

**MICRODIS PROJECT**

**\*\*\*\*\***

# **HEALTH GROUP MEETING REPORT**

**Hanoi School of Public Health - Vietnam  
University Catholique de Louvain - Belgium  
University of Greenwich - United Kingdom  
Ferurbat University de Paris 4 – France  
Finnish Institute of Occupational Health – Finland  
University of Heidelberg –Germany  
University of Indonesia - Indonesia**

**Hanoi, 30<sup>th</sup> August - 1<sup>st</sup> September 2007**

## TABLE OF CONTENTS

|  |           |
|--|-----------|
| <b>1. LIST OF PARTICIPANTS, MEETING AGENDA</b>   | <b>1</b>  |
| <i>Objectives of the workshop</i>  | <i>1</i>  |
| <i>Specific goals of the workshop</i>  | <i>1</i>  |
| <b>2. PARTICIPANTS BRIEFING ON ACTIVITIES SINCE KICK-OFF MEETING</b>   | <b>1</b>  |
| <b>3. SUMMARY OF DISCUSSIONS</b>   | <b>1</b>  |
| 3.1 <i>Review of Work Plan and Deliverables</i>  | <i>1</i>  |
| <b>3.1.1 Work packages</b>   | <b>1</b>  |
| <b>3.1.2. Deliverables</b>   | <b>2</b>  |
| 3.2 <i>Interactions needed within and with other Groups, e.g. communications, data needs, conceptual ideas</i> | <i>2</i>  |
| <b>3.2.1. Communication rules</b>  | <b>2</b>  |
| <b>3.2.2. Interactions with other thematic groups</b>  | <b>3</b>  |
| 3.3 <i>Key Issues for Thematic Group discussion</i>  | <i>3</i>  |
| <b>3.3.1 Discussion of Integration Issues including surveys</b>  | <b>3</b>  |
| <b>3.3.2 Literature review – purposes, content, work allocation</b>  | <b>4</b>  |
| <b>3.3.3 Primary research questions</b>  | <b>5</b>  |
| <b>3.3.4 Conceptual and methodological frameworks relevant to Theme</b>  | <b>5</b>  |
| <b>3.3.7 Preparation for surveys</b>   | <b>5</b>  |
| <b>3.3.8. Preparations for Deli Meeting in February 2008</b>   | <b>6</b>  |
| <b>4. CONCLUSIONS AND PLAN OF ACTION</b>   | <b>7</b>  |
| <b>ANNEXES</b>   | <b>9</b>  |
| <i>Annex 1- List of participants</i>   | <i>9</i>  |
| <i>Annex 2. MEETING AGENDA</i>   | <i>10</i> |
| <i>Annex 3. Assessment of data requirements for thematic group to fulfill research questions</i>               | <i>11</i> |
| <i>Annex 4. Cross cutting issues</i>   | <i>12</i> |
| <b>List of abbreviations</b>   | <b>13</b> |

## **1. LIST OF PARTICIPANTS, MEETING AGENDA** (see Annex 1, Annex 2)

### **Objectives of the workshop**

- To make significant headway in developing a health **conceptual model** (work package WP1.1) to be integrated with the other two thematic areas (social and economic) keeping in mind that this will lead to a concrete outcome of methodology development (WP2) and field survey (WP3).
- To draft out a clear path to achieve the WP1.1 deliverables leading to WP2.1 (Development of assessment protocols, i.e. methodology) and WP3.1 (field survey)

### **Specific goals of the workshop**

- Define scope of the study
- Define objectives and sub-objectives
- Link to methodology
- Discuss the choice of study sites
- Elaborate a Plan of action
- Discuss partner collaboration and human resources (expertise)

## **2. PARTICIPANTS BRIEFING ON ACTIVITIES SINCE KICK-OFF MEETING**

**Valerie Louis:** Reports on kick-off meeting in Brussels. Reports on MICRODIS workshop: Evaplan, Dept of tropical hygiene, Asia, visitors etc. (*see file attached for content of presentation*)

**Terry Cannon:** Integration Group had a 1-day meeting in Paris, June 2007 (Meeting minute already sent to everyone). Briefing list of recommendations from this meeting (*see meeting minute*).

**Alexander Borde:** Economic working group is still weak, need to strengthen our group. Intend to organize thematic group meeting in November 2007 to clarify types of research questions, concepts, questionnaires, and data to collect next year. Started with WP1.3. It would be very good to have somebody from Vietnam, Asia to involve in our team to assess economic impacts of natural disasters. Suggested to have survey after health and social surveys, since data from health and social surveys can be inputs for our studies.

**Mondastri & Renti Mahkota:** reports a Microdis pilot project: “Analyzing the impacts of floods on leptospirosis and dengue in Jakarta. This is a part of conceptual framework development (*see file attached for the content of presentation*)

## **3. SUMMARY OF DISCUSSIONS**

### **3.1 Review of Work Plan and Deliverables**

#### **3.1.1 Work packages**

- Task 1.1. Development of conceptual model – Health impacts

### **3.1.2. Deliverables**

#### **D1.1.1. Thematic workshop session conclusions on the health impacts of natural disasters.**

This deliverable is the report of this Hanoi workshop.

Terry provides report structure and guideline by 1st of Sept. 2007

Vietnam team will prepare and send the 1st draft to all partners by 15th Sept. 2007. Deadline for comments and feedbacks by 20th of Sept. Deadline for the final workshop report 28<sup>th</sup> Sept. 2007.

#### **D1.1.2. Annotated bibliography and review on the prevalence of, and risk factors for, mortality, injuries, trauma and diseases following extreme events.**

Heidelberg takes lead to prepare a conceptual framework or terms of references for literature review (deadline: 17th of September) and a specific guideline on: what to put in literature review, assign tasks to different partner. Other partners are welcome to send suggestions before this deadline. Scope of literature review can be different, do not have to follow the description strictly. Ask information and data from CRED.

#### **D1.1.3. Report on industrial development in disaster prone areas.**

Marita works with Debarati Guha-Sapir: deliverable to be available in February 2008.

HWG invites Marita to do 1 or 2 studies on natural disasters create/release toxic chemicals.

Marita will prepare a report (3-5 pages) and present this in Deli meeting in February 2008

#### **D1.1.4. Preliminary conceptual model of health components that describes extreme event impacts.** Deadline: May 2008, but the 1<sup>st</sup> draft should be available by February 2008.

Each partners develop conceptual model for their own countries. Indonesia partner puts together and send back to all partners for comments. Debarati Guha-Sapir sends some examples for conceptual models. Conceptual models are country specific: depends on interests and characteristics of natural disasters in each country. Floods and storms can be together

Comprehensive model and core model. Guideline from Indonesia (Mondastrri) on the construction of comprehensive and core model: can be in bullet points (Deadline: 17th of Sept. 2007)

### **3.2 Interactions needed within and with other Groups, e.g. communications, data needs, conceptual ideas**

#### **3.2.1. Communication rules**

- From now to February 2008, HGW organizes group meeting at least once a month using skype. Valerie organizes this. (3-4 pm in Asia, 9-10 am in Europe)
- Project website should provides skype address for everybody.
- When documents are sent for comments with set deadlines. If no comments are provided on time, it means that a formal agreement without comment.
- HWG coordinator will request all partners to nominate 1 responsible contact person.
- All partners need to keep all printed emails
- A mailing list for HWG.
- Valerie is the contact person for HWG when communicating with social and economic groups

### **3.2.2. Interactions with other thematic groups**

- In the Social Group meeting, Terry asks social and economic groups that if Health group proposes sites, can the other two groups consider to use these sites. This allows integration protocol to be implemented.
- Could Terry also ask social group if they can base on preliminary result of health survey to conduct follow-up qualitative study (e.g. interviews, FGDs) to complete the data.

### **3.3 Key Issues for Thematic Group discussion**

#### **3.3.1 Discussion of Integration Issues including surveys**

##### Advantages of integration:

- The idea of integration is great in theory. Ideally to have integrated protocol at the beginning, this is one of the purposes of Microdis.
- Integrated survey only captures common information at household level for all 3 groups. Each study groups may conduct separate further studies to fulfill their objectives. Data on health, social and economic impacts of natural disasters at the same sites can be linked together.

##### Disadvantages:

- Makes 15 institutions all over the world with different expertise and interests come together, which can be difficult.
- Need assistant from other groups, issues of training of trainers, training for interviewers etc. Budget is not allowed to included new research members or local consultants
- Given the time frame, not sure if the integration team can guide this process to accomplish assigned tasks by November 2008.
- Each group has their own outputs, so how to integrate? E.g.: agree on the sites and the items to be done by the participatory approach? The same method could be used for all 5 sites of health impact assessment? Join investigators for household survey? How to design surveys applicable for 16 different sites? Surely a clear roadmap is critically needed for all three groups based on their own feedback.

##### Future plan

- HWG, EWG, SWG each makes a plan, with findings and come together. HWG presents issues covered by HWG. Proposes cross cutting issues with social and economic groups.
- Integration Group provides guidance on how different teams work together and provide a concrete sector-by-sector guidance on crosscutting issues among 3 aspects.
- Integration group can produce entire research protocol based on inputs from 3 thematic groups. Lets 3 groups know clearly what variables, inputs that each group need to give the integration group.
- Deli February meeting helps to allow common understanding among all teams and derives concrete conclusions.
- Pilot integrated survey protocol in Deli February 2008 meeting to decide where the pilot study should be implemented. Use semi-structured questionnaires, rather than large structured questionnaires.
- Workshop or individual assistant for explaining, training the integrated protocol since the integrated protocol needs to be adapted to the local situations. 1st priority is internal

resources. 2nd priority is inviting local experts. Integration group should provide recommendations/ suggestions of appropriate experts. MICRODIS has enough travel budget for members to travel to other country to assist partners if needed.

- Health group only analyses data on health issues. Other data on social and economic issues are analyzed by other groups.
- Methods and tools should be applicable to all partners

### ***3.3.2 Literature review – purposes, content, work allocation***

Bases on the contract, only 1 deliverable on literature review of economic impacts related to extreme events (e.g., households, welfare, migration, health). No deliverables for literature review on health and social impacts.

#### *Purposes of literature review:*

- Helping to answer, amend, formulate research questions, identify gaps
- To provide access and inspiration to other conceptual and research frameworks in order to use them, to critic them or improve them, to help us develop our conceptual model.
- Assess and evaluate existing data

#### *Key categories: country specific*

- Health policy and legal frameworks
- Baseline data for studied sites: health services (public, private): structure/input, process, output (part of survey, not belonged to literature review)
- Disaster management plan
- Emergency response (actors, stakeholders, resources)
- Types of disasters, impacts on health and health providers
- Health status data
- Interactions between health, social and economic aspects
- Risk factors/vulnerability

#### *Key words*

- Uses Cochrane criteria to evaluate data used in the review: could limits number of documents to be used, but this is necessary.

#### *Sources*

- Scientific papers
- Previous research: national/international published documents, unpublished documents, data from academic institutions
- Governmental data (relevant ministries, e.g. MOH)
- NGOs, international organizations, WHO, etc.
- Disaster preparedness agencies

*Databases for searching information:* uses Ovid Medline, etc.

#### *Work allocation*

Heidelberg takes lead to prepare a guideline on: what to put in literature review, and assign tasks to different partner. TOR for literature review should be available to all partners by 17th of Sept. 2007

### **3.3.3 Primary research questions**

1. What are the health impacts of floods, storms and earthquakes? (Each hazard has different health consequences, according to different time frames. Quantitative and qualitative questions)
2. What is the significant of insurance in dealing with health issues in disasters
3. Comparison in existing insurance systems in different countries
4. What factors make people become vulnerable and how to reduce these? Why some people are more vulnerable than others? (age, gender, education level, urban/rural..)
5. What factors reduce vulnerability through preparedness measures?
6. What are the impacts of natural disasters on health system/health services?
7. What is the significant of emergency health care in disaster response?
8. In preparedness, what general factors (health system) and hazard-specific factors are important (e.g. early warning system)?
9. Are there differences in health seeking behaviors before and after disasters?
10. What impacts does health status after disasters have on economic and social status?
11. Is there a mechanism for institutional learning in disaster preparedness? What are the barriers to the learning?

### **3.3.4 Conceptual and methodological frameworks relevant to Theme**

- Contribution/inputs from each members with examples of conceptual model (Deadline: 15<sup>th</sup> Sept. 2007)
- Strategy for developing the conceptual model (informal for HWG with examples) (Deadline: 30<sup>th</sup> Sept. 2007)
- Feedbacks from HWG (Deadline: 15<sup>th</sup> Oct. 2007)
- Synthesis by Indonesian group, dissemination to the HWG (Deadline: 15<sup>th</sup> Nov. 07)
- Conceptual model (Deadline: 30<sup>th</sup> Nov. 2007)

### **3.3.5 Assessment of data requirements for thematic group to fulfill research questions (see Annex 3)**

### **3.3.6 Crosscutting issues (see Annex 4)**

### **3.3.7 Preparation for surveys**

#### Rationale for time elapsed since disaster to be studied

All partners in HWG suggest all interesting and logistically sites for study  
Population based survey requires enormous preparation for baseline data: administration procedure: usually 1-3 months. Recruiting and training for interviewers. All these need 3 to 4 months. If a survey to be carried out in Summer 2008, sites' details should be available by January-Feb. 2008. Survey should not be undertaken too closely after disasters. Should be a large, important disaster in the countries. Types of disasters are flexible, can be changed, but need to report to the meeting in Feb. 2008 in Deli.

## ***MICRODIS PROJECT - Health Group Meeting Report***

---

Requirements for selection of study sites: (a) disasters results in deaths, (b) urban and rural, (c) rich and poor areas, (d) levels of vulnerability, frequency of disasters, and predictability, (e) timeframe should be within 6 months-12 months, based on the literature review! recall period. No international agreements on timeframes: short, medium, long terms. HWG defines these on its own.

Different methods can be used in different sites. Cross-sectional and prospective  
Specific attention for industrial sites in affected areas (any industrials, any scales). Descriptions of industrial sites in the affected areas: types of chemicals hazards, scales of the industry etc.

Control sites: important, but this will double study sites, budget? Suggested solution: reduce original sample size.

### **Annex studies**

1. Natural disasters and toxic hazards (Finland, India,...)
2. Earthquake studies: Indonesia, Philippines, and India can study this. Timeframe can be extended.

### Milestones

**Month 7<sup>th</sup> M2.1.1.** Identification of health assessment methodology to be analyzed. This actually is the literature review and research questions. (Milestones are less important; the most important things are deliverables)

**Month 12<sup>th</sup> M2.1.2.** Selection of assessment methodologies and tools

**Month 15<sup>th</sup>** Deliverable D2.1.1 Field protocol for health impact assessment

In February meeting in Deli, each partners of health group brings along with all tools already available to assess health impacts of natural disasters.

### ***3.3.8. Preparations for Deli Meeting in February 2008***

#### At least 4 technical presentations and 1 general presentation on annual group activities

- 1 presentation on leptos from Indonesia
- 1 presentation on flood from Vietnam.
- 1 presentation from Heidelberg on conceptual framework.
- Marita reports on industrial hazards in natural disasters Finland
- Leader of HWG delivers a short presentation on annual activities including group meeting

#### Request for a special session (half day) specific case scenario and discussion on integration issues.

- Case scenario to be prepared by Indian group, with supports from Heidelberg.
- Selects a case, India prepares a presentation on background information of the event.
- All thematic groups will discuss on if it is appropriate to apply integrated protocol, advantages, and disadvantages of this approach.
- HWG must prepare what are expected from other 2 thematic groups if integration approach is used.
- HWG feels that 2 days MICRODIS meeting is not long enough, so suggests 1 day thematic meeting prior the whole project meeting.
- Needs to get an idea from PC on what he expects from us and from other thematic groups on Deli meeting.

## ***MICRODIS PROJECT - Health Group Meeting Report***

- Scientific presentations, thematic group presentations, steering committee meeting in the evening (1 person from each institution)
- PC Joshi and Debarati Guha-Sapir (coordinators) provide draft Deli meeting agenda

### **4. CONCLUSIONS AND PLAN OF ACTION**

| <b>Activities/Deliverables</b>  | <b>Responsible partners/persons</b>                        | <b>Supportive partners/persons</b> | <b>Deadlines</b>   |
|---|--|------------------------------------|--|
| <b>D1.1.1.</b> Report on thematic health group workshop, Hanoi 30-31 August 2007  | HSPH<br>(Nhu Ha, Hanh Tran)                                | All partners of HWG; Terry Cannon  | 1 <sup>st</sup> draft by 15/9/07<br>Final draft by 28/9/07 |
| <b>D1.1.2.</b> Literature review TOR for literature review  | Heidelberg   | All partners of HWG                | 17 <sup>th</sup> Sept. 2007                                |
| <b>D1.1.3.</b> Report on industrial development in disaster prone areas (3-5 pages)   | Finland -Marita Luotamo                                    | Debarati                           | Deli meeting Feb.2008                                      |
| Provide examples of conceptual models   | All partners of HWG  | All partners of HWG                | 15 <sup>th</sup> Sept. 2007                                |
| Strategy for developing the conceptual model  | Indonesia and Heidelberg                                   |                                    | 30 <sup>th</sup> Sept. 2007                                |
| Feedbacks from HWG on conceptual model  | All partners of HWG  | All partners of HWG                | 15 <sup>th</sup> Oct. 2007                                 |
| Revised the conceptual model based on comments  | Indonesian partner   | All partners of HWG                | 15 <sup>th</sup> Nov. 2007                                 |
| 1 <sup>st</sup> draft of conceptual model   | Indonesian partner   | HWG                                | 30/11/07   |
| <b>D1.1.4.</b> Final version of conceptual model  | Indonesia (Debarati)                                       | All partners of HW                 | May/08   |
| HGW organizes group skype meeting at least once a month. 1 person from each partners  | Heidelberg Valerie Louis                                   | All partners of HWG                | Monthly, to Feb. 2008                                      |
| Ask possible interactions with other thematic groups, e.g. on selection of studied sites, data collection ...   | Integration group Terry Cannon                             | 3 thematic groups                  | EWG meeting, Nov. 07                                       |
| Guidelines for integration  | Integration group Terry Cannon                             | 3 thematic groups                  | Prior Deli meeting   |
| <b>M2.1.1.</b> Identification of health assessment methodology to be analyzed /literature review  | Heidelberg   | All partners of HWG                | Month 7 <sup>th</sup>                                      |
| <b>M2.1.2.</b> Selection of assessment methodologies and tools  | All partners of HWG  | All partners of HWG                | Month 12th   |
| Deliverable D2.1.1 Field protocol for health impact   | University of Indonesia                                    | All partners of HWG                | Month 15 <sup>th</sup>                                     |
| Preparation for Deli Meeting in Feb 2008 <ul style="list-style-type: none"> <li>▪ Presentation on leptospirosis</li> <li>▪ Presentation on flood</li> <li>▪ Presentation on conceptual model</li> <li>▪ Presentation on industrial</li> </ul> | Indonesia<br>Vietnam<br>Heidelberg<br><br>Finland - Marita |                                    | Feb. 2008  |

***MICRODIS PROJECT - Health Group Meeting Report***

---

|   |               |            |  |
|---|---------------|------------|--|
| hazards in natural disasters                |               |            |  |
| ▪ A short presentation on annual activities | Leader of HWG |            |  |
| ▪ Prepare a case scenario                   | Indian group  | Heidelberg |  |

## **MICRODIS PROJECT - Health Group Meeting Report**

### **ANNEXES**

#### **Annex 1- List of participants**

| <b>Group</b> | <b>Name</b>  | <b>Organization</b>   | <b>Contact in Hanoi</b>                  |
|--------------|--|---|--|
| All          | Debarati Guha-Sapir                                    | University Catholique de Louvain (UCL), CRED - <b>Belgium</b>                                   | Horison Hotel,                           |
| integr       | Terry Cannon   | University of Greenwich, School of Humanities - <b>United Kingdom</b> Tel: 044-7808940276       | Ha Noi Hotel, Rm: 1419                   |
| integr       | Alexandre Borde  | Ferurbat University de Paris 4 - <b>France</b>  | Ha Noi Hotel, Rm: 605                    |
| health       | Marita Luotamo   | Finnish Institute of Occupational Health (FIOH) - <b>Finland</b>                                |  |
| health       | Valerie Louis<br><Valerie.Louis@urz.uni-heidelberg.de> | EVAPLAN, University of Heidelberg, Department of Tropical and Public Health – <b>Germany</b>    | Ha Noi Hotel, Rm: 318<br>Tel: 0934245298 |
| health       | Michael Marx   | EVAPLAN, University of Heidelberg, Department of Tropical and Public Health - <b>Germany</b>    | Ha Noi Hotel<br>Tel: 0934240529          |
| health       | M.Meghachandra Singh                                   | Department of Community Medicine, Maulana Azad Medical College, New Delhi-110002 - <b>India</b> | Can not attend                           |
| health       | P.C. Bhatnagar   | Voluntary Health Association of India (VHAI) - <b>India</b>                                     | Can not attend                           |
| health       | Renti Mahkota  | University of Indonesia, Health Research Center for Crisis and Disaster - <b>Indonesia</b>      | Daewoo Hotel                             |
| health       | Mondastri  | University of Indonesia, Health Research Center for Crisis and Disaster - <b>Indonesia</b>      | Daewoo Hotel                             |
| health       | Tran Huu Bich  | Deputy, Hanoi School of Public Health - <b>Vietnam</b>  |  |
| health       | Ha Van Nhu<br><hvn@hsph.edu.vn>                        | Director of Disaster Management Dept., Hanoi School of Public Health - <b>Vietnam</b>           | Tel: 0978762802                          |
| health       | Tran Thi Kim Ngan<br>tkngan2003@yahoo.com              | Microdis project, Hanoi School of Public Health - <b>VN</b>                                     | Tel: 0912311099                          |
| health       | Tran Thi Tuyet Hanh<br><tth2@hsph.edu.vn>              | Department of Environment Health, Hanoi School of Public Health - <b>Vietnam</b>                | Tel: 0912955078                          |
| admin        | Do Thi Hanh Trang<br><dtht@hsph.edu.vn>                | Hanoi School of Public Health - <b>Vietnam</b>  | Tel: 0904320132                          |
| admin        | Cong Ngoc Long<br><cnl@hsph.edu.vn>                    | Hanoi School of Public Health - <b>Vietnam</b>  | Tel: 0902091208                          |
| guest        | Bui Thu Ha   | Deputy, Hanoi School of Public Health -Vietnam  |  |
| guest        | Le Thanh Ha  | Dept. Of Epidemiology - HSPH <b>Vietnam</b>   |  |
| guest        | Vu Xuan Phu  | Dept of Health Economics, HSPH <b>Vietnam</b>   |  |
| guest        | La Manh Cuong  | Faculty of Social Sciences - HSPH <b>Vietnam</b>  |  |
| guest        | Dang Vu Trung  | Dept of Health Economics, HSPH <b>Vietnam</b>   |  |
| guest        | Vu Quang Hieu  | WHO <b>Viet Nam</b>   |  |

**MICRODIS PROJECT - Health Group Meeting Report**

---

**Annex 2. MEETING AGENDA**

|  |   |
|--|---|
| <b>Day 1: August 30<sup>th</sup>, 2007</b> | Activities  |
| Morning<br>8.30 am-9.30 am                 | -General introduction of delegations  |
| 9.30-9.45 am                               | -Official opening from vice dean of HSPH  |
| 9.45 – 10.30 am                            | Reviews of activities since kick-off meeting<br>University of Indonesia reports on the Jakarta pilot project<br>Terry Cannon reports on Integration meeting |
| 10.30-10.45 am                             | Tea break   |
| 10.45-11.15 am                             | Evap reports on Brainstorming workshop held in Heidelberg in June<br>Nhu Ha reports on activities implemented by the Disaster Management Department at HSPH |
| 11.15-12                                   | Agreement on meeting agenda and goals   |
| 12-1.0 pm                                  | LUNCH TIME  |
| Afternoon<br>1.0-4.30 pm                   | Concept development (format to be defined, see list of issues to be discussed)  |
| Evening                                    | Welcome party at Lang Ngoi Restaurant (all delegations are invited)   |

|                                 |  |  |  |
|---------------------------------|--|--|--|
| <b>Day 2: August 31st, 2007</b> |  |  |  |
| Morning<br>8.30-12              | Concept development (format to be defined, see list of issues to be discussed)   |  |  |
| 12-1.0 pm                       | LUNCH TIME   |  |  |
| Afternoon<br>1.0 – 5.0 pm       | -Meeting wrap up:<br>-Plan of action (tasks are clearly assigned to each team)<br>-Conceptual framework<br>-Transition to field work |  |  |
| Evening                         | Water puppet show. Taxi is leaving HSPH at 6.30 pm   |  |  |

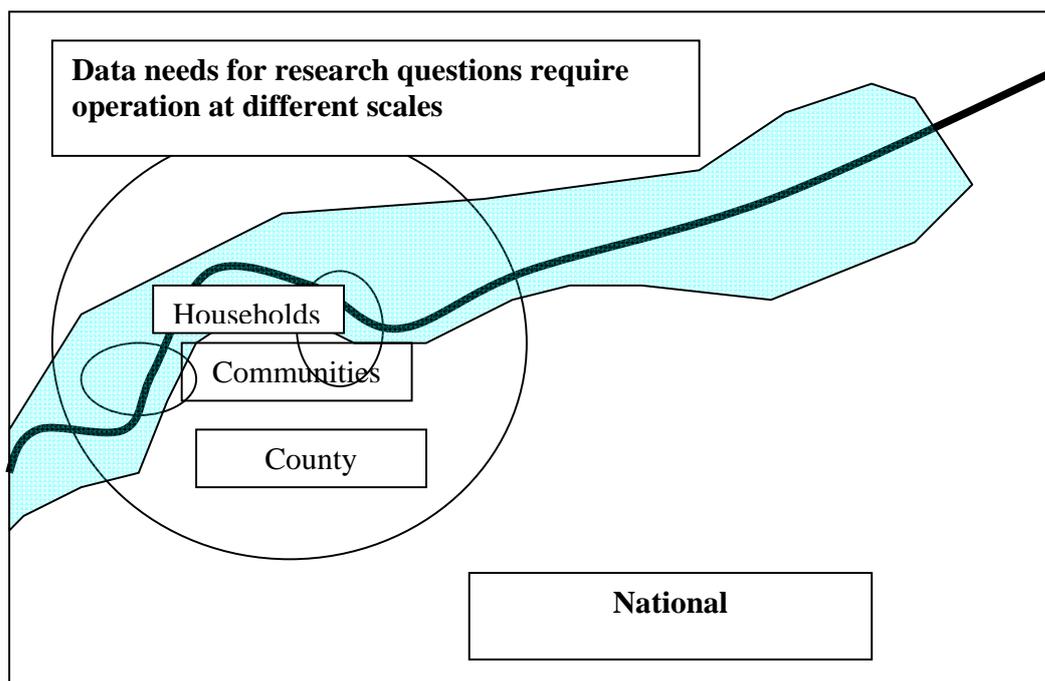
|                                       |   |  |  |
|---------------------------------------|---|--|--|
| Day 3: September 1 <sup>st</sup> 2007 | Optional, if important issues have not been discussed in the first two days |  |  |
|---------------------------------------|---|--|--|

**Suggested points to be discussed in the workshop**

- Make sure the approach for health can later be integrated with those of the socio and economic groups
- Format of this meeting's outcome
- Literature review: who will do what, responsibility of each partners, start ASAP
- Cross cutting issues, overlapped issues and integrated of all components
- Clarify work packages
- How to complete work package 1: roles of each partner

- Plan of action for the next 3 months, 6 months, 9 months, 12 months and 18 months: specific tasks for each partners
- List of research questions
- Analytical concepts
- Assessing impacts of natural disasters: what time frames?
- Baseline data to be available for all partners
- Kinds of data to be gathered
- 2 models for investigation: the first model: conduct separated surveys, each focus on health, social and economic impacts; 2<sup>nd</sup> model conducting integrated survey including all these 3 components. Make sure each partner has adequate data for their components. 2<sup>nd</sup> model is recommended
- Health seeking behaviours in different health systems, countries, regions
- Rules on communication among partners
- Technical report at the end of 18 months: who prepare this report and on what.
- Workshop in India in February 2008
- NATEC Conference 18<sup>th</sup>-21<sup>st</sup> May 2008 in Hong Kong

**Annex 3. Assessment of data requirements for thematic group to fulfill research questions**



**MICRODIS PROJECT - Health Group Meeting Report**

---

**Annex 4. Cross cutting issues**

**Country A, Site 1 – e.g. Rural Floods**

| Focus and Data   | Health  | Economic   | Social  | Scale                         |
|--|---|--|---|-------------------------------|
| Background & baseline  | Health provision services   | Employment and livelihood systems<br>Baseline income and poverty | Types of social capital; Gender relations; Class and caste relations; Age structure & generational issues | National and County levels    |
| Impact on institutions (e.g.   | Health and social providers, local government)  |  |   | National and county levels    |
| Impacts on sectors   | Migration<br>Temporary accommodation  | Tourism,<br>Power<br>Key employers<br>Migration                  | Migration   | County and community levels   |
| Impact on infrastructure   | Hospitals<br>Clinics<br>Camps   | Roads<br>Electricity   | Communication   | County and Community levels   |
| Impacts on communities and households  |   |  |   | County and community levels   |
| Impact on households   | Integrated survey fulfilling needs of ALL thematic groups<br>Some quantitative, some qualitative<br>Survey designed to fulfill scientific needs for outputs<br>Some open ended<br>Methods include participatory tools to ensure trust and quality of data |  |   | Community and Household level |
| Disaster responses of other stakeholders and actors (e.g. NGOs, emergency aid providers) | Some data from community survey   |  |   | County and community level    |
| <b>Annex Reports</b>   |   |  |   |                               |
| e.g. Earthquake in Yogyakarta  | Health impacts  | Economic impacts   | Social impacts  | City and community?           |
| e.g. Leptospirosis and Dengue in Jakarta   | Health impacts  | Economic impacts???  | Social impacts???   | Survey (and city?)            |
| Toxic contamination resulting from floods: Rhine? Calcutta tanning, etc.                 | Health impacts  | Economic impacts??   | Social impacts??  | River basin                   |

**List of abbreviations**

|      |   |
|------|---|
| CRED | Center for Research on the Epidemiology of Disaster - Belgium |
| EWG  | Economic working group  |
| HSPH | Hanoi School of Public Health, Vietnam                        |
| HWG  | Health working group  |
| MOH  | Ministry of health  |
| NGOs | Non-governmental organizations                                |
| SWG  | Social working group  |
| TOR  | Terms of references   |
| UoI  | University of Indonesia                                       |
| WP   | Work package  |