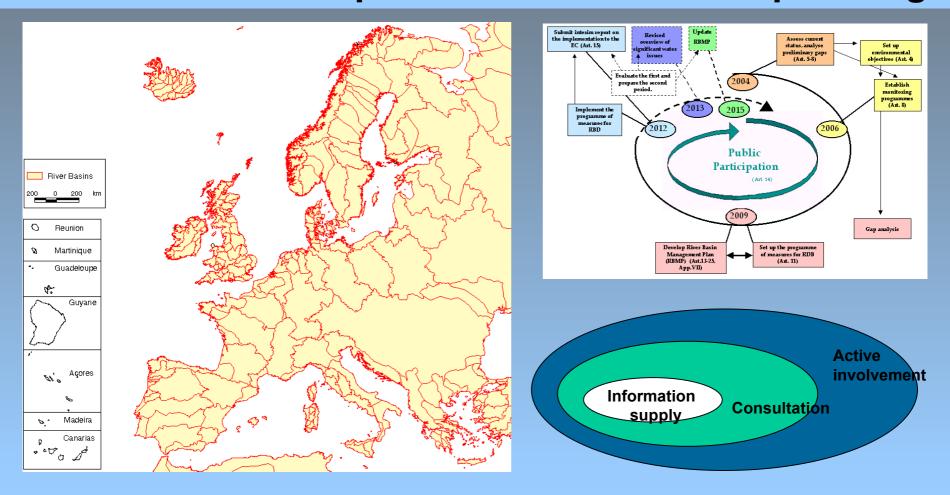




# Project 2.9 Guidance on best practices in river basin planning







OBRAS HIDRÁULICAS Y

#### Introduction

# Common Strategy for the Implementation of the WFD

- •Complexity and challenges of the WFD.
- •Common understanding and approach.
- •10 projects and working groups: development of guidance documents.
- •Water Directors Strategic Co-ordination Group.
- •Working Groups: European Commission, Member States,
- candidate countries, stakeholders (NGOs, users, experts, etc.)
- •Project 2.9: Guidance on best practices in river basin planning
- lead: Spain.





DAMBIENTE DIRECCIÓN GENERAL E OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUA

#### Introduction

#### Project 2.9

•River basin management plans: main element and tool for the application of the WFD.

- •Issues in the WFD related to the river basin management plans:
  - -Identification of river basins and designation of river basin districts and competent authorities (Article 3 and Annex IV).

–Preparation of river basin management plans (Article 13 and Annex VII).

-Establishment of a programme of measures at the river basin district level (Article 11 and Annex VI).

–Public participation (Article 14).





IO AMBIENTE DIRECCIÓN GENERAL D OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

#### Introduction

#### **Project 2.9 – Guidances developed**

•Guidance on the identification of river basin districts.

•Guidance on public participation.

•Guidance on the planning process.

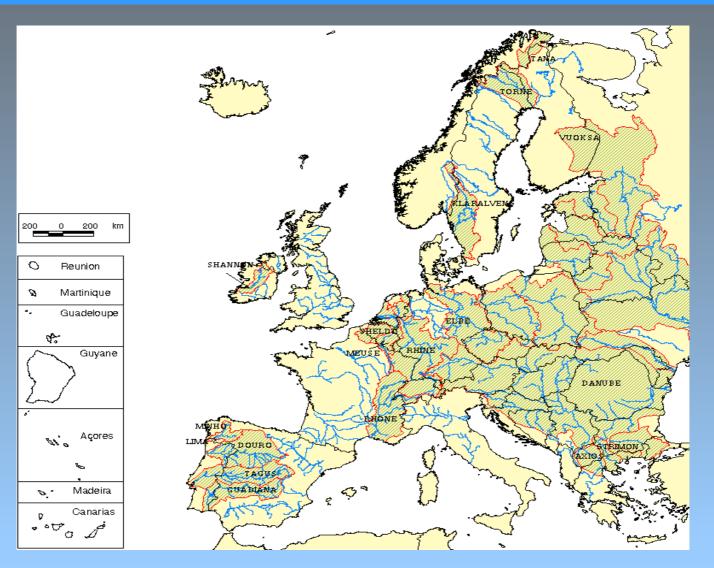
•In progress: Manual on integrated river basin management planning ("cluster" group, lead: France/Spain).





IO AMBIENTE DRECCIÓN GENERAL DE OBRAS HIDRÁULICASY CALIDAD DE LAS AGUAS

# Guidance on the identification of river basin districts







SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE OBRAS HIDRÁULICAS Y

# Guidance on the identification of river basin districts

Common understanding and associated issues and criteria

•First delimitation:

-Definition of river basin limits.

-Definition of main aquifers.

•Rationalising the topographical and geological delimitation:

–Joining of small basins.

-Assignment of shared aquifers.

-Definition and assignment of coastal waters.

•Designation of international river basin districts.

•Designation of competent authorities.





SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE

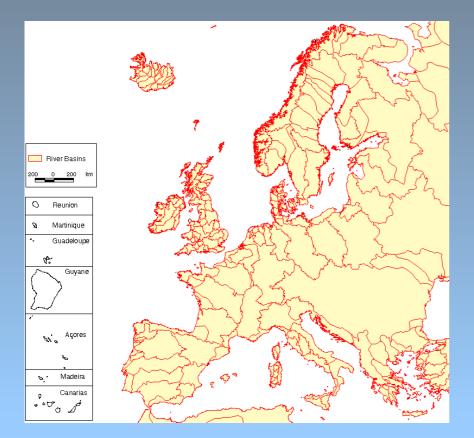
OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

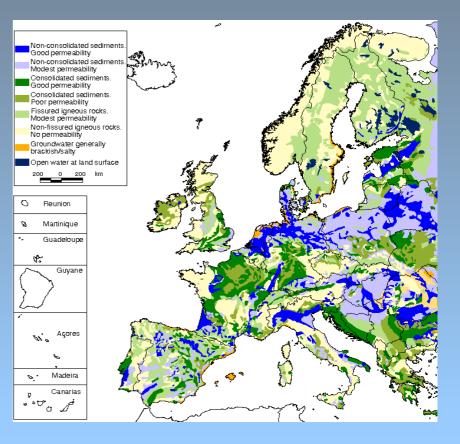
# Guidance on the identification of river basin districts

### **Delimitation of river basins**

# **Definition of river basin limits**

# **Definition of main aquifers**









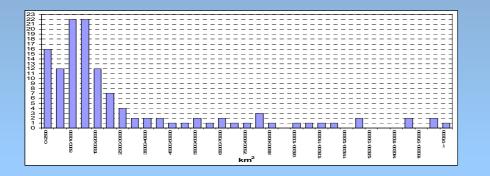
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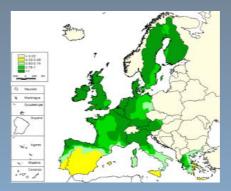
# Guidance on the identification of river basin districts

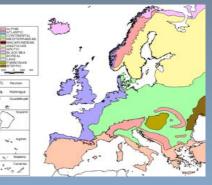
# Joining of small river basins

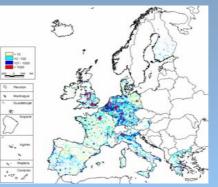
- Criteria:
  - **·Climatic**
  - ·Environmental
  - ·Socio-economic
  - ·Administrative

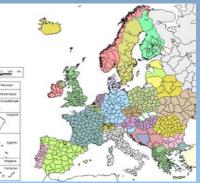
# What is a small river basin?













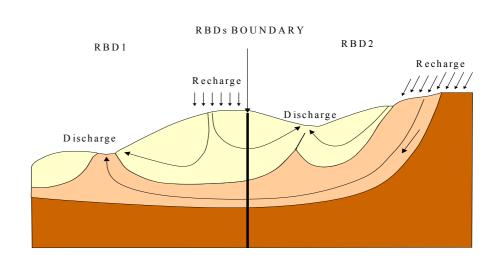


SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE ORRAS HIDRÁULICAS Y

CALIDAD DE LAS AGUAS

# Guidance on the identification of river basin districts

# Assignment of shared aquifers



#### **Criteria**:

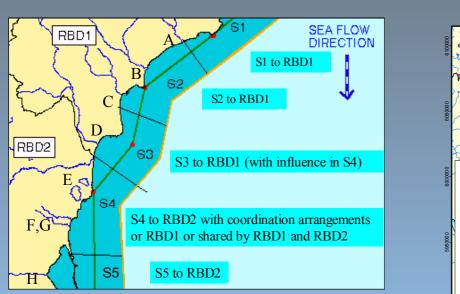
- -Environmental aspects.
- -Pressures and impacts.
- -Water resources (recharge and discharge areas).
- -Surface area of the aquifer in each RBD.



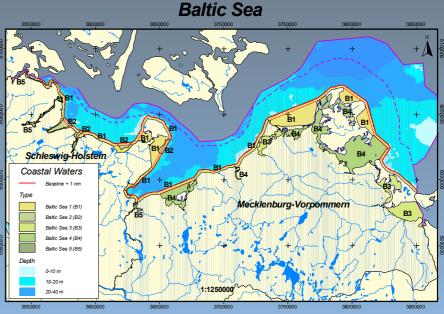


MBIENTE DIRECCIÓN GENERAL DE ORRAS HIDRÁULICASY CAUDAD DE LAS AGUAS

# Guidance on the identification of river basin districts



#### Assignment of coastal waters



#### **Criteria:**

-Simple geometrical delimitation with co-ordination.

-Definition of polluted plumes and assignment to the pollutant district or sharing between the two.





SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE

OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

#### Guidance on the identification of river basin districts

**Designation of international RBDs** 

- Compulsory designation
- •Multilateral agreements
- •Bilateral agreements
- •Cases of the Rhine and the Danube





SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE

OBRAS HIDRÁULICASY

#### Guidance on the identification of river basin districts

**Designation of competent authorities** 

•Compulsory designation in 2003.

•Functions to cover:

Planning and implementation Monitoring Public participation Reporting Penalties

•Ecosystems to cover: Water Terrestrial Wetlands.

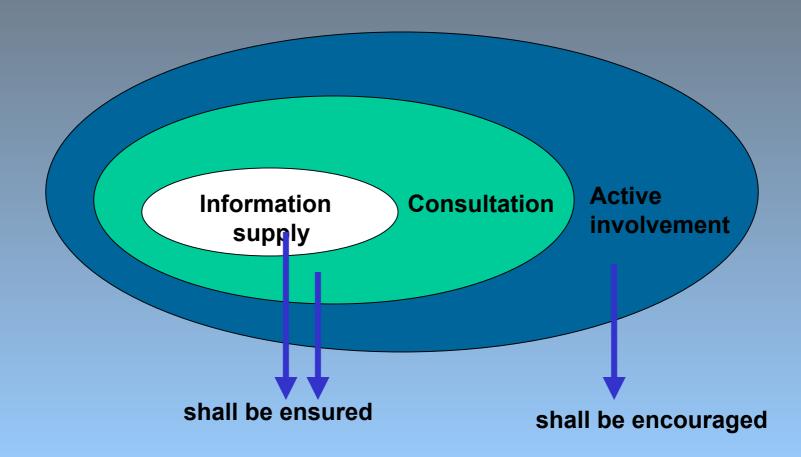
•Single authority or co-ordination agreements.





RIO NO AMBIENTE OBRAS HIDRÁULICASY CALIDAD DE LAS AGUAS

# **Guidance on public participation**







DIRECCIÓN GENERAL D OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

#### **Guidance on public participation**

Aims of public participation

- Ensure an effective application and the achievement of the goals of the WFD
- Involvement of public in order to avoid:
  - Potential conflicts.
  - Management problems.
  - Additional costs.





OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

#### **Guidance on public participation**

**Benefits of public participation** 

- Increased public awareness of water and environmental issues.
- Making use of knowledge, experience and initiatives of stakeholders.
- Public acceptance, commitment and support to the planning process.
- More transparent decision-making.
- Social learning and exchange of experience.
- Less litigation, misunderstandings, delays, etc.





OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

# **Guidance on public participation**

Levels of public participation

- Information supply.
- Consultation.
- Participation in the development and implementation of plans.
- Shared decision-making.
- Self-determination.





OBRAS HIDRÁULICASY

# **Guidance on public participation**

**Stakeholder selection** 

- Relation to the water management issues concerned.
- Scale and context at which the y act and who they represent.
- Their involvement (user, victim, stakeholder, expert and executer of measures).
- Capacity for engagement.
- Political, social, environmental context.





OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

#### **Guidance on public participation**

Stakeholder typology

- Professionals.
- Authorities, elected people.
- Local groups, non-professional organized entities.
- Individual citizens, farmers and companies.





OBRAS HIDRÁULICASY

#### **Guidance on public participation**

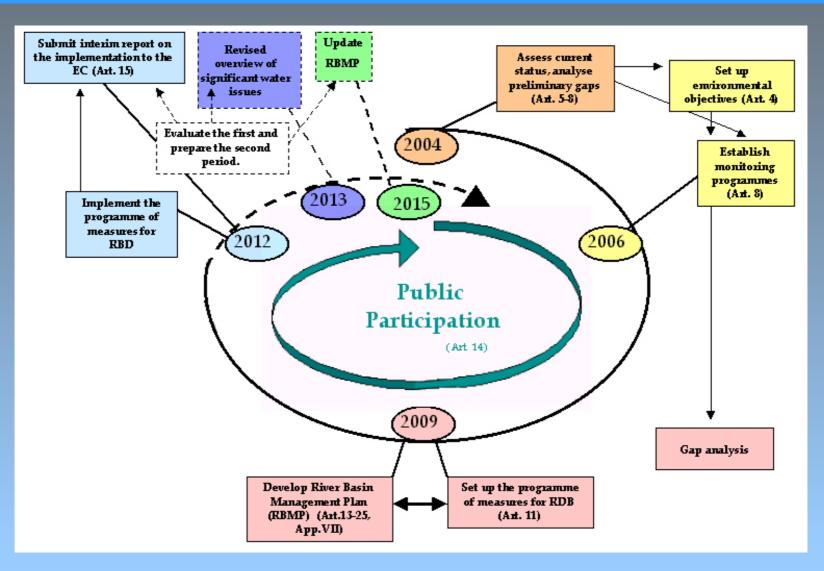
Organisation of public participation

- Stakeholder inventory.
- Participation models to apply in each stage.
- Definition of areas of decision.
- Definition of responsibilities and tasks.
- Establishment of consultative committees.
- Development of a Communication Plan.



ITE DIRECCIÓN GENERAL DE OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

#### Guidance on the planning process







SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE OBRAS HIDRÁLUCAS Y

#### **Guidance on the planning process**

#### Rationale

- River basin management plans (RBMP):
  - Main element for the application of the WFD
  - > Main tool to achieve good ecological status in all water bodies
  - Main reporting mechanism to the EC and to the public
- Explicit requirement: one integrated RBMP for each RBD, even international (Article 13)
- Detailed analysis: characteristics; pressures and impacts of human activities; economic analysis of water use.
- Programme of measures.
- Monitor implementation and revise measures.





OBRAS HIDRÁULICAS Y

# Guidance on the planning process

**Problems and difficulties in the planning process** 

- •Complexity of the WFD and its implementation.
- •Numerous interdependent tasks.
- •Urgency regarding the first deadlines.
- Involvement of numerous working groups, institutions, stakeholders.
- Integration of several levels : European, national and districts, working groups.
- HENCE:
- •Necessity to have a common reference among institutions and stakeholders.





#### AMBIENTE DIRECCIÓN GENERAL D OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

#### **Guidance on the planning process**

**Objectives** 

- •Create a common understanding with regard to planning process in the WFD.
- •Provide guidelines for the implementation tasks and stages of river basin management planning.
- •Provide recommendations and experiences for an operational planning process.
- •Explain how to organise the planning process: what?, who?, when?

NOT:

•Specific technical elements of the planning process (other Working Groups).





OBRAS HIDRÁULICAS Y CAUDAD DE LAS AGUAS

#### Guidance on the planning process

#### Scope

- •The concept of water planning and the planning process (Section 3).
- •Good practices in water planning (Section 4).
- •Requirements in the WFD for the planning process (Section 5).
- •General overview and flowchart of the planning process (Section 6):
  - >Legally binding deadlines of the WFD.
  - >The 1st planning cycle and the main components of the planning process.
  - >Detailed overall flowchart for the 1st planning cycle (3 levels: main components, implementation steps, implementation tasks).





SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE OBRAS HIDRÁLUCAS Y CALIDAD DE LASAGUAS

#### Guidance on the planning process

The legally binding deadlines of the Water Framework Directive

- •Exhaustive listing of all deadlines quoted in the WFD (tasks, reporting, related articles).
- •Legally binding deadlines for Member States:
  - > 40 deadlines for the period 2003-2027.
  - >30 deadlines for the 1st planning cycle (2003-2015).
  - ≻12 reporting deadlines (to the EC).
- •Legally binding deadlines for the European Commission (reports, intercalibration, repealing of directives, new regulations, etc.):
  - > 25 deadlines.





MBIENTE DIRECCIÓN GENERAL DI OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

### **Guidance on the planning process**

# Legally binding deadlines for Member States (2003-2004)

Action/ Member States	Article	2002	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
The laws, regulations and administrative provisions necessary into force	24.1																										
Identification of competent authority by MS	3.7																										
MS provide EC with a list of competent authorities and of competent authorities of all international bodies in which they participate (updates of this list should be reported to EC within 3 months)	3.8, 24.1			2	*[	22.0	06.200	4																			
Analyses and reviews mentioned in Art 5.1: - Establishment of characteristics of the River Basin District, - Review of the environmental impact of human activity, - Economic Analysis of water use	5.1																										
Establishment of register of Protected Areas	6.1																										
Submission of summary reports of analyses according to Art.5 (RBD characteristics, human activity, economics ) undertaken for the purposes of the <i>first</i> RBMP	15.2				7	•	22.0	3.2005	;																		





1BIENTE DIRECCIÓN GENERAL DE OBRAS HIDRAULICASY CALIDAD DE LAS AGUAS

# Guidance on the planning process

# Legally binding deadlines for Member States (2006-2007)

Action/ Member States	Article	2002	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
In absence of EC agreement MS shall establish appropriate criteria for strategies to prevent and control groundwater pollution	17.4																										
The EC and MS shall complete the intercalibration exercise.	Annex V 1.4.1 (viii)																										
Programmes for monitoring of surface water status, groundwater status and protected areas shall be operational. Unless otherwise specified in the legislation concerned.	8.2																										
For Public information and consultation about the RBMP, MS make available for comments a timetable and work programme for the production of the RBMP	14.1a																										
(three years before the beginning of the period to which the plan refers. MS shall allow at least six months to comment on those documents)																											
Review of the designation of HMWB	4.3																										
In absence of EC agreement:																											
MS establish environmental quality standards for priority substances and controls on the principal sources.	16.8																										
Submission of summary reports of																											
monitoring programmes according to Art.8 (surface water status, groundwater status and protected areas) undertaken for the purposes of the <i>first</i> RBMP	15.2						7		22.03	3.2007																	
For Public information and consultation about the RBMP, MS make available for comments an overview of significant water management issues (two years before the beginning of the period to which the plan refers. MS shall allow at least six months to comment on those documents)	14.1b																										





AMBIENTE DIRECCIÓN GENERAL DE OBRAS HIDRÁULICASY CALIDAD DE LAS AGUAS

# Guidance on the planning process

# Legally binding deadlines for Member States (2008-2010)

Action/ Member States	Article	2002	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
In absence of EC agreement MS shall establish appropriate criteria for strategies to prevent and control groundwater pollution	17.4																										
The EC and MS shall complete the intercalibration exercise.	Annex V 1.4.1 (viii)																										
Programmes for monitoring of surface water status, groundwater status and protected areas shall be operational. Unless otherwise specified in the legislation concerned.	8.2																										
For Public information and consultation about the RBMP, MS make available for comments a draft copy of RBMP	14.1c																										
(one year before the beginning of the period to which the plan refers. MS shall allow at least six months to comment on those documents)	14.10																										
Establishment of programme of measures for River Basin District	11.7																										
Publication of River Basin Management Plans (detailed information in annex VII of the WFD)	13.6																										
In absence of EC agreement:																											
For substances subsequently included on the PS-list, MS take such action (establishment of environmental quality standards for priority substances and controls on the principal sources)	16.8																										
Sending of copies of RBMP to EC and other MS concerned	15.1									>	•	22.03	.2010														
MS shall ensure that: - water pricing policies provide adequate incentives for users to use water resources efficiently - adequate contribution of the different water uses to the recovery of the costs of water services	9.1																										





MBIENTE DIRECCIÓN GENERAL DI OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

### **Guidance on the planning process**

# Legally binding deadlines for Member States (2012-2015)

Action/ Member States	Article	2002	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Establishment and/or implementation of emission controls (BAT, BEP) and limit values for the combined approach for point and diffuse sources	10.2																										
Programme of measures for RBD shall be made operational	11.7																										
Submission of interim report describing progress in implementation of the planned programme of measures under Art.13	15.3											*	[	22.1	2.2012	2											
Review and update of analyses and reviews mentioned in Art 5.1:																											
- Establishment of characteristics of the River Basin District	5.2												*	Г	22.12	2.2013											
- Review of the environmental impact of human activity																											
- Economic Analysis of water use																											
Environmental objectives to be achieved;																											
good surface water status																											
good ecological potential and good surface water chemical status for heavily modified waters (HMWB and AWB)	4.1																										
good groundwater status	4.1																										
compliance with any standards and objectives for Protected Areas																											
(Less stringent environmental objectives under certain conditions)																											
Review and update of programme of measures for RBD	11.8																										
Review and update of the RBMP	13.7														*		22.12.	2015									





DAMBIENTE DIRECCIÓN GENERAL DE OBRAS HIDRÁULICASY CALIDAD DE LAS AGUAS

#### Guidance on the planning process

# Legally binding deadlines for Member States (2017-2021)

Action/ Member States	Article	2002	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Revised measures established under an updated programme of measures shall be made operational.	11.8																										
Submission of interim report describing progress in implementation of the planned programme of measures under Art.13	15.3																	*		22.12	2.2018	и					
Review and update of analyses and reviews mentioned in Art 5.1:																											
- Establishment of characteristics of the River Basin District	5.2																		*	Г	22.12	.2019					
- Review of the environmental impact of human activity																								Γ			
- Economic Analysis of water use																					4						Ш
Cessation or phasing out of priority hazardous substances	16.6																						See	footn	ote		
Environmental objectives to be achieved; (first extended deadline)																											
good surface water status																											
good ecological potential and good surface water chemical status for heavily modified waters (HMWB/AWB)	4.1																										
good groundwater status																											
compliance with any standards and objectives for Protected Areas																											
Review and update of programme of measures for RBD.	11.8																										
Review and update of the RBMP	13.7																				*		22.12.2	2021		]	





SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

## Guidance on the planning process

# Legally binding deadlines for Member States (2017-2021)

Action/ Member States	Article	2002	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Revised measures established under an updated programme of measures shall be made operational.	11.8																										
Review and update of analyses and reviews mentioned in Art 5.1:																											
- Establishment of characteristics of the River Basin District	16.6																										
- Review of the environmental impact of human activity																				2	2.12.2	025			~		
- Economic Analysis of water use																											
Environmental objectives to be achieved; (second extended deadline)																											
good surface water status																											
good ecological potential and good surface water chemical status for heavily modified waters (HMWB/AWB)	4.1																					2	2.12.2	2027		<u>ן</u>	*
good groundwater status																											
compliance with any standards and objectives for Protected Areas																											





#### AMBIENTE DIRECCIÓN GENERAL DE OBRAS HIDRÁULICASY CALIDAD DE LAS AGUAS

### Guidance on the planning process

# Legally binding deadlines for the European Commission (2003-2006)

Action/ European Comission	Article	2002	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
For issues which can not be dealt with at MS-level, the MS may report and make recommendations to the EC. The EC shall respond within 6 months.	12.2																									Τ	
Presentation of a proposal for strategies to prevent and control groundwater pollution.	17.1																										
Submission of proposals by the EC for emission controls for point sources and environmental quality standards.	16.8																										
Presentation to the Committee (Art. 21) of an indicative plan of measures having an impact on water legislation which it intends to propose in the near future.	19.1																										
(once a year after 2002) Preparation of a draft register of sites to form the intercalibration network which may be adapted in accordance with the procedures laid down in article 21.	Annex V 1.4.1 (vii)																										1
Review of adopted list of priority substances	16.4																										
The final register of sites (for intercalibration) shall be established and published by the EC.	Annex V 1.4.1 (vii)																										
Completing the intercalibration exercise together with the MS.	Annex V 1.4.1 (viii)				*			22.06	.2006																		
Publication of the results of the intercalibration exercise and the values established for the MS monitoring system classifications.	Annex V 1.4.1 (ix)																									Τ	
Submission of proposals by the EC for emission controls for point sources and environmental quality standards.	16.8																										
Publication of a report on progress in implementation of analyses according to Art.5 based on summary reports of MS under Art. 15.2:	18.3																										





SECRETARÍA DE ESTADO DE AGLIAS Y COSTAS DIRECCIÓN GENERAL DE OBRAS HIDRÁULICAS Y

CALIDAD DE LAS AGUAS

# Guidance on the planning process

# Legally binding deadlines for the European Commission (2007-2021)

Action/ Member States	Article	2002	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Repeal of certain existing directives	22.1																										
Review of adopted list of priority substances	16.4																										
Publication of a report on progress in implementation of monitoring programmes according to Art.8 based on summary reports of MS under Art. 15.2	18.3																										
Submission of proposals by the EC for emission controls for point sources and environmental quality standards. (if necessary)	16.8																										
Submission of an interim report describing progress in the implementation of the planned programme of measures.	15.3																										
Review of adopted list of priority substances	16.4																										
Publication of a report on the implementation of the WFD	18.1																										
Repeal of certain existing directives	22.2																										
Submission of proposals by the EC for emission controls for point sources and environmental quality standards. (if necessary)	16.8																										
Publication of an interim report describing progress in implementation on basis of the interim reports of MS mentioned in Art. 15.3	18.4																										
Review of adopted list of priority substances	16.4																										
Publication of a report on the implementation of the WFD	18.1																										
Review of Water Framework Directive, proposal of amendments	19.2																										
Review of adopted list of priority substances	16.4																										



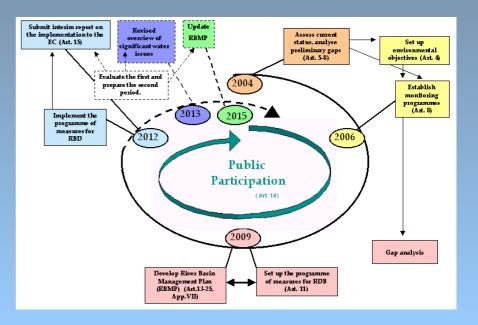


OBRAS HIDRÁULICAS Y CAUDAD DE LAS AGUAS

#### Guidance on the planning process

# The first planning cycle and main components of the planning process

- 1. Setting the scene (2003).
- 2. Assessment of the current status and analysis of preliminary gaps (2004).
- 3. Setting up of the environmental objectives (2006).
- 4. Establishment of monitoring programmes (2006).
- 5. Gap analysis (2009).
- 6. Setting up of the programme of measures (2009).
- 7. Development river basin management plans (2009).
- 8. Implementation of the programmes of measures and prepare the interim report on the implementation (2012).
- 9. Evaluation the first and the second period (2012-2015).
- **10.** Information and consultation of the public, active involvement of interested parties (ongoing).







IO AMBIENTE DIRECCIÓN GENERAL D OBRAS HIDRÁULICASY CALIDAD DE LAS AGUAS

#### Guidance on the planning process

Flowcharts: why to use them?

•Identify all tasks and steps or stages to be included.

•Assess their duration and the organisational level at which they should be carried out.

•Build up a sequencing plan of these tasks and stages, compatible with both the technical preparatory constraints and the requirements of the directive.

Identify the critical path for project scheduling and resources allocation.

Identify the bottlenecks of the process.



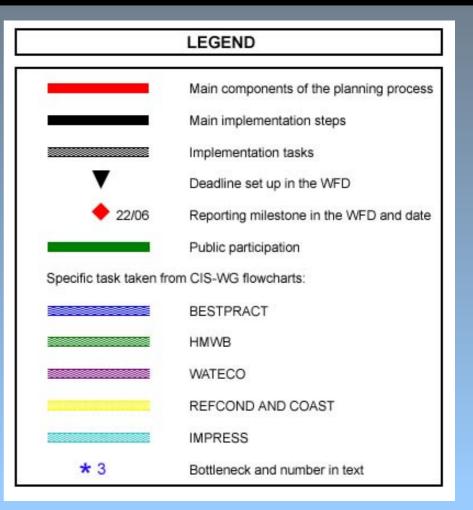


SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE OBRAS HIDRÁULICAS Y CAUDAD DE LAS AGUAS

#### Guidance on the planning process

# **Overall flowchart for the planning process**

- •Overall flowchart structured into 3 levels.
- •Development using the Microsoft Project software.
- •10 components, 35 implementation steps and 120 specific tasks.







DIRECCIÓN GENERAL DE OBRAS HIDRÁILUCASY CALIDAD DE LAS AGUAS

## **Guidance on the planning process**

bla		VACD autician	2004	2002	2002	2004	2005	2000	2007	-00		00 0000					
No.	Key activities for the first planning cycle Set the scene	WFD articles	2001	2002	2003	2004	12005	2006	2007	2008	1	2009	2009 2010	2009 2010 2011	2009 2010 2011 2012	2009 2010 2011 2012 2013	2009 2010 2011 2012 2013 2014
1	Set the scene																
2	Identify river basin districts and assign coastal water and groundwater	3.1				7											
3	Identify and delimitate river basins		1														
4	Identify and delimitate coastal and transitional waters		1														
5	Identify and delimitate groundwaters		1														
6	Designate river basin districts		1	•	ר <mark>م</mark>												
7	Assign coastal and transitional waters to nearest or most appropriate river basin districts																
8	Assign groundwaters to nearest or most appropriate river basin district				•		-						•				
9	Identify stakeholders and design public participation procedures		1														
10	Provide information on the WFD and the planning process via existing structures		1														
11	Develop strategy for stakeholder identification		1														
12	Design public participation procedures		1														
13	Establish necessary GIS infrastructure and take necessary steps for harmonisation	3.8, Annex I (II)															
14	Produce map/GIS-layers on RBD boundaries, main rivers, subbasins, etc.	Annex I (ii)															
15	Bring into force laws, regulations and adminitrative provisions necessary to comply with the WFD	24.1			-												
16	Bring into force laws, regulations and adminitrative provisions necessary to comply with the WFD																
17	Inform the EC of the legislative provisions adopted	24.2			₩.	22/	12										
18	Identify competent RBD authority	3.7	1		•												
20	Produce map/GIS-layers on competent RBD authorities	Annex I	1			f											
21	Provide the EC with a list of competent authorities including the relevant information of Annex 1	3.8, Annex I				•	22/06										





SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE OBRAS HIDRÁULICAS Y CAUDAD DE LAS AGUAS

#### **Guidance on the planning process**

## Overall flowchart for the planning process – Current status and preliminary gaps (2002-2004)

No.	Key activities for the first planning cycle	VVFD articles	2004	2002 2	003 200	14 20	15 2009	2007	2009	2002	2010	2014	204.2	2012	2017	2014
22	Assess the current status and analyse prefiminary gaps	v vi Diarucles	2001	2002 2		- 20	JU 2000	2007	2000	2008	2010	2011	2012	2013	2014	2010
23	Analyse the characteristics of RBDs	5.1				-										
24	- Establish typology	Annex ii				T										
25	Identify the boundaries of water bodies	Annex X														
26	Produce may on surface water body types	Annex II, Annex VII A.1.1														
27	Active involvement of stakeholders (e.g. information supply)	A.I.I														
28	Review the pressures and impacts of human activity on the status of waters	5.1				-										
29	Collect available information and data on human activities and pressures	Annex X														
30	Evaluate existing monitoring data and assess gap with respect to objectives															
31	Set up databases of information on human activities and existing monitoring data for the whole river basin district and at the level of water bodies when available															
32	Identify pressures caused by human activities, in particular those listed in Annex II	Annex II														
33	Assess the impacts of these pressures	Annex II	1													
34	Active involvement of stakeholders (e.g. inventory of knowledge and perceptions)							-								
35	Provisional identification of AWB and HMWB	4.3														
36	Screening for hydromorfological changes in water bodies	Annex II.1.4														
37	Describe significant changes in hydromorphology in water bodies that have not been "screened out"	5.1, Annex II.1.4-5														
38	Identify water bodies likely to fail good ecological potential due to changes in hydromorphology	Annex II.1.5														
39	Select water bodies substantially changed in character due to physical alterations by human activity and identify them provisionally as HMWB	5.1, Annex II.1.1														
40	Active involvement of stakeholders (e.g. transparent designation via formal consultative mechanisms)															
41	Evaluate the gap between current status and objectives	Annex V.1.4.2				- *	1									
42	Define and apply the baseline scenario and evaluate the gap between trend status and objectives															
43	Define the provisonal identification of water bodies at risk of failing to reach the WFD objectives in 2015	Annex II														
44	Active involvement of stakeholders (e.g. information flow)															
45	Provide an economic analysis of water use	5.1, Annex III			_	<b>-</b>										
46	Identify water uses and services by economic sector															
47	Conduct an economic analysis of water use				P											
48	Assess current pricing policies															
49	Project trends in key indicators and drivers up to 2015 by constructing a business as usual (BAU) scenario for pressures (refine beyond 2004)															
50	Active involvement of stakeholders (e.g. information flow, evaluate current levels of costs)															
51	Register protected areas	6.1, Annex IV.2, Annex VII.3														
52	Register protected areas															
53	Active involvement of stakeholders (e.g. information flow)		1													
54	Inform the public on the results of the analysis					-										
56	Submit summary reports to EC on the analyses of the current status	15.2					22/03									
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#### Guidance on the planning process

# Overall flowchart for the planning process – Environmental objectives (2002-2006) and monitoring programmes (2004-2006)

No	Key activities for the first planning cycle	WFD articles	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
57	Set up environmental objectives	Annex II/V															
58	Establish provisional reference conditions																
59	Establish necessary infrastructure (authorities, expert groups, databases, models, etc.) at national and water district level	5.1															
60	Assign body types for assisting in establishing reference conditions	Annex II.1.3															
61	Establish criteria for high and good status																
62	Select potential high and good status sites																
63	Establish reference conditions and ecological quality class boundaries						-		(								
64	Choose quality elements and methods for establishing reference conditions (RC) and ecological quality class boundaries	5.1															
65	Establish type specific RC and calculate ecological quality ratio (EQR) values for all relevant quality elements	Annex V.1.4															
66	Propose ecological quality class boundaries																
67	Carry out intercalibration								(								
68	Select intercalibration sites					ר ר	2.1										
69	Conduct the intercalibration exercise				₽				*2	2							
70	Establish ecological class boundaries				•												
71	Active involvement of stakeholders (e.g. information flow)																
72	Establish monitoring programmes	8, Annex V															
73								,	7								
74	of water bodies at risk of failing the objectives Select the most sensitive indicators for operational monitoring of HMWB and AWB																
75	Design surveillance monitoring networks								6								
76	Design operational monitoring networks for water bodies at risk and transboundary groundwater bodies																
77									F								
78	Design additional monitoring for protected areas																
79	Active involvement of stakeholders (e.g. information flow)																
80	Submit summary reports of the monitoring programmes according to Art. 8							4	🔶 22	/03							





AMBIENTE DIRECCIÓN GENERAL DE OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

## **Guidance on the planning process**

No.	Key activities for the first planning cycle	WFD articles	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
81	Gap analysis																
82	Verify and refine the preliminary gap analysis		1														
84	Evaluate whether cost for closing the gap are disproportionate and justify potential derogations	4.4, 4.5															
86	Decide on deadline extensions and application of less stringent objectives	4.3-4.7						₽									
88	Designate HMWB and AWB	4.3	1														
89	Designation test (a): Identify restoration measures necessary to achieve GES and check whether these measures have significant adverse effects on the wider environment or the "specified uses"	4.3.a															
90	Designation test (b): Check whether the beneficial objectives served by the AWB or the modifications of the HMWB can be achieved by other means which are a significantly better environmental option, technically fesible and not disproportionately costly	4.3.b															
91	Designate the water bodies not meeting the designation test (b) as HM/VB or AVVB																
92	Establish environmental objectives: Maximum Ecological Potential (MEP)						•										
93	Establish environmental objectives: Good Ecological Potential (GEP)		1	•			•										
94	Mapping/GIS-layer of monitoring networks (operational,surveillance, investigative and reference monitoring sites and sites for monitoring of drinking water abstraction points)	Annex V.1.3.1-1.3.3, 1.3.5, 2.2, 2.4, Annex II.1.3															
95	Apply ecological status/potential classification to surface water bodies			•			•										
96	Produce maps/GIS-layers on classification (ecological status, ecological potential, bad status/potential caused by (non-)synthetic pollutants, chemical status	Annex V.1.4.2.															
97	Apply status classification to groundwater bodies							-									
98	Produce maps/GIS-layers on quantitative and chemical status of groundwater bodies or groups of groundwater bodies																
99	Active involvement of stakeholders (e.g. building-in of knowledge and perceptions, reality-test)																





MBIENTE DIRECCIÓN GENERAL DI OBRAS HIDRÁULICASY CAUDAD DE LAS AGUAS

#### **Guidance on the planning process**

## Overall flowchart for the planning process – Programme of measures (2005-2009)

No.	Key activities for the first planning cycle	WFD articles	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
100	Set up the programme of measures																
101	Active involvement of stakeholders (e.g. information flow)																
102	Define potential measures																
103	Assess the status of implementation of basic measures according to Art. 11.3 and Annex VI	11.3, Annex VI															
104	Select additional basic measures if necessary																
105	Select potential supplementary measures (Annex VI, Part B)	Annex VI/B	1														
106	Analyse the cost-effectiveness of potential measures									٦ (							
107	Develop database on costs and effectiveness on measures																
108	Estimate costs and effectiveness of measures in river basin		1														
109	Set up a cost-effective programme of measures							4			7						
110	Assess and rank cost effectiveness									Ιſ	-						
111	Construct programme of measures and estimate total costs																
112	Assess whether total costs are disproportionate		1														
113	Assess the financial implementation of the programmes of measures																
114	Finalise the detailed programme of measures	11.7								L-)•							





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OBRAS HIDRÁULICAS Y CALIDAD DE LAS AGUAS

## Guidance on the planning process

## Overall flowchart for the planning process – River basin management plans (2006-2009)

No.	Key activities for the first planning cycle	WFD articles	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
116	Develop river basin management plans	13, Annex VII															
117	Active involvement of stakeholders (e.g. workshops, inventory of key issues, expert sessions and field observations)																
118	Prepare and consult the timetable and work programme for the production of the RBMP																
119	Publish and make available to the public a timetable and a work programme for the production of the RBMP	14.1.a							η								
120	Allow a period of at least six months for comments by the public							•	*	~							
121	Provide an interim overview of significant water management issues	14.1.b															
122	Publish and make available for comments to the public an interim overview of the significant water management issues identified in the RBs									5		3.1					
123	Allow a period of at least six months for comments by the public								•	ן 🗖	۲						
124	Complete the draft river basin management plans and make it available for comments to the public	14.1.c															
125	Complete the draft river basin plans										h (						
126	Allow a period of at least six months for comments by the public										ר 🔤						
127	Produce a summary of the programme of measures									- 14							
129	Finalise and publish river basin management plans	13.6									▶=						
130	Summary of public information and consultation measures taken, results and changes to the plan made as a consequence										•						
131	Active involvement of stakeholders to ensure a continuation of PP after the normal consultation period										•						
132	Finalise and publish river basin management plans										₩	η Ι					
133	Send copies of the river basin management plans to the EC	15									•	<b>é</b> 22	/03				





AMBIENTE DIRECCIÓN GENERAL DI OBRAS HIDRÁULICASY CAUDAD DE LAS AGUAS

### Guidance on the planning process

# Overall flowchart for the planning process – Implementation (2009-2012) and evaluation (2012-2015)

No.	Key activities for the first planning cycle	WFD articles	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 201	2012	2013	2014	2015
	Implement the programmes of measures and prepare the interim report on the implementation															
135	Active involvement of stakeholders (e.g. workshops, inventory of key issues, expert sessions and field observations)															
136	Make the measures of the programme of measures operational	11.7												7		
138	Establish incentive water-pricing policies	9														
140	Prepare an interim report describing progress in the implementation of the planned programme of measures	15.3												7		
142	Submit the interim report to the EC												- <b>N</b>	23/1	2	
143	Evaluate the first and prepare the second period															
144	Active involvement of stakeholders (e.g. collecting information and knowledge and assessment)															
145	Update the RBD status	5														
147	Review the programme of measures and the RBMP	13.7, 11.8, Annex VII														
148	Prepare a new timetable, work programme and make it available for public consultation														7	
149	Review and update of analyses and reviews of significant water management issues mentioned in Art. 5.1	5.2													7	
150	Prepare a summary of changes or updates since the publication of the previous version of the RBMP including a summary of the reviews to be carried out under Art. 4, 5, 6 and 7															
151	Review of MEP and GEP values for AWB and HMWB															
152	Prepare a summary of and explanation for any measures foreseen in the earlier version of the RBMP which have not been undertaken															
153	Assess the progress made towards the achievement of the environmental objectives including a presentation of the monitoring results for the period of the previous plan in map form and an explanation of the unachieved environmental objectives															
154	Prepare a summary of any additional interim measures adopted under Art. 10 since the publication of the previous version of the RBMP															
155	Review of MEP and GEP values for AWB and HMWB															
156	New draft river basin management plan and public consultation		1											4		1
157	Publish the updated river basin management plan		1												- 1	i i i i i i i i i i i i i i i i i i i
	Interim measures to prevent further deterioration of the status of aquatic ecosystems	1, 4.3-4.9														
	Information and consultation of the public, active involvement of interested parties in accordance with the Public Participation Guidance document	14														





SECRETARÍA DE ESTADO DE AGUAS Y COSTAS DIRECCIÓN GENERAL DE DRAGA HIDRÁULICAS Y

#### Guidance on the planning process

#### Main bottlenecks in he planning process

•Bottleneck: incongruities between official deadline requirements and the practical approach for the implementation of a task/activity (timingrelated problems).

•Specific or local bottlenecks are not dealt with for the moment.

•Three main issues/deadlines:

1. Objectives to be achieved in 2015 are unclear: difficulty to determine water bodies at risk to fail the environmental quality objectives (gap analysis) and measures to be taken <u>before 2004</u>.

2. Data availability: the monitoring programme will not be in place <u>before 2007</u>. Insufficient information for pressure and impact analysis, reference conditions, ecological class boundaries, HMWB, etc.

3. Publication of the <u>draft</u> River Basin Management Plan in order to allow for comments by public <u>in 2008</u>. Available time practically reduced by 1 year.



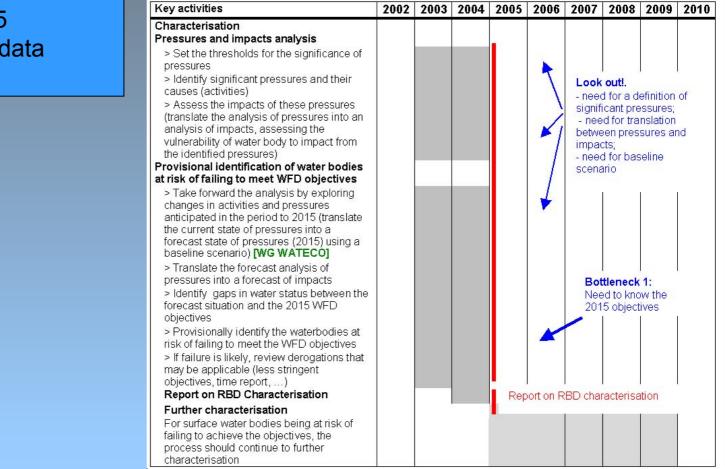


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#### Guidance on the planning process

## Bottleneck 1: Gap analysis: assessment of the likelihood that water bodies will fail to meet the environmental objectives

### Related to 2015 objectives and data availability





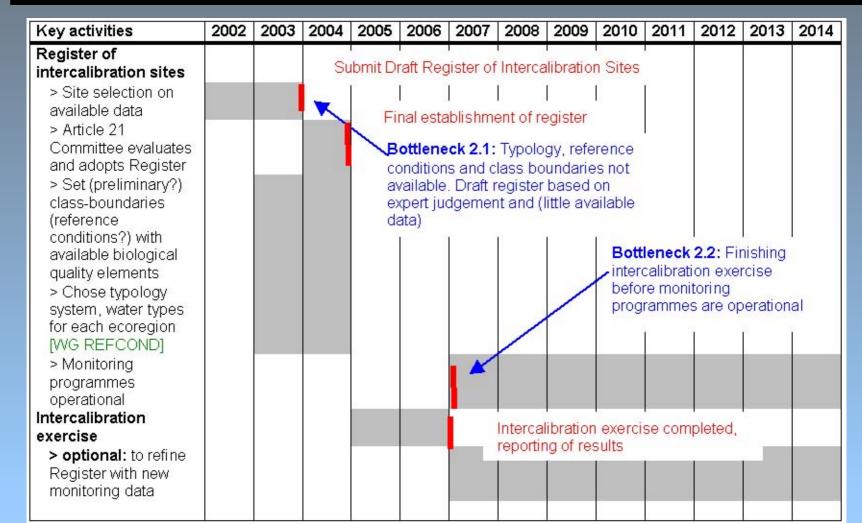


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CALIDAD DELAS AGUAS

#### Guidance on the planning process

#### **Bottleneck 2: Intercalibration**







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### Guidance on the planning process

## Bottleneck 3: RBMP and public participation

Key activities	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Public Participation         > Consultation on timetable and work programme for the production of RBMP         > Six months to comment on timetable and work programme         > Consultation on an overview of significant water management issues         > Six months to comment on overview of significant water issues         > Six months to comment on overview of significant water issues         > Consultation on a draft copy of RBMP         > Six months to comment on draft copy of RBMP         > Active Involvement shall be	2002	2003	2004	2005	2006	2007	2008	Bottle time s	neck 3. chedule ents and	2011 1: Press for asse d reviewi	sed
encouraged > Access to background documents and information											



#### Guidance on the planning process

#### **Recommendations on the preparation and use of flowchart**

•Overall flowchart: starting point for a more detailed management project at the RBD or RB level (strongly recommended).

•Prepare specific guidelines at the national/RBD level based on the flowcharts, containing: reference to WFD an national legislation; approach, methods and tools to be used; reference to the CIS guidance documents; available materials and data; specific activities to be carried out by the responsible entities; requirements concerning reporting.

•Provide a more detailed breakdown of Level 3 tasks based on CIS guidance documents at the RBD level (responsible entity/ies, deadlines, coordination).

•Begin most activities as early as possible and correct deficiencies: iterative process, "parallel" scheduling.

•Be aware that reporting is often required late in the process (as part of RBMP) but the related tasks have to be implemented earlier, e.g. results of the monitoring programmes to be reported only in 2009 but certain data are need before even 2004.

•Ensure follow up and coordination (between national RBDs, national and international RBDs, national parts of international RBDs).