

# SUSTAINABILITY ISSUES IN COMMUNITY-BASED WATER AND SANITATION SYSTEMS



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[www.akdn.org/akpbs.html](http://www.akdn.org/akpbs.html)

# WHY WATER AND SANITATION SYSTEMS FAIL?

- Intra-Communal Issues
- External Factors



## WHY WATER AND SANITATION SYSTEMS FAIL?

### ■ Intra-Communal Issues:

- Lack of interest/motivation during planning and construction
- Lack of sustainable management
- Lack of basic know-how
- Lack of O&M funds
- Internal conflicts



## WHY WATER AND SANITATION SYSTEMS FAIL?

- External Factors:
  - Poor Design and/or Implementation
  - Poor-quality material
  - Lack of technical expertise
  - Inadequate O&M setup
  - Lack of funds



## SUSTAINABILITY - AT COMMUNITY LEVEL

- Conduct a series of Meetings and Dialogues - Pre-select
- Inform about Community's responsibility:
  - Prior O&M deposits
  - W&S committee
  - Community's share during construction
  - Tariffs, and maintenance of spare parts stock

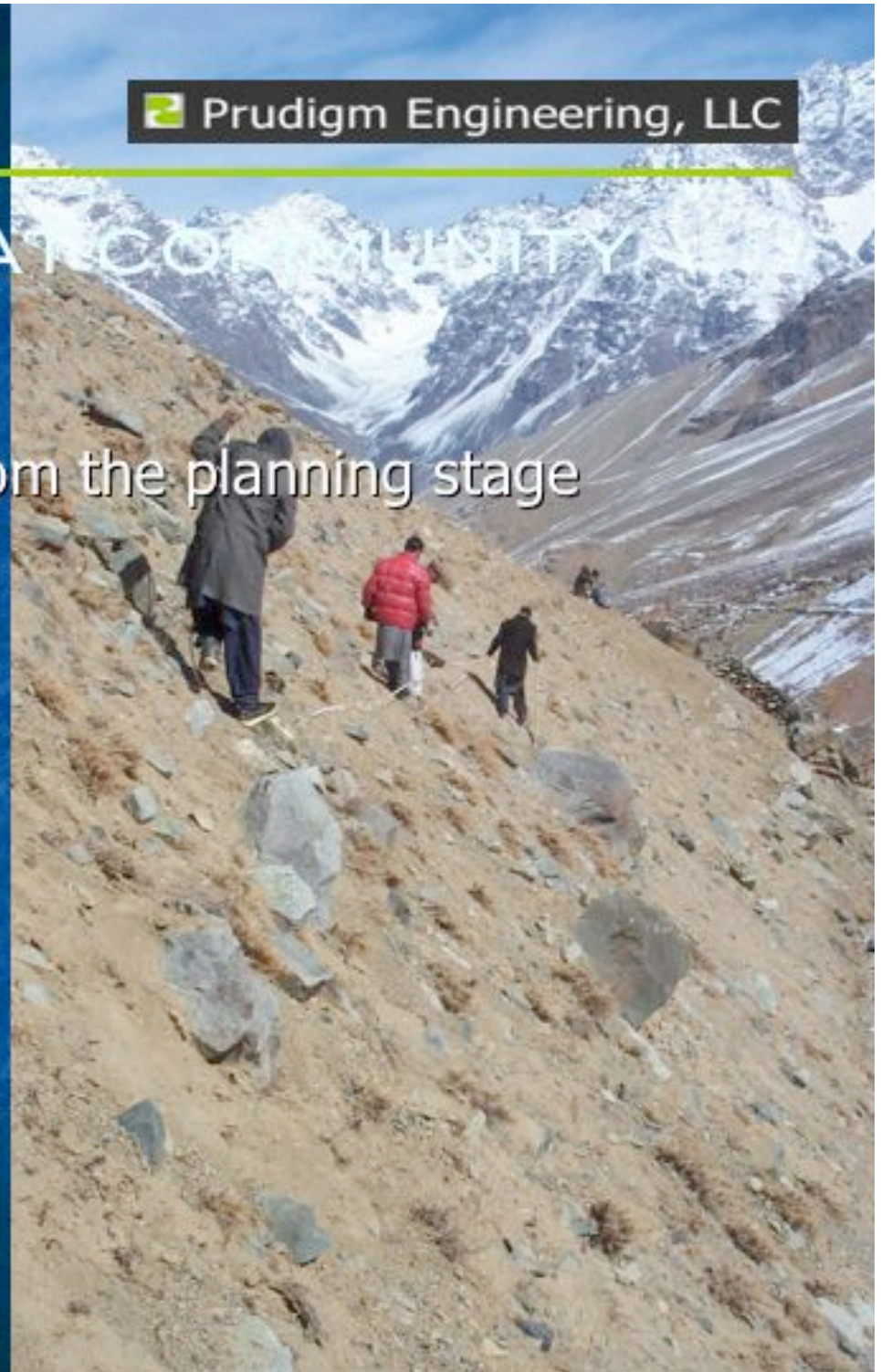


## SUSTAINABILITY - AT COMMUNITY LEVEL

- W&S Operator and H&H Worker have to be trained and be paid
- Tariffs are for the O&M of pipes and not for the water source!
- Individual spare parts are not free - sell and replenish
- Sanitation and Health & Hygiene Education is important!!

## SUSTAINABILITY - A COMMUNITY LEVEL

- Involve Community right from the planning stage



## SUSTAINABILITY - EXTERNAL FACTORS

- Be an engineer first, not a social scientist
- Spend considerable time in planning and design
- Do not just give out pipes and fittings to the community
- Supervise, supervise and supervise the work!





## SUSTAINABILITY - EXTERNAL FACTORS

- Provide better quality material, avoid high maintenance equipment such as pumps!
- Train the Committee - W&S Operator, H&H worker, and Treasurer
- Provide Spares - a must!
- Facilitate W&S Committee in setting up O&M funds
- Provide As-built Documents to Community



## SUSTAINABILITY - GENERAL

- Learn from past projects (M&E)
- Share Expertise with Local Govt and other Agencies



QUESTIONS?

THANK YOU