

Final Review Meeting

27.07.2023.

Crowne Plaza, Vientiane

Outputs of the 3rd Hungarian agriculture tied aid loan program



HUNGARIAN TIED AID LOAN FOR LAOS

**Development of the food chain
safety system in the Lao P.D.R**

Dr. Istvan Lenart
Project Manager

The background

- Vitafort Co.



- ✓ One of the leading companies in the Central European region and the Hungarian feed market (26%)
- ✓ Strong ties with the South East Asian region

- Vitafort Agro Asia Co.

- ✓ Implementer of the Hungarian Tied Aid Loan programs in Laos
- Permanent team in Laos
- ✓ Active in Laos since 2008



Basic principles during the tied aid loan programs

Value chain approach

Public Private Partnership (PPP)

Continued and coherent Hungarian support

Model character (demonstration / “showcase”)

Geographic scope of the program is the central and northern regions of Laos

Ultimate objectives

To provide **High quality and safe food** “*from the field to the table*”

Development of **food chain safety- and quality control system**

Development of “**Model**” systems that transfer knowledge and technology to the agriculture sector

Development of *rural livelihood and food security* in **selected regions**

Human resources development



The 3rd Hungarian tied aid loan program

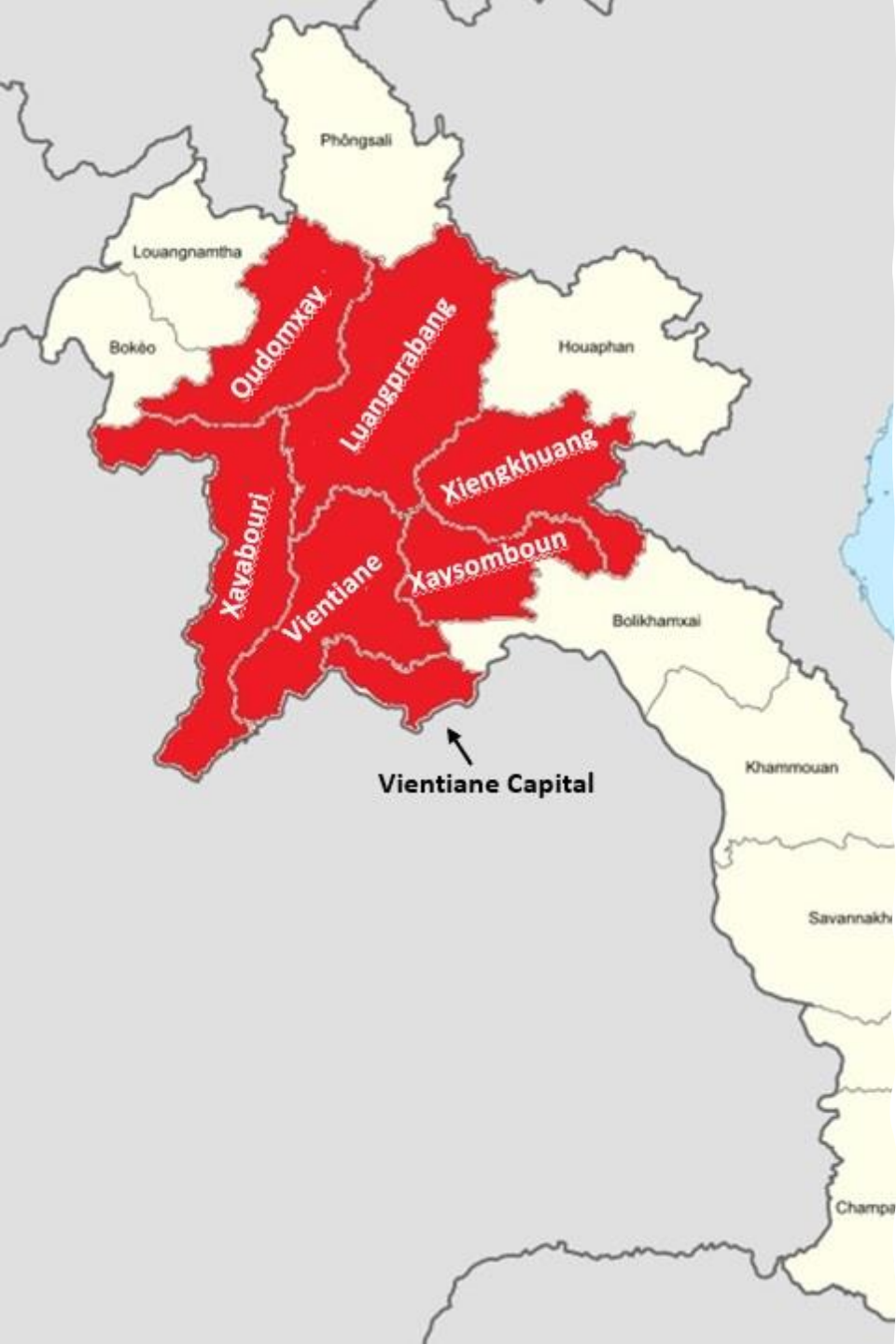
Title: „Agriculture Infrastructure Development in the Lao P.D.R.”

Time frame: 2019-2023

Budget: 35 million USD

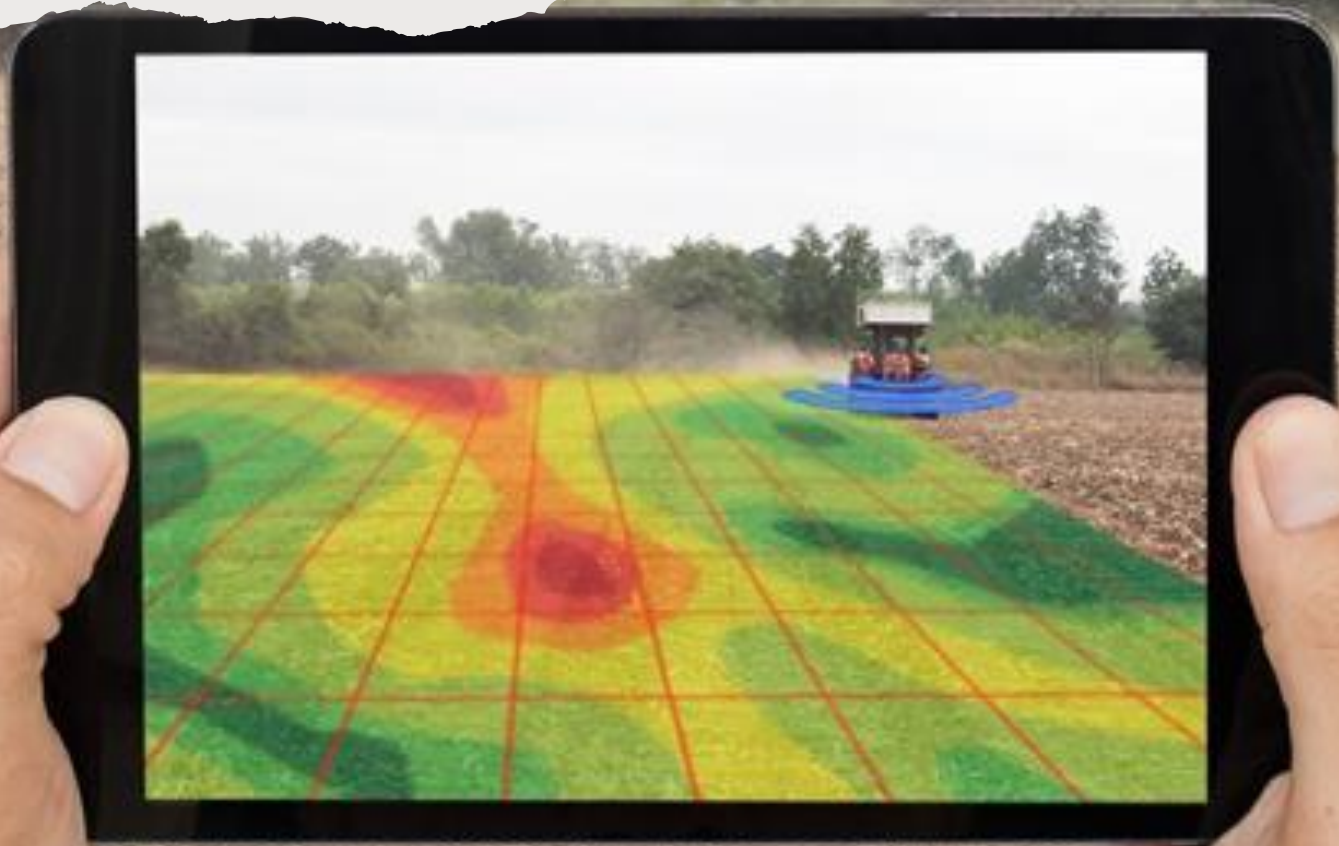
The eight main components of the program:

1. Soil management
2. Plant production
3. Water management
4. Cattle farming
5. Aquaculture and fisheries
6. Post-harvest technologies
7. Food chain safety system
8. Human resources development



Target regions

I. Soil management





I. Soil management

- Further improvement of **Soil Laboratory capacities** (started in TAL2)
- Creation of **Lao-Hungarian Soil Information Center**
- Development of detailed **soil map**
- Capacity building



Lao-Hungarian Soil Information Center

II. Crop production



A collage of various agricultural products including grains and legumes in burlap sacks. The image shows several sacks filled with different types of grains: yellow corn, white rice, a mix of small grains, and yellow soybeans. The sacks are arranged in a grid-like pattern, with some overlapping. The background is a dark, textured surface.

II. Crop production

- R&D and training capacity of PPC of DoA is strengthened
- Introduction of **Hungarian varieties** in Lao PDR: maize, soybean, sorghum
- institutional strengthening of Plant Protection Center (PPC), setting up **Lao-Hungarian Crop Training Center**
- **Farmer trainings** and capacity building



Lao- Hungarian Crop Training Center

III. Water management





III. Water management

- Setting up **modern agricultural irrigation system** in **11** locations
- Improvement of irrigation in **cattle model farms** in the target provinces
- Supplying sufficient water in the dry season for **3 organic fruit and vegetable farms**, improving their market positions
- Extensive **capacity building** by training programs, and printed leaflets
- In the developed irrigation farms, farmers can **see and learn how a small scale system should be built and how it should be operated**

IV. Cattle farming



IV. Cattle farming

1. **Genetic improvement of Lao cattle herd by Red Brahman crossbreed**
2. **Development of provincial cattle farm system**
3. **Improvement of Artificial Insemination capacities**
4. **Domestic and regional capacity building**



V. Aquaculture and Fisheries

Complex development of NAFDEC and LARReC: fish breeding, improvement of larvae and fingerling rearing technologies and institutions

Substantial development of Provincial fish hatcheries

Expansion of ADC as a key center in the development of high-quality seed supply

Creating Nongnok CBF hatchery

New fish hatchery in Nongnok



VI. Post-harvest technologies

Development of **provincial slaughterhouses** (Sayaboury, Luang Prabang, Oudomxay)

Extension of feed mill in Nambak (Luang Prabang), setting up soybean extruder

Erecting the **first industrialized fish processing plant of Laos** in Tha Ngon (Vientiane Province)

Creation of **orange processing plant** in Nambak (Luang Prabang)

**Nambak
feed mill
upgraded:
Storage
capacity
increased**



—

Nambak feed mill upgraded: Soybean extruder



Fish processing
plant built:
Tha Ngon,
Vientiane Province



**Fish processing
plant built:
Tha Ngon,
Vientiane Province**





Slaughterhouses:

Oudomxay

Sayabouri

Luang Prabang

Slaughterhouses:

Oudomxay

Sayabouri

Luang Prabang





Slaughterhouses:

Sayabouri

Oudomxay

Luang Prabang

Slaughterhouses:
Sayabouri
Oudomxay
Luang Prabang





Slaughterhouses:
Luang Prabang
SayabouriOudomxay

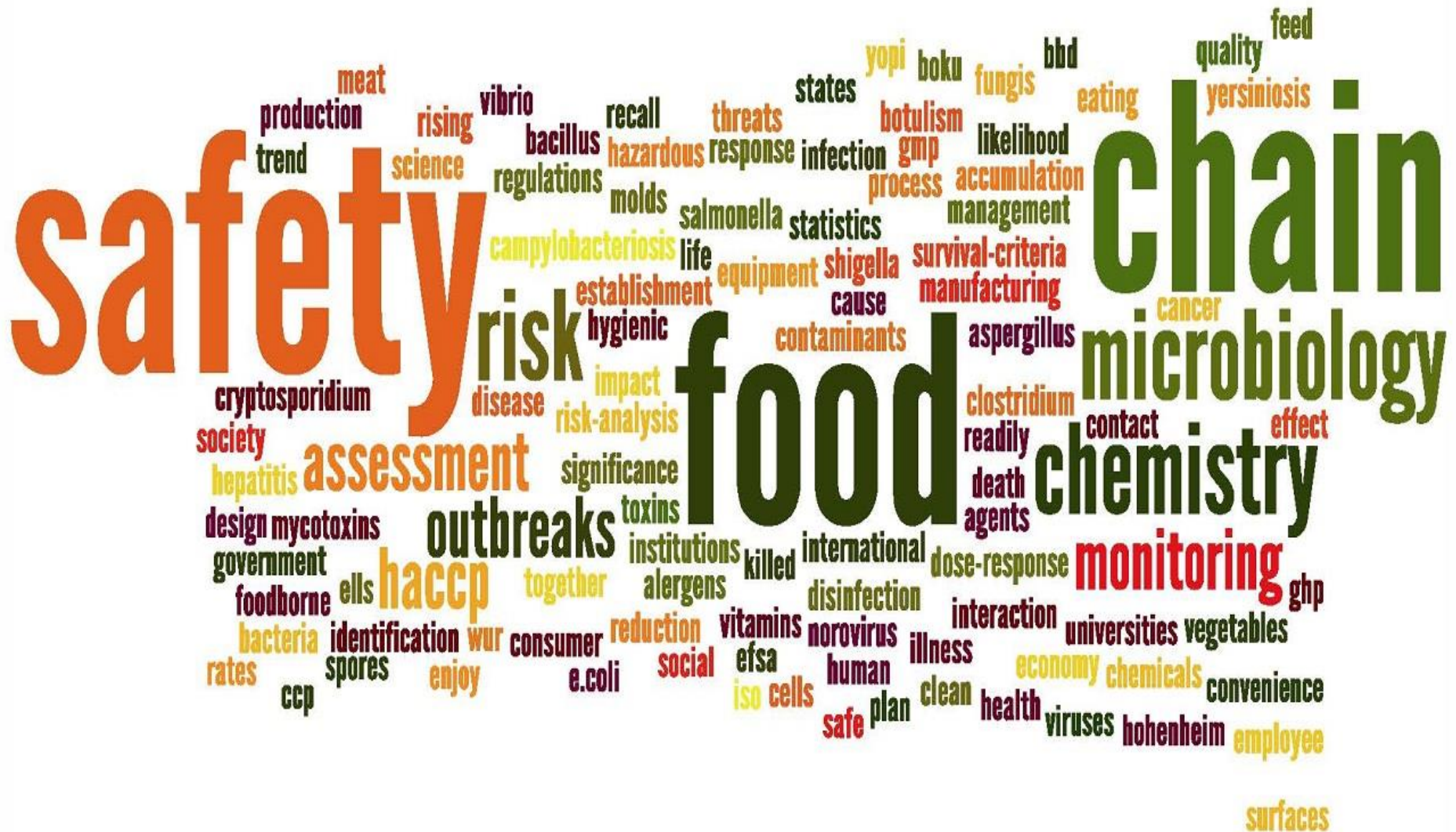
**Slaughterhouses:
Luang Prabang
*SayabouryOudomxay***



Orange
processing
factory:
Nambak,
Luang
Prabang



VII. Food chain safety



Legislation

1. Aquatic Animals and Fisheries law

- Amended law passed National Assembly on 17th July 2023

2. Approved regulation of Food Chain Safety System

- 02 Ministerial level documents: approved
- 14 Department level documents: approved

3. FCSS regulation: approved by DLF committee, ready to be submitted to concerned authority

- 09 Ministerial level documents: DLF approved
- 07 Dept. level documents: DLF approved

4. Regulation of FCSS: for consideration to continue in the future

- 03 Prime Minister level doc.'s: consideration
- 05 Ministerial level documents: consideration
- 04 Dept. level documents. consideration

Legislation

Topics:

- **Bans (slaughtering pregnant animals, use of by-products)**
- **Technical standards for meat (pork, beef, chicken, carp fish)**
- **Audit forms (cattle, buffalo, pig, chicken, sheep, duck, fish)**
- **Aquatic and Fishery law**
- **Terrestrial and Aquatic animal product quality label**
- **Processing management (animal, aquatic animal, animal feed, animal vaccine, artificial insemination, vet laboratory, animal breed)**
- **Import of unregistered animal feed**
- **GMP for primary product production (fishery, animal, feed, animal vaccine)**



Public awareness campaign

Offline campaign:
posters, leaflets
(5 priority themes; Lao
and English, 10.000 –
1.000 pcs)

Online campaign
social media

ພະຍາດສານໝູ ແຫຼ່ງທີ່ມາ

- 1 ສານໝູສູນໃນດິນ
- 2 ສານໝູສູນສາມາດເຫຼົ້າເປັນສານໝູທີ່ເປັນອັນຕະລາຍຕໍ່ສິ່ງມີຊີວິດ
- 3 ສານໝູສູນເປັນພື້ນຖານຖ່າຍໂພງ
- 4 ສານໝູສູນຖ່າຍໂພງເປັນພື້ນຖານຂອງພະຍາດສານໝູ

ອາການ

- ເປັນໂລຢາງແຂງ
- ເປັນໂລຢາງເປັນຊຸມ (ຮູ)
- ອາການອາດສາຍ
- ເສຍຊີວິດ

ວິທີການປ້ອງກັນ

- ຫ້າວຮຸກຮ້າງດິນ
- ຮ້າງດິນຊ້າໆ ແລະ ຊ້າໆ ທີ່ອາດມີ ສານໝູສູນ
- ຮ້າງດິນຊ້າໆ ແລະ ຊ້າໆ ທີ່ອາດມີ ສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ

ຂໍ້ແນະນຳກ່ຽວກັບ ຄວາມປອດໄພ ຂອງອາຫານ

ທຳຄວາມສະອາດ

- ກັບ
- ສະໜິດໄປ ທາງ ອາຫານທີ່ອຸ່ນຊື່ນ
- ສະໜິດໄປ ທາງ ອາຫານທີ່ອຸ່ນຊື່ນ

ແຍກຈັດຕຸດິບ

- ຈີນ
- ຈີນ
- ຈີນ

ຄວາມປອດໄພ ຂອງອາຫານ

ປຸງແຕ່ງອາຫານ ໃຫ້ສຸກດີໃນ ອຸນຫະພູມທີ່ເໝາະສົມ

ເກັບຮັກສາ ອາຫານໄວ້ໃນຕູ້ເຢັນ

ພະຍາດໃບໄມ້ໃນຕັບ ສັດຄ້ຽວເອື້ອງ ແຫຼ່ງທີ່ມາ

ສັດຄ້ຽວເອື້ອງໃນຕັບ ໂຕສ່ວນຂອງສັດຄ້ຽວເອື້ອງ ສາມາດເປັນ ຜູ້ໄພຖິງໃນຕັບ ແລະ ສັດໃນຕັບ

ໂຕສ່ວນຂອງສັດຄ້ຽວເອື້ອງ ຕາມຖິ່ນຖານທີ່ມີ

ຄົນໄດ້ປັບໂຕສ່ວນຂອງສັດຄ້ຽວເອື້ອງ ໂຕສ່ວນຂອງສັດຄ້ຽວເອື້ອງ ສາມາດເປັນ ຜູ້ໄພຖິງໃນຕັບ ແລະ ສັດໃນຕັບ

ໄດ້ຮຽນຮອງຮາດສາມາດຖ່າຍໂພງ ຂອງສັດຄ້ຽວເອື້ອງເປັນພື້ນຖານຂອງພະຍາດ ແລະ ອາດສາມາດເປັນພື້ນຖານຂອງພະຍາດ ແລະ ອາດສາມາດເປັນພື້ນຖານຂອງພະຍາດ

ອາການ

- ເປັນໂລຢາງແຂງ
- ເປັນໂລຢາງເປັນຊຸມ (ຮູ)
- ອາການອາດສາຍ
- ເສຍຊີວິດ

ການປ້ອງກັນ

- ຫ້າວຮຸກຮ້າງດິນ
- ຮ້າງດິນຊ້າໆ ແລະ ຊ້າໆ ທີ່ອາດມີ ສານໝູສູນ
- ຮ້າງດິນຊ້າໆ ແລະ ຊ້າໆ ທີ່ອາດມີ ສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ

ພະຍາດລີ້ຊີ້ ພະຍາດລີ້ຊີ້ - ເປັນແມ່ກຳຜາທີ່ມີຂະໜາດນ້ອຍ ທີ່ບໍ່ສາມາດເບິ່ງເຫັນດ້ວຍຕາເປົ່າ

ແຫຼ່ງທີ່ມາ

ພະຍາດທີ່ໄຫຼຢູ່ໃນລະບົບໄຟຟ້າໃນຊີວິດ ການຊີວິດຂອງສັດ ສັດອື່ນ ລວມທັງຄົນ

ພະຍາດທີ່ໄຫຼຢູ່ໃນລະບົບໄຟຟ້າໃນຊີວິດ ການຊີວິດຂອງສັດ ສັດອື່ນ ລວມທັງຄົນ

ພະຍາດທີ່ໄຫຼຢູ່ໃນລະບົບໄຟຟ້າໃນຊີວິດ ການຊີວິດຂອງສັດ ສັດອື່ນ ລວມທັງຄົນ

ອາການ

ເຈັບທ້ອງ, ຖອກທ້ອງ, ຮາກ

ມີໄຂ້ສູງ

ເສຍຊີວິດ

ຕາແດງ ແລະ ຕາເມັດ

ການປ້ອງກັນ

- ຫ້າວຮຸກຮ້າງດິນ ແລະ ສັດທີ່ເປັນພື້ນຖານຂອງພະຍາດ
- ຖິ່ນຖານທີ່ອາດມີສານໝູສູນ
- ເລືອກຊີ້ນທີ່ຖືກປັບໂຕສ່ວນຂອງສັດ ແລະ ປັບໂຕສ່ວນຂອງສັດ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ

ພະຍາດໄຂ້ເລືອດດຳ

ແຫຼ່ງທີ່ມາ

ສັດທີ່ເປັນພື້ນຖານຂອງພະຍາດ

ສັດທີ່ເປັນພື້ນຖານຂອງພະຍາດ

ສັດທີ່ເປັນພື້ນຖານຂອງພະຍາດ

ອາການ

- ເປັນໂລຢາງແຂງ
- ເປັນໂລຢາງເປັນຊຸມ (ຮູ)
- ອາການອາດສາຍ
- ເສຍຊີວິດ

ການປ້ອງກັນ

- ຫ້າວຮຸກຮ້າງດິນ
- ຮ້າງດິນຊ້າໆ ແລະ ຊ້າໆ ທີ່ອາດມີ ສານໝູສູນ
- ຮ້າງດິນຊ້າໆ ແລະ ຊ້າໆ ທີ່ອາດມີ ສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ
- ຫ້າວຮຸກຮ້າງສິ່ງທີ່ອາດມີສານໝູສູນ

Public awareness campaign
OFFLINE



Create with avatar

Edit cover photo



ອາຫານປອດໄພ

1.8K likes • 1.9K followers



Advertise Manage Edit

Public awareness campaign - ONLINE

Online FCSS database

Establishment registration (appr.
2.000)

07 target provinces

Serves as a basis of future FCSS
management

To be maintained continuously

To be expanded to further
provinces

Quality label

Elaborated for **03 product categories**: pork, beef, fish

Standard and premium versions

Regulated by **DLF** via **ministerial decree** (drafted), Annex

Quality label

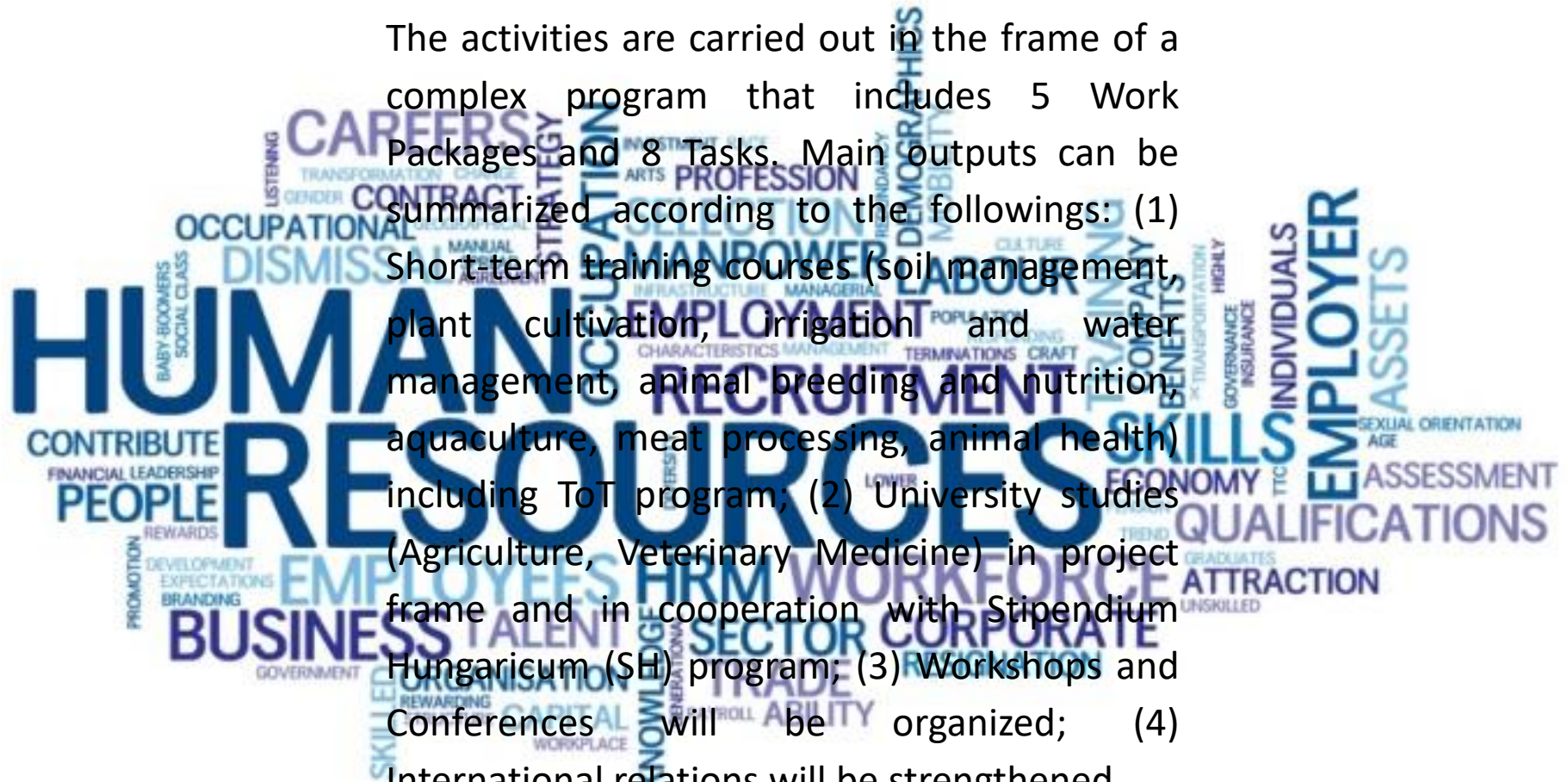


Quality label



VIII. Human resources development

The activities are carried out in the frame of a complex program that includes 5 Work Packages and 8 Tasks. Main outputs can be summarized according to the followings: (1) Short-term training courses (soil management, plant cultivation, irrigation and water management, animal breeding and nutrition, aquaculture, meat processing, animal health) including ToT program; (2) University studies (Agriculture, Veterinary Medicine) in project frame and in cooperation with Stipendium Hungaricum (SH) program; (3) Workshops and Conferences will be organized; (4) International relations will be strengthened.



Human Resources Development

Short-term training including
ToT programs

University studies (05 BA, 132
MA, 06 PhD)

Regional trainings (Thailand,
Vietnam)

Online educational platform

Soil

Crop

Water

Cattle

Aqua-
cultur
e

FCS

NUoL-MATE cooperation
strengthened



Laos – Hungary Auditorium

NUoL, Nabong



Conclusions

Concise improvement of the Lao food chain safety system (legislation, quality assurance, value chain)

Public awareness raised, both professionals and general public were **sensitized** for food safety

Concise development of the **national fish hatchery system** and **provincial slaughterhouses** (pig, cattle, buffalo)

Exportable, high-quality, safe fish, beef and other „Made in Laos” products.

Significant capacity building (BSc, MsSc, PhD programs, domestic and regional trainings)

The TAL3 program successfully consolidated and **further strengthened the results** of the TAL1-TAL2 programs

—

**Thank you for
your attention!**
ຂອບໃຈ!
Köszönöm!



Vitaflo
Agro A