



SOUTHEAST ASIA-EUROPE
JOINT FUNDING SCHEME FOR
RESEARCH AND INNOVATION

Ms/Mr First Name Last Name

Organisation

Country

ADD TITLE HERE

Select Topic 1/2/3

Brokerage Event – 9th Call

03 October 2024

Assessment & Remediation of Contaminated Peat UMHNP-MD



My and my institution's area of expertise

Name: Truong Minh Hoang

Position: Senior Lecturer

Unit: Civil Engineering & Environmental Science

Organisation: Van Lang University

City: Ho Chi Minh

Country: Vietnam

E-Mail: hoang.tm@vlu.edu.vn

Expertise:

- Geo-Environmental Engineering
- Geotechnical Engineering
- Characteristics of sediments
- Saltwater intrusion & sea level rise

My proposed Research Idea for the 9th JFS Call

Research Question:

- Q1. Why peat has been protected by human irrigation & dike systems but still polluted?
- Q2. Why is the quality and quantity of peat decreasing?
- Q3. What is the level of pollution and pollution?
- Q4. What solutions to overcome polluted peat in Holocene sediments in UMHNP-MD?

Proposed Project Activity:

- + Assessment of contaminated peat in UMHNP-MD,
- + Analysis elements in peat & Late Pleistocene-Holocene sediments:
 - . 40K, 224Ra, 226Ra, 228Ra, 232Th, and 238U radionuclide,
 - . Fe, Al, Na, K,



Mekong Delta



(b) Acid sulfate water in U Minh Ha National Park

My proposed Research Idea for the 9th JFS Call

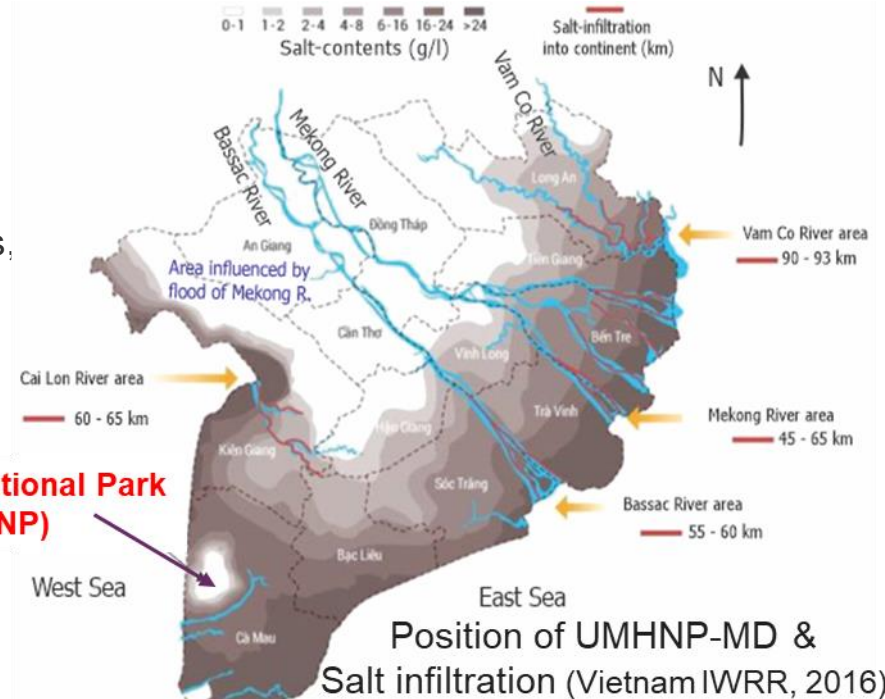
Proposed Research Activity:

- + Unwanted impacts of human irrigation & dike systems,
- + Phenomena are lack of fresh water & salt infiltration
- + Field survey:
 - . Field experiments, in situ tests
 - . Topographic measurements
- + Lab tests & building micro-topographic map



Solutions to Remediation of Contaminated Peat

- + Geotechnical methods
- + Geo-environmental methods



Project Consortium

My organisation:

Role:

Support procedures and legal confirmation
Create laboratory conditions and time for project implementation
Organize workshops and meetings for the project if needed

Further existing partners (if any):

Partner 1: Engineering Faculty, Urban & Regional Planning Department Islamic University of Riau, Indonesia

Expertise: Spatial Analysis to Choose a location to be Designated, Stabilization of public space, Community participation pattern in communal village land utilization

Role: Building micro-topographic map, Spatial analysis & assessment to human irrigation & dike systems

Partner 2: Faculty of Water Resources, National University of Laos

Expertise: Water Resource Development & Management, Hydrology & Meteorology

Role: Assessment contaminated peat, soils, water

Project Consortium

Partners that we are seeking for our project consortium:

Region: Europe

Expertise: Peat/peatland in delta or wetland, assessment & remediation of contaminated soils in delta/wetland

Role: Assessment & remediation of contaminated soils in delta or wetland in Partner's European country

Region: Southeast Asia

Expertise: Peat/peatland in delta or wetland, assessment & remediation of contaminated soils in delta

Role: Assessment & remediation of contaminated soils in delta or wetland in Partner's Southeast Asian country



**Comparison of Peat Pollution in Three Countries &
Special Remediation Solutions for Peat Pollution for Each Country**

Project Consortium

Partners that we are seeking for our project consortium:

Region: Europe

Expertise: Assessment & remediation of contaminated inorganic and organic soils

Role: Assessment & remediation of contaminated soils with **our different elements** in Partner's European country

Region: Southeast Asia

Expertise: Assessment & remediation of contaminated inorganic and organic soils

Role: Assessment & remediation of contaminated soils with **our different elements** in Partner's Southeast Asian country



General Assessment of Peat & inorganic & organic soils Pollution in Three Countries & Special Remediation Solutions for each soil Pollution for Each Country

