Rapid hydrological appraisal -- step 2

**RHA as method**

- Watershed functions may well be the most realistic basis for forest derived Env services (E S)
- Three types of knowledge on Watershed function:
  - **Local ecological knowledge (LEK)**
  - **Public/policy ecological knowledge (PEK)**
  - **Hydrologists ecological knowledge (HEK)**

**Why rapid?**

- Targeted at the scoping stage
- Time availability (6 months)
- Affordable - setting assessment cost (will be part of transaction costs for any rewards agreement) : $5-10,000 as target

- Stakeholder analysis within physical river basin
  - Climate, land form, soils, natural vegetation
  - Land & water users and all actors who influence vegetation, soil, drainage, water volume, timing & quality

- Participatory landscape analysis
  - Forest, Landscape, Water, River flow & water quality
  - Key informants, Facilitator trained in ‘leading a landscape’ Base map
  - Hot-spots for problem causation
  - Existing pattern of land use interpreted: who, where, why?
  - Examples of ‘fits & good practice’
  - Location-specific analysis of ‘problems and solutions’

- Public/policy ecological knowledge (PEK)
  - Hydro-ecological knowledge
  - Government officials
  - Downstream stakeholders
  - Urban/general public

- Hydrologist’s ecological knowledge (HEK)
  - Mean monthly water yield
  - Land covenants and use, River network, Rainfall, soil type & depth, Riverflow data, Existing reservoirs & operating rules
  - Land use change scenario Analysis of drivers for scenarios

**Integrated Process** Process research of watershed management options can take many years and requires large budgets..."