

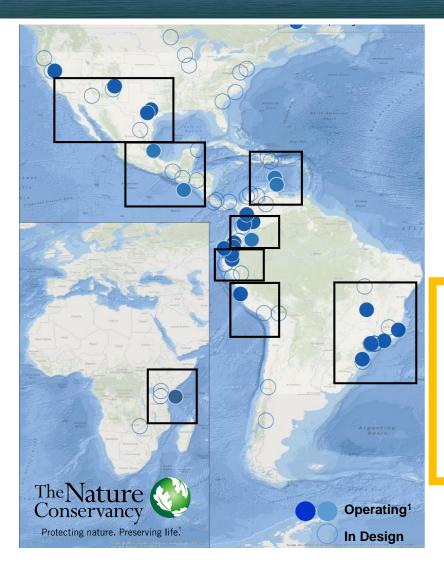
Water Pollution in China





- About a quarter of China urban residents lack access to proper drinking water and sanitation facilities.
- Over 50% of China's water pollution comes from non-point source pollution.
- China government is investing **330 billion U.S. dollars** to protect water during 2015-2020.

Water Fund Scheme



Agricultural Diffuse Pollution(TP)

Long-term Solution

Water Fund Scheme

Scientific Watershed Planning

Flexible Collaboration Form

Public-Private Partnership

Transparent Governance

Sustainable Agri. Pollution reduction

Enhanced Green Economy

3 In china

- Small scale , Longwu
- Medium scale, Qiandaohu
- Big scale , Dongjiang watershed

²⁴ Operating Water Funds across 8 countries ¹

¹ Defined as having a written agreement formalizing the partnership (as of Mar 2015)

China Securing Water Strategy

PROTECT

Non-point source pollution reduction

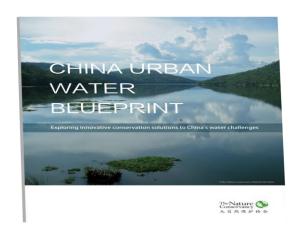
TRANSFORM

Farming practice and restoration

INSPIRE

Investors and public policy

Science





Financial
Governance
Implement

Water Fund

Efficient mechanism in different scale

Small Medium

m Large

China Water Fund in Progress











Water Fund

Small

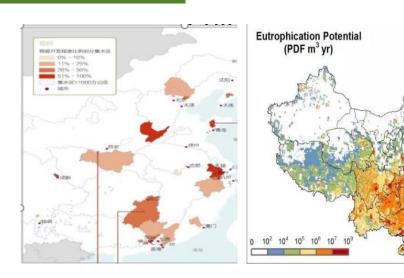
Longwu, Zhejiang Province

Medium

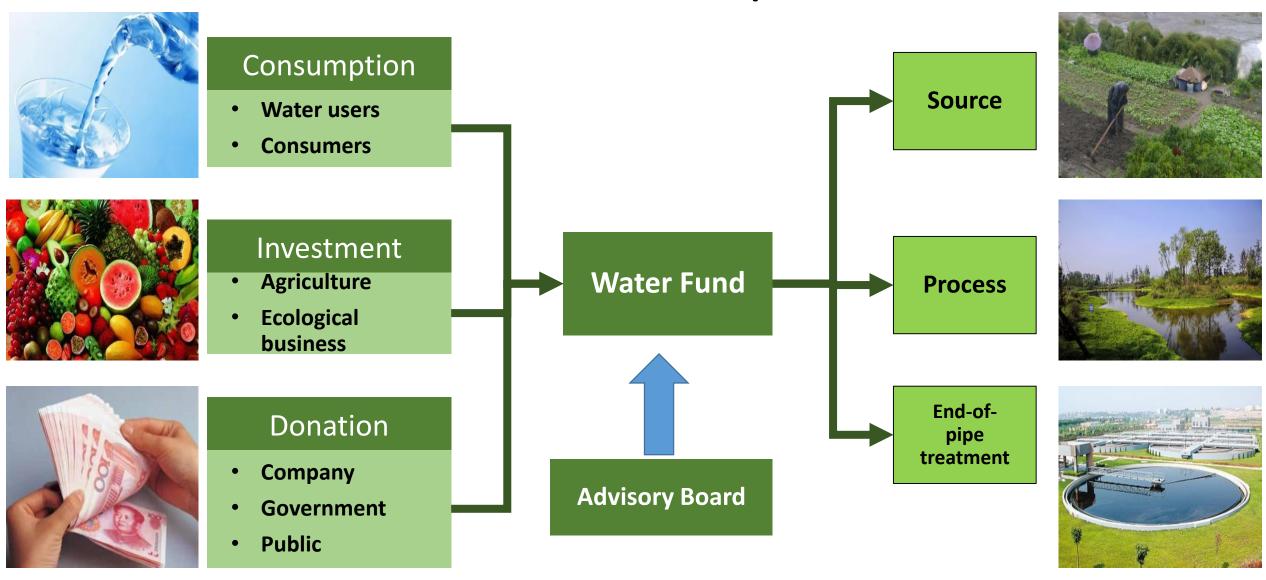
Qiandao Lake, Zhejiang Province

Large

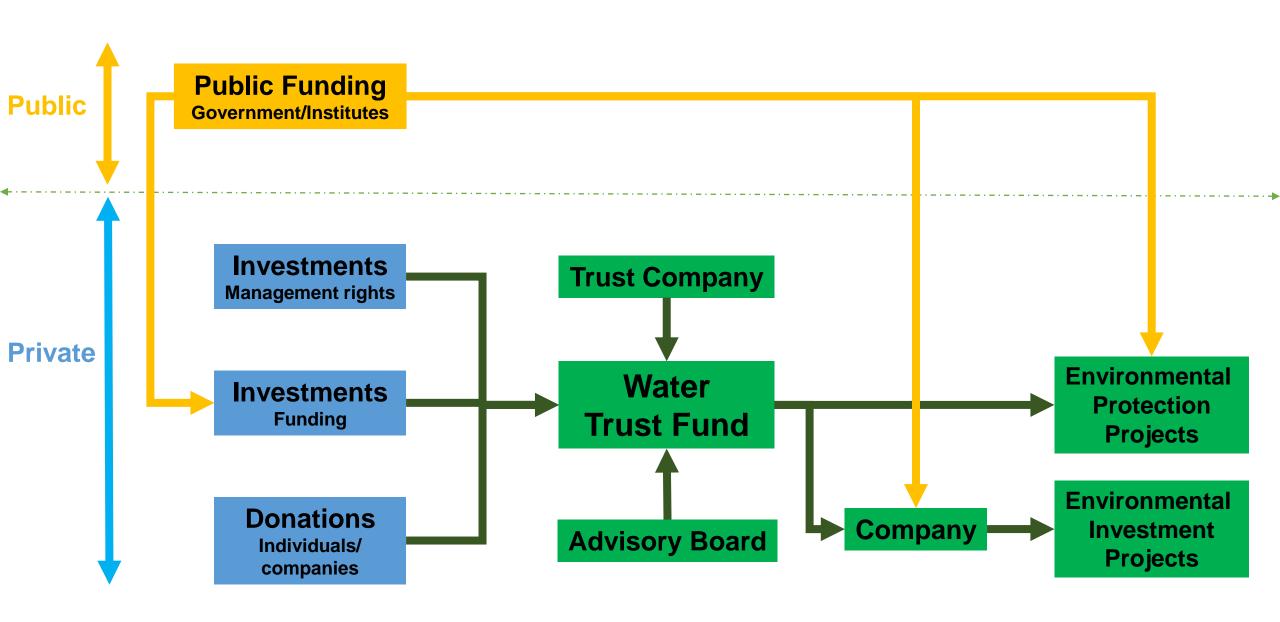
The East River, Guangdong Province



Water Fund Concept Model



Water Fund Operation Model



Longwu Water Fund

Established on November 1,2015

50,000 USD investment





Qiandao Lake and Xin'an River Basin Water Fund







- Watershed area of 11,453 km²
- drinking water source for 900 residents of Hangzhou
- Biggest lake in Yangtze River Delta
- NRDC" An Integrated Plan for Water Resources and Eco-Environment
 Protection in the Basin of Qiandao Lake and its Upstream Xin'an River"

Dongjiang(DJ) Watershed



- Watershed areas of 35,340 km², 90% located in Guangdong Province
- Drinking water source for 40Million residents in Pearl River Delta(PRD), one of the top economic pioneering regions of China
- Accounts for 60% GDP of Guangdong Province
- Coverage of Nanning biodiversity priority areas and ecological security key regions

Challenges to DJ Watershed

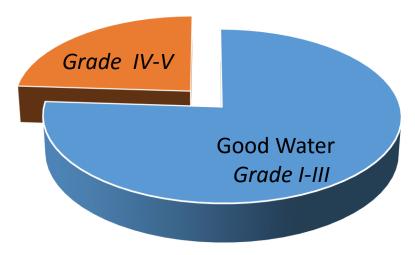
Status quo



Challenges

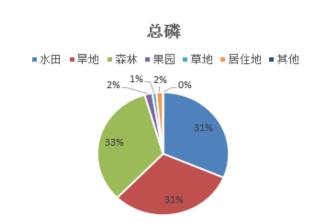
Water quality of DJ river is generally good.

Water Quality Grade of DJ River

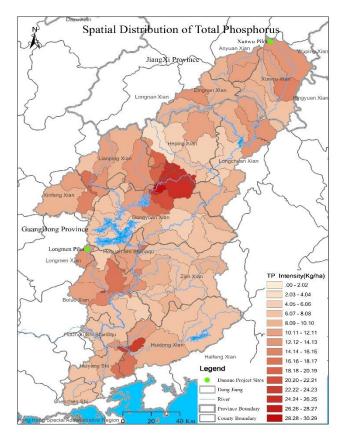


Source: Guangdong and Jiangxi Provincial Department of Water Resources, 2014

Agricultural diffuse pollution has loomed over DJ Watershed.



Diffuse pollution from agriculture source makes up 78% of watershed Total Phosphorus(TP) pollution.



Goal and Objectives

Goal: Providing an innovative solution to improve water quality of DJ watershed by science-based approach to establish a watershed protection plan and partnership approach to build up a sustainable funding mechanism.

Environmental Goal

Economic Goal

Social Goal

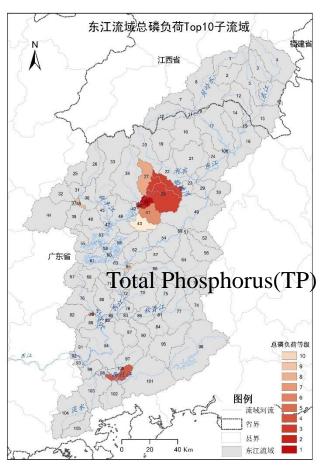
Implementing Agricultural Best
Management Practice on 1% key lands
(4,000 ha land including 3,850 ha
farmland, 150 ha orchard) as pilots to
demonstrate agricultural non-point
source pollution control. which could
reduce the 0.6~0.9% of total
phosphorus load of the whole DJ
watershed in 10 years.

DJ Water Fund is supposed to reach RMB 30 million in five years and impact RMB 50 million investment. The total fund scale will be about 200 million in 10 years, and to have 10 core partners on board.

At least **2,000 farmers** are supposed to be directly involved in Water Fund pilot projects, in which **10%+ of the poverty** ones will have significantly improvement in income.

Water Fund Projects

TOP10 TP intensity hotspots



4% of DJ watershed TP loading contribution 11%

Investment
Projects
(Cash Returns)

Protection
Projects
(Envi. Returns)

Agriculture BMPs

4R Farming Management

Pest Management

Protective Cultivation

Source Reduction

Water Quality Monitoring

Reduction Monitoring



Ecological BMPs

Natural Education

Eco-tourism

Pathway-Control----

Vegetation Buffer

Ecological ditches

Wetland Protection



Timeline

WANXIANG | 万向信托



On-going

In Plan







Design(2016)

Projects design

RMB 1 Million

Watershed analysis

Stakeholder analysis





Establishment(2017)

Feasibility evaluation

Initiate investments

Initiate donations

Initiate partners

RMB 4 Million

Projects

Partners

Evaluations

RMB 30 Million in five years

Operation(2018+)