How Geospatial Data Makes Voices Heard in China

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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

Clean Water Solution Provider

Lack rural information access

Rural Communities

Unaware of local water quality

Lack of trust in external organizations
Connecting clean water resources to rural communities

MyH$_2$O

Geospatial Water Data
To
Targeted Water Solutions
Solution

Rural Communities
Lack of trust and awareness

Geospatial Data Platform

Public Support & Awareness

Clean Water Resources

Basic Evaluation
Field Data Collection
Solution Delivery

1
2
3
Water Information Community
Evaluation Network

- Nationwide field network in 23 provinces
- 87 student/NGO-based teams
- Crowd-based teams that fundraised for their own hometowns
Field Data Collection
• Household interviews + Water Testing
III. Sanitation survey

- **Water quality**
  - TDS
    - Measurement method: TDS pen
    - Measurement result: \( \text{mg/L} \)
  - PH
    - Measurement method: Digital pH meter
    - Measurement result: 0.0
  - Nitrate
    - Measurement method: Dukane
    - Concentration: \( \text{mg/L} \) (Nitrate)

- **Sampling**
  - Sampling time and date
  - Sampling location coordinates
  - Sampling location village

- **Sanitation survey**
  - Water outlet leakage near the pipeline outlet
  - Water outlet/pipe is covered with other water, such as surface water
  - Water outlet upstream是否有腐蚀
  - Whether the pipe near the water outlet is exposed to the outside of the building
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
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癌症，瘦瘦如往日已过时不多了。而家中大部分的经济来自于孩子们的拨款；孩子们一般由父母在家照顾。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，却又不守乡下农民孩子的质朴。尤其大女儿抿着嘴唇。她清澈扑闪的大眼睛里，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。当我们问老大的女儿她平时的住所时，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...
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.