



The MICRODIS Project

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Presentation Outline

- Why MICRODIS?
- What is MICRODIS?
- Event and Regional Focus
- Objectives
- Thematic Group Information
- Guidelines
- Outputs
- Project Organisation
- Timeframe
- Partners

Why MICRODIS?

In the past two decades, more than **200 million people** have been affected, on average, every year by extreme events

- Disaster losses are increasing with great consequence to the survival, dignity and livelihoods of individuals and communities, particularly of the poor in developed and less developed countries
- Disaster risk arises when hazards interact with physical, social, economic and environmental vulnerabilities
- International acknowledgement that efforts to reduce disaster risks must be systematically integrated into policies, plans and programmes for sustainable development and poverty reduction

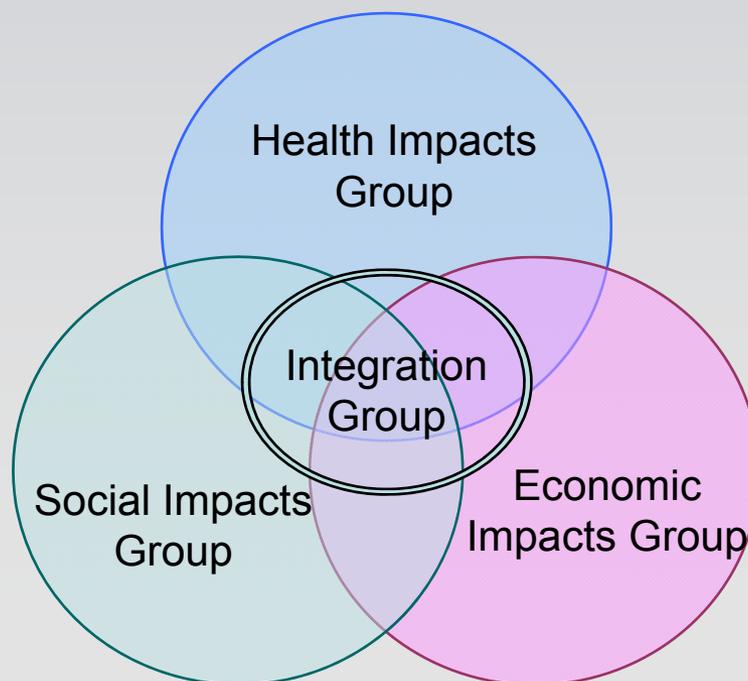
The MICRODIS Project locates itself within this above framework

What is MICRODIS?

A multidisciplinary consortium dedicated to a common goal

MICRODIS focuses on the micro level of disasters.

Health, Social and Economic impacts have been recognized as the key thematic areas in understanding extreme events and their relation to human populations.



Event Focus

In both Asia and Europe, three types of extreme events account for nearly 75% of the occurrence of all extreme events

Floods

Earthquakes

Windstorms

These three types of events will be the focus of the MICRODIS Project

Regional Focus

The **two** regions which form the focus of the proposed work are:

- European Union, associated countries and new accession states
- South and Southeast Asia regions

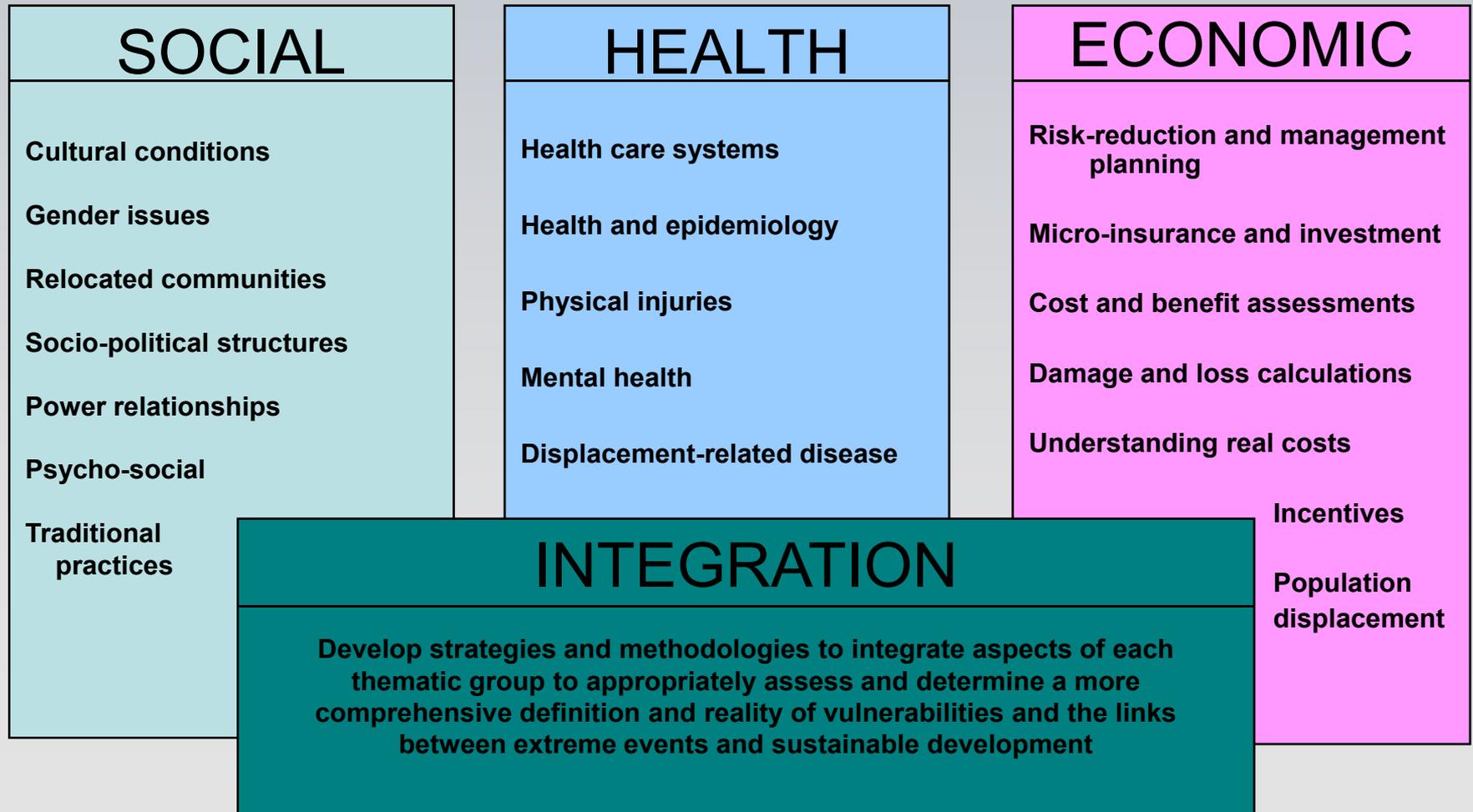
Overall Goal of MICRODIS

To strengthen preparedness, mitigation and prevention strategies in order to reduce the health, social and economic impacts of extreme events on communities

Broad Objectives

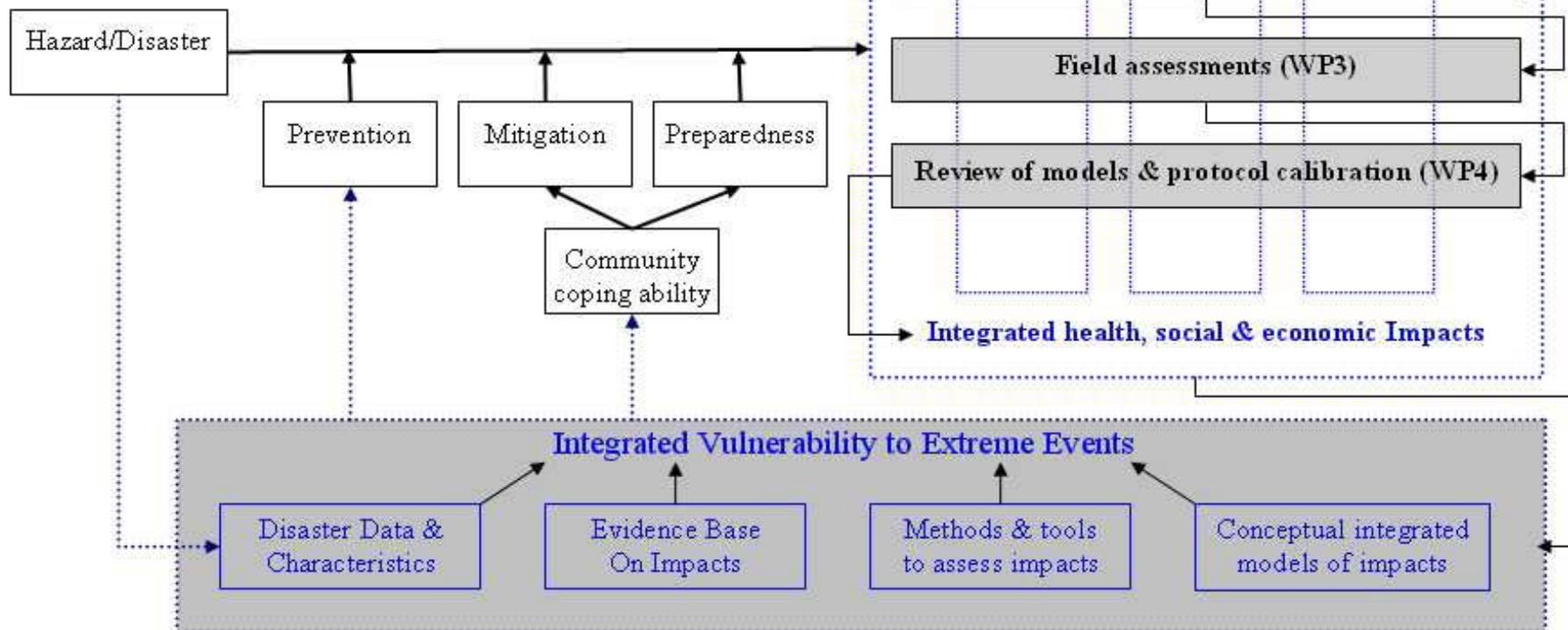
- Improve human resources and coping capacity in Asia and Europe through training and knowledge sharing
- Develop and integrate knowledge, concepts, methods, tools and databases towards a common global approach
- Strengthen the scientific and empirical foundation of the relationship between extreme events and their **health, social and economic impacts**

Areas of Focus



Conceptual Design

MICRODIS CONCEPTUAL DESIGN



Thematic Tasks

Example for Work Period 1 (18 months) – Development of Conceptual Models

HEALTH

Thematic workshop on health impacts of natural disasters

Annotated bibliography and review of prevalence of, and risk-factors for, mortality, injuries, trauma and diseases following extreme events

Report on industrial development in disaster prone areas

Preliminary conceptual model of health components that describe extreme event impact

SOCIAL

Thematic workshop report on the social impacts of natural disasters

Analysis of psycho-social impacts, gender issues and community vulnerability and resilience

Preliminary conceptual model of social components that describe extreme even impact

ECONOMIC

Thematic workshop report on the economic impacts of natural disasters

Literature Review of economic impacts related to extreme events (e.g. households, welfare, migration, health)

Desk study on application of the impact pathway approach to valuation in different economic settings

Review of economic valuation of non-market goods

INTEGRATION

Workshop report on integration of thematic conceptual models

Guidelines

- **Step 1** – Develop conceptual models – in this case in three thematic areas – and then integrate them into an interdisciplinary one
- **Step 2** – Develop prototype assessment methods (referred to as protocols until they are validated with field evidence) in the three thematic areas and then integrating them across themes
- **Step 3** – Test the prototype assessment protocol in multiple sites and generating comparable datasets on disaster impacts
- **Step 4** – Revise the conceptual models and calibrating the field assessment protocols in light of the field evidence
- **Step 5** – Create a database of survey datasets and improving global macro data for broader research use
- **Step 6** – Offer training opportunities and ensuring dissemination and awareness of the project's outputs to the global research community

Outputs

- An evidence-base on impacts, field methodologies and tools for data compilation
- Impact models for each thematic group
- Integrated vulnerability assessments

The MICRODIS Project will also strengthen standardized data collection of extreme events and their impacts at local, regional and global levels.

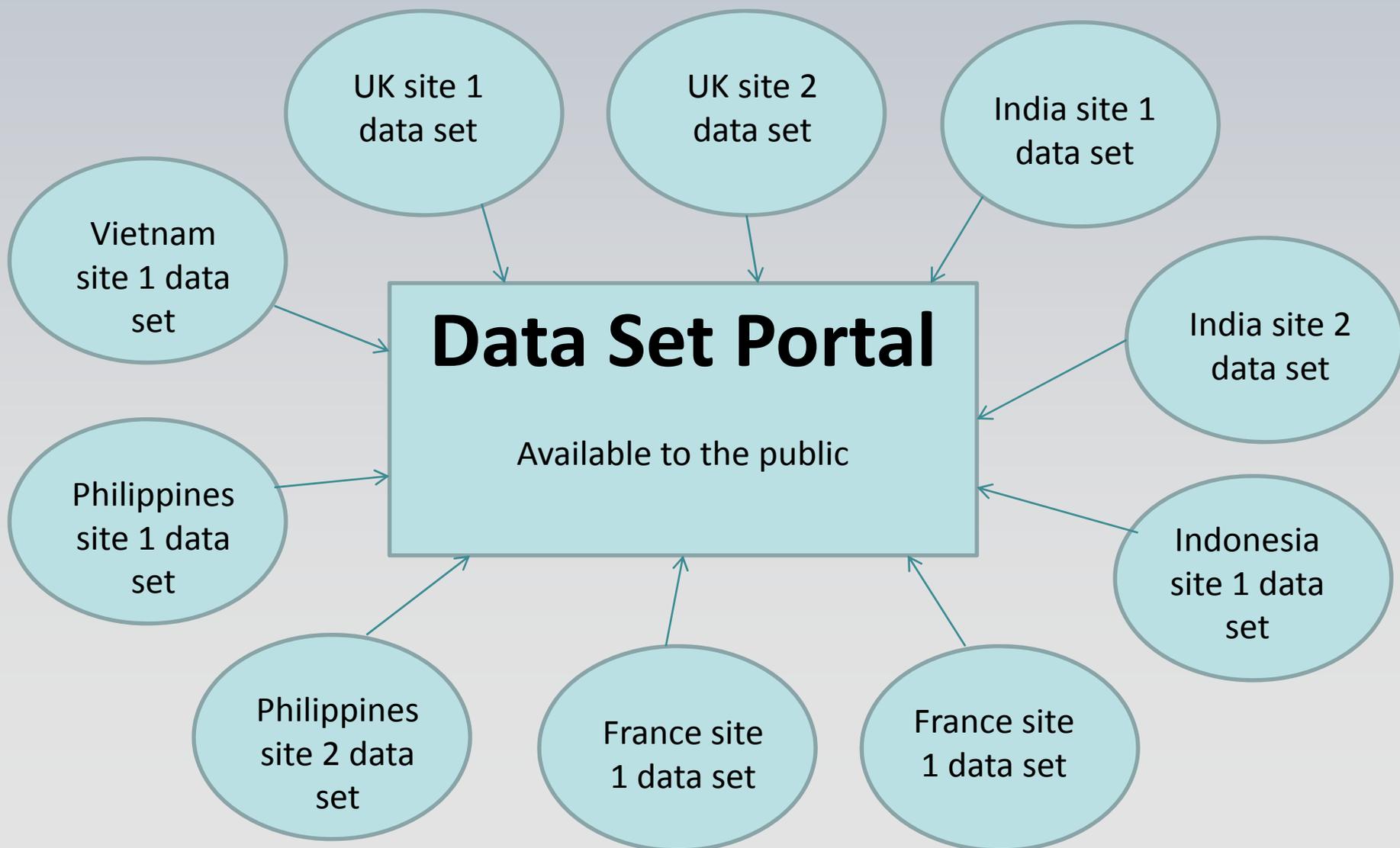
Project Activities and Deliverables

- A project website (www.microdis-eu.be)
- A searchable survey database
- Peer-reviewed journal articles
- Policy briefings
- Meetings with EU officials
- Annual project workshops
- Participation in external conferences and seminars
- Press conferences
- An Asia-EU conference on Health, Social and Economic Impact of Extreme Events
- The publication of a technical series at end of the project

Partners

Partner Name	Partner Country
Université catholique de Louvain	Belgium
University of Greenwich	United Kingdom
University of Northumbria	United Kingdom
Työterveyslaitos Finnish Institute of Occupational Health	Finland
Jadavpur University	India
University of Delhi	India
Hanoi School of Public Health	Vietnam
University of Indonesia	Indonesia
Xavier University	Philippines
United Nations Office for the Coordination of Humanitarian Affairs	U.S.A
EVAPLAN - University of Heidelberg	Germany
Sweco Groner	Norway
Voluntary Health Association India	India
Citizens' Disaster Response Center	Philippines
HealthNet International	Netherlands
Ferurbat	France

Multi-Site Data Sets



MICRODIS Questionnaires

MICRODIS CORE

THEMATIC CORE

Social Core

Health Core

Economic Core

ISSUE IN FOCUS: _____

1. Questions from the **Social Extended** list that apply to the Issue in Focus

2. Other questions that apply to the Issue in Focus that are relevant to the site

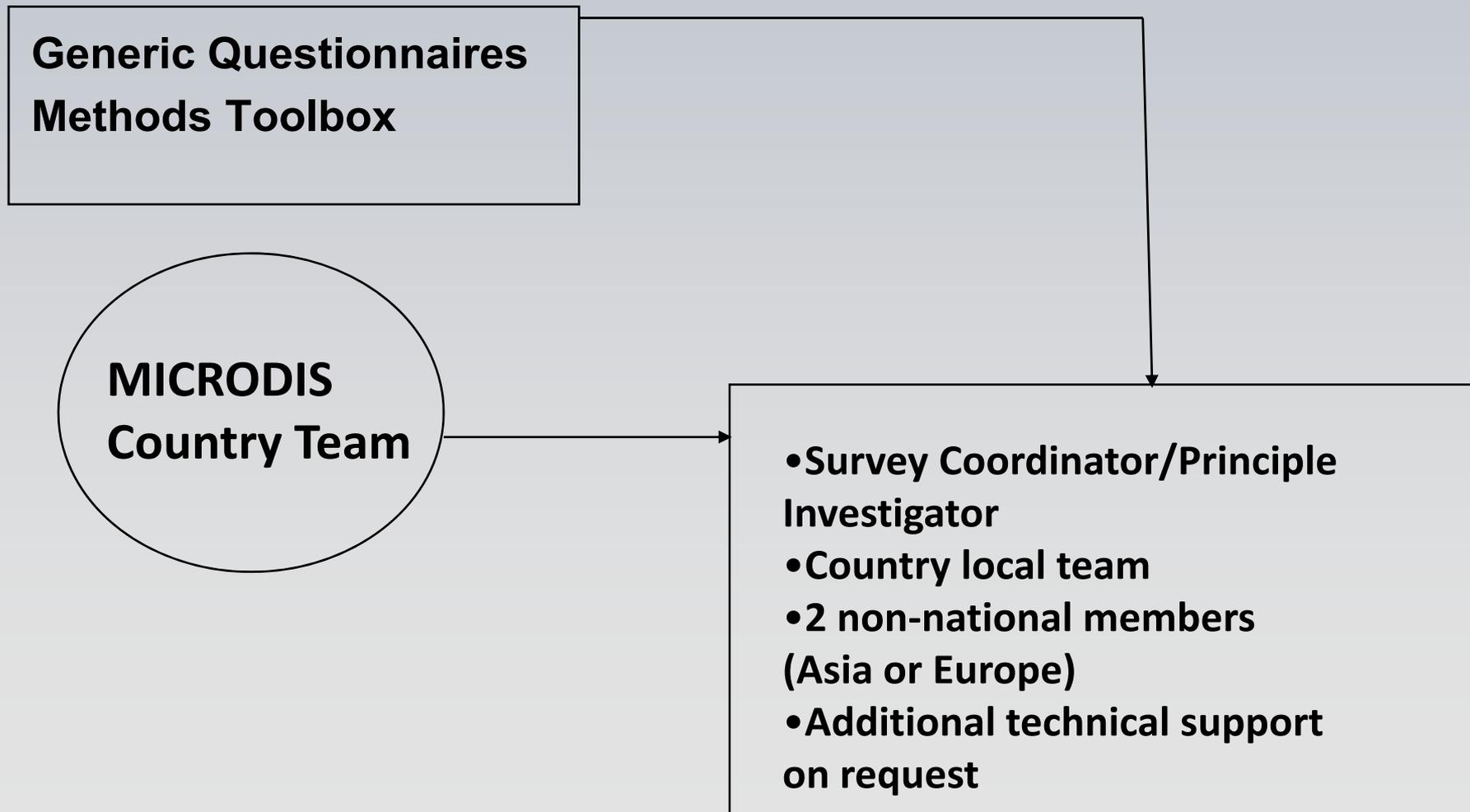
1. Questions from the **Health Extended** list that apply to the Issue in Focus

2. Other questions that apply to the Issue in Focus that are relevant to the site

1. Questions from the **Economic Extended** list that apply to the Issue in Focus

2. Other questions that apply to the Issue in Focus that are relevant to the site

Organisation of Work



Achievements

- **Kick off meeting and first annual meeting**
- Extensive literature reviews for social, health and economic impacts of natural disasters
- **Conceptual models for social, health and economic impacts**
- Promotional materials and website created
- **Lectures and courses given on disaster management and other MICRODIS related topics**
- Draft protocols created for each thematic group
- **Core protocol created for each MICRODIS survey**
- Training Workshop for Survey Coordinators in Hanoi, Vietnam
- **Practical guidelines created for survey teams based on MICRODIS methodologies and procedures**
- APHES summer course 2007
- **Working papers produced**

Up-coming Tasks

- Finalizing assessment protocols
 - Creation of thematic core
 - Defining issues of focus
 - Adapting questionnaires to local contexts
- **Site-specific training of interviewers**
- Pilot studies
- **FIELD WORK IMPLEMENTATION**
- Integrated conceptual model
- **APHES summer course 2008**
- Review of existing disaster-related university courses
- **Lectures and courses**

Timeframe

Project Duration: **36 months**

Project Start: February 1st, 2007

End: January 31st, 2010

Phase 1 – Feb. 1, 2007 - Jul. 30, 2008 (18 months)

Work Package Tasks

- Conceptual Model Development
- Assessment Methods and Field Protocol
- Kickoff (Brussels) and Annual Meetings (Delhi)
- Disaster Management
- Promotion, Training and Dissemination

Phase 2 – Aug. 1, 2008 - Jan. 31, 2010 (18 months)

Work Package Tasks

- Empirical Surveys to Assess Impacts
- Concepts and Calibration
- Annual and Integration Meetings
- Disaster Management
- Promotion, Training and Dissemination

Thank You for Your Attention!

www.microdis-eu.be