



Land Development Department

Volunteer Soil Doctors

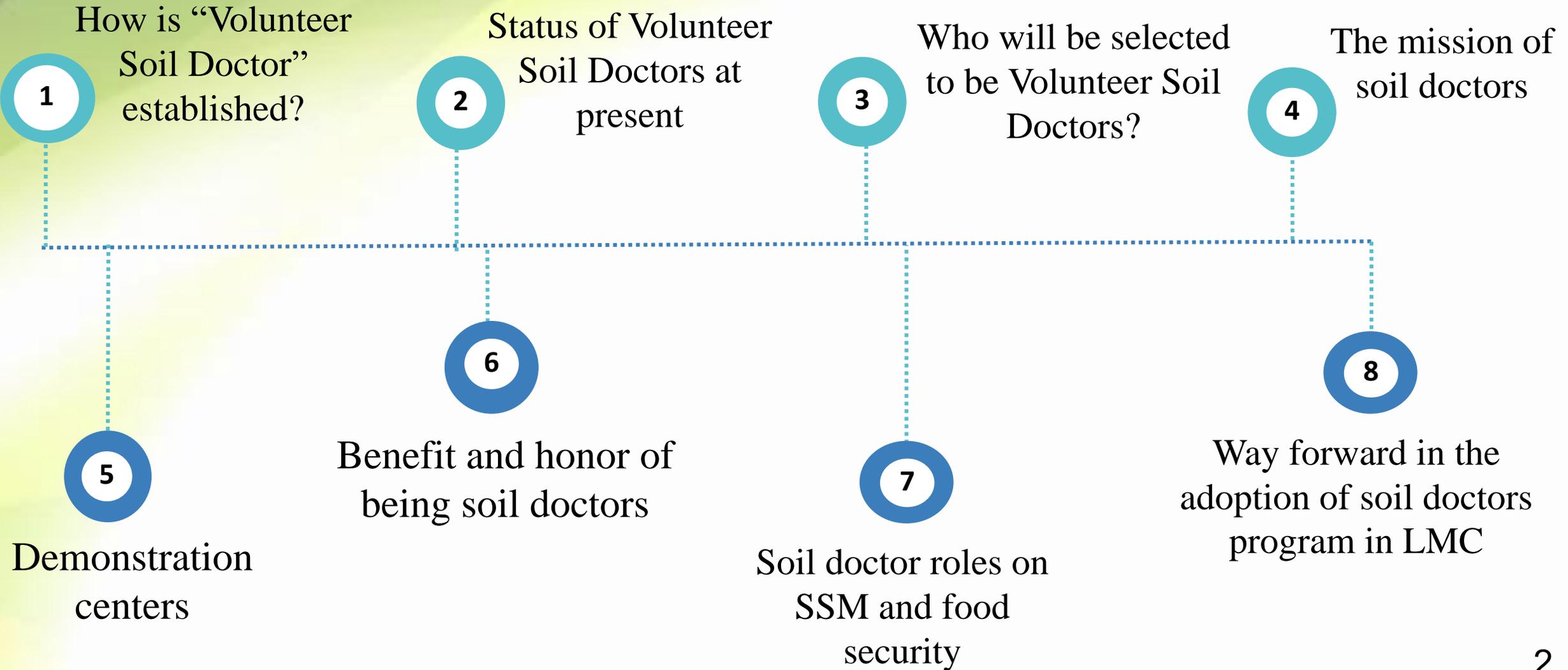
**A Participatory Approach for
Sustainable Land Development
in Thailand**

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Land Development Department



Outline



1. How is “Volunteer Soil Doctor” established?



Improper land use



Soil constraints/Land degradation



Crop yield reduction

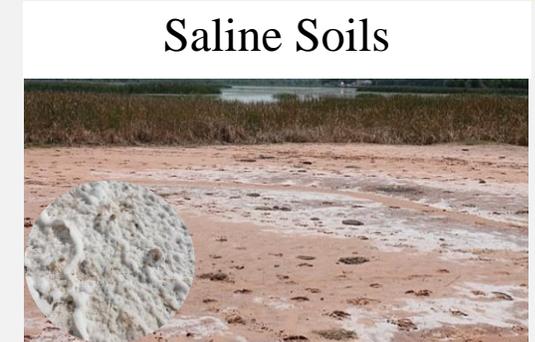
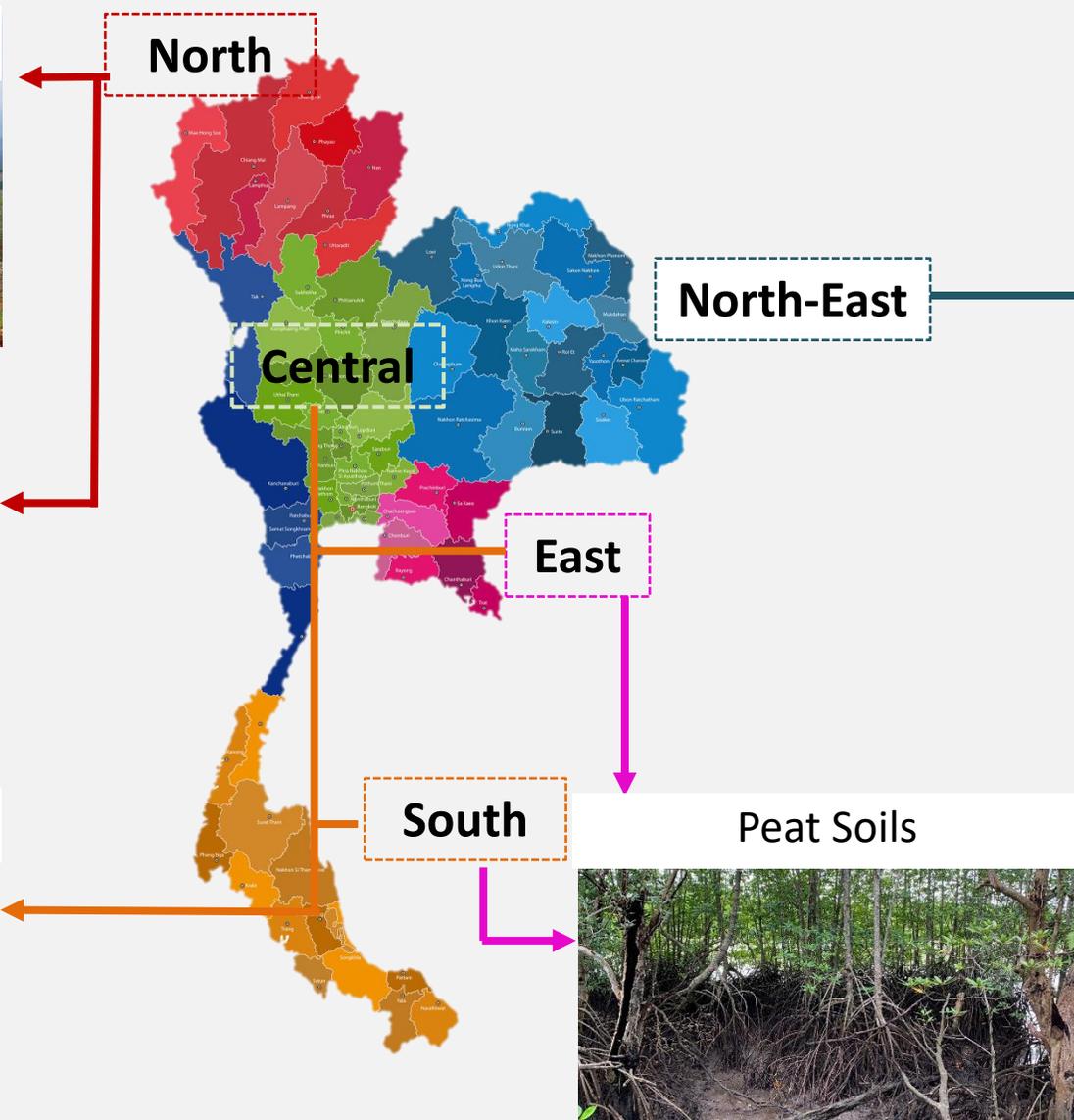
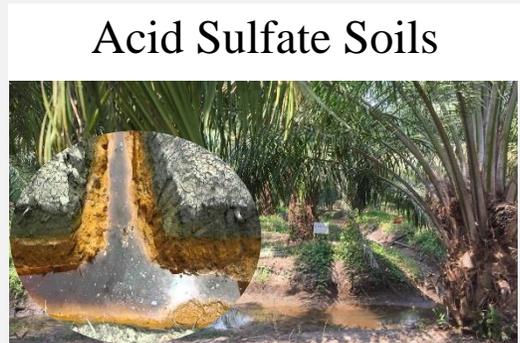
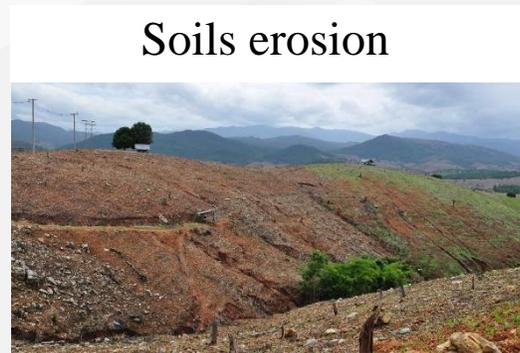
Low household income



Poverty and food insecurity



1. How is “Volunteer Soil Doctor” established? (Cont.)

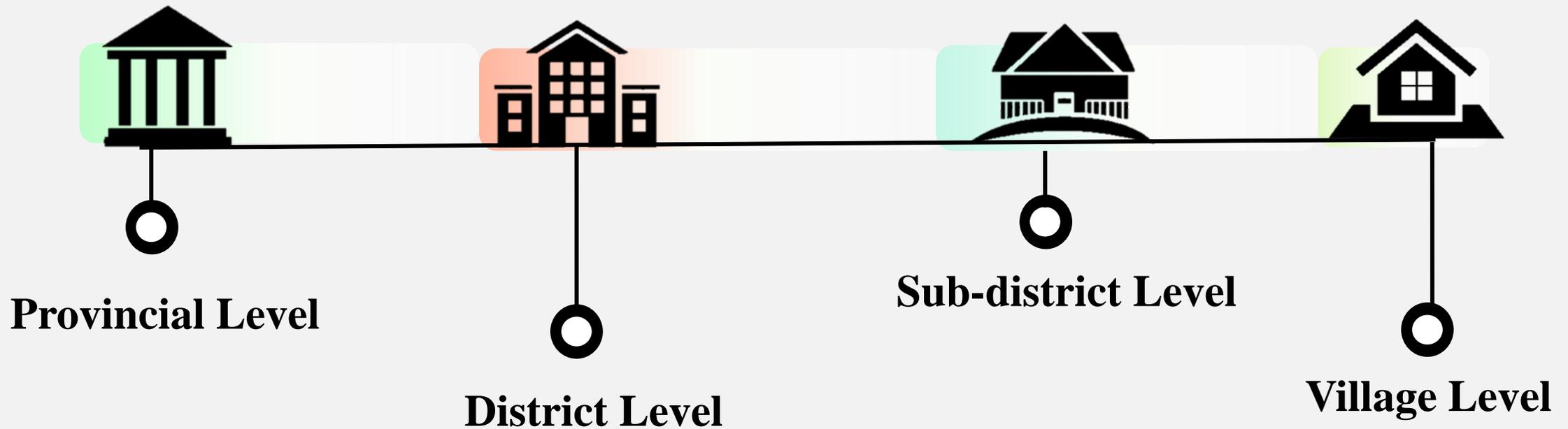


2. Status of Volunteer Soil Doctors at present



There are presently **77,676** Volunteer Soil Doctors working with LDD

Soil doctors are divided into 4 levels as follow



3. Who will be selected to be Volunteer Soil Doctors?

Farmers who are
in good health



20 +

At least 20 years of age

Who has leadership and live
in local areas of agriculture



Who is willing to learn/train on
sustainable soil management

Who is willing to work
with LDD staff

Who is willing to share
knowledge with other farmers
in the community

4. What are their mission?

Soil doctors received the knowledge and technology for land and agriculture management to improve their own land in a sustainable manner.



4. What are their mission? (cont.)

Soil doctors will transfer knowledge and technology to help other farmers in the communities manage the land and agriculture sustainability.



4. What are their mission? (Cont.)



Mobile Applications for soil
and land management



Demonstration of the basic plant nutrient
inspection to farmers with a LDD Soil test kit.



4. What are their mission? (Cont.)

Being extension service centers for information and technology transfer to other farmers through demonstration farms



4. What are their mission? (Cont.)

They are also entrusted to distribute to farmer agricultural materials such as lime, fertilizers, green manure, etc. to the community.

Promote the utilization of organic materials for soil improvement and bio-extract products.



Demonstration center of vetiver grass



6. What are their benefit and honor?

หมอดินอาสา
กรมพัฒนาที่ดิน

หน้าหลัก | ค้นหาข้อมูลหมอดินอาสา | แจ้งความรู้ด้านการพัฒนาที่ดิน | วัตถุประสงค์ที่ประสบความสำเร็จ | ดาวโหลด "โปสเตอร์" | ศูนย์ข้อมูลด้านการพัฒนาที่ดิน | หมอดินอาสาดีเด่น | กระดานโต้ตอบแลกเปลี่ยน | เฉพาะเจ้าหน้าที่ | สรุปจำนวนหมอดินอาสา

ค้นหาข้อมูลหมอดินอาสา

ถึงความรู้ด้านการพัฒนาที่ดิน

การอบรมหมอดินอาสา 4.0 ปี 2564

รายงานการอบรมหมอดินอาสา 4.0

ศูนย์ข้อมูลด้านการพัฒนาที่ดิน

หมอดินอาสาดีเด่น

กระดานโต้ตอบ/แลกเปลี่ยน

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เว็บไซต์บัตรดินดี

คลังข้อมูลดิน

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“Volunteer Soil Doctor” will be officially registered.

6. What are their benefit and honor? (Cont.)



Additional capacity building courses

6. What are their benefit and honor? (Cont.)



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“นายบรรจว แสงขมุข”
จังหวัดมหาสารคาม

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ในงานพระราชพิธี
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Volunteer Soil Doctor Award

6. What are their benefit and honor? (Cont.)

LDD provides both in kinds and in cash for some activities such as



❖ input for demonstration plots



❖ data gathering

6. What are their benefit and honor? (Cont.)

Volunteer soil doctors can develop their own products from the produces from their own land, resulting in additional income



7. Soil doctor roles on SSM and food security

Soil and water conservation

Soil doctors as producers of food

SSM practices are either discovered by farmers or developed in partnership between agricultural research and local people.



Source: Dr. Ngo Thanh Son, Vietnam 2022



Vetiver grass for soil erosion control and sediment traps



Crotalaria juncea as green manure for soil nutrient improvement



Land management

Soil doctors as land-owner

- The New Theory of land management is a production system based on Sufficiency Economy Philosophy where the land will be divided into 4 parts (reservoir, paddy rice, field crops and fruit trees, and residential area).
- Allowing farmers more self-reliant through a holistic management of the land, while living harmoniously with nature and within society

Soil doctors as a trainer: capacity building

- Training other farmers in the community to manage their land and successfully improve their livelihood.
- Becoming the focal points to associations involved in the program and work closely with government agencies and relevant organizations.
- Being the voice of the farmer in developing effective solutions to manage soils for sustainable production.
- Raising awareness, knowledge, and skills of other farmers for sustainable soil management.

A total of 2437 Land development learning centers



A total of 882 of Learning Center for Enhancement of Agricultural Production

Lessons learned/best practices in sustainable soil and land management

Scale out of sustainable soil management by soil doctors – a case study: Plook Hug Organic Farming network, Thailand

1. Strong collaboration boosts land productivity
2. Organic produces and market platform improve farmer's household income,
3. Increase farmers' awareness in SSM/SLM



Plook Hug Organic Farm

8. Way forward in the adoption of soil doctors program in LMC

- Strengthen collaboration among LMC agencies and between LMC and GSP.
- Developing the capacity building platform for more efficient distribution of the program
- Providing effective materials/solutions for narrowing the knowledge gaps among smallholder farmers
- Pilot cases to up scaling the program at the country level



Thank You



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