

Zero Source Pollution Initiative (ZSPI)

FIGHTING BIODIVERSITY LOSS: TACKLING WASTE IN WATER

ADB



More than half of the GDP in Asia and the Pacific is threatened by nature and biodiversity losses

Water ecosystems are under critical pressure causing unsafe water supply and affecting

1.5 billion people in rural areas

More than 600 million people in urban areas

THE CONTEXT



In the Asia and the Pacific region, **11 major cities** in coastal areas or river deltas are under risk of climate disaster (Source: WWF)



More than **77%** of Southeast Asia's population living by the coastlines is under threat (Source: GEF)



80% of wastewater in the Asia and Pacific region is discharged without treatment



Southeast Asia is home to **28%** of the global aquatic and semiaquatic species. Nearly **37%** of these species are threatened by pollution



1.7 billion people in the Asia and Pacific region do not have access to basic sanitation



In the Lower Mekong Region, the annual fish harvest alone is worth **\$17 billion** (Source: Mekong River Commission)

WATER POLLUTION is linked with



Climate change

- ▼ Flooding water
- ▼ Water scarcity



SDG 6

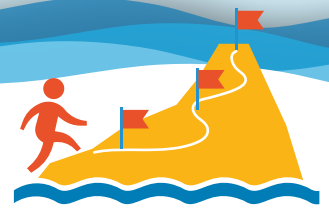
- ▼ Lack of access to clean water hinders equitable development



Biodiversity loss

- ▼ Declining fishing stock
- ▼ Declining mangroves
- ▼ Eroding coastlines

THE CHALLENGE



Technical

Limited application of appropriate and cost-effective technical solutions

Institutional

Governance and institutional efficiencies for better implementation

Financial

- ⚙️ **\$711 billion** per annum globally needed for biodiversity by 2030
- ⚙️ Need to catalyze much greater scale of private capital to address the financing gap



WASTE IN WATER SOURCES



Agricultural (runoff)



Toxic industrial effluents



Plastic pollution



Municipal waste

ZSPI: An ADB Initiative



THE OBJECTIVE

To identify and develop at least **10 Waste in Water (WIW) demonstration projects** with a clear impact on reducing water source pollution to zero
Each project must integrate 3 aspects to address the challenge



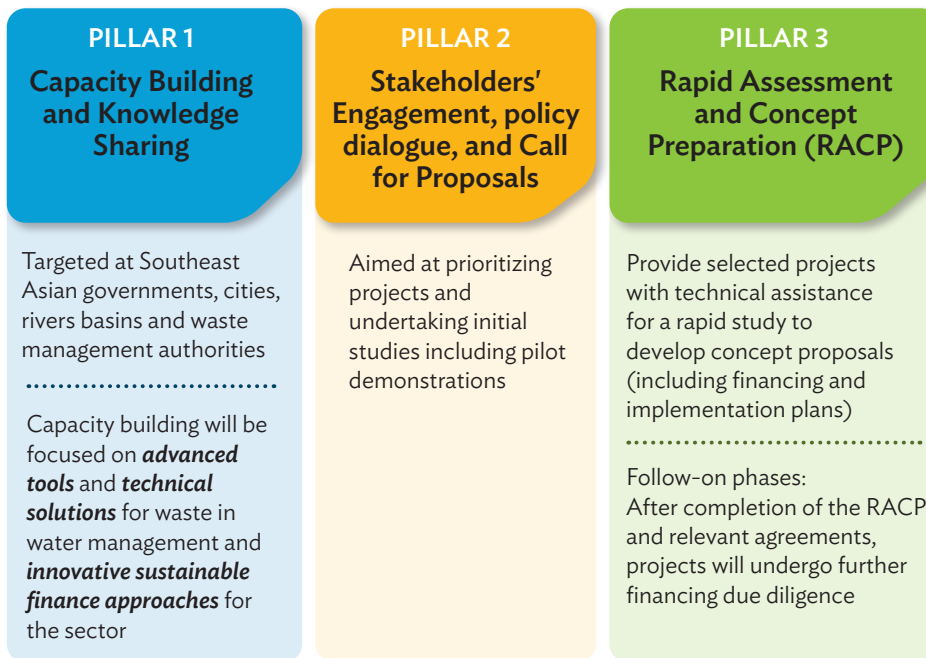
The initiative will start in Thailand and expand to other parts of Southeast Asia



ZSPI TARGETS

- To prepare at least **10 high-impact and replicable projects across Southeast Asia** to be submitted to governments and possible financing entities by 2025
- To mobilize at least **\$1 billion** in investments by 2030 from public and private sources to tackle waste in water issue

THE APPROACH



PROJECT TYPES

- Wastewater treatment and reuse
- Industrial effluent treatment plants
- Sanitary landfills, landfill upgrades, and recycling facilities
- Municipal/Food waste treatment plants
- Biomass to energy projects
- Water network and supply servicing
- River basin pollution control projects
- Agrichemical and plastic management

TIMELINE 2023



PARTNERS



Technical Assistance (Grants)

The ZSPI will be funded by grants under ADB's technical assistance project 10079 and by further support by partners

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