

#### What is LANN?

- Acronym for <u>Linking Agriculture</u>, <u>Natural Resource</u>
   Management and <u>Nutrition</u>
- LANN is developed as a community based approach to nutrition for upland minority communities
- Coalition of 9 INGO projects from Agrisud, CARE, CCL, CRWRC, GAA/WWH, Helvetas implementing same village training approach (in cooperation with WCS)
- Joint approach includes implementation and monitoring of activities in a spirit of partnership and shared responsibilities.











### Objective of LANN

Improve food security among the poorest by facilitating the development of food and nutritional strategies at the household and community level



### Food Security is ...

... more than rice security

Food security is achieved, when adequate food (quantity, quality, safety, socio-cultural acceptability) is available and accessible and satisfactorily used and utilized by all individuals in all regions, at all times to live a healthy and active life.

World Food Summit 2001





#### Target areas of LANN

4 Provinces

Odoumxay, Phongsaly, Xieng Khouang, Sekong

13 Districts  Nga, La, Namor, Xay, Gnot Ou, Khua, Mai, Khoun, Kham, Nonghet, Viengkham, Dakcheung, Lammam

236 villages about 10-30 villages per INGO project (year 1)

12 ethnic groups

LANN has also been implemented in Cambodia

#### Inputs and outputs of LANN

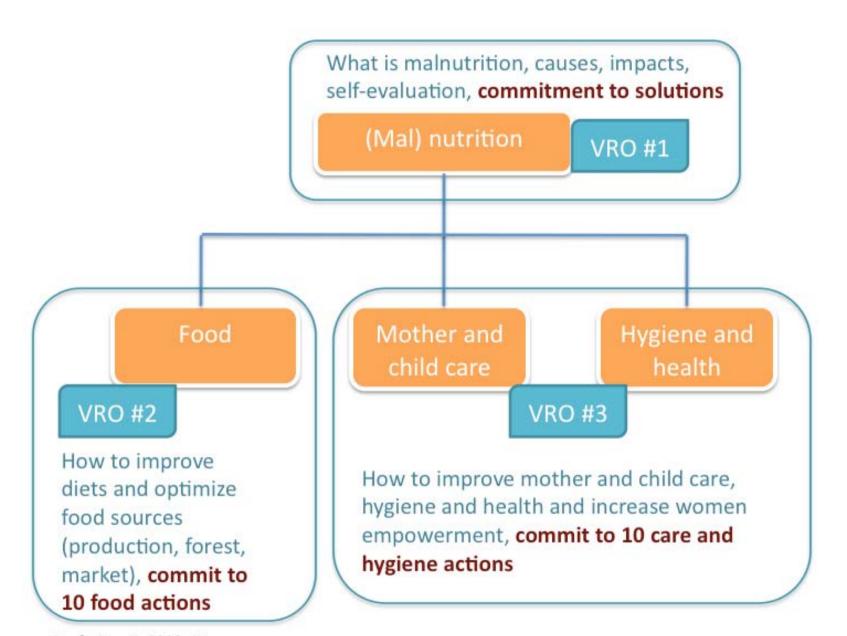
**Inputs:** Cooperation on contracting

 International and local consultant for concept, design, training of trainers and remote trouble shooting

Output: Signatory partners of LANN MoU will have

 Completed training approach and training toolkit, knowledgeable trainers, lesson learned

#### Overview of LANN village trainings # 1-3



### Training process

• TOT 1 (5 days): incl. field test

Village trainings round 1 by INGO

Village trainings round 2 by INGO

• TOT 2 (5 days): incl. field test

• TOT3 (5 days): incl. field test

Village trainings round 3 by INGO

Building on self-assessment findings

#### Outcome of LANN



Participants in LANN village nutrition trainings will

- 1) understand their family nutrition problems in practical terms (self-assessment)
- 2) take appropriate action to address them (e.g. at the cooking pot, agricultural production, natural resource management, hygiene, mother and child care)

#### Time line of LANN

- November 2009: founded
- January March 2010: TOT 1 and village roll outs
- March May 2010: TOT2 and village roll outs
- June July 2010: TOT3 and village roll outs
- After August 2010
  - Technical "lesson learned workshop" (EC/GoL)
  - Sharing LANN training tool-kit (LAOFAB and Lao44)
  - Scale-up



#### Strength of LANN

- Training total of 40 staff (INGO, GOL) from different backgrounds (agriculture, health, gender, etc)
- Each INGO can adapt village training tool kit to local situation (language, culture) and trainer capacity
- Innovative and effective tools for village roll-out
- Robust lesson learned from joint M&E (more than 200v)
- Cost-effective
- Linking behaviour change at cooking pot with food production, NRM and food purchase

### Linking agriculture, NRM and nutrition



#### LANN opens opportunities and encourages

1) production of nutritive plants, 2) managing wild animals and plants, 3) informed food choices at market and increased savings

# Example of village activities

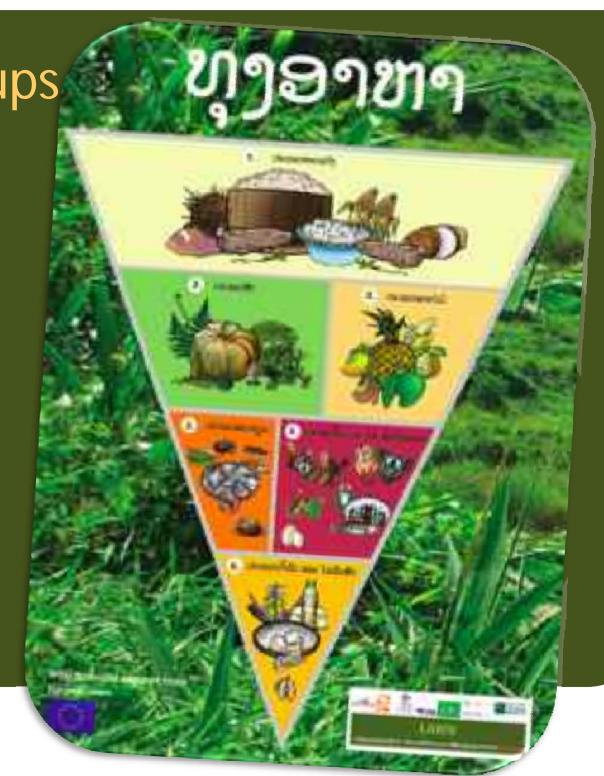


Six food groups

per day

and

8-10 glass of water (21)



## Have diversity within food group

- Diversity in foods increases the chance the get enough from all nutrients
- Example vegetables: fern is rich in beta carotene, mushrooms are rich in iron
- Example staples: rice is missing one amino acid which is found in corn
- Example fruits: mango is rich in beta carotene, guava is rich in Vitamin C



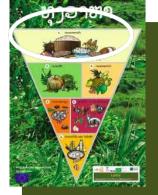






### How much of what per person per day

- By eating a certain amount of food from each food group your body will get all the nutrients needed
- Examples:
  - Eating 700g of rice (cooked) you will likely to get enough energy (calories)
  - Eating 200g of fruits you will likely to get enough Vit C (if your fruit intake is diverse and you also eat enough vegetables)



# 1. Staples



or



700g of cooked rice



#### Food substitution: rice

For energy intake 700g rice (cooked) is equal to



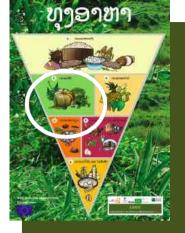
Corn: 2kg (cooked with cob)



1.2kg (raw without skin)
Or







## 2. Vegetables

leafy vegetables + non-leafy





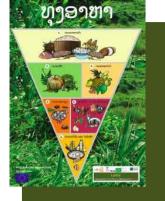


#### 3. Fruits



100 - 200g or 4 portions





# 4. Meats, fish, eggs, plant alternatives



or



57g protein per cap/day, female, 20 years

100-200 g total raw



#### Food substitution: domestic meat/fish/eggs

200g of meat or fish with 40 g protein is equal to

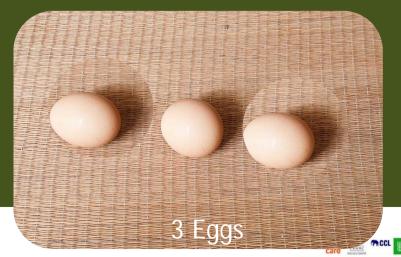


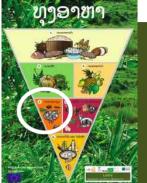
Peanuts: 130 g



or





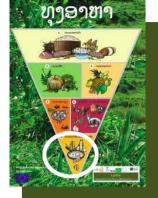


# 5. Ca-rich (bone-building) foods



2 spoons of small bony fish or insects





# 6. Oil/fats





#### Food substitution: Vegetable oil or lard

30g of soybean or peanut oil (fat) is equal to









or





#### Combining food groups

Nutrients work best in pair (hand-in hand)

- Green leafy vegetables, fat
- Green leafy vegetables, lemon
- Staples, beans, seeds

Adverse impacts from foods

- High phytate intake
- Sweets can destroy nutrients

# Example: getting 6 food groups even on a lean day

- What to do if you have no fresh food available or just left-overs (cold rice and nothing else)?
- Be prepared for such days (always have dried or fermented foods available)
- Use rice water (soaking) and make soup (nutritional superior to just rice with cheo)
- Example for quick and easy dish with few ingredients:
   Fry left-over rice with corn or other roots/tubers, add fresh herb, add peanut or insects

#### Available resources



#### **LANN** opens opportunities and encourages

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# Ranking food sources: produced, purchased, and wild



# Food availability calendar



# Food availability calendar



## Food availability calendar



