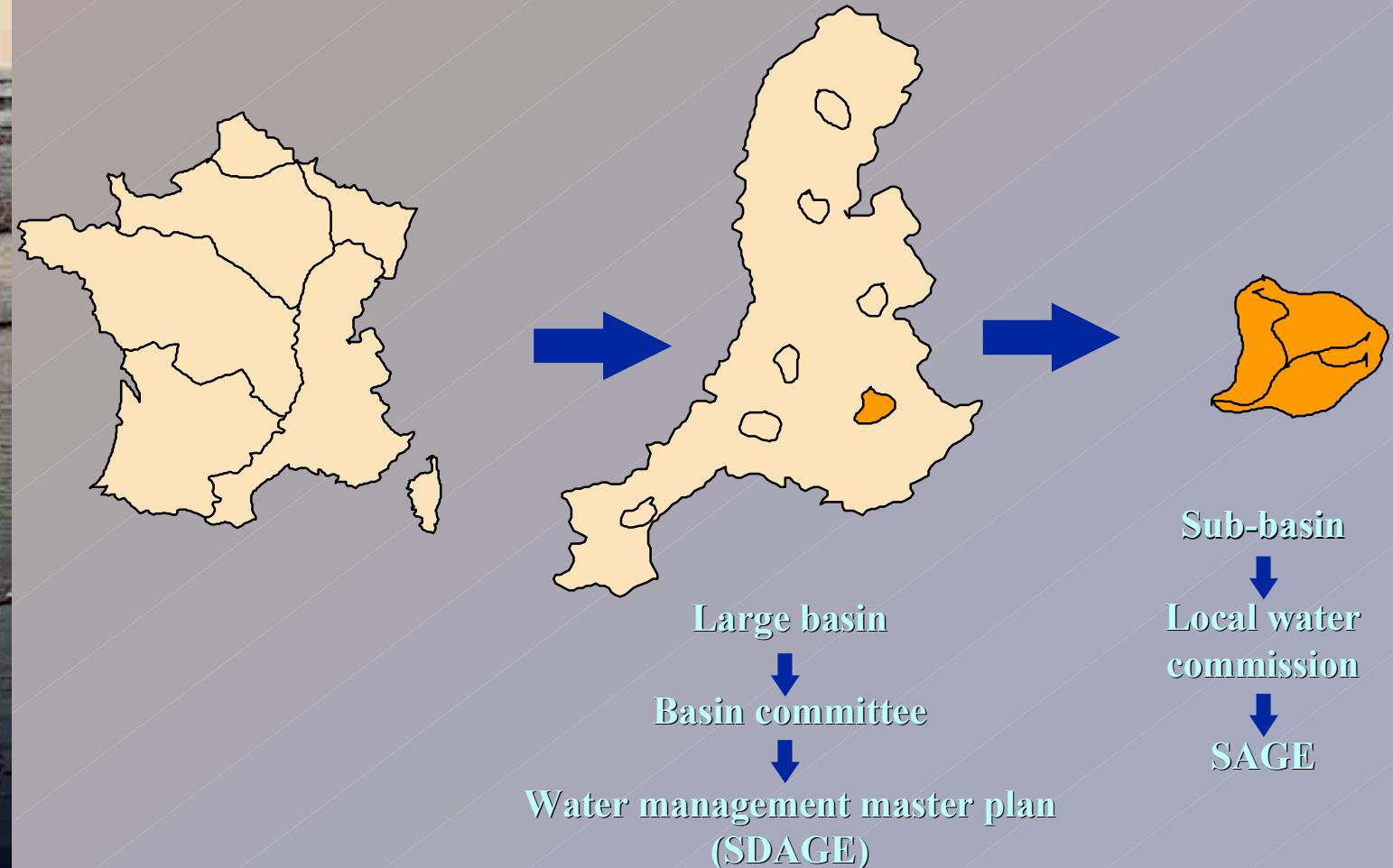
- Which technical approach ?
- Which organisation with local stakeholders ?





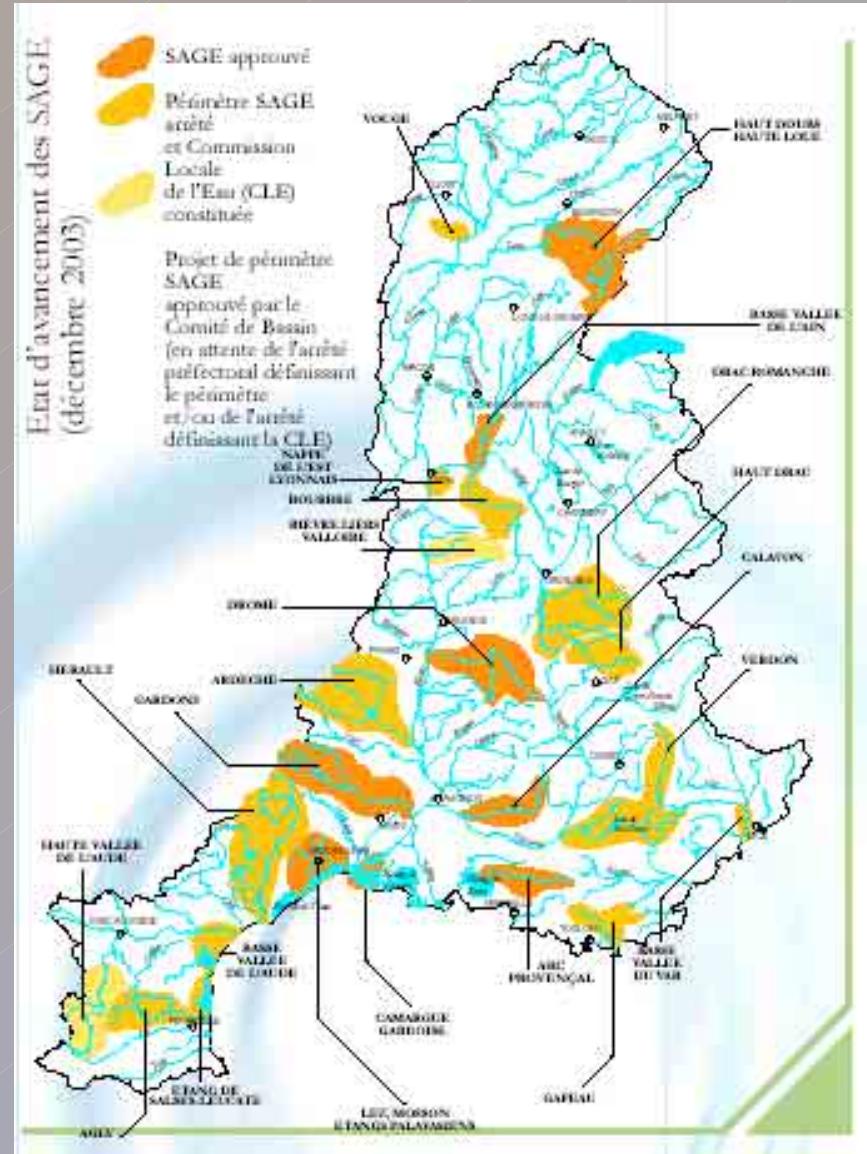
Concerning organisation.....

(cf. Water Law-1992 January 3th)



Local water management in the district

* The SAGE (water law 1992)



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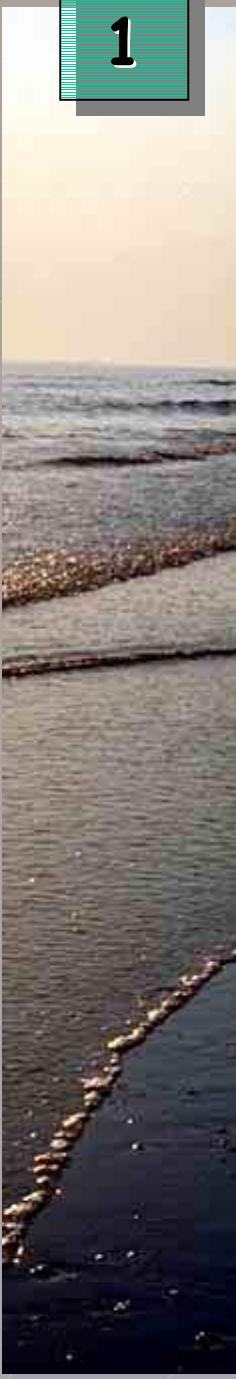
Local water management in the district

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



1

Local water management in the district





1

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 of the « co-construction » with local actors



General technical method

"Standard" data

Local expertise

Pressures
identification and
impacts on present
status (2003)

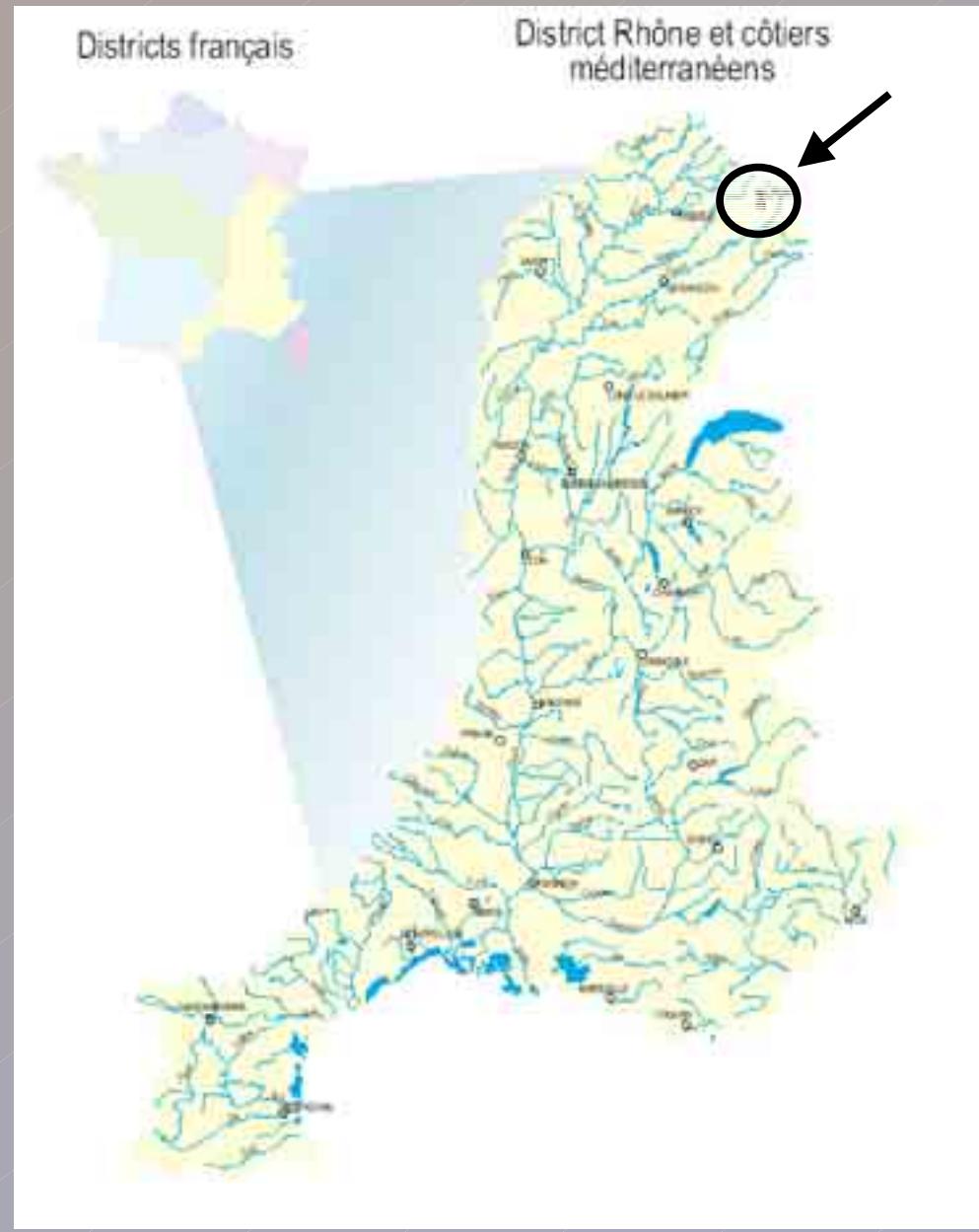
Evaluation of trends and
prognostic status in 2015

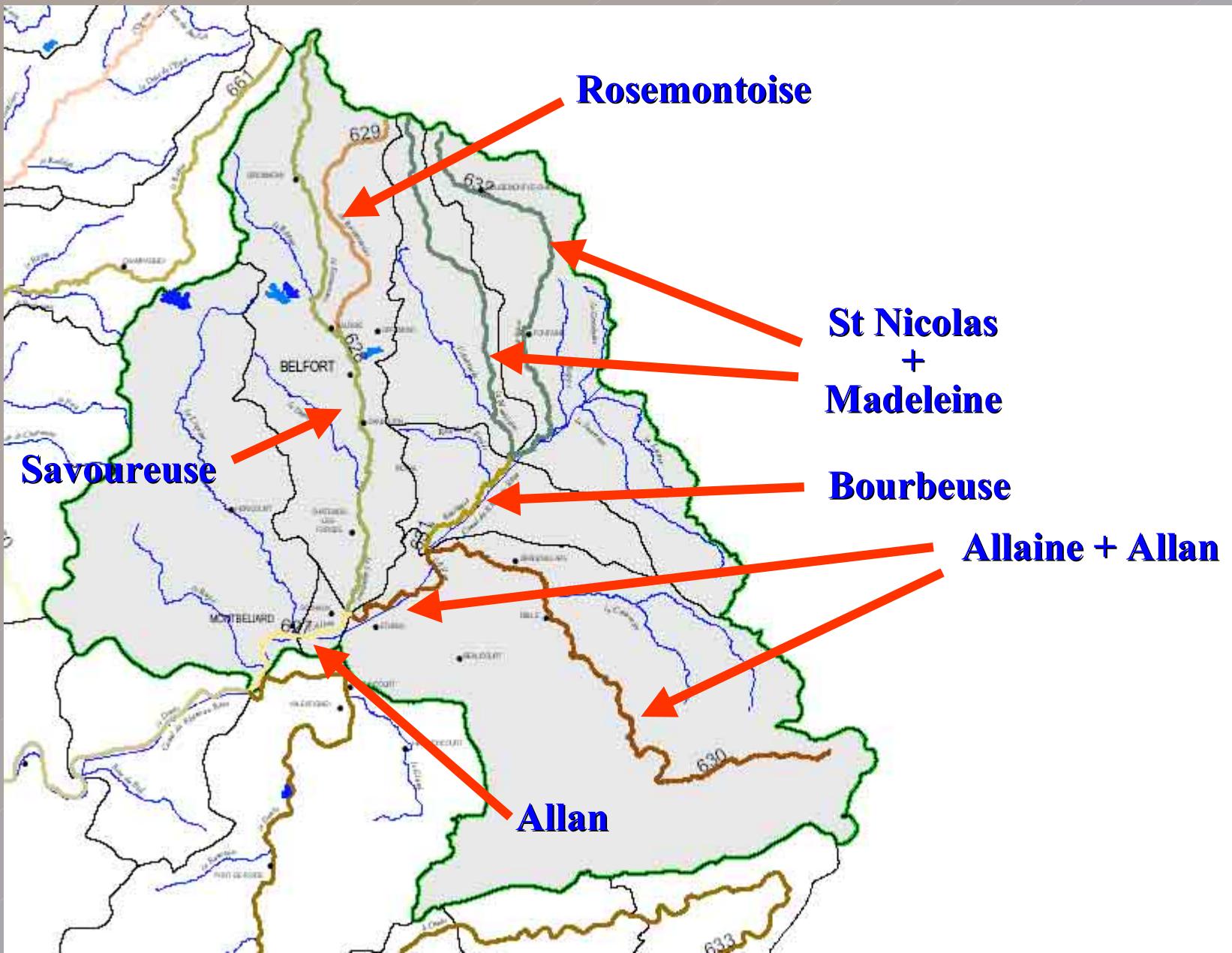
Assessment of risk of failing the
environmental objectives in 2015



3

Example : Allan watershed







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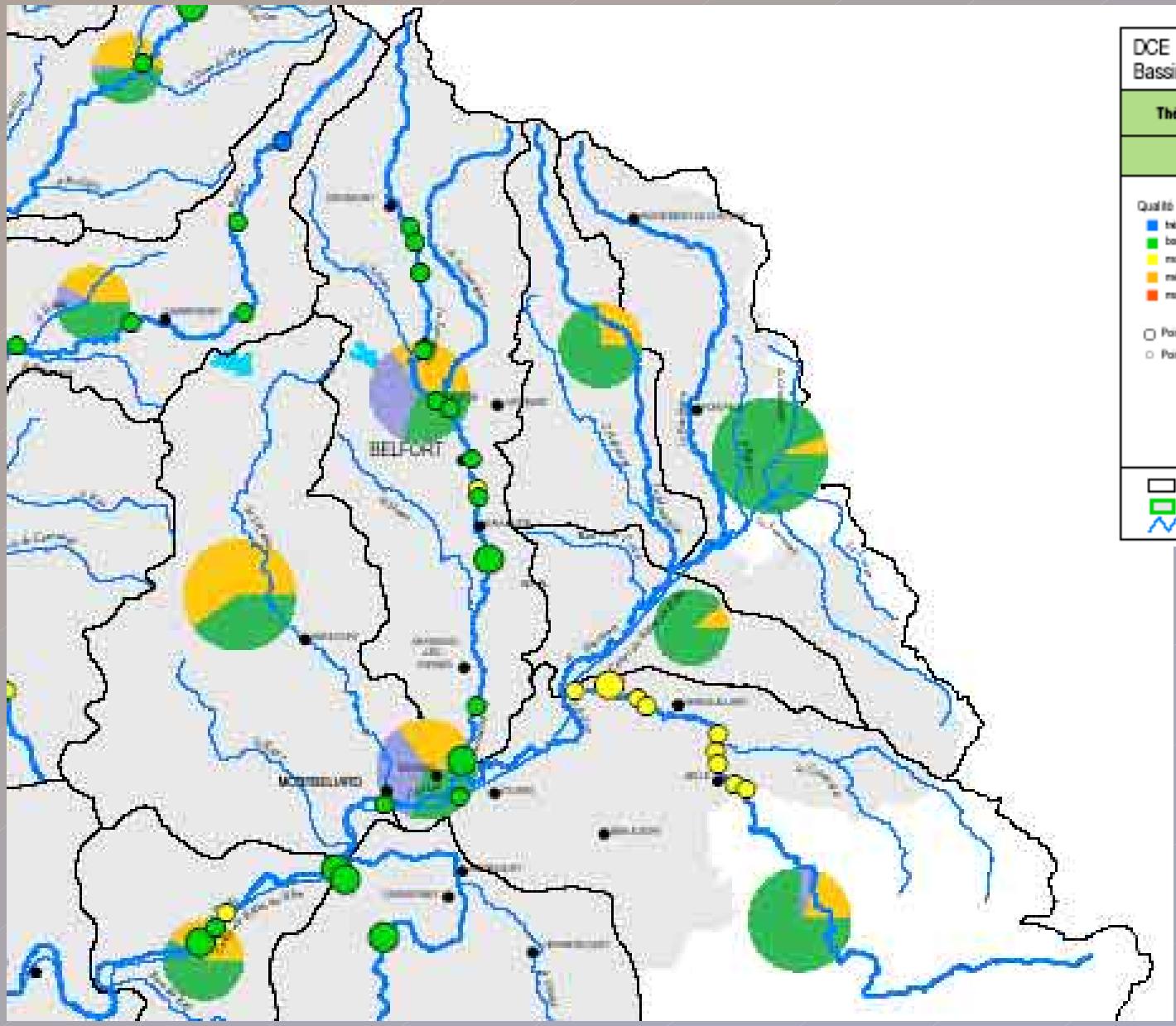
“Standard” data

Water bodies quality and pressures in 2003

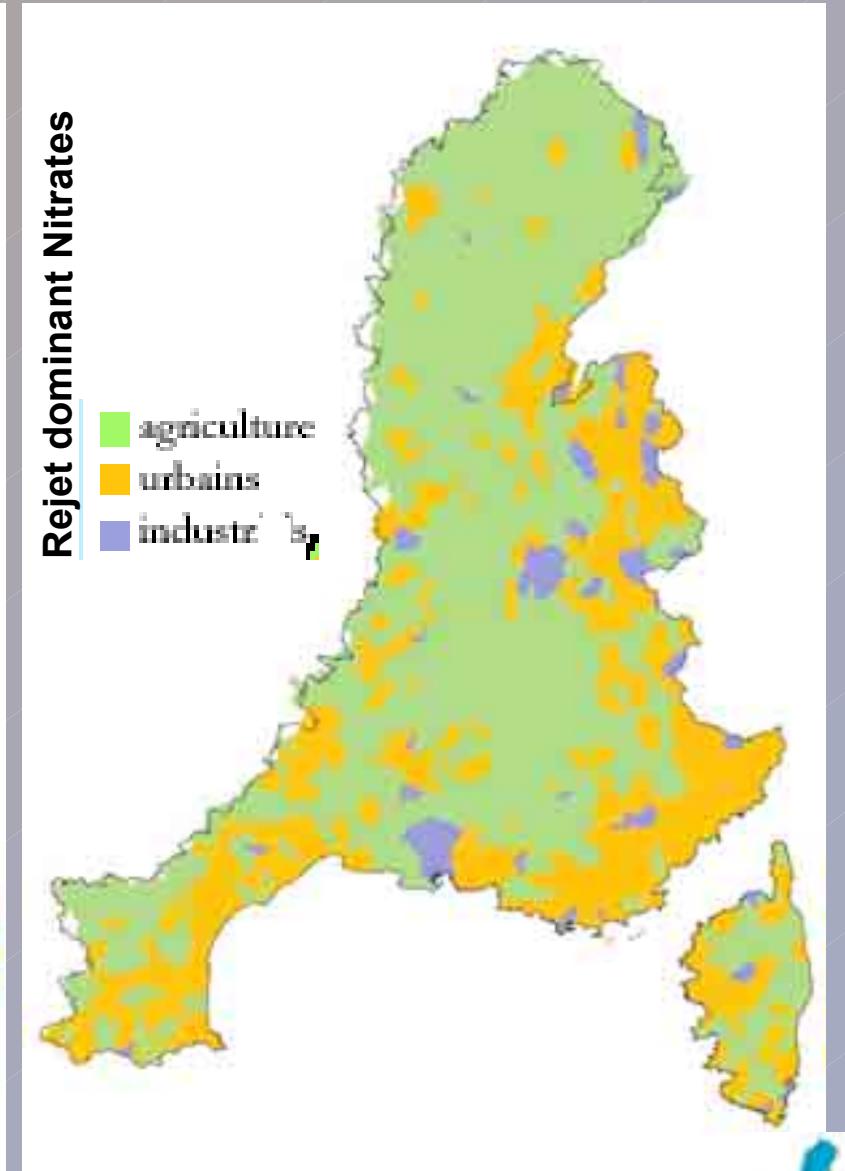
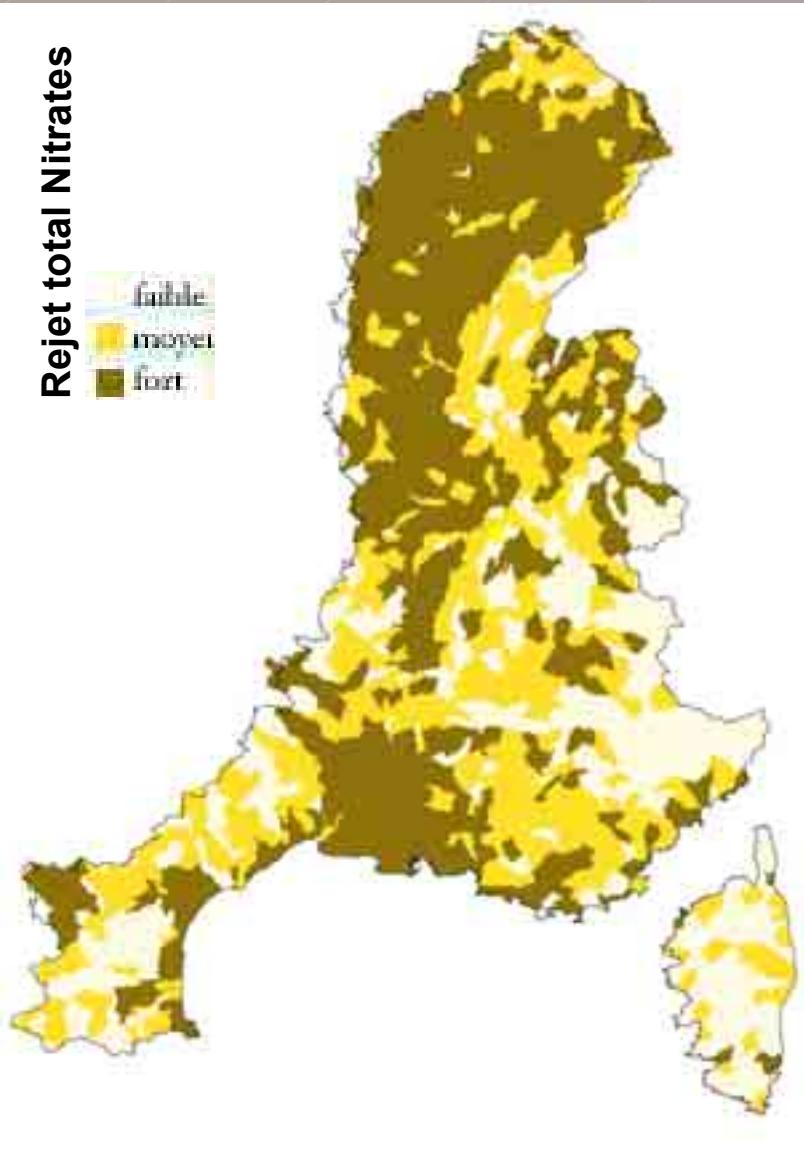
A - Pollution (point source and diffuse)

- Organic matters
- Nitrogen matters
- Nitrates
- Phosphorus matters
- Pesticides
- Other priority substances
- ...





“standard” data at district level





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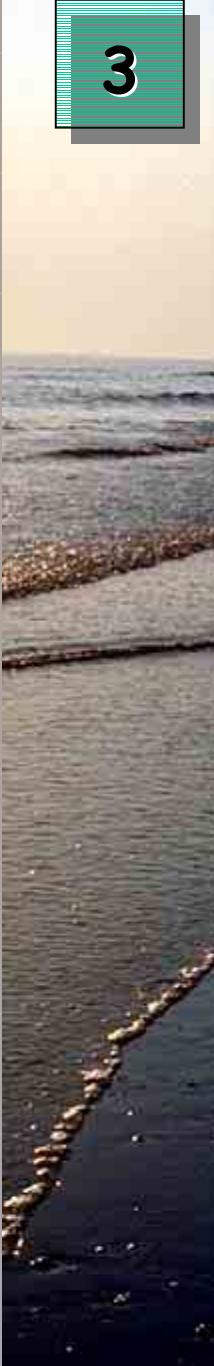
“Standard” data

Water bodies quality and pressures in 2003

B- Morphological alterations, water abstractions...

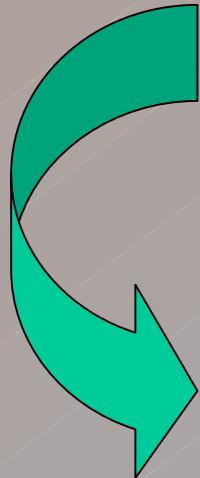
C - Biological data





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"Standard" data

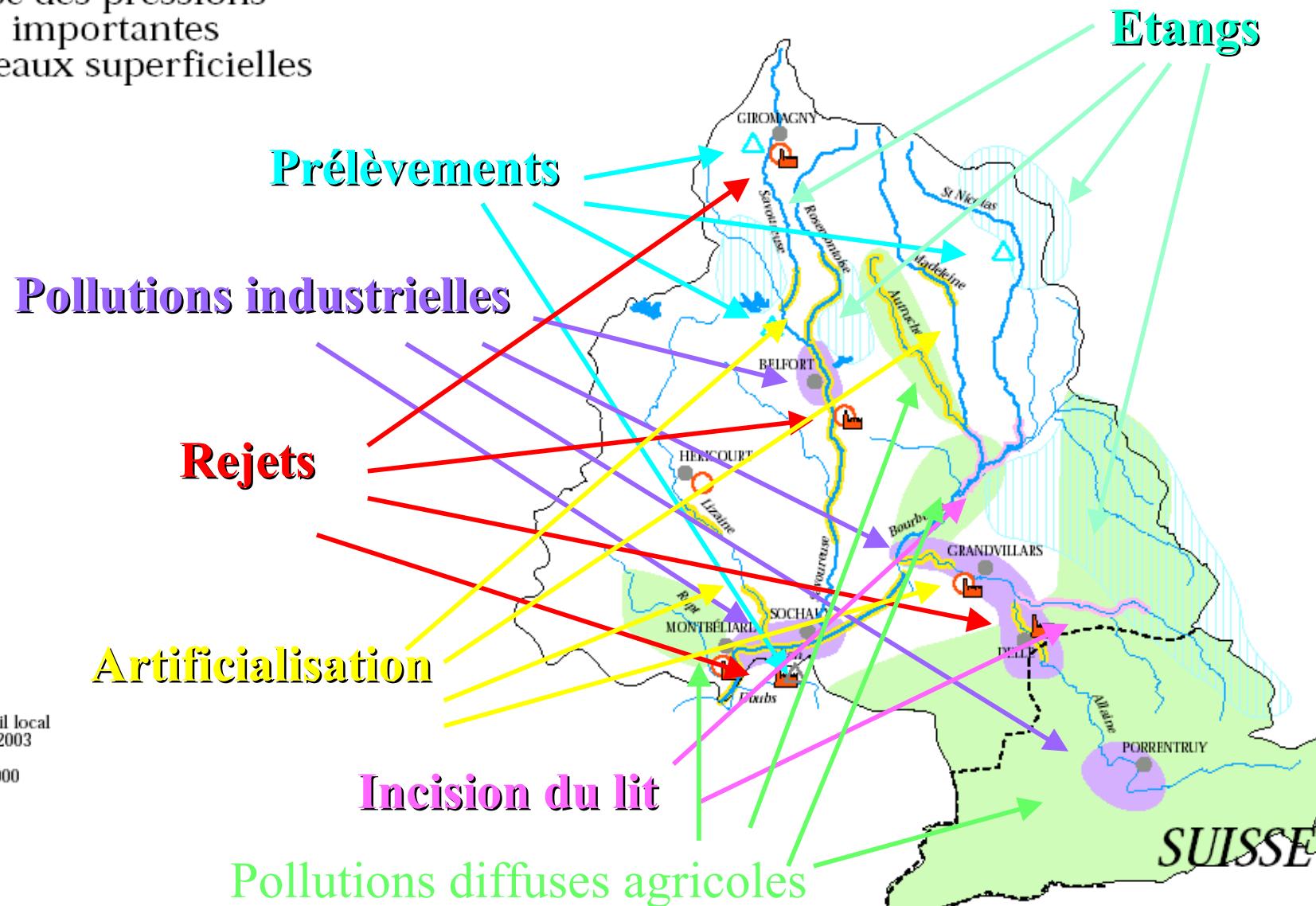


To be compared and completed
with local expertise



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

LGV

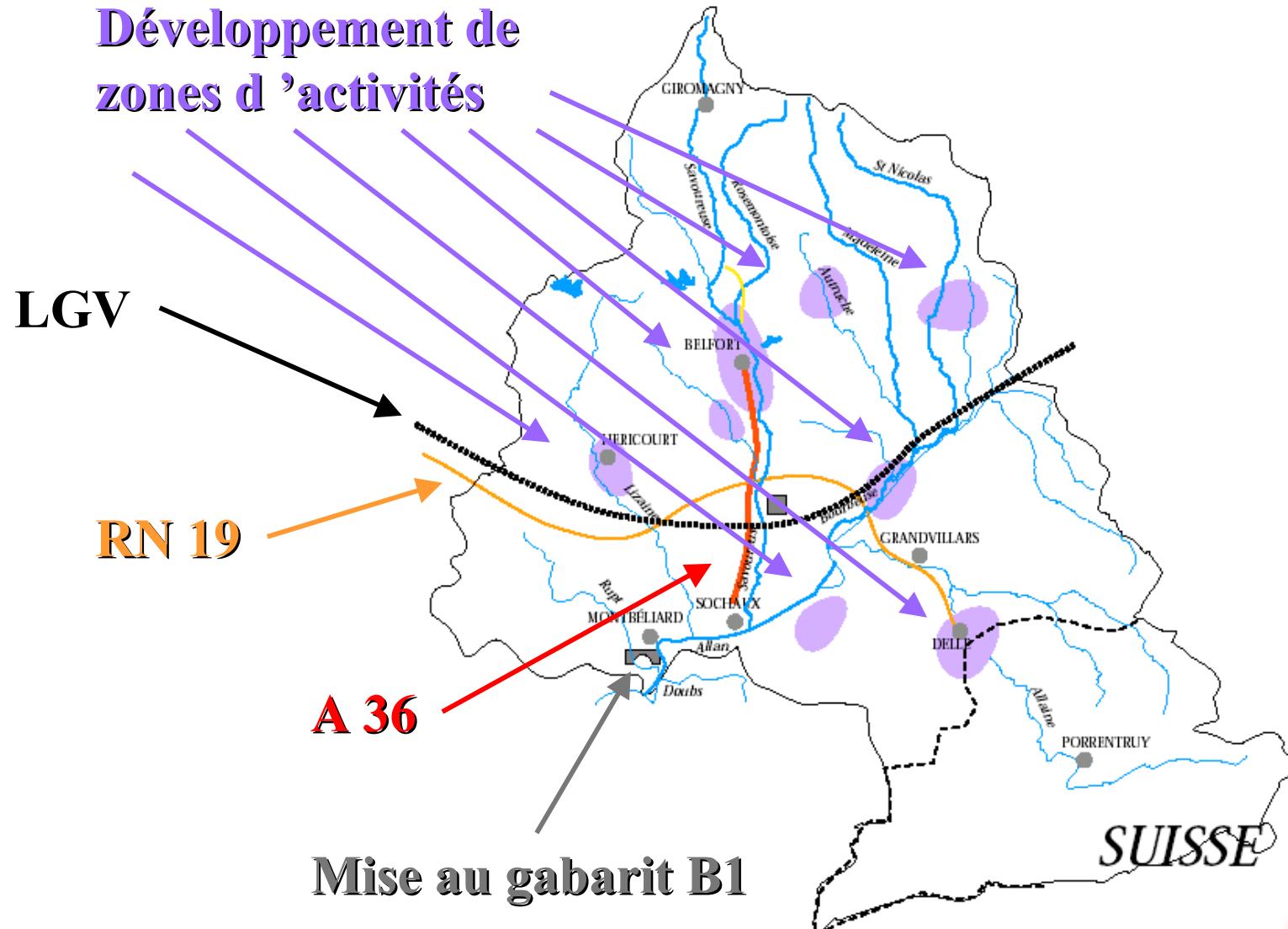
RN 19

A 36

Mise au gabarit B1

Élaboration
Groupe de travail local
Besançon, avril 2003

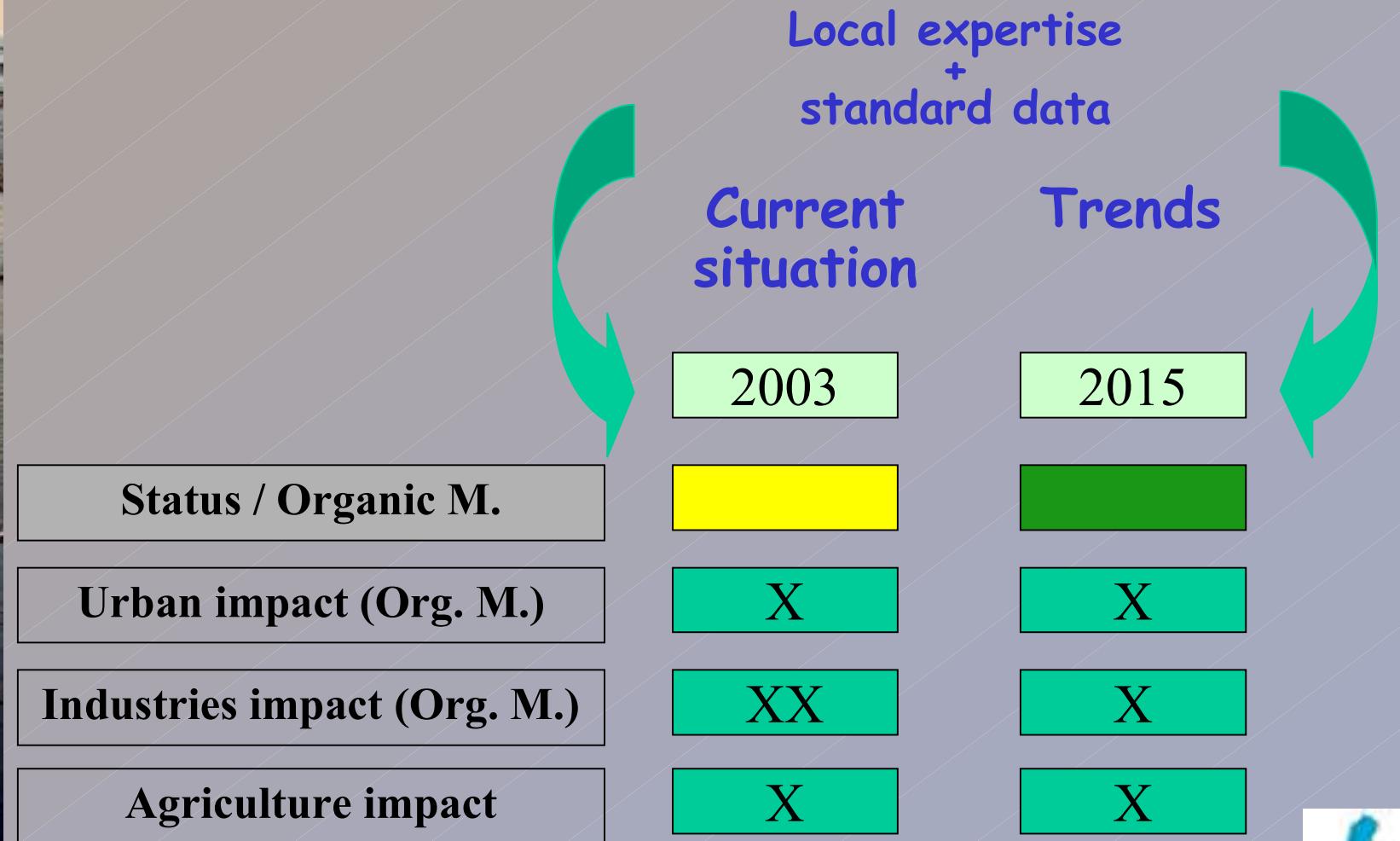
Échelle : 1/250 000



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Methodology

Assessment of risk of failing good status





Which results

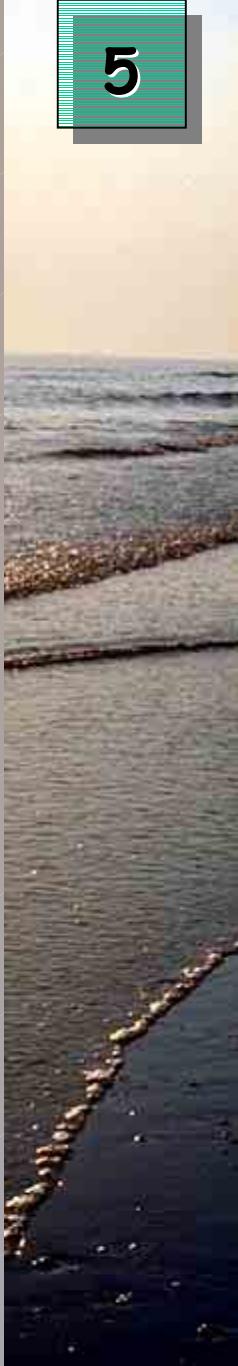
- 1 - Redefinition of water bodies boundaries



A water body :

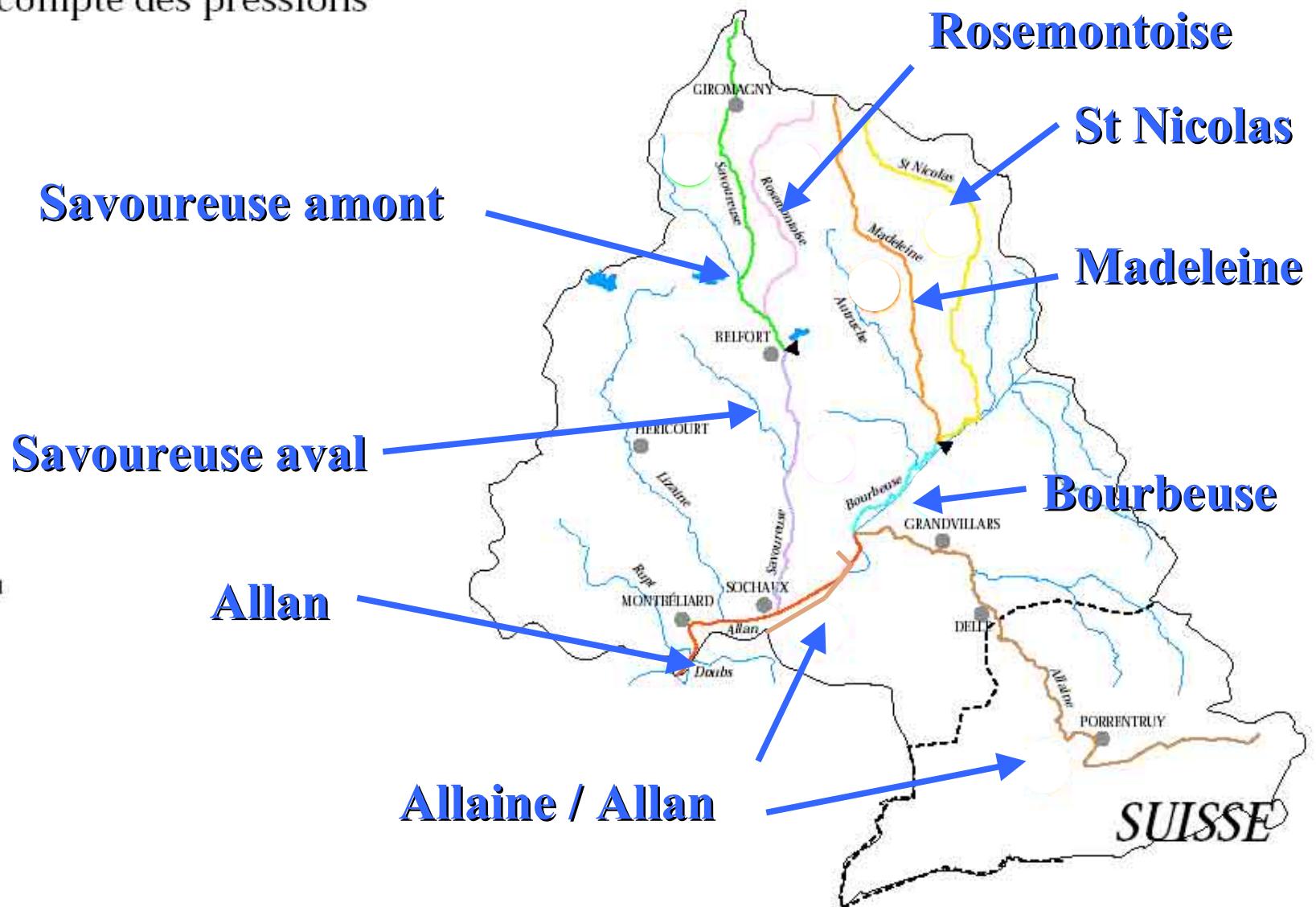


homogeneous status and one
quality objective



Bassin versant de l'Allan

Redécoupage des masses d'eau naturelles
en tenant compte des pressions



Élaboration
Groupe de travail local
Besançon, avril 2003

Échelle : 1/250 000



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Which results

- ↳ 2 - Identification of main problems to achieve good status in 2015
- ↳ 3 - Assessment of the risk of failing the environmental objectives for each water body
- ↳ 4 - A first identification of the heavily modified water bodies



	Allaine/Allan		Allan		Rosmontoise		
	2003	2015	2003	2015	2003	2015	
Physico - chimie							
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							
Risque de Non atteinte du Bon Etat		Apport nutriments Suisse. Activités industrielles		Modification du milieu - forte concentration urb. Et ind.		Impact des étangs	
Milieu susceptible d'être classé comme fortement modifié		Faible		Moyen		Faible	
		Non		Non		Non	





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Conclusions

- ↳ 1 - A very large participation (local actors) :
a very heavy organisation but a good
investment for the next stage
- ↳ 2 - An legitimate place for local expertise
(definition of a common method !)
- ↳ 3 - A real progress in global approach
(thanks to the WFD !), even
without definition of good status...
- ↳ 4 - Further characterisation and
program of measures to be
implemented in the same way...



Dziekuje bardzo !

