

Supplementary Materials: Transforming European Water Governance? Participation and River Basin Management under the EU Water Framework Directive in 13 Member States

Nicolas W. Jager, Edward Challies, Elisa Kochskämper, Jens Newig, David Benson, Kirsty Blackstock, Kevin Collins, Anna Ernst, Mariele Evers, Judith Feichtinger, Oliver Fritsch, Geoffrey Gooch, Wiebke Grund, Beatrice Hedelin, Nuria Hernández-Mora, Frank Hüesker, Dave Huitema, Kenneth Irvine, Andreas Klinke, Leonie Lange, Delphine Loupsans, Mark Lubell, Carmen Maganda, Piotr Matczak, Marc Páres, Heli Saarikoski, Lenka Slavíková, Sonja van der Arend and York von Korff

1. Introduction

The supporting information provides the variable descriptions and a detailed account of the data aggregation procedures employed during the analysis.

Further, the supporting information contains a list of literature sources consulted to elicit the data for this analysis.

Table S1. Variable descriptions.

Variable Name	Description	Scale
RBM Planning Reference (RBM_PR)	Which scale serves as the main reference point for water resources management?	0 = administrative, 1 = hydrological
RBM Legal Responsibility (RBM_CA)	At which scale is the actor with legal responsibility for water resources management (or the designated Competent Authority under the WFD) located?	0 = administrative, 1 = hydrological
RBM Planning Responsibility (RBM_PA)	At which scale is the actor responsible for operating the planning process located?	0 = administrative, 1 = hydrological
RBM Implementation Responsibility (RBM_IA)	At which scale is the actor with primary responsibility for implementing measures located?	0 = administrative, 1 = hydrological
PP Number (PP_NO)	How many separate process types make up the participatory planning process?	number
PP Power Delegation (PP_PD)	The extent to which participants were able to influence the decisions to be taken (degree of decision-control granted to participants).	0 = very low influence, 4 = very high influence (co-governing)
PP Accessibility (PP_AC)	The extent to which access to the process by stakeholders and the public was constrained (e.g., presence of barriers or selection processes that regulated the access of potential participants).	0 = very low, 4 = very high
PP Representation (PP_RE)	Degree to which the constellation of interests involved in the participatory process was representative of the underlying stakeholder field.	0 = very low (strongly biased), 4 = very high (balanced representation)
PP Communication (PP_CO)	The extent to which the process provided opportunities for participants to engage in communicative interactions with each other and the authorities (e.g., listen as spectator vs. deliberate and negotiate).	0 = very low (listen as spectator), 4 = very high (highly deliberative)

RBM: River basin management; PP: Participatory process.

Table S2. Raw and aggregate data of public participation and river basin management in 13 EU member states for t0 and t1.

	Austria	Czech Republic	Denmark	England	France	Germany	Hungary	Ireland	Netherlands	Poland	Scotland	Spain	Sweden
T0_RBM_PR	0	1	0	1	1	0	1	1	1	1	0	1	0
T0_RBM_CA	0	0	0	0	1	0	0	0	0	0	0	1	0
T0_RBM_PA	0	0	0	1	1	0	1	0	1	1	0	1	0
T0_RBM_IA	0	1	0	0	0	0	0	0	1	0	0	1	0
T0_PP_NO	1	1	2	2	2	1	1	1	2	1	1	2	1
T0_PP_PD	0	0	2	1	4	1	2	1	4	1	0	4	0
T0_PP_AC	2	2	2	2	1	2	1	2	1	2	2	1	3
T0_PP_RE	2	2	2	2	4	2	1	2	3	1	3	0	3
T0_PP_CO	1	2	2	2	3	2	2	2	3	1	2	3	2
T1_RBM_PR	1	1	1	1	1	1	1	1	1	1	1	1	1
T1_RBM_CA	0	0	0	0	1	0	0	0	0	0	0	1	1
T1_RBM_PA	0	0	0	1	1	0	1	0	1	1	0	1	1
T1_RBM_IA	0	1	0	0	0	0	0	0	1	0	0	1	0
T1_PP_NO	2	2	1	3	3	2	3	1	3	2	3	3	2
T1_PP_PD	2	2	2	3	4	3	2	2	4	2	3	4	3
T1_PP_AC	2	1	1	1	2	3	1	3	2	2	2	1	3
T1_PP_RE	2	2	3	2	4	2	3	1	3	2	3	1	2
T1_PP_CO	2	2	2	2	3	2	2	2	3	2	2	3	3
T0_RBM	0.000	0.500	0.000	0.500	0.750	0.000	0.500	0.250	0.750	0.500	0.000	1.000	0.000
T1_RBM	0.250	0.500	0.250	0.500	0.750	0.250	0.500	0.250	0.750	0.500	0.250	1.000	0.750
T0_PP	0.317	0.367	0.533	0.483	0.733	0.417	0.367	0.417	0.683	0.317	0.417	0.533	0.467
T1_PP	0.533	0.483	0.467	0.600	0.850	0.633	0.600	0.467	0.800	0.533	0.700	0.650	0.683

Table S3. Public Participation in 13 EU member states under the WFD.

Country	Venues	Access and Representation	Power Delegation and Communication
Austria	National roundtable; Local processes	Professional stakeholder selection, open locally; strong representation of nationally important interests	Consultative and informative function
Czech Republic	District level planning committees; Regional seminars	Stakeholder selection; strong representation of established professional interests	Consultative function
Denmark	Regional water and nature council	Closed, rather balanced, selection of sanctioned stakeholders	Consultative and informative function
England/Wales	National liaison panel; RBD liaison panels; Local catchment processes	Stakeholder selection; stronger representation of potential co-deliverers	Advice and recommendations
France	Basin committees; Local level processes; Broad public outreach	Access points for various interests and publics; elections	Development of preferences, strong influence in decisions
Germany	State level advisory councils; Local sub-basin processes	Stakeholder selection, more open locally; strong representation of organised interests and users	Advice and recommendations
Hungary	National water management council; District water management councils; Local councils	Restricted stakeholder selection; rather balanced between government, NGOs, users, and academia	Consultative and informative function
Ireland	Regional advisory councils	Application for membership based on criteria; strong representation of local authorities	Consultative and informative function
Netherlands	National interest group forum; Regional water boards, sounding boards; Local area processes	Closed selection, open locally; strong representation of organised interests	Development of preferences, strong influence in decisions
Poland	National water management forum; regional water management councils	Stakeholder selection; strong representation of users	Consultative and informative function
Scotland	National advisory group (NAG); Area advisory groups (AAG); AAG Forum	NAG/AAG: stakeholder selection, Forum open; representation according to local circumstances	Advice and recommendation
Spain	National water council; River basin and governing councils; Local working groups and workshops	Limited stakeholder selection and strong representation by users	Development of preferences, strong influence in decisions
Sweden	Regional water boards; Local water councils	Stakeholder selection, open locally; organised conservation interests under-represented	Advice and recommendations, provision of data and own proposals

Text S1. Method of Aggregation for Indices Used

Public participation (PP): To arrive at a single participation index, we standardised the five variables on a range between 0 and 1. To aggregate the single dimensions, we calculated the simple mean of the standardised variables for each country. The resulting participation index is shown on the x-axis of Figure 1.

Formula:

$$Participation_i = \frac{PP\ Legal\ Status_i + \frac{PP\ Number_i}{4} + \frac{PP\ Power\ Delegation_i}{4} + \frac{PP\ Accessibility_i}{4} + \frac{PP\ Representation_i}{4}}{5} \quad (1)$$

where i = country.

River basin management (RBM): As with public participation, we aggregated these variables per country by calculating their simple mean. The resulting river basin management index is depicted on the y-axis of Figure 1. Note, however, that there is—partly due to the binary nature of the variables and the logic of progressing institutionalisation beyond these variables—an inner logic and order. Therefore, the steps on this scale indicate qualitative difference in the institutionalisation of water resource management and planning on a hydrological scale.

In detail this means:

- | | |
|------|--|
| 0 | no basin planning |
| 0.25 | River basin unit (hydrological scale is the reference point for planning, prescribed by the WFD) |
| 0.5 | operational planning (actual operational planning and/or implementation is carried out by actors on river basin scale) |
| 0.75 | legal responsibilities (river basin actors are legally sanctioned) |

Text S2. Literature Drawn on in Coding: European Water Resources Management before and after EU Water Framework Directive Implementation

1. Albrecht, J.; Schmidt, C.; Stratmann, L.; Hofmann, M.; Posselt, S.; Wach, A.; Wendler, W. (Eds.) *Die Wasserrahmenrichtlinie aus Sicht des Naturschutzes: Analyse der Bewirtschaftungsplanung 2009. Abschlussbericht zum F&E-Vorhaben*; Bundesamt für Naturschutz: Bonn, Germany, 2012.
2. Allain, S. Social participation in French water management: Contributions to river basin governance and new challenges. In *Social Participation in Water Governance and Management: Critical and Global Perspectives*; Berry, K., Mollard, E., Eds.; Earthscan: London, UK, 2010; pp. 95–115.
3. Andersen, M.S. Denmark: The shadow of the green majority. In *European Environmental Policy: The Pioneers*; Andersen, M.S., Liefferink, D., Eds.; Manchester University Press: Manchester, UK, 1997; pp. 251–286.
4. Andersson, I.; Petersson, M.; Jarsjö, J. Impact of the European Water Framework Directive on local-level water management: Case study Oxunda Catchment, Sweden. *Land Use Policy* **2012**, *29*, 73–82.
5. Barraqué, B.; Berland, J.-M.; Cambon, S. Frankreich. In *Eurowater: Institutionen der Wasserwirtschaft in Europa. Band 1: Länderberichte*; Nunes Correia, F., Kraemer, R.A., Eds.; Springer: Berlin, Germany, 1997; pp. 190–328.
6. Barreira, A. The participatory regime of water governance in the Iberian Peninsula. *Water Int.* **2003**, *28*, 350–357.
7. Behagel, J. The politics of democratic governance: The implementation of the Water Framework Directive in the Netherlands. Ph.D. Thesis, Wageningen University, Wageningen, The Netherlands, 2012.
8. Behagel, J.; Turnhout, E. Democratic legitimacy in the implementation of the Water Framework Directive in the Netherlands: Towards participatory and deliberative norms? *J. Environ. Policy Plan.* **2011**, *13*, 297–316.
9. Behagel, J.; van der Arend, S. What institutions do: Grasping participatory practices in the Water Framework Directive. In *Forest and Nature Governance*; Arts, B., Behagel, J., van Bommel, S., de Koning, J., Turnhout, E., Eds.; Springer: Berlin, Germany, 2013; pp. 69–88.
10. Benson, D.; Fritsch, O.; Cook, H.; Schmid, M. Evaluating participation in WFD river basin management in England and Wales: Processes, communities, outputs and outcomes. *Land Use Policy* **2014**, *38*, 2132–222.
11. Blackstock, K.L.; Richards, C. Evaluating stakeholder involvement in river basin planning: A Scottish case study. *Water Policy* **2007**, *9*, 493–512.
12. Błaszczuk, P. *The Challenge of Implementing the Water Framework Directive in Poland*; United Nations Economic Commission for Europe: Geneva, Switzerland, 2002.
13. Blomquist, W.; Tonderski, A.; Dinar, A. *Institutional and Policy Analysis of River Basin Management: The Warta River Basin, Poland*; World Bank Policy Research Working Paper 3528; World Bank: Washington, DC, USA, 2005.
14. Bongaerts, J.C. European water law: Water policy and water resources management in France: The projet de loi sur l'eau (Part 1). *Eur. Environ. Law Rev.* **2002**, *11*, 239–244.
15. Bongaerts, J.C. European water law: Water policy and water resources management in France: The projet de loi sur l'eau (Part 2). *Eur. Environ. Law Rev.* **2002**, *11*, 260–270.
16. Bouleau, G.; Barone, S.; Maurel, P.; Richard, A.; Abrami, G.; I-FIVE: *Innovative Instruments and Institutions in Implementing the Water Framework Directive: French Case Study Report: Implementing the WFD on the Thau Basin*; Research Report 2.3; Office International de l'Eau: Limoges, France, 2009.
17. Bourblanc, M.; Crabbé, A.; Liefferink, D.; Wiering, M. The marathon of the hare and the tortoise: Implementing the EU Water Framework Directive. *J. Environ. Plan. Manag.* **2012**, *56*, 1449–1467.
18. Bruns, A. Governance im Küstenraum. Europäische Umweltpolitik im Wandel: Die Umsetzung des Integrierten Küstenzonenmanagements und der Wasserrahmenrichtlinie an der Westküste Schleswig-Holsteins. Ph.D. Thesis, Christian-Albrecht-Universität zu Kiel, Kiel, Germany, 2010.
19. Bruns, A.; Gee, K. From state-centered decision-making to participatory governance. *GAIA* **2009**, *18*, 150–157.

20. Bukowski, J. Spanish water policy and the National Hydrological Plan: An advocacy coalition approach to policy change. *South Eur. Soc. Politics* **2007**, *12*, 395–397.
21. Cate, F.M. River basin management in lower and upper Austria: Beginnings and future prospects. *Water Sci. Technol.* **1999**, *40*, 1851–1893.
22. Collins, A.; Ohandja, D.-G.; Hoare, D.; Voulvoulis, N. Implementing the Water Framework Directive: A transition from established monitoring networks in England and Wales. *Environ. Sci. Policy* **2012**, *17*, 496–501.
23. De Stefano, L.; Hernández-Mora, N. Water planning and management after the EU Water Framework Directive. In *Water, Agriculture and the Environment in Spain: Can We Square the Circle?* De Stefano, L., Llamas, M.R., Eds.; CRC Press: Boca Raton, FL, USA, 2012; pp. 35–44.
24. Department of the Environment, Heritage and Local Government. *Consultation Paper on Public Participation in River Basin Management*; Department of the Environment Heritage and Local Government: Dublin, Ireland, 2004.
25. Department of the Environment Heritage and Local Government. *Guidelines for the Establishment of River Basin District Advisory Councils*; Department of the Environment Heritage and Local Government: Dublin, Ireland, 2005.
26. Earle, R.; Blacklocke, S. Master plan for Water Framework Directive activities in Ireland leading to river basin management plans. *Desalination* **2008**, *226*, 134–142.
27. Enserink, B. Public participation in Dutch water management: Pragmatism in meeting EU requirements. In *Partizipation, Öffentlichkeitsbeteiligung, Nachhaltigkeit. Perspektiven der Politischen Ökonomie*; Feindt, P.H., Newig, J., Eds.; Metropolis-Verlag: Marburg, Germany, 2005; pp. 209–233.
28. Enserink, B.; Monnikhof, R.A.H. Information management for public participation in co-design processes: Evaluation of a Dutch example. *J. Environ. Plan. Manag.* **2003**, *46*, 315–344.
29. Enserink, B.; Kamps, D.; Mostert, E. *Public Participation in River Basin Management in the Netherlands: (Not) Everybody's Concern*; HarmoniCOP project report, WP4. RBA-Centre, Delft University of Technology, Delft, The Netherlands, 2003.
30. Environment Agency. *Water for Life and Livelihoods: A Framework for River Basin Planning in England and Wales*; Environment Agency: Bristol, UK, 2006.
31. Environmental Protection Agency. *Water Quality Management Planning in Ireland*; Environmental Protection Agency: Wexford, Ireland, 1999.
32. Ernst, A. *Empirische Untersuchung der Öffentlichkeitsbeteiligung an den Bewirtschaftungsplänen zur Umsetzung der EG-Wasserrahmenrichtlinie*; Bachelor's Dissertation, Universität Osnabrück, Osnabrück, Germany, 2009.
33. European Commission. *Communication from the Commission to the European Parliament and the Council: Towards Sustainable Water Management in the European Union*; European Commission: Brussels, Belgium, 2007.
34. European Commission. *Commission Staff Working Document. Member State: Poland. Accompanying the document "Report from the Commission to the European Parliament and the Council on the Implementation of the Water Framework Directive (2000/60/EC): River Basin Management Plans"*; European Commission: Brussels, Belgium, 2012.
35. European Commission. *Commission Staff Working Document. Member State: Sweden. Accompanying the document "Report from the Commission to the European Parliament and the Council on the Implementation of the Water Framework Directive (2000/60/EC): River Basin Management Plans"*; European Commission: Brussels, Belgium, 2012.
36. Feichtinger, J. *Politischer Wandel im Gewässermanagement: Die Implementation der EU-Wasserrahmenrichtlinie im Spannungsfeld von Wasserkraft und Gewässerschutz in Österreich und Bayern*. Ph.D. Thesis, Universität für Bodenkultur, Wien, Austria, 2013.
37. Flynn, B.; Kröger, L. Can policy learning really improve implementation? Evidence from Irish responses to the Water Framework Directive. *Eur. Environ.* **2003**, *13*, 150–163.
38. Fritsch, O.; Benson, D. Integrating the principles of Integrated Water Resources Management? River basin planning in England and Wales. *Int. J. Water Gov.* **2013**, *1*, 265–284.
39. Gayer, J. Public Participation in the Context of WFD Implementation in Hungary. In *Proceedings of the Europe INBO Conference, Rome, Italy, 7–9 November 2007*.

40. Gayer, J. WFD related public participation in Hungary. In Proceedings of the CIWEM/ASTEE/EWA Joint Conference, Lille, France, 29–30 September 2009.
41. Gooch, G.D.; Baggett, S. IWRM in the Swedish context: A voluntary move to IWRM principles or a legal necessity to comply with the European Union Water Framework Directive? *Int. J. Water Gov.* **2013**, *1*, 361–378.
42. Hammer, M.; Balfors, B.; Mörtberg, U.; Petersson, M.; Quin, A. Governance of water resources in the phase of change: A case study of the implementation of the EU Water Framework Directive in Sweden. *Ambio* **2011**, *40*, 210–220.
43. Hedelin, B. Potential implications of the EU Water Framework Directive in Sweden. *Eur. J. Spat. Dev.* **2005**, *14*, 1–17.
44. Hedelin, B.; Lindh, M. Implementing the EU Water Framework Directive: Prospects for sustainable water planning in Sweden. *Eur. Environ.* **2008**, *18*, 327–344.
45. Hedin, S.; Dubois, A.; Ikonen, R.; Lindblom, P.; Nilsson, S.; Tynkkynen, V.-P.; Veidemann, K. *The Water Framework Directive in the Baltic Sea Region Countries: Vertical Implementation, Horizontal Integration and Transnational Cooperation*; Nordregio, Nordic Centre for Spatial Development: Stockholm, Sweden, 2007.
46. Hernández-Mora, N.; Ballester, A. Public participation and the role of social networks in the implementation of the Water Framework Directive in Spain. *Ambient. SPI* **2011**, *2011*, 1–21.
47. Hödl, E. *Wasserrahmenrichtlinie und Wasserrecht*; Neuer Wissenschaftlicher Verlag: Wien, Austria, 2005.
48. Holda, A. An Analysis of the Environmental Management Elements of the Water Framework Directive and its Implementation Components. Master's dissertation, Technische Universität Hamburg-Harburg, Hamburg, Germany, 2005.
49. Howarth, W. Aspirations and realities under the Water Framework Directive: Proceduralisation, participation and practicalities. *J. Environ. Law* **2009**, *31*, 391–417.
50. Huřka, A. Towards Communicative River Management in Poland. Ph.D. Thesis, Radboud Universiteit Nijmegen, Nijmegen, The Netherlands, 2010.
51. Huřka, A.; Palarie, T. WFD, Institutional Infrastructure, Decision-making and Stakeholders' Participation in Water Risk Management in Poland and Romania. In Proceedings of the EASY-ECO Vienna Conference, Vienna, Austria, 11–14 March 2008.
52. Ioris, A.A.R. Water institutional reforms in Scotland: Contested objectives and hidden disputes. *Water Altern.* **2008**, *1*, 253–270.
53. Irvine, K.; Free, G.; De Eyto, E.; White, J.; Allott, N.; Mills, P. The EC Water Framework Directive and monitoring lakes in the Republic of Ireland. *Freshw. Forum* **2001**, *16*, 48–65.
54. Irvine, K.; O'Brien, S. Progress on stakeholder participation in the implementation of the Water Framework Directive in the Republic of Ireland. *Biol. Environ.* **2009**, *109*, 365–376.
55. Ison, R.; Watson, D. Illuminating the possibilities for social learning in the management of Scotland's water. *Ecol. Soc.* **2007**, *12*, 21.
56. Jirásek, V. River Basin Management Planning in the Czech Republic. In *River Basin Management: Progress Towards Implementation of the European Water Framework Directive*; Lawson, J., Ed.; Taylor & Francis: Leiden, The Netherlands, 2005; pp. 61–64.
57. Junier, S. I-FIVE: *Innovative Instruments and Institutions in Implementing the Water Framework Directive: Dutch Case Study*; Research Report 2.1; Office International de l'Eau: Limoges, France, 2010.
58. Junier, S.; Borowski, I.; Bouleau, G.; Interwies, E.; Mostert, E. Implementing the Water Framework Directive: Lessons for the second planning cycle. In *The Water Framework Directive: Action Programmes and Adaptation to Climate Change*; Quevauviller, P., Borchers, U., Thompson, K.C., Simonart, T., Eds.; RSC Publishing: Cambridge, UK, 2011; pp. 80–96.
59. Kálmán, P. Hungarian experiences in the implementation of WFD: Sharing experiences and meeting future challenges. In Proceedings of the European River Basin District Authorities Conference, Stockholm, Sweden, 20–21 August 2009.
60. Kastens, B.; Newig, J. The Water Framework Directive and agricultural nitrate pollution: Will great expectations in Brussels be dashed in Lower Saxony? *Eur. Environ.* **2007**, *17*, 231–246.
61. Kastens, B.; Newig, J. Will participation foster the successful implementation of the Water Framework Directive? The case of agricultural groundwater protection in North-West Germany. *Local Environ.* **2008**, *13*, 27–41.

62. Koontz, T.M.; Newig, J. Cross-level information and influence in mandated participatory planning: Alternative pathways to sustainable water management in Germany's implementation of the EU Water Framework Directive. *Land Use Policy* **2014**, *38*, 594–604.
63. Kowalczak, P.; Matczak, P.; Slavikova, L. Institutional evolution in water management in the Czech Republic and Poland. *Int. J. Water Gov.* **2013**, *1*, 307–322.
64. La Roca, F.; Ferrer, G. The Water Framework Directive observatory: An assessment of the WFD implementation process in Spain. *Ambient. SPI* **2010**, *2010*, 1–26.
65. Länderarbeitsgemeinschaft Wasser. *German Guidance Document for the Implementation of the EC Water Framework Directive*, Updated Version: 30.04; Länderarbeitsgemeinschaft Wasser (LAWA): Stuttgart, Germany, 2003.
66. Lebensministerium. *EU Wasserrahmenrichtlinie 2000/60/EG: Österreichischer Bericht über die Zuständigen Behörden*; Lebensministerium: Wien, Austria, 2004.
67. Lebensministerium. *Guter Zustand für unsere Gewässer: Die Umsetzung der europäischen Wasserrahmenrichtlinie*; Lebensministerium: Wien, Austria, 2007.
68. Lebensministerium. *Aktiv für unser Wasser: Lebende Flüsse, Saubere Seen*; Lebensministerium: Wien, Austria, 2009.
69. Lebensministerium. *Nationaler Gewässerbewirtschaftungsplan 2009—NGP 2009*; Lebensministerium: Wien, Austria, 2009.
70. Legutko, Ł. Public participation in implementation of the Water Framework Directive in Poland. In Proceedings of the 4th World Water Forum, Mexico City, Mexico, 22 March 2006.
71. Leinweber, T. *Umsetzung der EU-Wasserrahmenrichtlinie in Deutschland: Bestandsaufnahme, Monitoring, Öffentlichkeitsbeteiligung und Wichtige Bewirtschaftungsfragen*; SRU—Sachverständigenrat für Umweltfragen: Berlin, Germany, 2008.
72. Lieferink, D.; Wiering, M.; Uitenboogaart, Y. The EU Water Framework Directive: A multi-dimensional analysis of implementation and domestic impact. *Land Use Policy* **2011**, *28*, 712–722.
73. Lundmark, C.; Jonsson, G. Prospects for learning in river management: Exploring the initial implementation of the Water Framework Directive in a Swedish river basin. *Environ. Educ. Res.* **2014**, *20*, 161–176.
74. Lundqvist, L.J. Integrating Swedish Water Resource Management: A Multi-Level Governance Trilemma. *Local Environ.* **2004**, *9*, 413–424.
75. McGarrigle, M.L. Champ, W.S.T. Keeping pristine lakes clean: Loughs Conn and Mask, western Ireland. *Hydrobiologia* **1999**, *395–396*, 455–469.
76. Meijerink, S.; Wiering, M. River basin management in Europe: The “up- and downloading” of a new policy discourse. In *The Disoriented State: Shifts in governmentality, territoriality and governance*; Arts, B. Lagendijk, A.; Houtum, H.V., Eds.; Springer: Berlin, Germany, 2009; pp. 181–200.
77. Meyer, C.; Thiel, A. Institutional change in water management collaboration: Implementing the European Water Framework Directive in the German Odra river basin. *Water Policy* **2012**, *14*, 625–646.
78. Molnár, E.; Bardóczy, E.; Fehér, J. Tasks of stream revitalization in the light of the water framework directive in Hungary. In Proceedings of the Environmental Water Management (ENWAMA) project meeting, Belfast, UK, 2010.
79. Montoya-Hidalgo, J. Instruments of public participation in Aragon water policy: The Aragon Water Commission. *Water Resour. Dev.* **2007**, *23*, 41–50.
80. Mostert, E.; Pahl-Wostl, C.; Rees, Y.; Searle, B.; Tàbara, D.; Tippet, J. Social Learning in European River-Basin Management: Barriers and Fostering Mechanisms from 10 River Basins. *Ecol. Soc.* **2007**, *12*, 19–34.
81. Muro, M. Zur Wirksamkeit der Öffentlichkeitsbeteiligung von Wasserwirtschaftlichen Planungen in Deutschland. Master's Dissertation, Technische Universität Berlin, Berlin, Germany, 2002.
82. Murphy, K.; Glasgow, G. North-south coordination in Ireland's international river basin districts. *Biol. Environ.* **2009**, *109B*, 139–150.
83. River Basin Management Planning National Advisory Group (NAG). *Proposed National Contributions to Deliver Water Framework Directive Requirements*; River Basin Management Planning National Advisory Group (NAG): Edinburgh, UK, 2008.
84. Neef, A. Lost in translation: The participatory imperative and local water governance in North Thailand and Southwest Germany. *Water Altern.* **2008**, *1*, 89–110.

85. Newig, J. Die Öffentlichkeitsbeteiligung nach der EG-Wasserrahmenrichtlinie: Hintergründe, Anforderungen und die Umsetzung in Deutschland. *Z. Umweltpolit. Umweltr.* **2005**, *28*, 469–505.
86. Newig, J.; Challies, E.; Jager, N.W.; Kochskämper, E. What role for public participation in implementing the EU Floods Directive? A comparison with the Water Framework Directive, early evidence from Germany, and a research agenda. *Environ. Policy Gov.* **2014**, *24*, 275–288.
87. Nielsen, H.Ø.; Frederiksen, P.; Saarikoski, H.; Rytönen, A.-M.; Pedersen, A.B. How different institutional arrangements promote integrated river basin management: Evidence from the Baltic Sea Region. *Land Use Policy* **2013**, *30*, 437–445.
88. Näslund, C.; Langas, V.; Skuza, K. *Water Management in Lithuania, Poland and Sweden—Comparisons of the EU Water Framework Directive in Practice*; Report 5.3 (Vol. 8); Länsstyrelsen Blekinge Län: Karlskrona, Sweden, 2012.
89. Naturvårdsverket. *Samverkan om Vattenförvaltning: Information, Kommunikation och Samråd*; Naturvårdsverket: Stockholm, Sweden, 2006.
90. Notte, O. How does participation make accountability in the European water policies? Comparison between France and the Netherlands. In Proceedings of the 8th Congress of the European Sociological Association, Glasgow, UK, 3–6 September 2007.
91. Notte, O.; Keessen, A.M. *Quick Scan: WFD Implementation in France*; Centre for Environmental Law and Policy, Utrecht University: Utrecht, The Netherlands, 2009.
92. Nunes Correia, F.; Kraemer, R.A. *Eurowater: Institutionen der Wasserwirtschaft in Europa. Band 1: Länderberichte*; Springer: Berlin, Germany, 1997.
93. Orr, P.; Colvin, J.; King, D. Involving stakeholders in integrated river basin planning in England and Wales. *Water Resour. Manag.* **2007**, *21*, 331–349.
94. Perdok, P.J. Country reports: Netherlands. In *Eurowater: Institutionen der Wasserwirtschaft in Europa. Band 1: Länderberichte*; Nunes Correia, F., Kraemer, R.A., Eds.; Springer: Berlin, Germany, 1997; pp. 327–448.
95. Petersson, S. Experiences of uncertainty: Case study of the implementation of the EU Water Framework Directive in Sweden. Master's Dissertation, Linköpings Universitet, Linköping, Sweden, 2011.
96. Raadgever, G.T.; Dieperink, C.; Driessen, P.P.J.; Smit, A.A.H.; van Rijswijk, H.F.M.W. Uncertainty management strategies: Lessons from the regional implementation of the Water Framework Directive in the Netherlands. *Environ. Sci. Policy* **2011**, *14*, 64–75.
97. Rhine-Meuse Water Agency. *National Consultation on Water 2008, National Summary: Summary by Basin*; Rhine-Meuse Water Agency: Montpellier, France, 2009.
98. Richard-Ferrouddji, A. L'animateur de bassin-versant Insuffler vie à une communauté de l'eau. *Cosmopolitique* **2008**, *17*, 139–152.
99. Ridder, D.; Interwies, E.; Borowski, I.; Gronemeier, K.; Grambow, C. *I-FIVE: Innovative Instruments and Institutions in Implementing the Water Framework Directive: The German Case Study*; Research Report 2.2; Office International de l'Eau: Limoges, France, 2010.
100. Scottish Environmental Protection Agency. *Consultation Responses to the Significant Water Management Issues Report for the Scotland RBD*; Scottish Environmental Protection Agency (SEPA): Edinburgh, UK, 2008.
101. Scottish Environmental Protection Agency. *River Basin Planning Strategy for the Scotland River Basin District*; Scottish Environmental Protection Agency (SEPA): Edinburgh, UK, 2005.
102. Stephan, U.; Gustafsson, J.-E. Vattenförvaltningen och Aktörsdeltagandet i Tyskland: Water management and public participation in Germany. *Vatten* **2005**, *60*, 201–214.
103. Slavíková, L.; Jílková, J. Implementing the Public Participation Principle into Water Management in the Czech Republic: A Critical Analysis. *Reg. Stud.* **2011**, *45*, 545–557.
104. Tonderski, A. *Warta River Basin Case Study Poland. World Bank Background Paper*; World Bank: Washington, DC, USA, 2004.
105. Turek, J.; Charvat, P. Implementation of the European Water Framework Directive in national legislation of the Czech Republic (progress to date). In *River Basin Management: Progress Towards Implementation of the European Water Framework Directive*; Lawson, J., Ed.; Taylor & Francis: Leiden, The Netherlands, 2005; pp. 3–6.
106. Uhrendahl, T.C. Partizipative Gewässerbewirtschaftung auf lokaler Ebene im Kontext der Wasserrahmenrichtlinie. Ph.D. Thesis, Albert-Ludwigs-Universität Freiburg, Freiburg im Breisgau, Germany, 2008.

107. Uitenboogaart, Y. *Quick Scan: WFD Implementation in Denmark*; Centre for Environmental Law and Policy Utrecht University: Utrecht, The Netherlands, 2009.
108. Uitenboogaart, Y. *Quick Scan: WFD Implementation in Germany*; Centre for Environmental Law and Policy, Utrecht University, Utrecht, The Netherlands, 2009.
109. Van der Heijden, J.; Ten Heuvelhof, E. The mechanics of virtue: Lessons on public participation from implementing the Water Framework Directive in the Netherlands. *Environ. Policy Gov.* **2012**, *22*, 177–188.
110. Van der Heijden, J.; ten Heuvelhof, E. Coping with mandated public participation: The case of implementing the EU Water Framework Directive in the Netherlands. *Perspect. Eur. Politics Soc.* **2013**, *14*, 403–417.
111. Van der Heijden, J.; ten Heuvelhof, E.; Broekmans, B.; van der Arend, S.; van Bueren, E.; Harteveld, C.; van Ruijven, T. Contrasting stories on overcoming governance challenges: The implementation of the EU Water Framework Directive in the Netherlands. *Local Environ.* **2013**, *19*, 318–333.
112. Vári, A. Hungarian experiences with public participation in water management. *Water Int.* **2004**, *29*, 329–337.
113. Vári, A.; Kisgyörgy, S. Public participation in developing water quality legislation and regulation in Hungary. *Water Policy* **1998**, *1*, 223–238.
114. Vattenmyndigheterna för Västerhavet och Södra Östersjön. Vattenråd—Södra: Teori och praktik. Östersjöns och Västerhavets vattendistrikt. Vattenmyndigheterna Västerhavet och Södra Östersjön. Available online: <http://www.vattenmyndigheterna.se/SiteCollectionDocuments/sv/sodra-ostersjon/publikationer/broschyr-vattenrad-teori-praktik.pdf> (accessed on 16 April 2016).
115. Verkerk, J.; van Buuren, A. Integrated water resources management in the Netherlands: Historical trends and current practices in the governance of integration. *Int. J. Water Gov.* **2013**, *1*, 427–451.
116. Vidékfejlesztési Minisztérium. *Implementing the Water Framework Directive in Hungary*; Vidékfejlesztési Minisztérium: Budapest, Hungary, 2010.
117. Watson, N.; Deeming, H.; Treffny, R. Beyond bureaucracy? Assessing institutional change in the governance of water in England. *Water Altern.* **2009**, *2*, 448–460.
118. Wiering, M.; Keessen, A. *Quick Scan: WFD Implementation in The Netherlands*; Centre for Environmental Law and Policy, Utrecht University: Utrecht, The Netherlands, 2009.
119. Woods, D. Stakeholder involvement and public participation: A critique of Water Framework Directive arrangements in the United Kingdom. *Water Environ. J.* **2008**, *22*, 258–264.
120. Wright, S.A.L.; Dubgaard, A. Participation in the Water Framework Directive in the UK and Denmark: Meaningful or tokenistic? In *Instruments and Institutions for Sustainable Water Management*; University of Copenhagen: Copenhagen, Denmark, 2010; pp. 114–132.
121. Wright, S.A.L.; Jacobsen, B.H. Combining active farmer involvement with detailed farm data in Denmark: A promising method for achieving water framework directive targets? *Water Sci. Technol.* **2010**, *61*, 2626–2633.
122. Zabrzeńska-Chaterera, M.; Imbierowicz, S.; Skrzypski, J.; Zbicinski, I. *Analysis of the Formation System of Management Plans and Water Resources Management*; WATERPRAXIS: Warsaw, Poland, 2010.

Workshop Reports

All reports delivered at the workshop: “Public participation and river basin management in WFD water planning”, Leuphana University of Lüneburg, Lüneburg, Germany, 1–3 September 2010.

1. Blackstock, K. *Public Participation and River Basin Management in WFD Water Planning: Scotland*; Leuphana University: Lüneburg, Germany, 2010.
2. Feichtinger, J. *Public Participation and River Basin Management in WFD Water Planning: Austria*; Leuphana University: Lüneburg, Germany, 2010.
3. Fritsch, O. *Public Participation and River Basin Management in WFD Water Planning: Denmark*; Leuphana University: Lüneburg, Germany, 2010.
4. Fritsch, O. *Public Participation and River Basin Management in WFD Water Planning: England and Wales*; Leuphana University: Lüneburg, Germany, 2010.
5. Hernández-Mora, N. *Public Participation and River Basin Management in WFD Water Planning: Spain*; Leuphana University: Lüneburg, Germany, 2010.
6. Huitema, D.; van der Arend, S. *Public Participation and River Basin Management in WFD Water Planning: The Netherlands*; Leuphana University: Lüneburg, Germany, 2010.

7. Irvine, K. *Public Participation and River Basin Management in WFD Water Planning: Republic of Ireland*; Leuphana University: Lüneburg, Germany, 2010.
8. Loupsans, D.; von Korff, Y. *Public Participation and River Basin Management in WFD Water Planning: France*; Leuphana University: Lüneburg, Germany, 2010.
9. Matczak, P. *Public Participation in River Basin Management in WFD Water Planning: Poland*; Leuphana University: Lüneburg, Germany, 2010.
10. Newig, J.; Feichtinger, J.; Ernst, A. *Public Participation in River Basin Management in WFD Water Planning: Germany*; Leuphana University: Lüneburg, Germany, 2010.
11. Páres, M. *Public Participation in River Basin Management in WFD Water Planning: Catalonia (Spain)*; Leuphana University: Lüneburg, Germany, 2010.