

PUBLIC ENVIRONMENTAL AUDITING: CHALLENGES AND OPPORTUNITIES FOR EXTERNAL MONITORING BODIES

Auditing the Urban Water Cycle in the Madrid Community

"Courtesy translation provided by the organisation"



KEY POINTS OF THIS PRESENTATION

- The choice of theme.
- Framework, scope, overall objective.
- Operational aims.
- Subjective elements.
- Dynamic of the auditing.
- Conclusions and recommendations: case studies
- Looking ahead to the future.



The choice of theme

- The social, economic and environmental importance of water resources to sustainable development.
- The longstanding concern, associated with physical and demographic characteristics, over water resources in the Comunidad de Madrid.
- The considerable volume of resources used by plans, programmes and projects associated with water resources.
- The debate on the new approaches for supplying, producing and financing public assets and services and compliance with the Water Framework Directive of 2000.
- The need for a young audit body, such as the Audit Commission of the Comunidad de Madrid, to undertake audits that exceed its mandate.



Framework, scope, overall objective and dynamic of the auditing

What are we talking about?

Flows and processes that water follows from nature and back again.

Underlying framework?

Complex rule system and institutional network associated with an asset regarded as an essential service that involves the EU and central, autonomous community and local authorities.

What is the scope?

Complete cycle versus urban water cycle.

What is the overall objective?

To analyse the current situation and outlook vis-à-vis compliance with the EU Water Framework Directive.



Operational aims

- Current situation and recommendations on:
 - Guaranteeing availability of resource
 - Management models for supplying, producing and financing the service
 - Environmental quality and quality of the service
 - Public participation
 - Economic and financial aspects, paying special attention to cost recovery.



Subjective elements

PHASES OF THE WATER CYCLE IN THE COMUNIDAD DE MADRID:		RESPONSIBILITY	MANAGEMENT BODY
Supply	Adduction •Treatment •Storing •Collection	Autonomous community	Canal Isabel II (96%) Aguas del Sorbe Federation (3.2%) Others (0.8%)
	Distribution •Elevation •Distribution	Municipalities	Canal Isabel II (96%) UTE de Alcalá de Henares Others. Federations in 18 Municipalities
Sanitation	•Collection and evacuation of waste and rain water	Municipalities	Canal Isabel II. Agreements Federations
	Treatment •Return to rivers or networks •Re-use	Autonomous community	Canal de Isabel II Madrid City Council



Dynamic of the auditing

- Some differences in focus in comparison with audits carried out on the basis of the traditional mandates of external audit bodies.
- Preparation: Previous experience, specific training for human resources and meetings with agents involved.
- Implementation: Volume of information. Delays.
- Presentation of the report.
 - Introduction, including details of the body on whose initiative it was carried out; the subjective and objective elements included; objectives and scope; its limitations as well as the treatment given any declarations.
 - An overview of the general context surrounding management of the urban water cycle in the Comunidad de Madrid, with a description of the geographical and socioeconomic characteristics of Madrid, the agents involved in the water sphere and the phases of the urban water cycle.
 - The report then gives over a chapter to each of the operational aims detailed above, focussing on three different aspects:
 - Current state
 - Conclusions
 - Recommendations



Aim: Guaranteeing availability of resource

Considerations

Projections show that levels are insufficient to guarantee future supply.

Recommendations

- Supply
 - Discover formulae that establish a commitment from institutions given the development time that major infrastructure such as dams require
 - Policies to renew networks and to separate them must be speeded up.
- Demand
 - Need for greater depth in population and development studies
 - Progress on programmes related to saving water, technical efficiency of equipment and consumer devices, as well as the consumption of extremely high-quality water for certain uses.
- Improvements
 - Clearly define the Canal's area of action in the event of new missions
 - Agree terms and definitions that will enable greater rigour and transparency on data, given the current differences between the various organisations
 - Install metering systems for all end consumers.



Aim: The management model

Considerations

- Water is a public asset and hence surrounded by a special legal system
- The provision of the service related to water is regarded as essential
- The service can be managed
 - · Individually: Direct, Indirect or Mixed
 - Jointly: Agreement, Tender and Federation
- Traditionally, priority has been given to direct or joint formulae in the provision of the service in the Comunidad de Madrid
- Trends: increase in the activity of the Canal Isabel II and indirect management formulae.

Recommendations

- Need to analyse the financial impact of the service provision models on city councils and citizens alike. Specific case of Alcalá de Henares
- Reconsideration of the legal purpose and status of the Canal de Isabel II in the light of its fields of activity
- Specific audit of the Canal de Isabel II.



Aim: Environmental impact

Considerations

The Framework Directive establishes targets for 2015 for:

- Surface water: good chemical and ecological status
- Groundwater: good chemical and quantitative status.

Recommendations

- Surface water:
 - Focus on the recovery of stream plant life
 - Improve purification treatment for return to canal
- Groundwater:
 - Avoid excessive and uncontrollable extraction
 - Make progress as regards the replenishment of aquifer.
- Industrial activities:
 - Incentives for more environmentally-friendly industrial processes
- All agents:
 - Change individual and collective behaviour through campaigns to promote considerate and responsible consumption



Public participation

Considerations

- Governance and new culture of water: transparency, participation and control
- Environment Directive: supply of information, consultation and active involvement
- Institutional and public participation: different users, different interest groups and different authorities involved.

Recommendations

 Improve citizen involvement by ensuring access to information and giving greater priority to citizen participation exercises on plans and programmes in addition to the awareness-raising and education programmes currently in place.



Internalising costs

Considerations

- Principle of cost recovery in water-related services, including environmental costs and costs relating to resources, in other words, opportunity costs
- Tariff policy is crucial to achieving targets.

Recommendations:

- Need to make progress by conducting a specific audit of the Grupo del Canal de Isabel II that will increase our understanding of the processes and costs associated with them.
- Improve the internal cost control system.
 - Adequate accounting of costs that will make it possible to determine for certain the cost of the services.
 - Outline the concepts associated with environmental costs.
 - Differentiate costs.
- Reflect subsidies received in such a way that their impact on the consumer is transparent.
- Tariffs:
 - Improve information to users through a single bill, as an element that contributes to saving.
 - Analyse and/or increase escalating tariffs.



Looking ahead to the future

- Need to improve co-ordination given the existence of various monitoring bodies on issues such as the environment
- Supplement standardised procedures for this kind of audit that makes it easier to arrive at uniform comparisons between institutions and countries
- Make headway on the recommendations by seeking increased efficiency in information, particularly as regards result evaluation. To achieve this, improvements need to be made in information analysis techniques
- Strive for increased efficiency in resources by using multidisciplinary teams
- Monitor progress on recommendations made.