

Training course: How to use Environmental Economic Results in Water Resource Planning

January 13-14, 2010

Kaunas, Lithuania

Programme

Wednesday, 13 January 2010

8.30	Registration*
9:00 – 9:15	Welcome and introduction, short presentation of training course participants and teachers
9:15 – 10:00	Lecture 1: The economic requirements in the Water Framework Directive (WFD) (Berit Hasler)
10:00 – 10:15	Exercise 1: Discussions of the economic requirements in the WFD: your experiences (Berit Hasler)
10:15 – 10:30	Coffee break
10:30 – 11:00	Lecture 2: Fundamentals in environmental economics (Sisse Liv Brodersen)
11:00 – 12:00	Lecture 3: Fundamentals in environmental economics used for water planning and water policies (Sisse Liv Brodersen and Berit Hasler)
12:00 – 13:00	Lunch
13:00 – 14.30	Lecture 4: Principles of cost-effectiveness and examples (Sari Väisänen)
14:30 – 14:45	Coffee break

14.45 – 15.30	Danish and Lithuanian examples on cost-effectiveness analyses, assessments of costs of different measures (Berit Hasler and Daiva Seminiene)
15.30 - 16.30	Exercise 2: Estimation of costs for different measures and improvements 'hands on' exercise using Danish estimates for the costs of agricultural measures (Berit Hasler)
16.30 - 17.00	Discussion, comments
19.30	Dinner

* The training course will be held:

Main building of Kaunas University of Technology, K. Donelaičio str. 73, IV floor

Thursday, 14 January 2010

9:00 – 10:30	Lecture 5: Benefit and valuation studies – principles and examples from Denmark and Lithuania. Use in the implementation of the WFD. (Marianne Källstrøm, Daiva Seminiene)
10:30 – 10:45	Coffee break
10:45 – 11:45	Exercise 3: Small group work: Discussion of the use of benefit results – how can they be used in WFD-cases – which goods and services can be valued, and which cannot? Aggregation of benefits in case areas. (Sisse Liv Brodersen, Marianne Källstrøm, Berit Hasler)
11.45 – 12.00	Short wrap up in plenary
12:00 – 13:00	Lunch
13:00 – 14:30	Lecture 6: Cost Benefit Analysis – principles and examples. Use of CBA in the WFD. (Berit Hasler)
14:30 – 14:45	Coffee break
14:45 – 16:00	Exercise 4: Cost Benefit Analysis: Aggregating costs and benefits – How does different assumptions, rules etc influence the results (Berit Hasler, Sisse Liv Brodersen)

16:00 – 17:00 Summarizing, questions and evaluation

18:30 Kaunas sightseeing

19:30 Dinner

Literature

Required:

- Lecture 1-3: Brouwer & Pearce "Cost Benefit Analysis and Water Resources Management"
Chapter 2: Economic criteria for water allocation and valuation. (optional chapter 1-3)
- Lecture 4 John Asafu-Adjaye "Environmental Economics for non-Economist" Chapter 7
- Lecture 5: John Asafu-Adjaye "Environmental Economics for non-Economist" Chapter 5
- Lecture 6 John Asafu-Adjaye "Environmental Economics for non-Economist" Chapter 6 ex
appendix
- Henk Folmer & H. Landis Gabel "Principles of Environmental and Resource
Economics" Chapter 4

Optional literature:

Material at the website of the project Aquamoney: www.aquamoney.ecologic-events.de/sites/results.html

Articles:

Ian J. Bateman^{*}, Roy Brouwer[†], Helen Davies[‡], Brett H. Day^{*}, Amelie Deflandre[‡], Salvatore Di Falco^{*}, Stavros Georgiou^{*}, David Hadley^{*}, Michael Hutchins[‡], Andrew P. Jones^{*}, David Kay[§], Graham Leeks[‡], Mervyn Lewis[¶], Andrew A. Lovett^{*}, Colin Neal[‡], Paulette Posen^{*}, Dan Rigby^{**}, R. Kerry Turner^{*}: Analysing the Agricultural Costs and Non-market Benefits of Implementing the Water Framework Directive. *Journal of Agricultural Economics*, 57(2), 2006. 221-257.

[Bateman, I.](#), [Brouwer, R.](#), [Ferrini, S.](#), Schaafsma, M., Barton, D.N., Dubgaard, A., Hasler, B., Hime, S., Liekens, I., Navrud, S., De Nocker, L., Ščeponavičiūtė, R., Semėnienė, D. (2009) Making benefit transfers work: Deriving and testing principles for value transfers for similar and dissimilar sites using a case study of the non-market benefits of water quality improvements across Europe. EDM-2009-10

Nick Hanley and Andrew R. Black: [http://www.bioone.org/doi/abs/10.1897/1551-3793\(2006\)2%5B156:CAATWF%5D2.0.CO%3B2-aff2#aff2](http://www.bioone.org/doi/abs/10.1897/1551-3793(2006)2%5B156:CAATWF%5D2.0.CO%3B2-aff2#aff2) Cost–Benefit Analysis and the Water Framework Directive in Scotland. *Integrated Environmental Assessment and Management* 2(2):156-165. 2006