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## Linking Population Health & Hydrological Extremes: Improving Quantitative Assessments of Health Damages through a Systems Approach

### Drought, Migration, & Health

- Drought and water stress is

anticipated to lead to internal migration

- Migration will lead to demographic shifts in urban areas in low-and middle-income countries



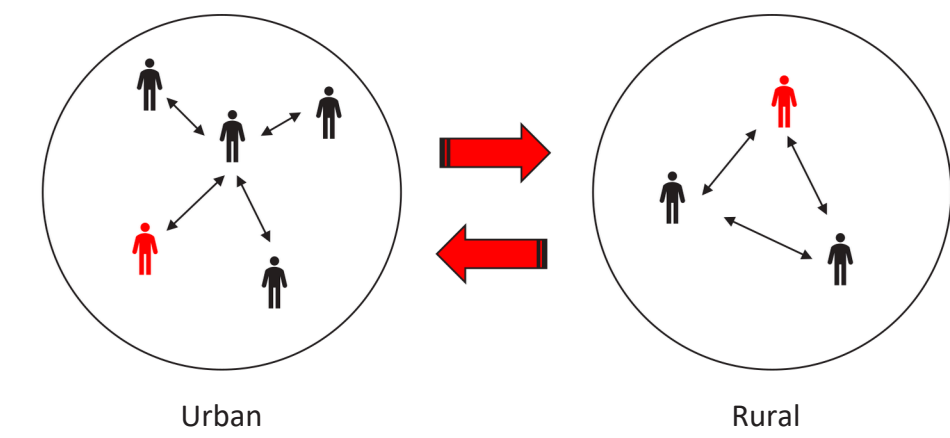
Source: EU/ECHO/Martin Karimi

### Demographic Changes & Infectious Diseases

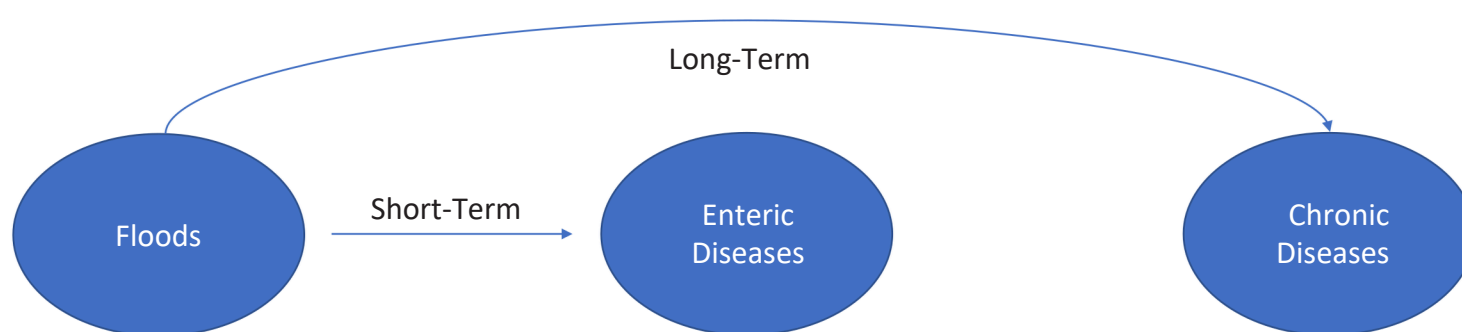
- Changing population

densities and structures can affect transmission of endemic diseases

- We will estimate how shifts in population due to climate migration will alter the burden of enteric and respiratory endemic infectious diseases



### Floods & Health



### Health System Impact of Floods

- Floods are a common extreme weather event. They have been linked

to:

- Injuries & Poisonings
- Diarrheal Diseases
- Cardiovascular Diseases
- Mental Health Disorders

- The impact of floods has largely focused on economic and housing damages but we aim to estimate health damages to better capture the devastating effects of floods and motivate flood resilience activities.