

# FMIS Development Framework

**FMIS1**  
**Flood hazard  
characterization &  
emergency Response**

**FMIS 2**  
**Improved flood  
forecasting and  
early spatial  
warning**

**FMIS 3**  
**Flood hazard  
mitigation**

**FMIS4**  
**Flood management  
planning**

## Key Performance Outcomes

- Strengthening Flood Knowledge Base and Analysis
- Dissemination and Outreach (information products, website, institutional mechanisms, public news media, cell phone, etc)
- Improvement of short-term flood preparedness (updated flood manual, community participation)
- Planning improved observation network and telemetry
- Improved flood forecasts and inundation modeling with better models and improved rainfall forecast

- Improved flood forecasts and inundation modeling with improved hydrologic database, better models and improved rainfall forecast
- Early warning with improved topographic database (close contour survey of flood plain, and micro relief), models for over bank flow and embankment breach, multi-modal communication links
- Airborne SAR surveys for real-time data collection and integration
- Improved information systems

- Risk and vulnerability assessment
- Improved flood management, by expanded geographical coverage, scope, detail, and real time data collection and dissemination
- Improved preparedness, with very large scale databases, and targeted communication

- Support to improved drainage & flood management planning, and improved irrigation management