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MINISTRY OF AGRICULTURE AND ENVIRONMENT

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Vì Đồng Bằng Sông Cửu Long

Mekong Delta Climate Resilience Programme

Innovations in Aquaculture, Coastal and Water Management

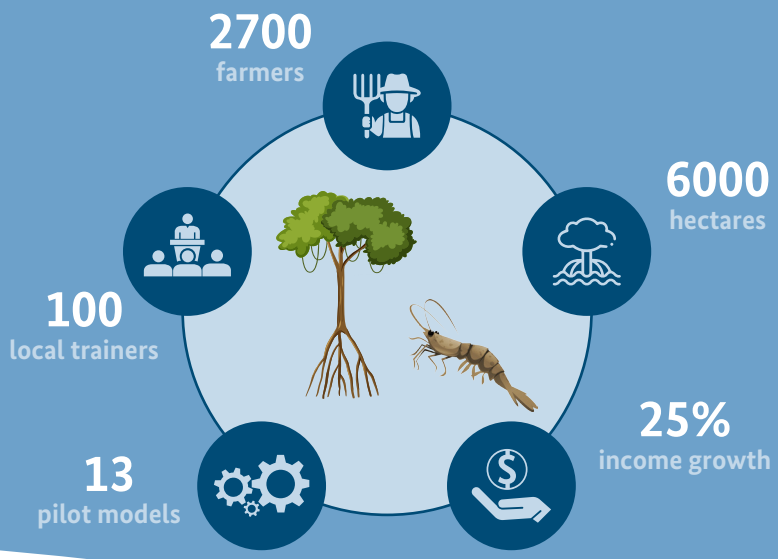
Using innovations to protect rivers, coasts and communities - strengthening the rural resilience to climate change in the Mekong Delta.

The project improves water quality management, uses healthy post-larvae, and probiotic, alongside training for farmers with a focus on women's engagement.

01

Promoting sustainable mangrove-shrimp production through water quality innovation in the Mekong Delta

FACTS AND FIGURES

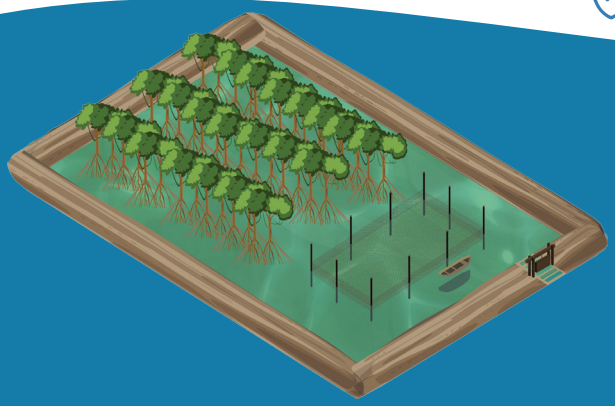


NOTABLE ADVANTAGES

Field trials of a **Two-stage Mangrove-Shrimp Model**

- Controlled nursing pond
- Daily water-quality monitoring
- Reinforced mangrove protection

Scan the QR code for more details



KEY RESULTS

80-95%
survival rates

300 kg/ha
expected yields

+45%
Higher Yield

02

Promoting rice-shrimp farming innovations in Ca Mau province

Scan the QR code for more details

The project promotes advanced farming methods and market access

- Flexible water management
- Use of healthy post-larvae and probiotics
- Enhanced farmer training
- Strengthened links to buyers for international certification.

KEY RESULTS

1,200 hectares organic rice-shrimp farming

592 farmers trained

150 farmers supported on organic & BAP standards

150 new contracts facilitated

609 hectares BAP certified (2024)

€ 85,000 mobilised for scaling

03

Digital and real-time Water Monitoring System

Key Water Data

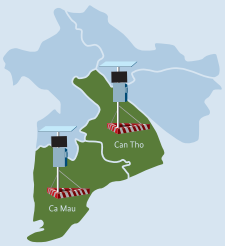
Collected automatically by digital sensors

Water Level · Salinity · pH · Temperature

Open Access

Real-time data streaming to authorities & community via "Nguồn nước Cửu Long" App

Scan the QR code for more details



Key results

21 monitoring stations across Ca Mau and Can Tho provinces

399,088 people benefited

281,521 hectares agricultural land protected

This support from project also paved the way for leveraging further investment from provincial partners and international donors to scale up the system.

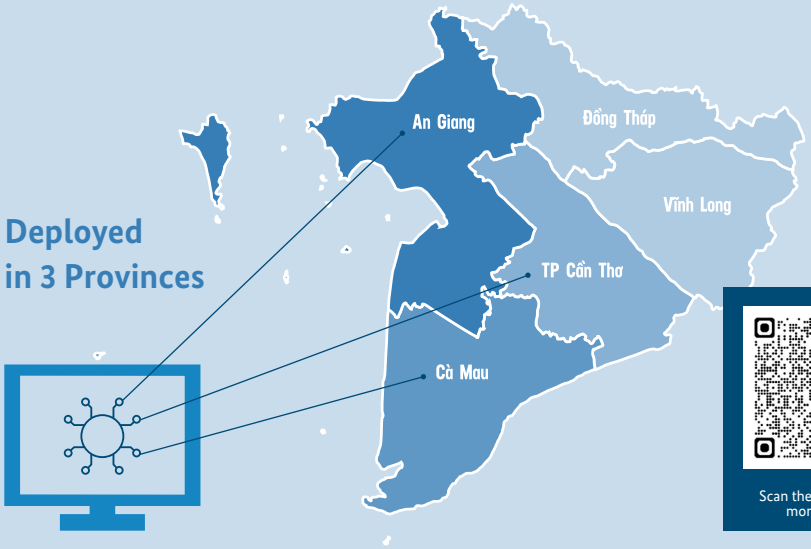
04

Mekong Delta Water Database System (MD-WADS)

MD-WADS was created to tackle data fragmentation and promote data sharing and collaboration

- Water management and operation
- Hydrometeorological and water monitoring
- Climate and disaster preparedness

Deployed in 3 Provinces



Scan the QR code for more details

Unifying Data from 3 Key Actors

Agriculture | Environment | Hydromet

Reduces Fragmentation & Strengthens Cross-Sectoral Collaboration

Open Platform

The database is integrated into the Department of Agriculture and Environment (DAE) website, offering

- Shared Data & Joint Management
- Access for public users
- Resource for Researchers & Students
- Tool for Provincial Authorities

05

Innovative Temporary Dam

A viable solution to cope with Drought and Salinity

Modular & Reusable Design

Eco-friendly and Low-cost
Minimal environmental footprint

Rapid Response
Easy and quick installation (in 2 weeks) and can be relocated (to new sites)

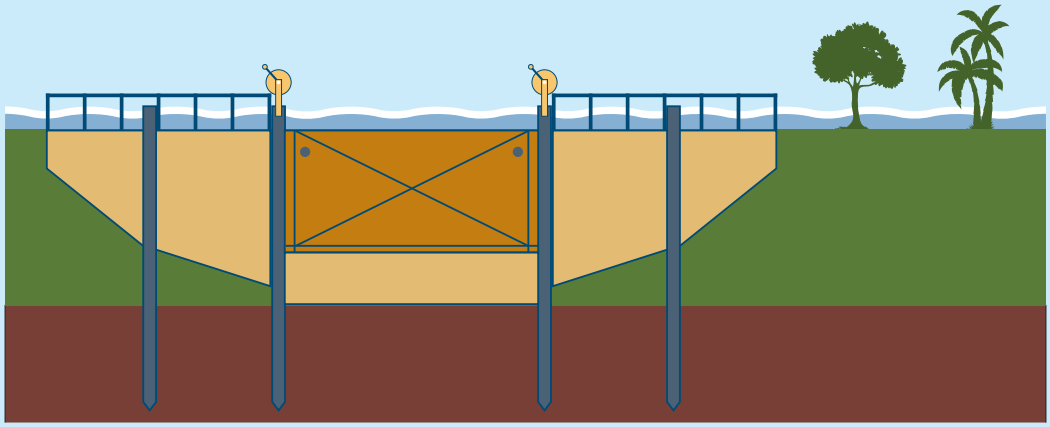
Maintains navigation
and does not permanently block natural water flow

2 pilot dams in Ca Mau

80 households benefiting

120 hectares agricultural land protected

€194 million Investment from local authorities to scale up the approach



Scan the QR code for more details

06

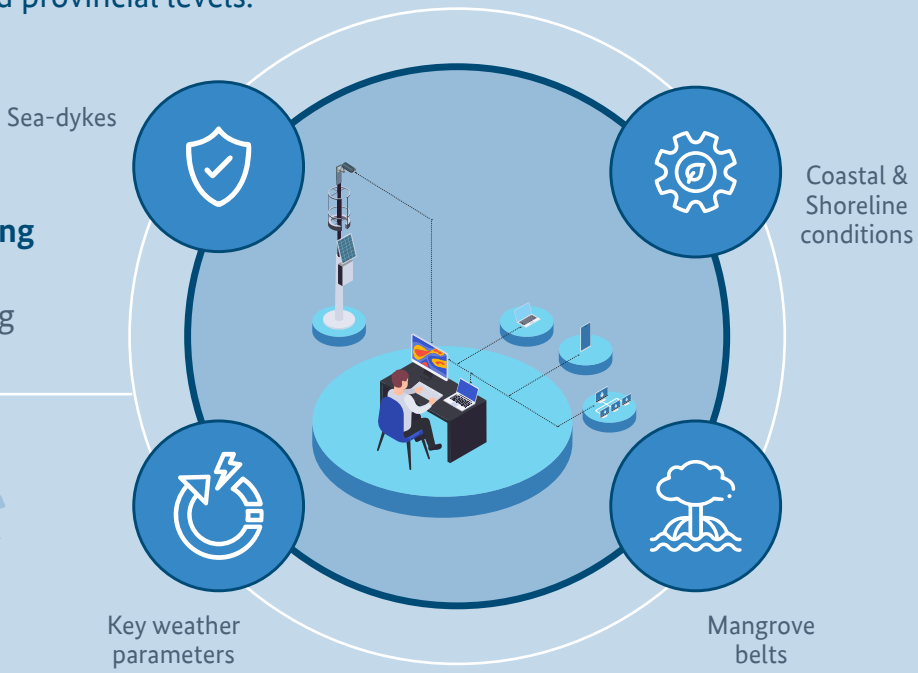
Coastal Monitoring Systems (CMS)

By delivering real-time, reliable data, the system supports “timely and evidence-based decision making” for disaster management at both central and provincial levels.

17 Stations

Robust Digital & Automatic Monitoring

System includes robust cameras and hydrometeorological sensors providing real-time data on:



5 provinces

An Giang
Dong Thap
Vinh Long
Can Tho
Ca Mau

07

Upgrading Viet Nam Disasters Monitoring System (VNDMS)

Established in 2018, VNDMS is a core platform supporting VDDMA in disaster monitoring and national response. With MCRP support, the system has been modernized to meet growing disaster management needs.

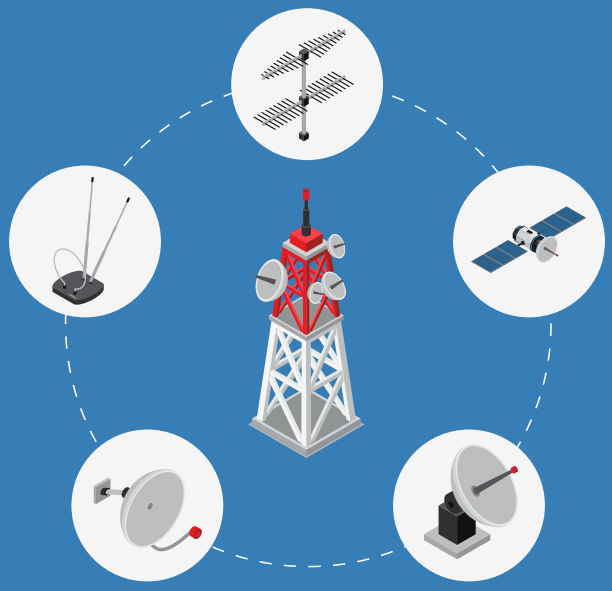
Faster & Smarter system architecture
with improved data quality to support better analysis and decision-making

Up-to-date and reliable national data
including new administrative maps, fully integrated into VNDMS

Upgraded web & mobile platforms
Easier access making information clearer and more user-friendly

Stronger data security
helping ensure information is protected and trustworthy

Stronger evidence-based local planning
using updated risk data, maps to help communities prepare for disaster



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