MICRODIS FIELD STUDY: Hanoi, Vietnam

LEAD INSTITUTION: Hanoi School of Public Health
PARTNER INSTITUTION(S): Hue University

WHERE?
- Hanoi: Capital City of Vietnam
- Population: 6.3 million
- Total area: 330.6 km²
- 8 inner & 3 suburban districts: Hoan Kiem, Thanh Xuan, Hanoi, Dong Da, Long Bien, Hai Phong, Phu My Hung, and 4 communes of Long Bien District

WHEN AND WHY?
- Nearly flooded: 30/10/08 – 7/11/08 (some areas flooded for 3 months)
- Why?
  - Very heavy rain started at evening 30/10/08 to 2/11/08, up to 81.7 mm
  - Rain was heavier and longer than reported in weather forecast

WHERE AND WHY? (Cont.)
- Reduced areas of dyke, natural lakes, increased pavement and concreted areas.
- Rapidly increased population: 40 times in last 100 years
- Drainage system is not much improved.
- Rapid urbanization without appropriate planning...

FLOODED AREAS IN HANOI REPORTED ON 7TH NOV. 2008

ESTIMATED LOSSES
- Number of deaths reported: 19 (6 school children drowned in water drainage system)
- Number of injured reported: 3
- Economic loss: estimated at least US$200 million
- 750 points (measured locally, average depth: 0.32.1m)
- Increased number of dengue fever, skin diseases and diarrhea cases reported at hospitals
- Anticipated long-term impacts on the economic, social, environmental, and health

ENVIRONMENTAL HEALTH ISSUES

WASTE MANAGEMENT & RECYCLING
- Waste disposal area
- Hazardous waste
- Food hygiene

MICRODIS STUDY IMPLEMENTED BY MICRODIS TEAM AT HANOI SCHOOL OF PUBLIC HEALTH

HEALTH, SOCIAL, ECONOMIC IMPACTS OF THIS HISTORIC FLOOD?

STUDY’S PROGRESS TO DATE
- Survey instruments were adapted from MICRODIS tools
- Pilot study was implemented
- Household survey and qualitative study were implemented in 2 most severely affected districts: Chuong My (suburban) and Hoang Mai (urban), 5 affected & 5 non-affected communes (district per district).
- Next steps: data entry, analysis, writing up report & publications

RESPONSES TO EMERGENCY
- Efforts from related sectors
- Risk communication activities
- Delayed and not well coordinated responses
- Loss of trust in authorities
- People feeling unsecured and isolated

MICRODIS TEAM