

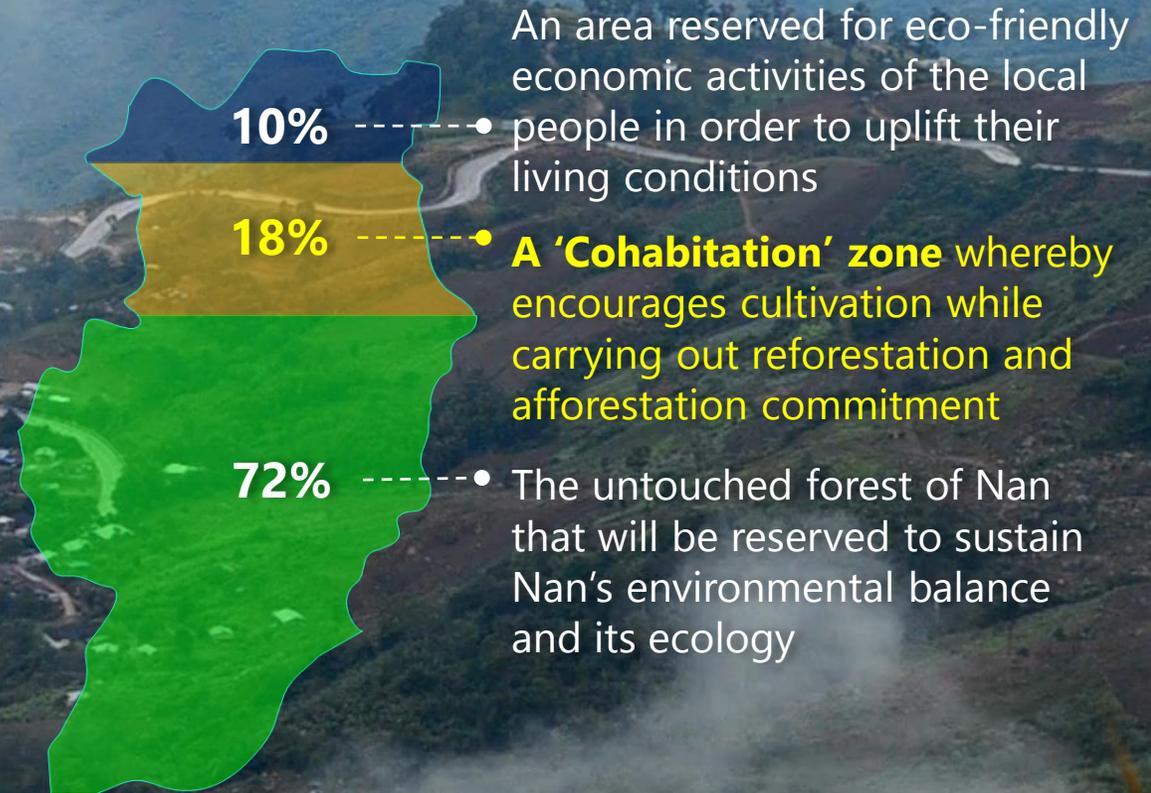
Nature-based Solution (NBS) allows cohabitation between humans and nature, restores Nan forest, and creates new economic opportunities for good health and well-being of the society

Nan Sandbox

Cohabitation of human and forest

- **Nan** is a Northern province of Thailand
- **7,436 KM²** (Approx. 85% of Nan Province) of Nan is a **preserved headwater forest that** contributes 40% of the waters that make up the Chao Phraya River.
- **Today, Nan has lost 28% of the preserved forest due to illegal agricultural expansion**

Hence, if we need to save the environment, we must also save the people who live within it



KAI has pledged to add value to the local wisdoms through commercialization and commoditization processes, thus creating highly marketable agricultural and healthcare products



Kasikornthai Foundation

ธนาคารกสิกรไทย
开泰银行 KASIKORNBANK



Moving from carbohydrate-based to high economic value of **Medicinal Plants** and new business opportunities



Agro-produce

- Local wisdoms
- Irrigation officers



Pharmaceutical active ingredients

- Packaging designers
- Marketing & distribution experts

Processed agricultural products

- Food & pharma specialists
- Manufacturing standards

Product Value



Uplifting agricultural and healthcare sectors—shifting from carbohydrate-based to high value **Medicinal Plants** to create new business opportunities

Turmeric

Thai: Kha-Minh

Treat stomach ulcers and inflammatory diseases



Andrographis paniculata

Thai: Fa Thalai Djonne

Anti-inflammatory, useful to fight respiratory infections

Artemisia Annu

Thai: โกรฐจุฬาลัมพา

One of the most potent remedies against Malaria



Medicinal Plants

Cissus Quadrangularis

Thai: Pet Sang Kart

Accelerate the healing of fractured bones



Centella Asiatica

Thai: Bow Bok

Brain tonic stimulates intelligence and memory



New E2E Cross-Sectoral Value Chain

To create Value Added from “Plants” to “Medicines” with Scientific Evidence



Plant Discovery

Nan medicinal plant wisdom and native medicinal plant discovery

Clinical Trials

Scientifically proven efficacy by schools of medicine with GCP

Pilot Extraction

From phytomass to high quality extract and with competitive extraction cost

Drug Development

Extract as Natural Active Pharmaceutical Ingredients (NAPI) to be formulated into nutraceutical, cosmeceutical, and ultimately pharmaceutical products

Pharma-agroforestry

From genetics and growing environment to high medicine-grade NAPI yield phytomass

Knowhow Transfer

Grow-Extract-Production knowhow commercialization to realize value added for Nan community



**First POC
Shade-grown Medicinal Plant**

'Nan Sandbox' is corresponding with 5 SDGs of the United Nations

1 NO POVERTY



Sustainable income to Solve poverty, the root Cause of deforestation

3 GOOD HEALTH AND WELL-BEING



Lessen no. of illness from water & soil pollution with medicinal grade plantation

5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



13 CLIMATE ACTION



Reforestation to increase CO2 absorption, prevent floods and droughts

15 LIFE ON LAND



Reforestation to rebalance the ecosystem of life on land

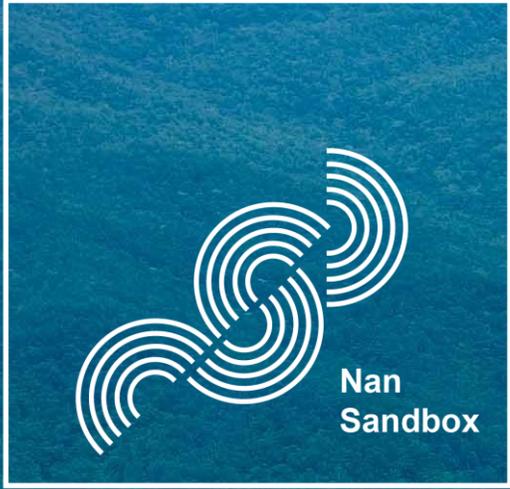
17 PARTNERSHIPS FOR THE GOALS



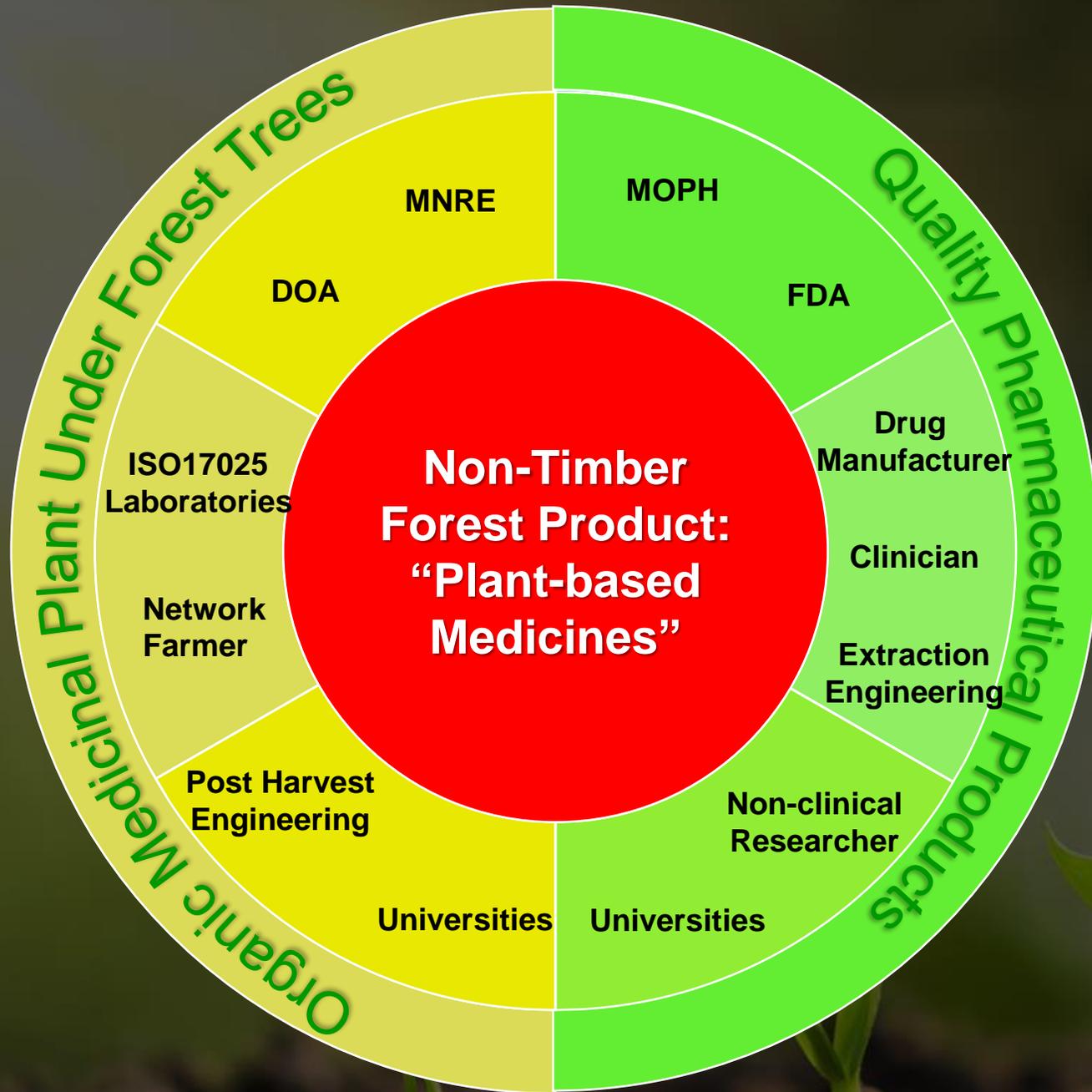
Uniquely combined

- Government agencies
- Academic Institutions
- Local communities
- Charities
- Private Enterprises

As one team



Nan One Health



To transform low-value deforesting corn into high-value Non-Timber Forest Products needs cross-sectoral collaboration

To achieve this, we must share

- Same passion
- Compatible speed
- Companion leadership
- Cheerful Respect