

Community Engagement in the Management and Ownership of Rural Drinking Water Supply

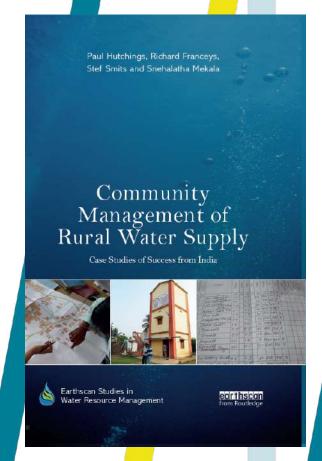
Richard Franceys Ruchika Shiva February 2023













Why Community Engagement?

- Better chance of sustainability: effectiveness of outcomes over time
- At *(possibly)* lower overall cost
 - Local involvement can find local solutions
 - Higher cost recovery, where needed
 - Volunteer labour can be cheaper
- Community Management+ Research:
 - What level of support is needed, both institutional and financial?
 - Whilst ensuring the benefits of 'community



CM+ Research Methodology

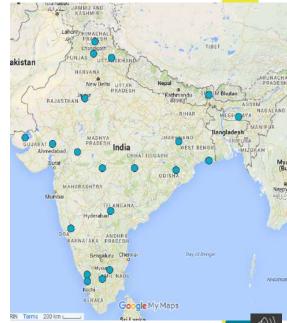
The findings reported are based on the results of 20 detailed case studies of 'successful' community managed rural water supply systems across 17 States.

This range covered low, middle and high-income States, enterprise focused and social development focused States, and the wide range of hydrogeological conditions.

The research approach required surveys with <u>30</u> households in each of <u>3 'successful villages'</u> plus a <u>'control' village</u> (2,355 household surveys).

And we investigated the role and resources of the community water service provider and the 'enabling support entities' through key informant interviews (272), focus groups (130) and document analysis.

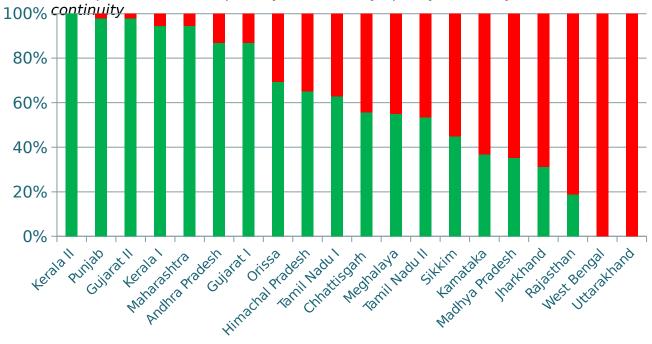


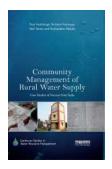


Service levels

Reported via household survey(n \approx 90 for each case study)

A composite indicator: quantity, accessibility, quality, reliability &







Communities can and do manage!

 The reality of successful schemes reported to the researchers was that almost all were piped schemes, many with an increasing emphasis on <u>piped</u> <u>supplies to individual households</u>.

 The research found that this has changed the <u>psychology</u>, <u>as well as the</u> <u>technology</u>, <u>of sustainability</u> in that pipe networks and overhead reservoirs are inherently robust and long-lived (relative to handpumps).

 And communities, appreciating better piped services, <u>when empowered</u> are good at reporting, and expecting the



Communities can and do manage!

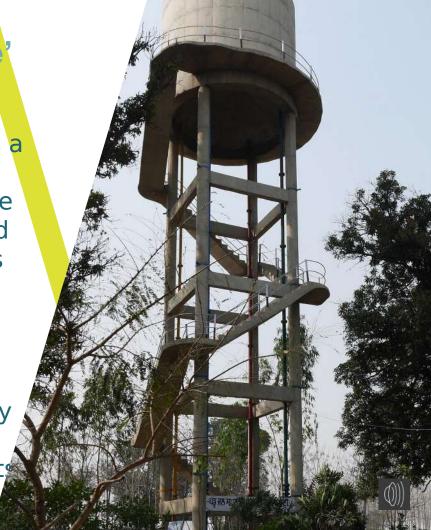
- And when the critical pump infrastructure fails, and the whole community is without theirconvenient household water for a period, then solutions for repair or repurchase are quickly found.
- A very different situation from the past when a handpump failed and users were expected to carry on walking to a further away pump or back to a stream with little apparent societal incentive to repair, resulting in the approx. 30% of handpumps always being out of action.



'Communities will pay a little'

 Successful community management is a function of delivering services that householders (really) want. The change to piped, and now individual household piped service, appears to lead towards a <u>stronger willingness to pay</u> for those services.

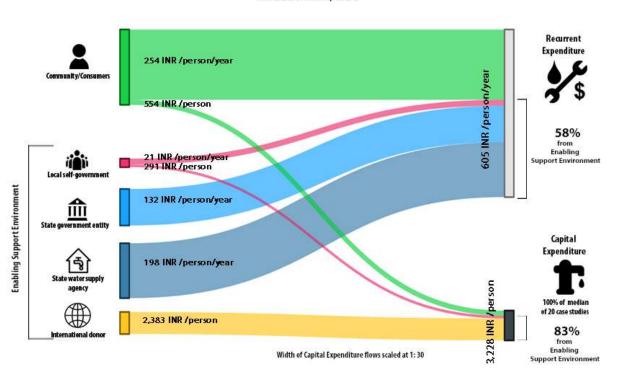
as it is in urban water supply.

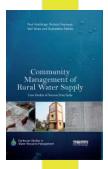


The financial research ('Sankey diagrams')

Financial Flows - Rural Water Supply

Kerala Nenmeni, India







Capital Expenditure

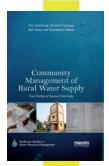
	CapEx Hardware Support	CapEx Software Support	CapEx Community
Mean (%)	84%	11%	5%
Interquartile range (IQR)	99%-87%	1%-7%	0%-7%

Operational Expenditure and Support

	OpEx direct support	OpEx enabling support	OpEx community
Mean (%)	26%	21%	53%
IQR	1%-30%	6%-18%	52%-93%

Capital Maintenance Expenditure

	CapManEx support hardware	CapManEx support softwa	re	CapManEx community
Mean (%)	82%	3%	1	15%
IQR	79%-89%	0%-0%	1	11%-21%





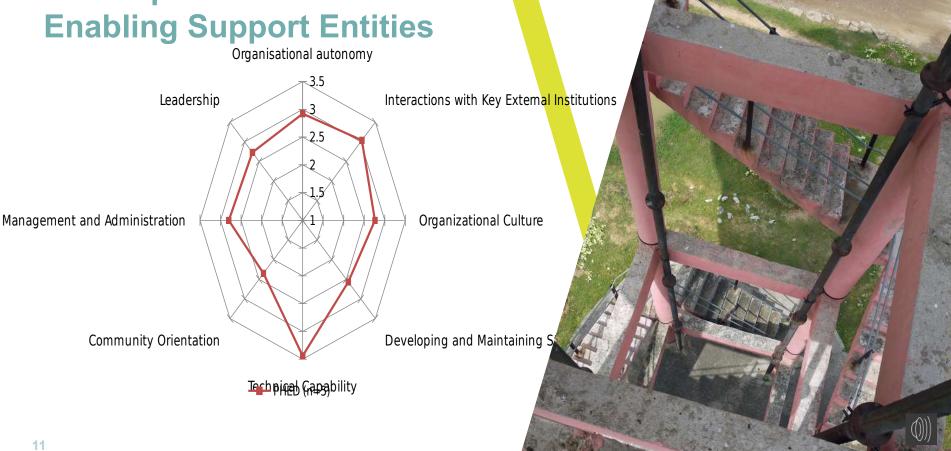
How do communities manage?

- Two main approaches are apparent:
- the Village Water and Sanitation Committee managing as a subcommittee of the Gram Panchayat where the Chair, Secretary & Treasurer of the council duplicate these roles;
- and secondly where the subcommittee is given autonomous status under <u>'The Societies Act'</u>.
- In this setting the role of the convincing leader (often an engineer) becomes more important.

Both of these only being successful in

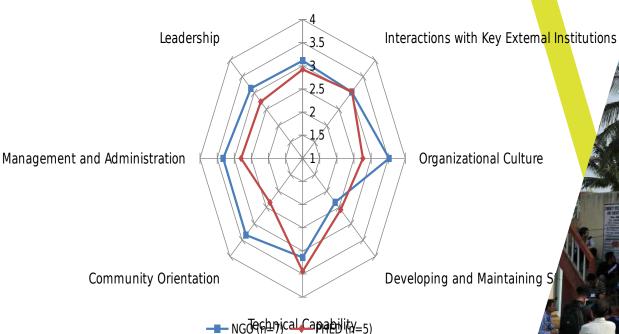


The requirement for effective



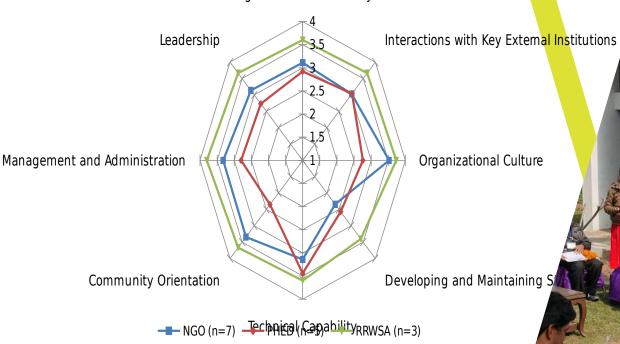
The requirement for effective Enabling Support Entities

Organisational autonomy



The requirement for effective Enabling Support Entities

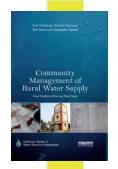
Organisational autonomy





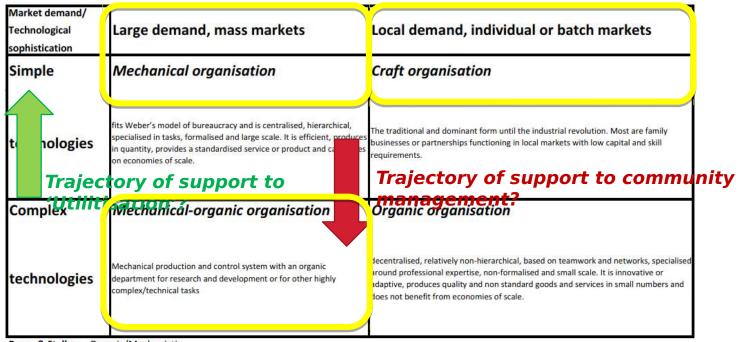
Enabling Support Environment

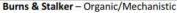
- These results suggest that policy-makers have correctly 'gone big' in terms the level of piped service now to be delivered, but also need to think big with respect to both the initial, and ongoing, commitment to community sensitisation and empowerment. 10% of CapEx, 20% OpEx in our survey.
- But, the research also shows that where hydro-geological & increasing demand conditions do not allow for borehole delivery to a SVS piped network then a government entity will be required to manage a bulk treated surface water supply.
- Communities remain involved, quite capable (better?) at <u>acting as village level retailers</u> of the government





Trajectories of development for successful Enabling Support Entities







Conclusion

KEY MESSAGES

- 'Communities manage!'
- 'Communities will pay

a little'

 'Communities need ongoing support'

To sponsors:

- 'Go big or go home!'
- 'If you built it, you own it'

Should we stop talking of community management in India? And move towards a discourse of "co-production" that more accurately clarifies the shared contribution of government/external agencies and communities - particularly as groundwater resources are substituted by cross-panchayat boundary treated surface water sources which demand increasing technical professionalism

National Research Steering Committee Chair: Mr. Sujoy Mojumdar; Administrative Staff College of India, Hyderabad, Telangana Professor Srinivas Chary, Ms Shaili Jasthi, Ms Swapna Uddaraju; Centre of Excellence for Change, Chennai, Tamil Nadu Dr Rema Saraswathy, Dr Rammohan Rao, Mr Raviprakash Madhudi with M S Vaidyanathan; Malaviya National Institute of Technology, Jaipur, Rajasthan; Dr Urmila Brighu and Mr Rajesh Poonia; Xavier Institute of Social Service, Ranchi, Jharkhand Mr Prakash Dash and Mr Pramil Panda; IRC, The Netherlands Ms Ruchika Shiva and Mr Depinder Kapur, Stef Smits; Cranfield University, **UK** Dr Richard Franceys, Dr Paul Hutchings

