

International collaborative project for reinforcing sustainability of environmental technology ensuring water security (aXis/JST)

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Vision

- What will the technologies realize?

The technologies developed by this project improves water security in the target area (Nepal and Ghana, in this project) in which multiple water issues are prevalent.

Issue to solve

- What are the problems?

Water scarcity, water pollution, and water-borne diseases.

- Who has those problems?

Local residents and administrations with water issues .

Technology features

- Novel features:

1) Water resources diagnosis based on water availability mapping tech., isotopic and water quality anal., and microbial source tracking tech.

2) Locally-fitted, compact & distributed (LCD) water treatment system.

- Comparison with other competitive technologies:

The technology reinforce the reliability and adaptability of solution for water issues .

- Technology Readiness Level(if any):

At demonstration stage (TRL5-6).

Possible implementation

- In which industry can this technology be employed?

Water-related industry as well as government and local residents.

- Who are the target users?

The target users vary depending on the core technologies:

1) Water resources diagnosis : government, NGO, and water industry.

2) LCD water treatment system: local residents, water industry, NGO, and water industry.

- What sort of partnership are you seeking?

1) Supply chain and collaboration with local manufacturers for reinforcing social implementation.

2) Intermediation of NGOs between government, business and local communities for sustainably technology management.

- How large will the market be?

Under survey.