

**COST 869**  
**“Mitigation options for Nutrient Reduction  
in Surface Water and Groundwaters”**

**Small organizing meeting WG3 on 19 February 2008**  
**Hotel Schiphol A4, Amsterdam, The Netherlands**

**List of participants**

<b>Name</b>	<b>country</b>	
Oscar Schoumans	Netherlands	chair WG3
Antonio Lo Porto	Italy	organizer Rome meeting
Wim Chardon	Netherlands	MC chair
Steve Cuttle	UK	
Jean-Marcel Dorioz	France	
Klaus Isermann	Germany	

**The following items were on the agenda for this meeting:**

1. Current approaches of framework of databases in UK, DK, FR, GE, IT, and NL
2. Currently used web design on the website of our action
3. Ways to collect information that can be included in database with options
4. Preparation of workshop in Rome

**DRAFT Report**

**Ad 1. Current approaches**

Wim Chardon presented (see website for pdf of presentation) how in different reports and publications mitigation options are grouped, and how they are described and which criteria are used for evaluation of applicability etc. it was concluded that there are large differences in the number of categories used and their description, which makes comparison difficult. On the other hand, the criteria used for describing and evaluating the different options were comparable, which makes comparison of different studies easier.

After discussion, it was decided to use the categories as listed in table 1 for structuring the database of mitigation options. Of course, during the process of building the database these categories can be adapted when necessary. For each category persons will be asked who can coordinate the writing of factsheets falling under that category, and can also give a short introduction during the meeting in Rome. Names of persons that will be asked are also given in Table 1.

For the description and evaluation of the options a number of headings were chosen, these are summarized in table 2. Also these can be adapted when necessary.

**Table 1. Proposed categories to structure the list of mitigation options**

<b>Category</b>	<b>Examples</b>	<b>Coordinators (? means to be asked)</b>
Nutrient management	- organic fertilizer / manure - inorganic fertilizer	Newell-Price, Isermann, Meissner?, Garnier?
Crop management		Rubaek?
Livestock management		NL
Soil management	tillage etc., immobilization, organic matter content	Ulén ? Bechmann? Chardon
Water management	- irrigation - drainage	Delgado?, NL
Land use		Csatho?, Litaor?
Land infrastructure	buffer zones, terracing, in- field grass buffer strips	Dorioz, Hoffman?
Measures in surface water	constructed wetlands, sedimentation ponds	Lo Porto, Kronvang?

**Table 2. Proposed factsheet headings**

- Description, incl. if effect is aimed on N or P emission
- Rationale, mechanism of action
- Applicability
  - biophysical conditions (climate, slope, soil type)
  - land use (crops etc.)
  - practicability (skills, technicians)
- Effectiveness, including certainty
- Time frame
- Environmental side-effects / pollution swapping, e.g.
  - fecal organisms
  - pesticides
  - emission of greenhouse gasses
  - sediments
  - biodiversity
- Relevance, potential for targeting, administrative handling, control
- Costs
  - investment
  - labor
- References

## **Ad 2. Currently used web design**

The website of our action now contains titles of mitigation options. This will be adapted according to the categories in table 1, with links to factsheets written according to the scheme given in table 2.

### **3. Ways to collect information that can be included in database with options**

Information for the factsheets can be derived from inventories made e.g. in the UK, Denmark and The Netherlands. Also, several review papers, book chapters, factsheets prepared by SERA17 (US), and websites can be used for this purpose.

### **4. Preparation of workshop in Rome**

The WG3 Meeting in Rome will take place on 17 and 18 April 2008, the location will be:

CNR Building, Piazza Aldo Moro, 7 (in front of main entrance of University of Rome “La Sapienza”)

The topic of the workshop will be: *Completing the database of mitigation options.*

The meeting starts with an opening, followed by short introductions about each category of options. Proposed topics for the introductions are:

- problems with filling in factsheets / knowledge gaps
- uncertainties / simplifications
- needs for finishing factsheets

During the rest of the workshop factsheets will be discussed in small groups, with a maximum of 10 persons each, in parallel sessions. The categories will be divided over the two days depending on the number of factsheets that were prepared before the workshop. In order to have as much input as possible from active participants, it was decided that in general only one participant will be reimbursed per country, but a second participant can be reimbursed if she/he has written at least 3 factsheets.

A draft agenda of the workshop is given below.

#### **THURSDAY Categories 1-4**

8.30- 9.00 Opening

9.00-11.00 General Introductions (20 min) for each category + 10 min discussion

11.00-11.30 *Refreshments*

11.30-13.00 Discussion about factsheets for each category in 4 small groups (10 persons)

13.00-14.15 *Lunch*

14.15-15.30 Discussion about factsheets (contd)

15.30-16.00 *Refreshments*

16.00-18.00 Plenary session, reports

20.30 Leave hotel, social evening

#### **FRIDAY Categories 5-8**

8.30-10.30 General Introductions (20 min) for each category + 10 min discussion

10.30-11.00 *Refreshments*

11.00-13.00 Discussion about factsheets for each category in 4 small groups

13.00-14.15 *Lunch*

14.15-15.30 Discussion about factsheets (contd)

15.30-16.00 *Refreshments*

16.00-18.00 Plenary session, reports

18.00-18.30 Follow-up and closing.

It will take circa 1.5 hr to go to the nearest airport, so attendees are asked / advised to leave on Saturday.

**The following time schedule is proposed for creating factsheets for the Rome meeting:**

<b>Who</b>	<b>When</b>	<b>What</b>
Schoumans	Before 24 Feb.	Ask potential coordinators
Chardon	21-26 Feb.	Place known options in list with categories
Chardon	25-26 Feb.	Create sample factsheet
Chardon	27 Feb.	Distribute list with options + sample factsheet among small group, ask for missing options and comment on headings in sample factsheet
Small group	Before 3 March	Response to Chardon
Chardon	3 March	Adapt list with options, distribute among coordinators
Schoumans	3 March	Inform MC-members about program Rome, ask them to select participant(s) and their main interests to contribute to small groups in Rome
Coordinators	4-6 March	Select and ask authors to prepare factsheets
Coordinator / factsheet authors	6 March – 6 April	Prepare factsheets
Coordinators	Before 7 April	Send factsheets to Chardon
Chardon	7 April	Place factsheets on website
Attendees Rome meeting	7-17 April	Read factsheets on website