

## 対象国防災分野における開発ニーズ(課題)

- 堤防材となる建設材料の不足による、堤防整備の遅れによる護岸浸食・洪水被害の増加
- 浚渫泥土の悪臭等による地域住民の生活環境悪化への対策が必要
- 浚渫泥土の運搬/処理におけるコスト対策

## 提案製品・技術

- 再利用システムの活用により、浚渫泥土等の建設発生土に添加材を混練することで、改良土として堤防材料等への再利用が可能
- 高騰する堤防材や浚渫泥土の廃棄に係るコストが抑制でき、安価で早期の堤防整備が可能

## 本事業の内容

- 契約期間 : 2025年5月 ~ 2027年7月
- 対象国・地域: ベトナム国ハノイ市、ハナム省、ナムディン省、ダナン市及びホーチミン市
- 案件概要 : 河川の浚渫泥土を再利用システムにより改良し、リサイクルする技術の普及・実証・ビジネス化事業。不足が深刻な建設材料を浚渫土砂を再利用することで、埋立や防災堤防の早期整備に貢献するほか、道路事業等にもビジネス展開し、インフラ整備促進による災害対策及び経済発展への貢献と、廃棄泥土による地域住民への社会環境負荷の低減を目指す。



掘削泥土再利用システム

## 開発ニーズ(課題)へのアプローチ方法

### (ビジネスモデル)

- ベトナムにて提案工法の施工方法及び工法管理のマニュアル作成を通じ、提案工法の優位性及び有用性を確保する
- 公共工事意思決定者への提案工法の普及
- ベトナム公共事業において、提案工法が採用され、建設事業者と連携した工事請負契約の受注

## 対象国に対し見込まれる成果(開発効果)

- 浚渫土砂を廃棄せずに建設材料としてリサイクルする技術の浸透
- 堤防整備期間の短縮と、整備費用のコスト削減
- 対象地域における護岸浸食・洪水被害の低減
- 浚渫泥土の廃棄による悪臭等がなくなることで、社会環境負荷の低減へ貢献

## Development Issues Concerned in the Disaster Prevention Sector

- Due to the shortage of materials, the construction of embankments has been delayed and erosion damage to revetments and flooding damage are increasing.
- Consideration must be made for the living environment for local residents, due to the foul odor of dredged soil.
- Transport and proper treatment of dredged soil is expensive.

## Products/Technologies of the Company

- The proposed extracted sediment reuse system allows additives to be mixed with construction waste soil and for the resulting improved soil to be reused as embankment materials, etc.
- As the proposed technology eliminates the necessity to buy expensive embankment materials or find a place to dispose of dredged soil, construction can be completed more quickly and at a lower cost.

## Survey Outline

- **Survey Duration:** May 2025 - July 2027
- **Country/Area:** Hà Nam province, Nam Định province, Hanoi City, Danang City and Ho Chi Minh City, Vietnam
- **Survey Overview:** This is a business verification survey for the implementation of a reuse system to improve and recycle dredged soil from waterways for use as construction materials, of which there is a dire shortage, in order to allow for prompt construction of embankments. The project will aim for the business expansion into road projects, contributing to countermeasures against disasters and economic development by helping to advance infrastructure development. Furthermore, this project will aim to reduce the social and environmental impact on local residents from dredged soil disposal.



Extracted Sediment  
Reuse System

## How to Approach to the Development Issues

- Ensure the superiority and utility of the method by creating a manual for the operation and management of the proposed method in Vietnam.
- Disseminate the proposed method to public works decision makers.
- Collaborate with construction companies to win contracts for public works projects in Vietnam using the proposed method.

## Expected Impact in the Country

- Adoption of technology to reuse dredged soil as construction materials rather than treating it as waste
- Reduction in construction period and cost of embankment construction
- Reduction in revetment erosion and flood damage in target areas
- Contribution to reducing the social and environmental impact by eliminating the issue of foul odors from dredged soil