Insects in Thailand and South-East Asia

A potential to build and develop

Nathan Preteseille
Where
- Thailand and SEA
- Europe

What
- Insects as Feed and Food
- Potential and barriers

Who
- Industry
- Research
- Regulation

Why
- Historically leader
- «Development Possibilities» leader

Context

• Thailand and SEA
• Europe
• Insects as Feed and Food
• Potential and barriers
• Industry
• Research
• Regulation
• Historically leader
• «Development Possibilities» leader
POTENTIAL-insects as feed
I. Insects as Feed and Aquaculture

- Aquaculture: South-East Asia is and will be *the place to be!*
1. Insects as Feed and Aquaculture

- Aquaculture: South-East Asia is and will be the place to be!
- Where do insects have a role in Aquaculture?

Fishes harvested in the Ocean → Fishmeal for carnivorous fishes and shrimps → Aquaculture, (poultry, pet) feed
Insects → Fishmeal for carnivorous fishes and shrimps → Aquaculture, (poultry, pet) feed
Illegal fishing worth $600m in the Pacific amounts to ‘daylight robbery’

Calls for better policing of the industry as report finds licensed fishing vessels are responsible for majority of the illegal catch.
II- Insects as Feed- Industry

- State in SEA
II- Insects as Feed - Industry

The « PARADOX »
II- Insects as Feed- Industry

- The « Barrier-loop »

- Need of more production
- No support to Research and Development.
- Need of more research
- Unknown resource not accepted
- Little production not accepted
- Need of fishmeal replacer

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POTENTIAL - insects as food
II. Insects as Food

- Nationwide but sparse consumption, crickets mainly consumed
II. Insects as Food

- Nationwide but sparse consumption, crickets mainly consumed
- A simple processing way.

![Image of insects as food]

*bugsolutely*
II. Insects as Food

- Nationwide but sparse consumption, crickets mainly consumed
- A simple processing way.
- Leader in the region with organized production, Lao PDR starting
- A source of solutions:

- Poverty
- Drought
- Food security
- International presence
II- Insects as Food- Industry

- State in Thailand

Regulation

- Farmers (GAP)
- Collectors
- Processors (GMP, HACCP)
- Customers

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II- Insects as Food- Industry

- Next step: Optimization: Example: the logistic aspect
II- Insects as Food- Industry

2. Do you like the idea of using insects as ...

... Entire insects for food

... Food made with insects powder.

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III. Research and Education

Research
III. Research and Education

Research

Education
III. Research and Education

Research

Education

Production

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III. Research and Education

Research

Education

Production

MARTKET
Presentation

Biochemistry and Food engineer, working for **bugsolutely**

The producer of Cricket Pasta, the only pasta with 20% cricket flour.

Employed by **Aets Opave** French consulting company, through its Rural Development, Food and Nutrition Department.
THANK YOU
and
Welcome at BUGSOLUTELY’s booth on friday on the vendor’s expo!