

Fun and joyful Rain School Activities as an essential tool for the promotion of RWH



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My Journey to Rainwater Harvesting: Failure and overcome

- 1. Started since 2006 at Vietnam until now.
Overcoming the failures,
Improve and make a better version each time.
Make theoretical background
publish scientific papers
Producing 10 PhD and 30 Master

Challenges in Rainwater Harvesting

- Water quality is not reliable
- Water shortage during dry season
- No method for evaluation
- Poor maintenance, low efficiency
- No sense of ownership



Not convinced

by the owner, by the designer, by water experts

Not fully supported and welcomed

by the international organizations, by donor agencies, and by the governments.

Scale of the system

- Large Scale Water system



Community Based

Health Care Center

School

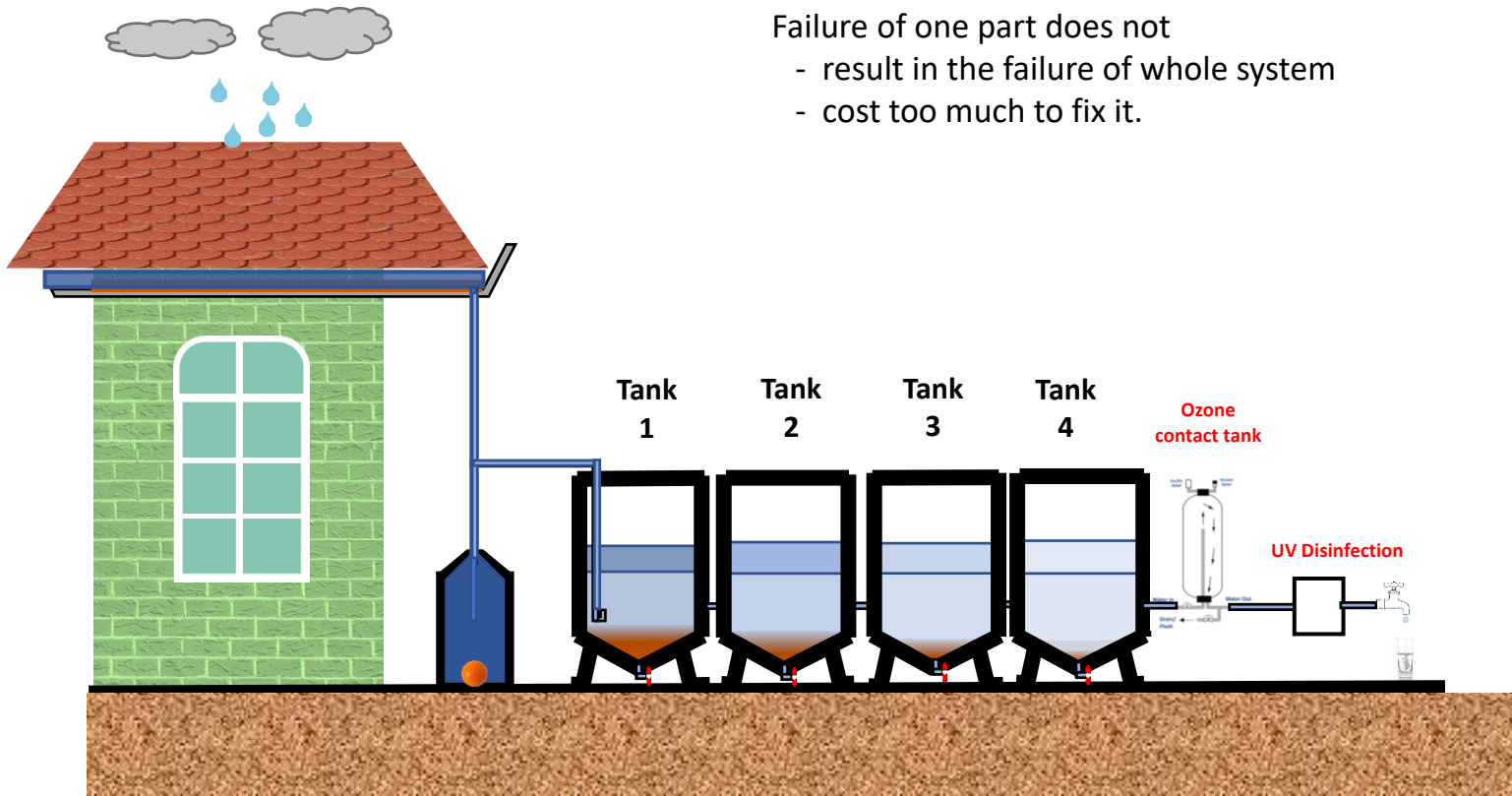
- Individual Scale



T 1

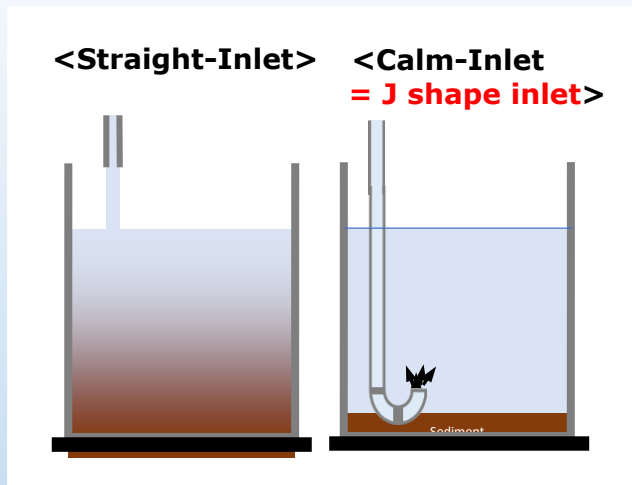
MBC(Multiple Barrier Concept)

- Failure of one part does not
- result in the failure of whole system
 - cost too much to fix it.

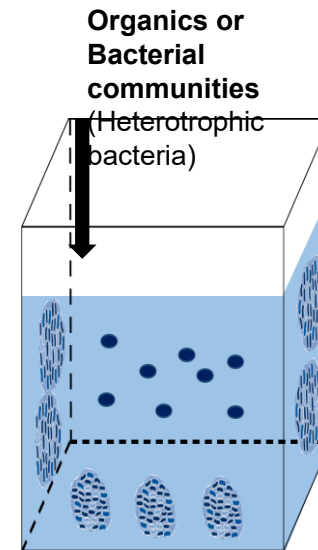


T 2

NBS(Nature Based Solution)



Biofilm
(oligotrophic
bacteria)

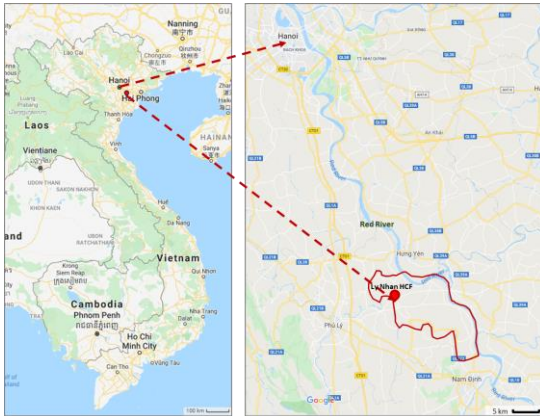


[particle]

1. Dissanayake, J.; Han, M. Effect of Inlet/Outlet Configuration on Water Quality in a Rainwater Harvesting Tank. *Water* **2020**, *12*, 1970.

[Organics and
Pathogen]

RFD pilot system at Ly Nhan Hospital, Hanam, Viet Nam with the collaboration of SNU, WHO, VIHEMA since Sep. 2019



No Promotion to the society

Let us focus on Schools

- Students are the teachers of the parent and society.
- Students will be the leader and owner of this planet.
- They should know how to overcome climate crisis.
- Students, parents and school have desire for education.
- Students from each country can together make a peaceful world.

BiTS at Rain School?

- BiTS is a special group (Bi (=rain) Teacher and Student)
- 1-2 teachers + 3 group (one from 10,11,12 grade)

Beauty

Art, Culture,
Dance,
Decoration

Technology

Monitoring
Tech Design
IT

Social

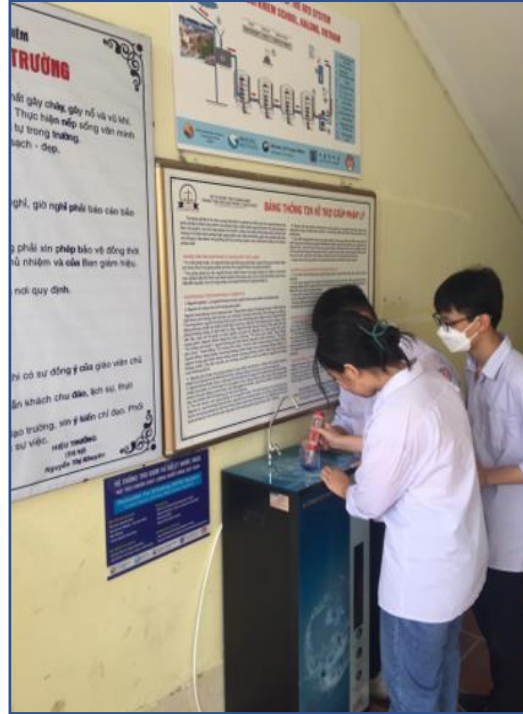
Promote in
the school
and to
society

Rain School in Halong, Vietnam



NBK school, Halong Bay, Vietnam





Rain School Initiative in Monsoon region to overcome climate crisis

Rain For All (Non-governmental organization (NGO))
#SDGAction49796

UNWater Action Agenda

Water is a fundamental part of all aspects of life



**United
Nations**



UN 2023 Water Conference
22 – 24 Mar 2023, New York

Virtual Side Event on Monday,
Rain Dance from 6 countries

Vietnam



Korea



Vietnam



Cambodia



Mexico



Sri Lanka



Thailand



Rain village and Rain Festival (Case of Vietnam)

- Festival at the rain village
- Dance by Students
- Dance by Teachers
- OX quiz
- Various fun and interesting activities.
- Rain Dance
- Rain festival

International Rain School Network

