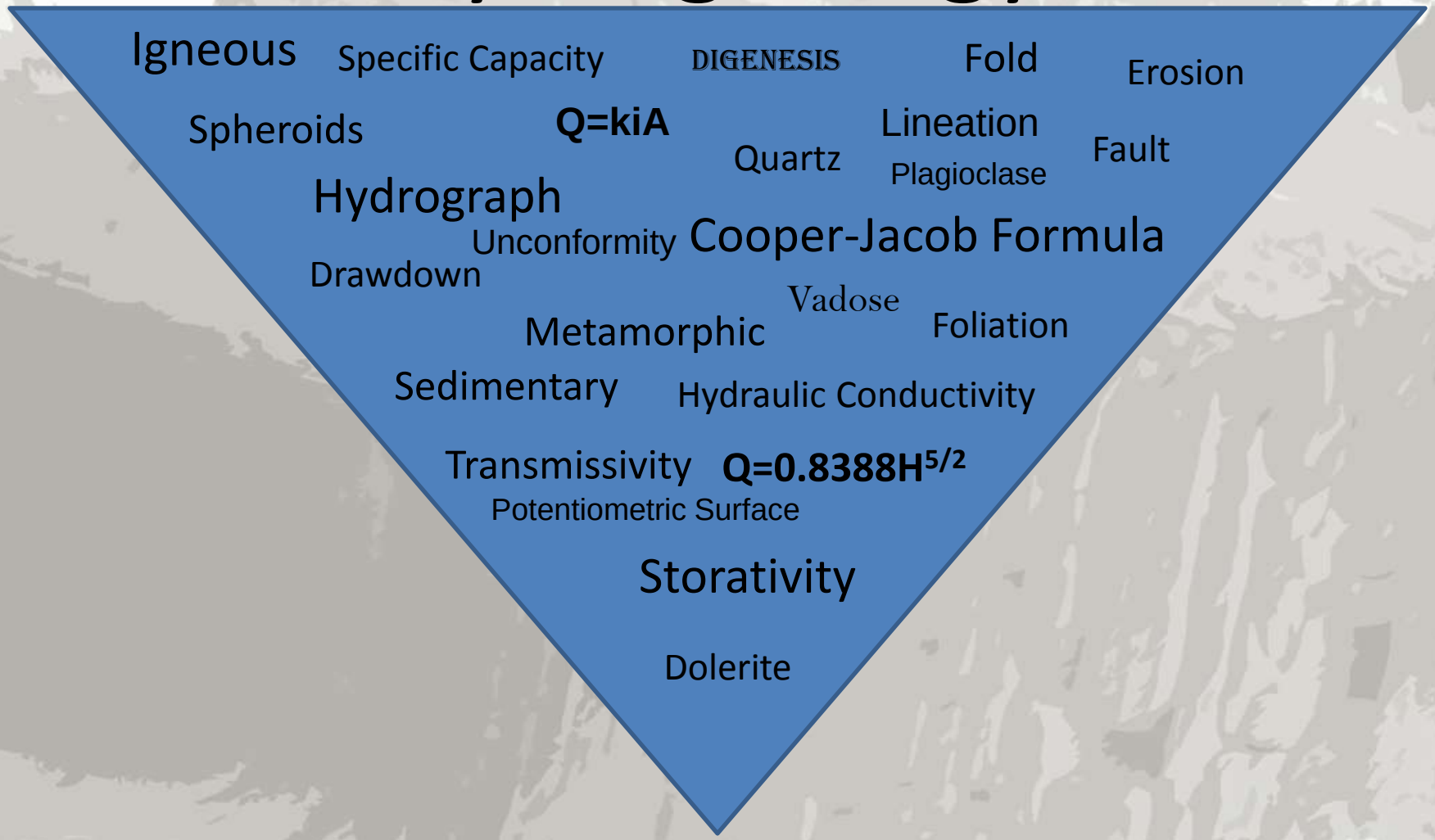
Concept of Para-hydrogeologists

Hydrogeology



Groundwater Science

Who are the Participants?

- Leaders?
- Government?
- Scientists?
- Common People?

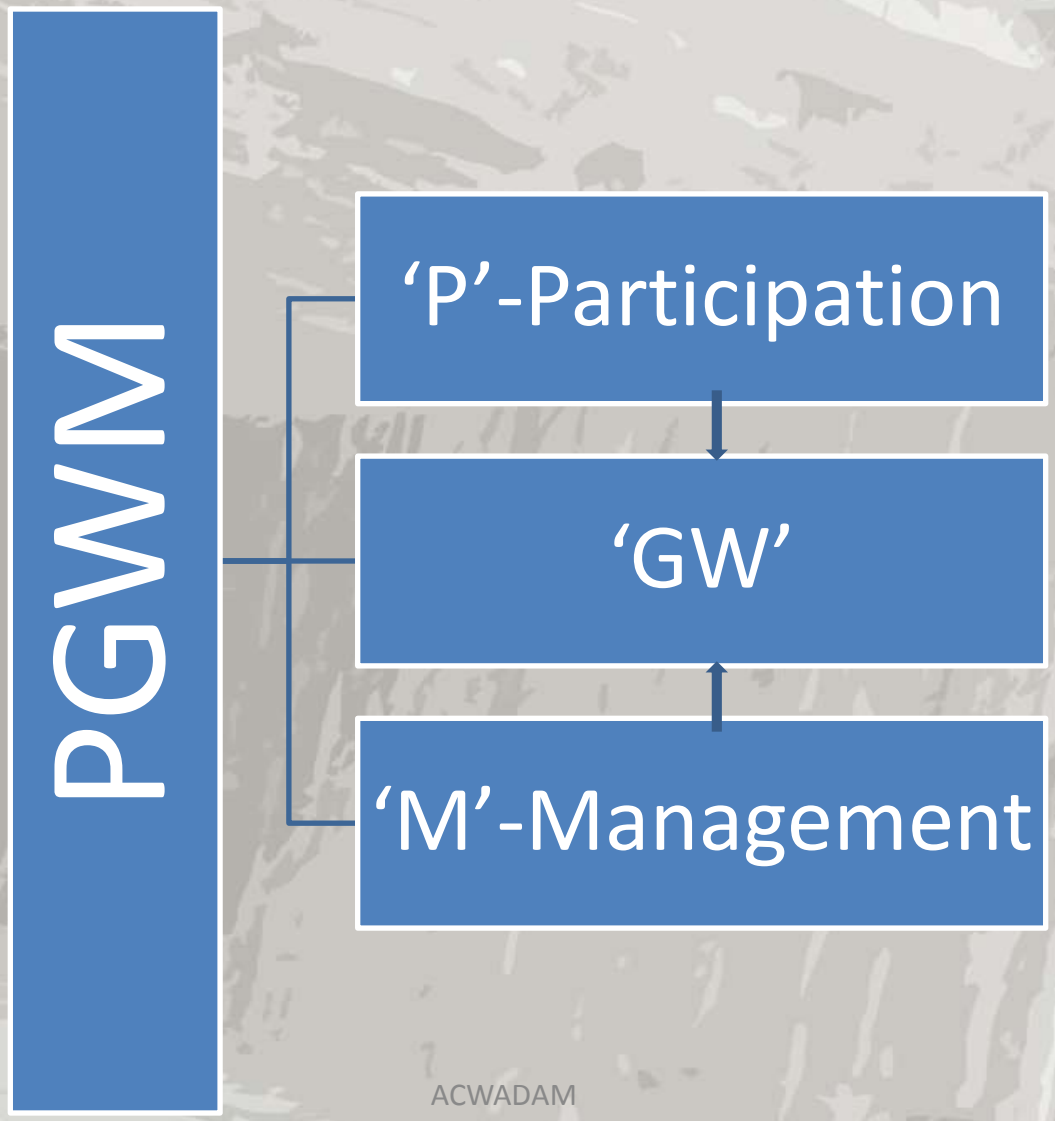
Who will Manage?

- Private Ltd Company?
- Government?
- NGO?
- Local Body?

Cumulative Contribution

‘Para-Worker’

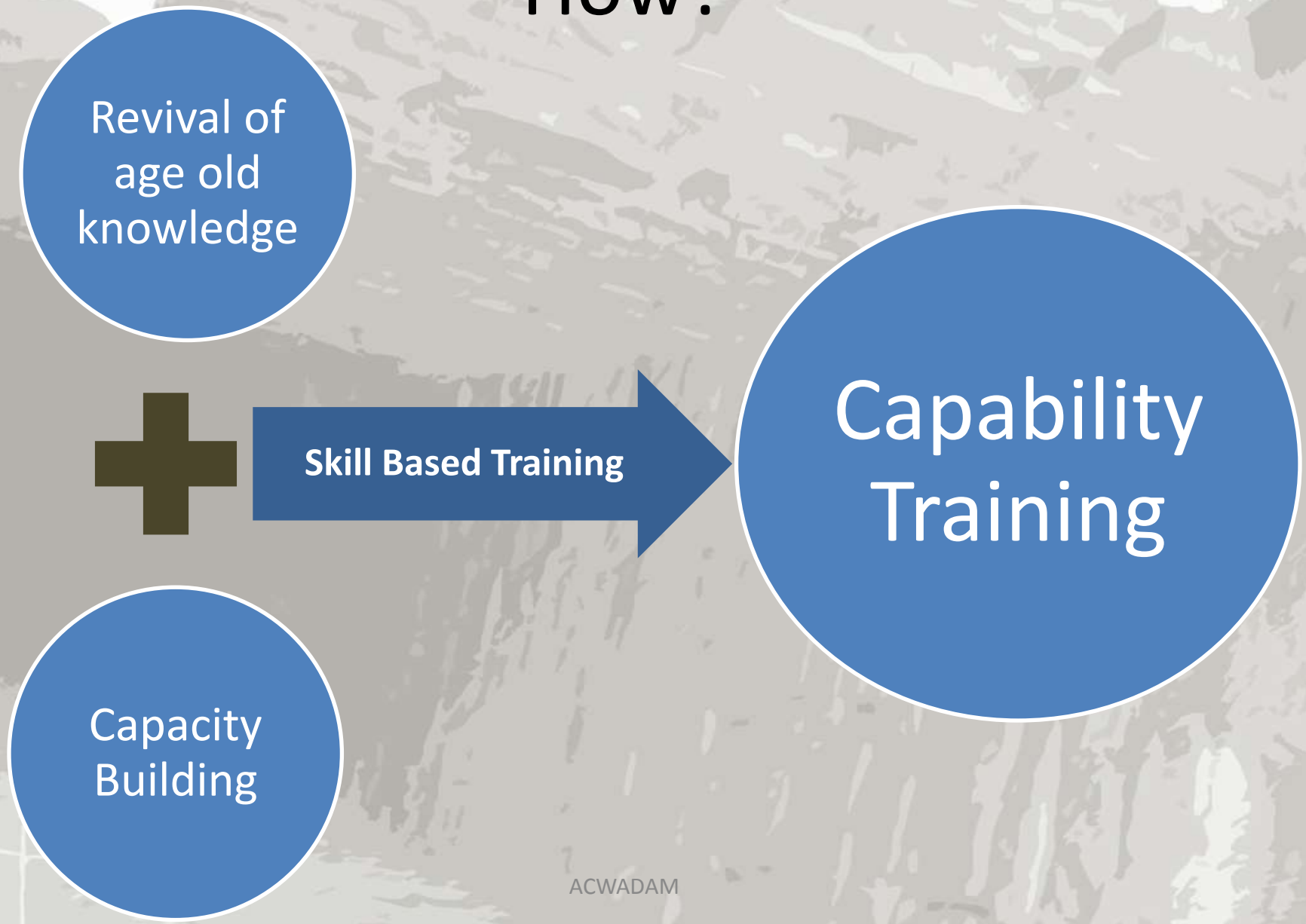
Concept

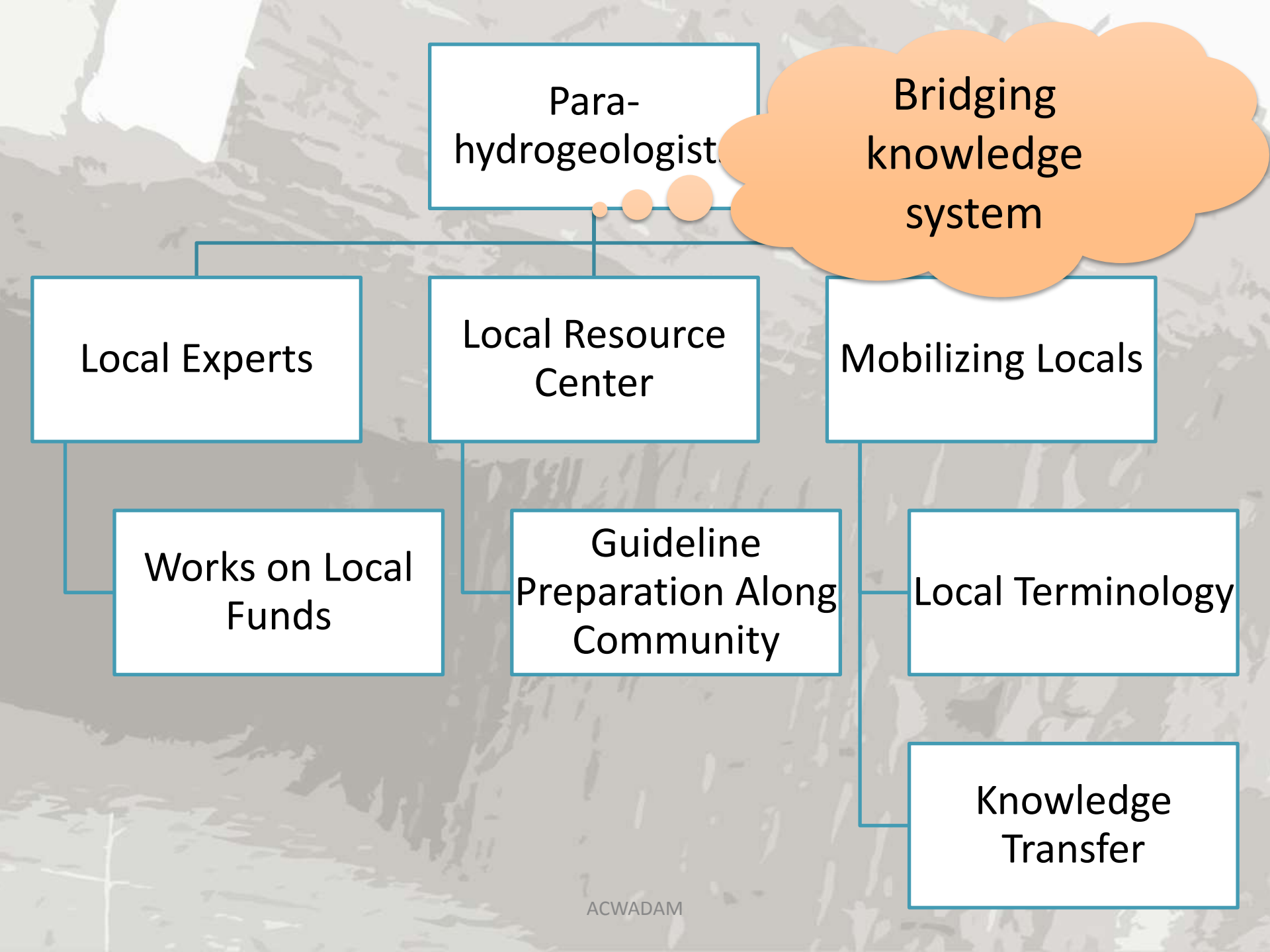


Who are Para-Workers?

- Local experts skilled in various fields
- Examples: Hakims, Vaidya (traditional Doctors), Panke (traditional Hydrologists),….
- Principle based grass root level work
- Dedication towards conserving own water resources.
- Local leaders capable of creating strong people’s movement towards water sustainability.

How?


Revival of age old knowledge
Skill Based Training
Capability Training
Capacity Building


Para-hydrogeologist
Bridging knowledge system
Local Experts
Local Resource Center
Mobilizing Locals
Works on Local Funds
Guideline Preparation Along Community
Local Terminology
Knowledge Transfer

Science & Society

- Connect with local expert
- Building confidence
- Use of Local Terminology
- Demystification of Science

Science & Society

- Knowledge transfer skills
- Bridge between technology and society
- Building local institute to guide and set up guidelines
- Sustenance (Resources, Programme, Learning)

Need of Para-Worker

- Lack of Enough Experts working at a grass root level
- Incision of science at grass root level
- Creating a strong movement towards self water sustainability
- Promotion of other eco-friendly structures
- Other than water issue can deal with other environmental issues

Need of Para-Worker

- Creating a Participatory Research Methodology
- Participatory Planning
- Acceptance by society

Training

- Para-worker selection criteria
- Approach towards trainees
- Process of Training
- Data Generation and Data Management

Basic

- Water Cycle
- Well Inventory
- Identification of major Rock Types
- Understanding of Groundwater and Groundwater in Rocks
- Aquifers

Advanced

- Understanding of Rock formation processes
- Aquifers and its Characterstics
- Water level and water table
- Water Table Contour
- Watershed and Aquifers
- Water Quality
- Water Budgeting

Region Specific

- Identification of Rock type and rock setting
- Identification of local Aquifer
- Geomorphology
- Identification of local groundwater resource and its storage
- Identification of Recharge and Discharge Zone
- Preparation of Section / Layouts, Thematic Maps

Data

- Types of data to be collected
- Methods of Data collection
- Data management
- Data sharing

Gaps

- Source of financial independence?
- Extent of the role?
- Is it really sustainable?

Requirement for Self Sustainability

Finance

Acceptance in the Long run

Support → Independence ← Source

Foundation of Ethics and Morals


Connect with local expert
Mobilizing Locals
ACWADAM

Achievable???

Image Source: Earth Vision 2010