

***Linking Poverty Reduction and Water  
Management-Reaching the MDGs Through  
Investing in Water***

Reducing Health Risks for the poor through  
improved groundwater monitoring in the Riviera  
Maya, Mexico

Luis E. Marin

Mexican National University

Water and poverty in the Yucatan

Triologue

Groundwater monitoring system

Joint Venture

Xel-Ha and UNAM

Engineers without borders

## Water in the Yucatan

**Groundwater is only source of water**

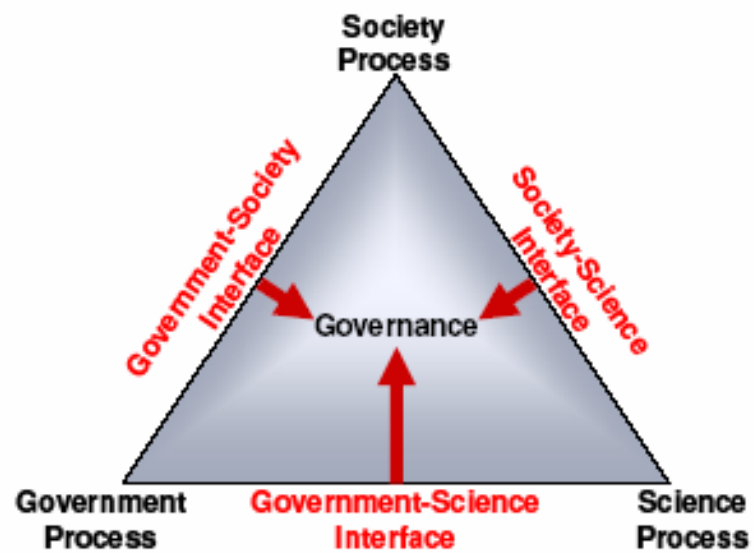
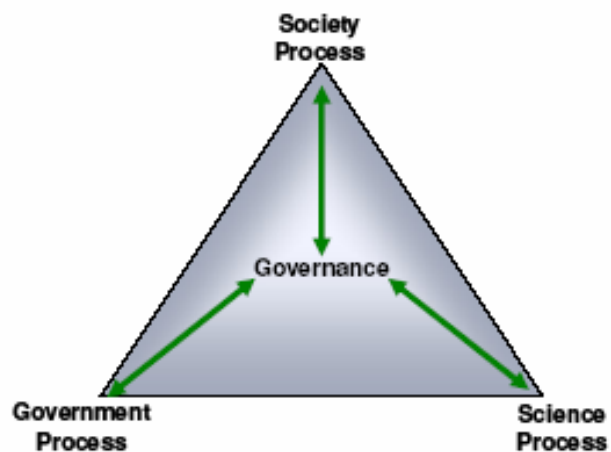
**Highly vulnerable aquifer**

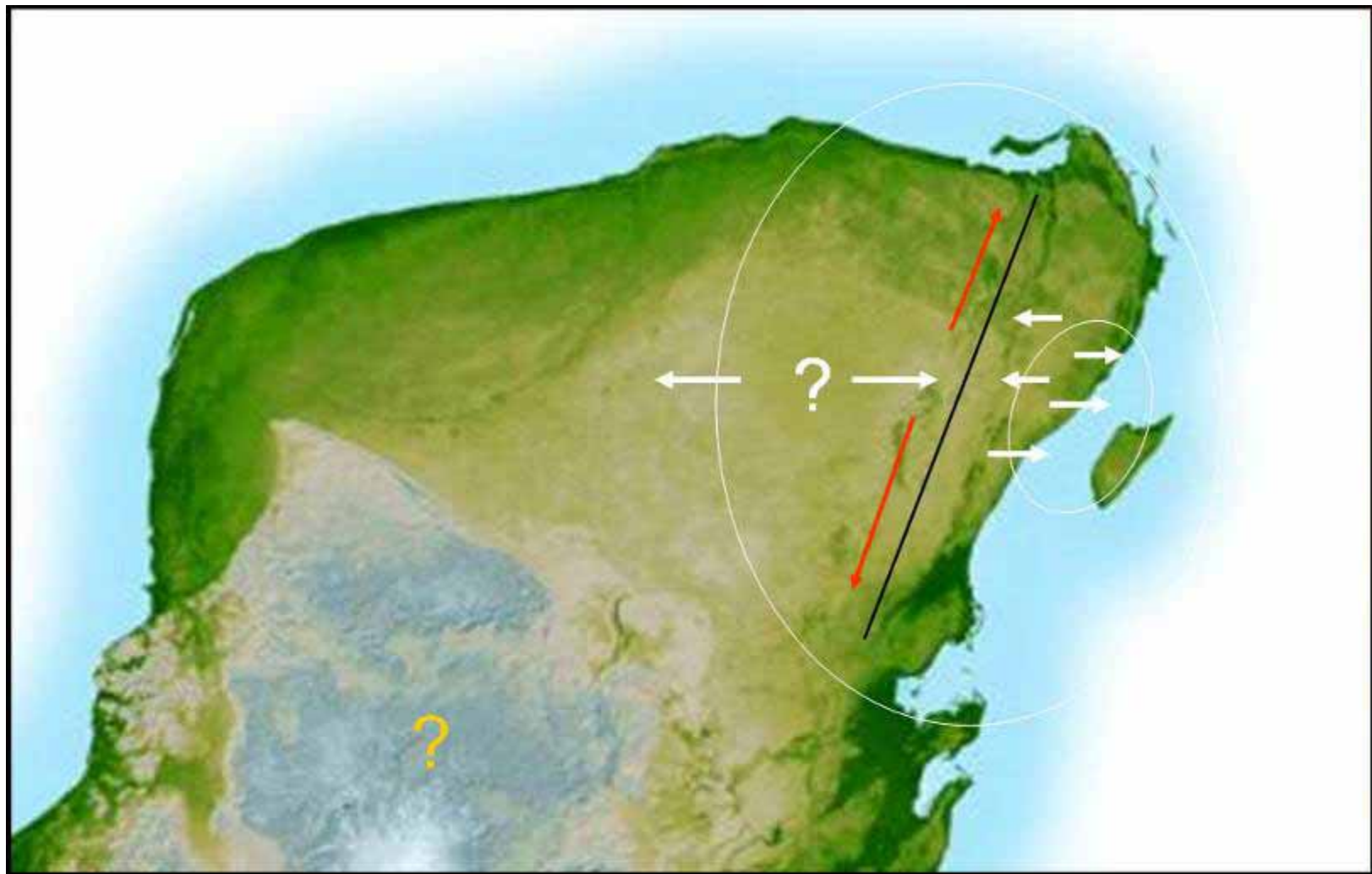
**More than 60% of deaths of children under 5 years old are due to pathogens transported by groundwater**



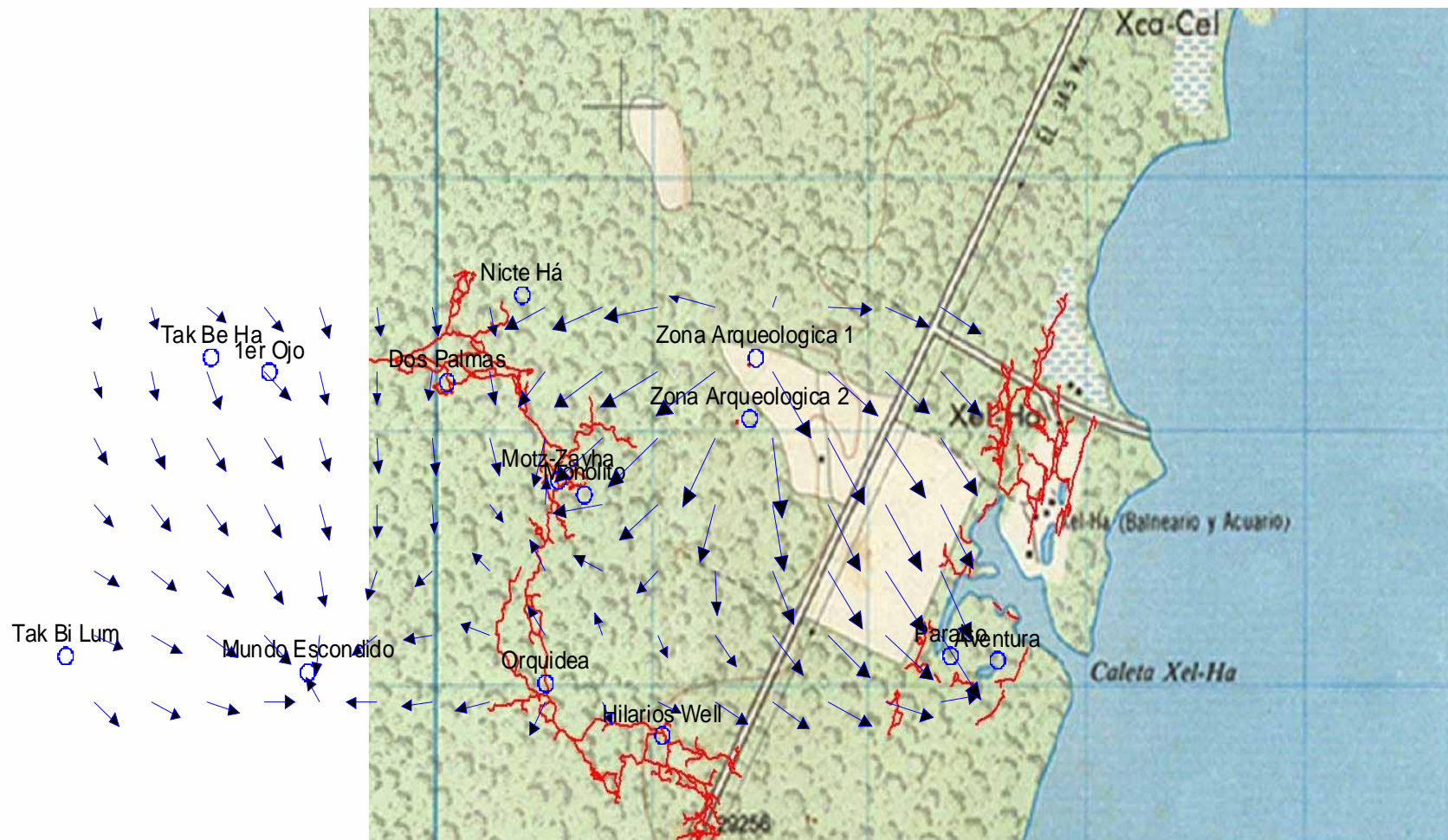
## Hydrogeology of Yucatan







# Groundwater flow directions



- **Treating waste waters**
- **Solid waste (collection and storage)**
  
- **Engineers without borders**
  - **Water supply**
  - **Sanitation**
  
- **University of Wisconsin-Madison's student chapter**
  - **Mexican National University**

Luis E. Marín

[Imarin@geofisica.unam.mx](mailto:Imarin@geofisica.unam.mx)

Geophysics Institute, Mexican National  
University