



How Geospatial Data Makes Voices Heard in China

Qiqi Yang

2018/11/21



MyH2O – Water Information Network

Local



Global Changemakers

Global



Over **400M** of the rural population in China drinks from decentralized water supply, with little to no monitoring.

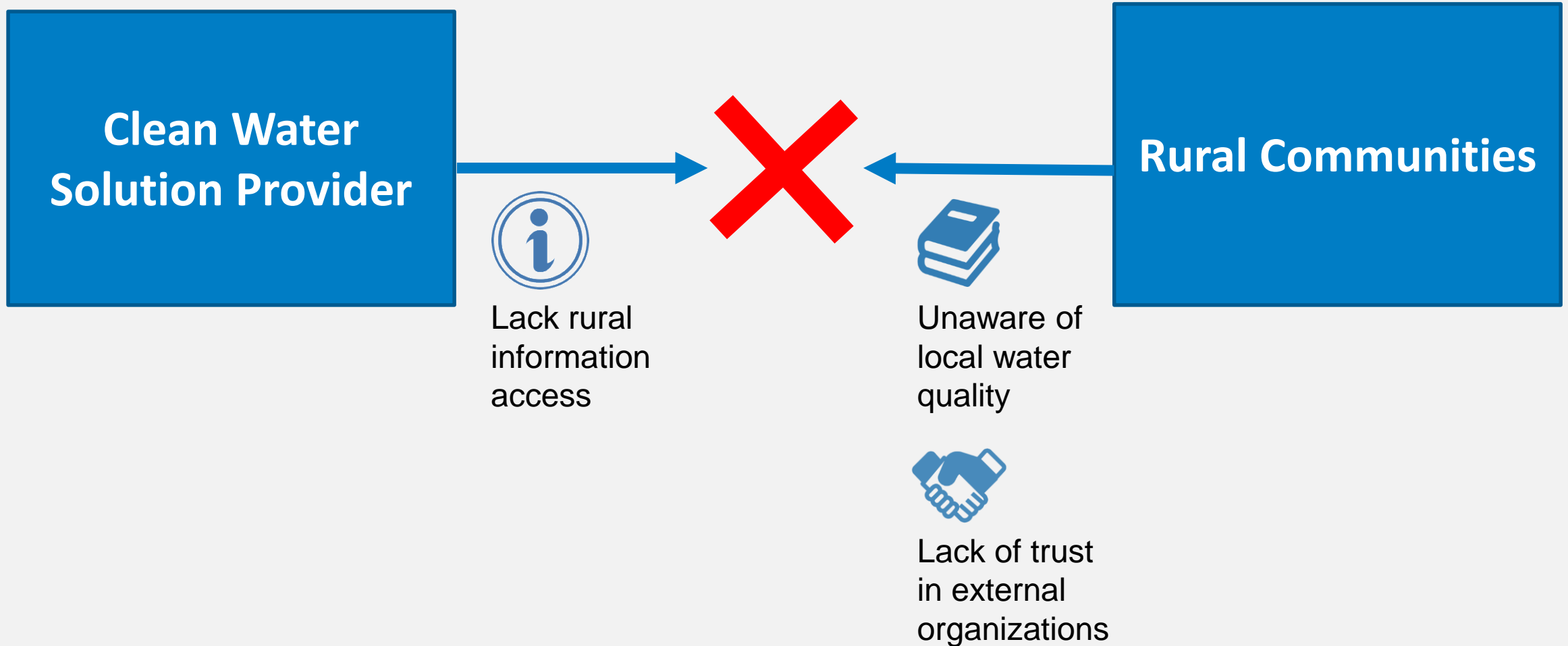
Around **298M** is still facing water quantity or quality problems.





“脚、腿都有问题，总觉得是饮水”
“my legs and feet are all in pain, we're thinking it's the water”

Problem





“

Water information collection network
+
Geospatial data platform

”

MyH₂O

Connecting clean water resources to rural communities

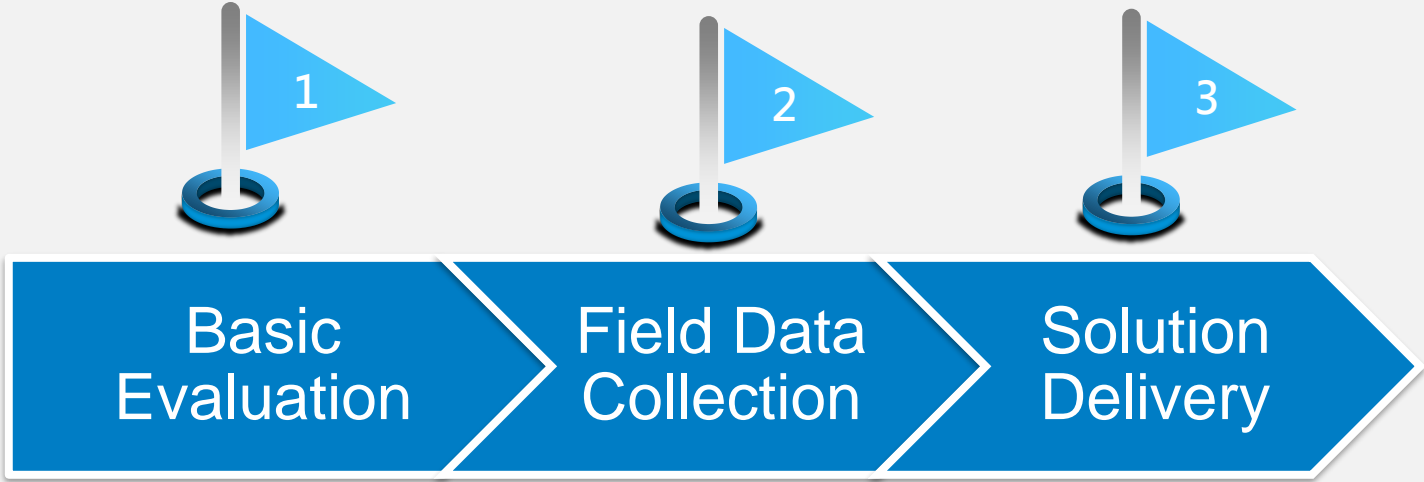
“

Geospatial Water Data
To
Targeted Water Solutions

”

Solution

Rural Communities
Lack of trust and awareness



Clean Water Resources

Geospatial Data Platform

Public Support & Awareness

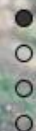


H₂O

Water Information Community

Myh2O水信息平台共享社区

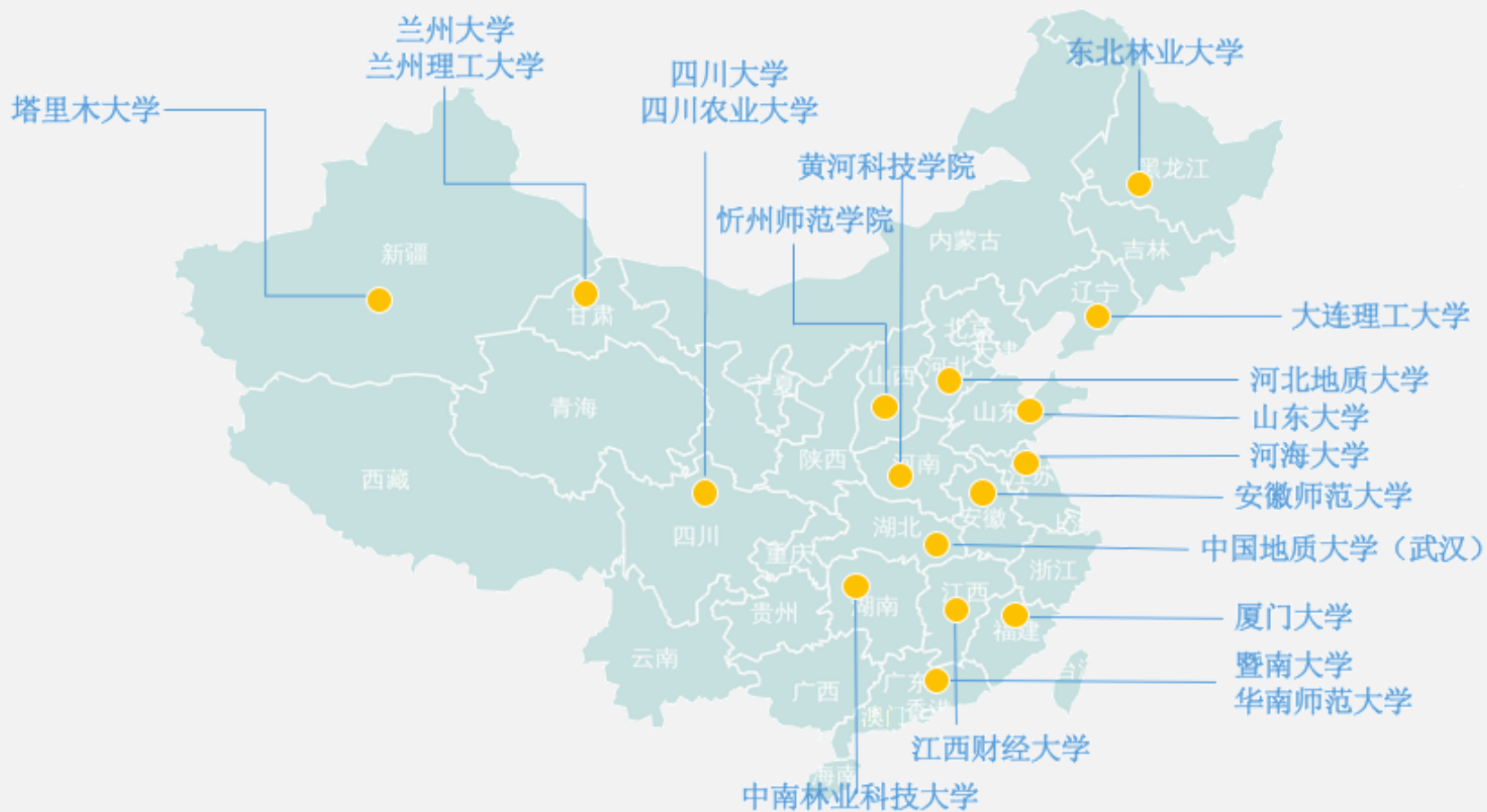
进入社区



1

Evaluation Network

- Nationwide field network in 23 provinces
- 87 student/NGO-based teams
- Crowd-based teams that fundraised for their own hometowns



我是检测团队 我是需求方

登录邮箱

密码



2

Field Data Collection

- Household interviews + Water Testing





* 3. 采样时日期与时间:

* 4. 检测时日期与时间:

* 5. 采样地点经度: 度

* 6. 采样地点纬度: 度

* 7. 采样地点所在村庄:

1

水样与水源信息

2

水样检测信息

Sampling

* 26.TDS

-测量方法:

-测量结果: mg/L

* 27.PH

-测量方法:

-测量结果:

* 28.硝酸盐

-测量方法:

-稀释倍数:

-测量结果: mg/L (以N记)

* 29.氨氮

1

水样与水源信息

2

水样检测信息

Water quality

III. 卫生性调研

只有分散式供水的饮用水样需要进行卫生性调研!

* 36.卫生性水样类型

管道水 机械取水 水泵取水 人力取/挖掘井
 其它

* 37. 水龙头等管道出水口附近是否漏水

有 无

* 38. 水龙头/出水口周围管道是否堆积有其他水, 如地表水

有 无

* 39. 出水水龙头上游是否有腐蚀情况

有 无

* 40. 水龙头附近的管道是否均暴露在外界中

有 无

1

水样与水源信息

2

水样检测信息

3

卫生性调研

Sanitation survey



87 teams 500+ field volunteers 800 villages 10k+ Datasets

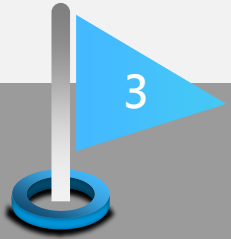


Data visualization - Water quality of rural villages



Data visualization - Water quality of rural schools





Solution Delivery

- Compiling a solution package
- Building partnership with multiple solution providers

Key projects

- Arsenic contamination | Clean water in rural schools | oil & gas contamination



中國環境科學研究院
Chinese Research Academy of Environmental Sciences



壹基金
One Foundation







云南省保山市道街村

2018-07-20

详细位置

查看地图

对应故事

病魔缠身，骨瘦如柴已时日不多了。而家中大部分的经济来自于孩子们的母亲；孩子们一般由父亲在家照顾。母亲在广州一家工厂做女工，秋后才会回村。家中两个年幼的女儿一个在上小学四年级，一个只有2岁。两个女儿清纯可爱，却又不乏乡下农民孩子的质朴。尤其大女儿梳着学生头。在她清澈扑朔的大眼睛里，我们唯一能看到的是她对未来的憧憬和美好的向往。



整个房屋都是由黄沙泥土建成的。当我们问见长的大女儿她平常的住所时，她引领我们去了屋里一个仅有的卧室。狭小的房间弥漫着尘土，缺能勉强装

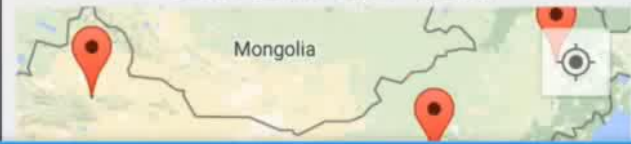


Google



AquaLove

全国水质信息实时更新



Screen Recorder

Recording Resolution: 1080x1920 ▾

Recording Orientation: Portrait (current) ▾

Record Microphone Audio



Who are we?

Global Changemakers is a Swiss based NGO that started on 2009

We work in the formation of a network of young social entrepreneurs, innovators and community activists to catalyse their change potential.

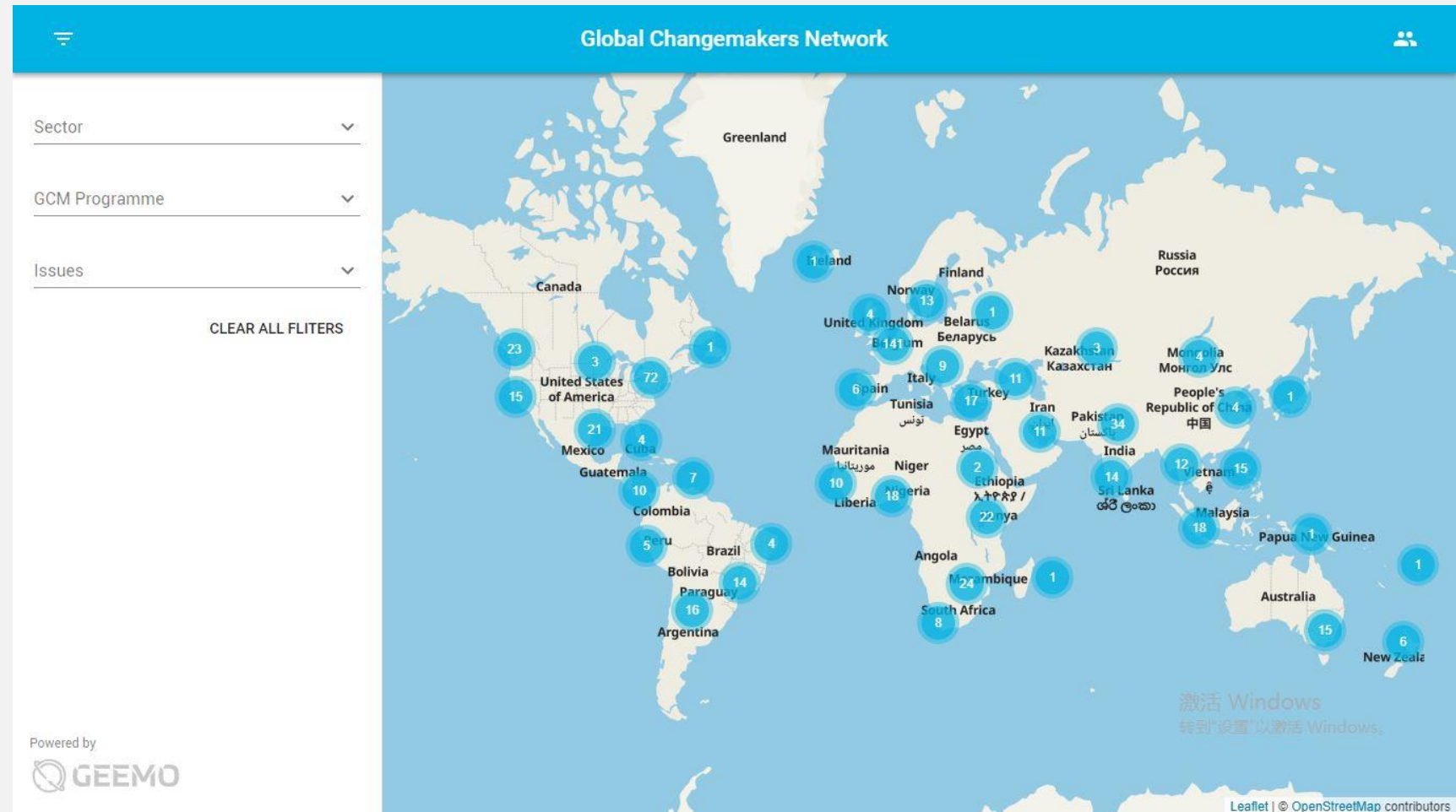
The Global Changemakers model is unique in its kind, since it provides a cyclical approach from the identification of talents, the strengthening of their abilities through workshops, tools and contacts; to financing their initiatives.

Our network

Our network of +1000 Changemakers from 128 countries.

200,000 people have been involved in our projects.

4 million people have benefitted from these projects.



As the 2030 Sustainable Development Agenda says:
Youths are the critical agents of change.



Each one of us can make a difference,
together we make a change.