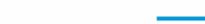




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Ecological restoration of Seine-Normandy basin rivers



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100 000 km²
17 million inhabitants
in 2% of the basin area
69 000 km of rivers
40 % of national industrial activity
60 % of the basin is cultivated areas

The Seine river from the spring to the estuary



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The French - Japan Seminar on Water Management for Rivers, Lakes and Marshes - 6 février 2007 - Tokyo

Our guideline : the Water Framework Directive (WFD - 23/12/2000)

- Clear objectives : to reach or maintain the good ecological status by 2015 for surface water bodies and groundwater bodies ; to stop discharge of priority hazardous substances.
- A strict schedule with a deadline :2015. Derogations should be economically and technically justified.
- Planning tools : programme of measures and management plan (SDAGE)
- Local authorities and public consultation will be implemented during all the WFD process



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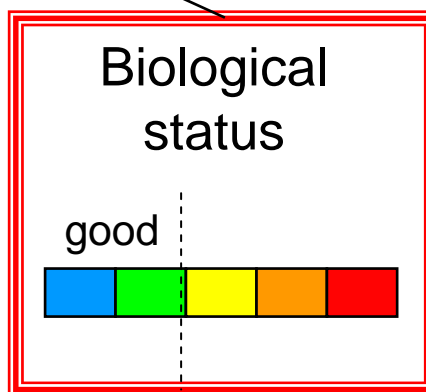
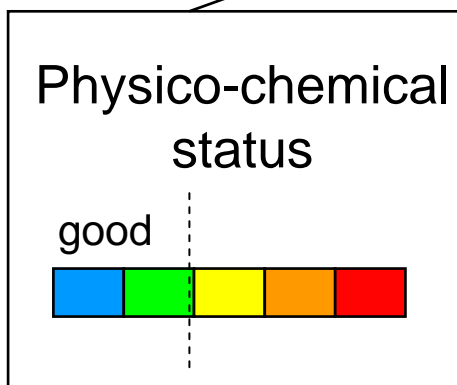
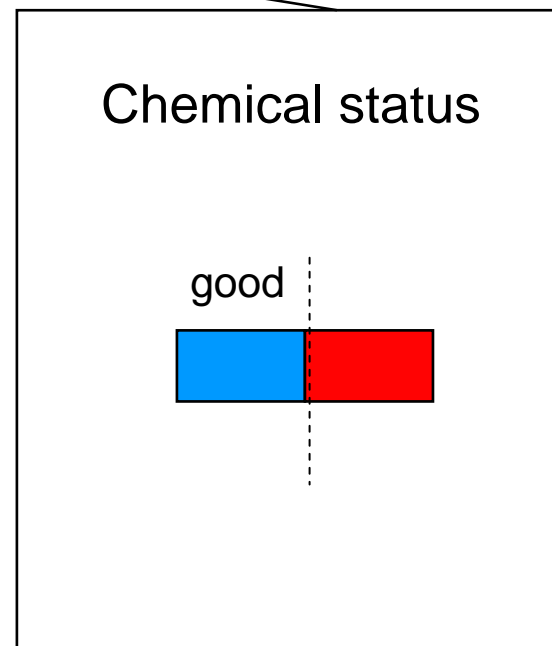


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Rivers status



Rivers status





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What is the Biological status ?

The Biological status is evaluated thanks to bioindicators :

- Fishes
- Macroinvertebrates
- Diatoms
- Macrophytes

...





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The diagnostic

- The Biological status depends on the diversity and the quality of natural habitats
- There is a risk of non achievement of good status for 50 % of Seine-Normandy rivers because of current bad quality of habitats



Why ?

Historic weight of human activities



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Photos



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The aims of our « rivers policy »

- To maintain and protect the last « natural » rivers
- To regain and restore modified rivers by diversifying aquatic habitats
- To restore ecological connectivity (organisms, sediment transport...)



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The Water Agency action programme (2007-2012)

- Increase « rivers » budget by about 140 %
- Majorate our financial subsidies rates
- Require natural habitat actions in every « water treatment » programmes
- Increase our technical support to favorise local stakeholders' mobilization
- Increase public awareness of protecting and restoring the rivers





River management in accordance of sustainable development principles

- Conciliate WFD environmental aims with the national commitment to reduce emission of greenhouse gases (transport by navigation, hydro-electricity, biofuels...)
- Conciliate protection of nature with the socio-economic issues (harbour and industrial development, tourism, leisure...).



Ex : during 2006 we created 600 jobs for daily river management



Examples of actions on Seine-Normandy basin



Restoring rivers in urban areas



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Before works

6 months after works



Restoring natural areas for flood control



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Diversifying habitats on canals and navigable rivers



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Restoring the « historical mistakes »



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A more « lively » river and more hospitable for public



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Thank you for your attention