

SMARTAGRO

SUSTAINABLE INNOVATIONS

increased profits * enhanced resilience * reduced emissions



Management Team Cambodia



Marc Eberle

CEO, Founder

Award winning documentary film producer & director with 20 years experience in development across Asia. MA in Film & TV. Studies of agro-ecology at SupAgro Montpellier.



Sovanda Son

Project Manager

MSc in Sustainable Agriculture with 7 years experience in R&D in agro-ecological practices with a passion for impact that achieves economic benefits for farmers and increases environmental health.



Pisak San

Field Technician

BSc in Agronomy, AgroStudies exchange program in Israel. With 4 years experience in Sustainable Agriculture. Focus on Horticulture, agronomy, fruit tree farming and plant protection.



Vichet Lay

Media & Communications

BSc in Agronomy, with focus on E-learning platform management. Passion in graphic design and media production for video and online platforms.



Soklin Kheam

Field Technician

BSc in Agronomy with special focus on soil science. Past experiences at Center of Excellence on Sustainable Agricultural Intensification and Nutrition.



Mission

SmartAgro seeks to implement and scale-up agroecological practices in order to change the paradigm of how we add long term value to people, smallholder communities and the ecosystem in the farming industry and reward regenerative practices for a transition towards a nature-positive agriculture.



Smart Agro at a glance

Backed-up by extensive work in Conservation Agriculture conducted by the General Directorate of Agriculture (GDA/DALRM) and CIRAD over the last 15 years

- Technical expertise to scale-up Sustainable Intensification & CA
- Supplier of cover and relay crops produced with farmer networks
- Supplier of high quality Bio pesticides and Bio feed additives

Bananas, papayas,
panicum, designed
& implemented
by Hoa Tran Quoc

1. Technical Assistance



2. Cover crop seeds & Forage seeds



Products for Regeneration: Healthy Ecology = Best Economy



3. Cropping System Design



4. Bioproducts & Livestock integration

Our designs achieve a triple win:

- increased production/ profits
- enhanced resilience
- reduced emissions



We increase resources in the soil instead of extracting them:

- continuous input of Carbon
- feeding soil biota
- improved water holding capacity
- improved nutrient cycling
- reduced fertilizer inputs

Maize on biopump seedmix.
No weeds.

Climate-smart perennial systems



Black pepper &
Arachis repens



Mango & sunn hemp



Durian & stylo, sunn hemp, sorghum

- Soil protected
- N supply
- Integrated pest management
- Integrated soil fertility management



Rubber & stylosanthes guianensis

Farmer Field Schools + Training of Trainers



- Trainings in 8 provinces
- 2019–20: 1,500 farmers and extension services trained

- 50 demo plots
- 8 provinces

Google Earth

US Dept of State Geographer
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Products: Seed mixes

SMARTAGRO

9 species blended
in custom-made seed mixes
for specific contexts.

គ្រាប់ពូជដំណាំ
Cover
ធនាគារ
សម្រាប់ដំណាំ
Wodder Crop Seed
Produced in Cambodia

Cover crops & forage seeds



Butterfly Pea
Centrosema pascurum

SMARTAGRO



ស្រូវចំណីគោ ម៉ូឡាតូ ២
1 គ.ក = 20.5 ដុល្លា



ស្រូវចំណីគោ រូស្សី
1 គ.ក = 13 ដុល្លា



ស្រូវចំណីគោ ម៉ឺណាសា
1 គ.ក = 18.5 ដុល្លា

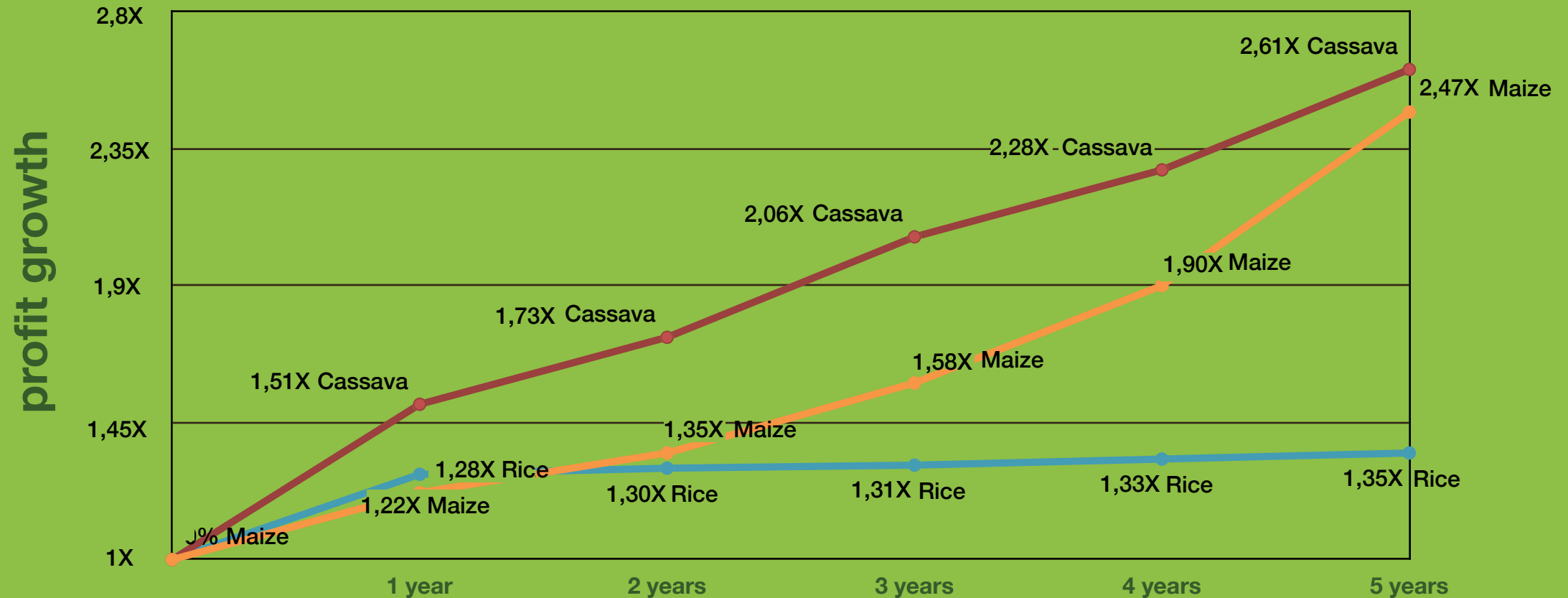


ស្រូវចំណីគោ ប៉ាស្ការ៉ូឡូម
1 គ.ក = 16.5 ដុល្លា



ស្រូវចំណីគោ ស៊ីឡូ
1 គ.ក = 11.5 ដុល្លា

Increase in farmers' profits already in the first year after adoption of no-till with cover crops



Reducing production costs while increasing yields

Products: Organic inputs for crop production



■ **NATURAL GROWTH:** A natural “broad spectrum” foliar agent. Boosts plant health & growth, resilience against fungi, insects, drought or flood. Increases yields and saves production costs for fertilizers and pesticides. Made in Germany.



■ **BIO HUM:** is a humic acid rich in activated organic matter. Increases fertility of plants and soils. Recovers plants in stress (drought and flood) and physiological disorders caused by pesticides. Controls nematodes, Fusarium and other soil diseases. Can hold mass 20 times its size and is very good for nutrient and water retention in the soil and very effective against drought. Made in Brazil.



■ **BIO FULL:** foliar fulvic acid fertilizer that acts directly on the plant’s metabolism. Stimulates cell division and plant growth. Increases chlorophyll biosynthesis, drought tolerance and yield. Enables the immediate absorption of any input whether organic or chemical, and works as protection against losses due to rain. **BioFull** reduces the use of chemicals by up to 50% during the first application and later allows replacing chemicals step by step and is an excellent cost saver. Replaces mineral adhesives, orange oil, and adjuvants – all in one product. Made in Brazil.

Products: Organic inputs for crop production



■ **DRYOUT:** Is a natural herbicide that kills any weeds without containing any harmful chemicals. Bees and insects are not affected by its use and residues in plants and soils pose no danger to health.



■ **BIO-INSECTICIDE:** Is based on activated plant proteins that enhance metabolic processes and increase immune defense of plants against environmental and pathological stresses. Particularly effective for crops affected by nematodes.



■ **ADS:** Is an emulsion of vegetal oil that enhances and multiplies effects of other products.

- Reduces amount of inputs needed by 30–50%. Works both with chemicals and organic products.
- Ensures effectiveness of products even shortly before or after rainfall.

Products: Organic inputs for livestock production & food preservation



■ **BIO FEED ADDITIVE:** For cattle, pigs, poultry, sheep, goats, horses and pets. Saves costs for feed, antibiotics and vaccinations. Improves health & feed conversion. Prevents diseases. Lowers mortality. Better fattening. Improves quality of meat, dairy and eggs. Made in Germany.



■ **CITROSEM:** Antioxidant food preservative. Allows to produce safe and chemical-free food. Produces higher quality at lower cost. Inhibits bacterial growth. Prevents rancidity and natural degradation. Maintains colour, flavour, odour, shine and texture of the food product. Made in Brazil.



Organic crop protection and yield increase

With Natural Growth

Without Natural Growth



+20%

Bio Feed additive for Livestock

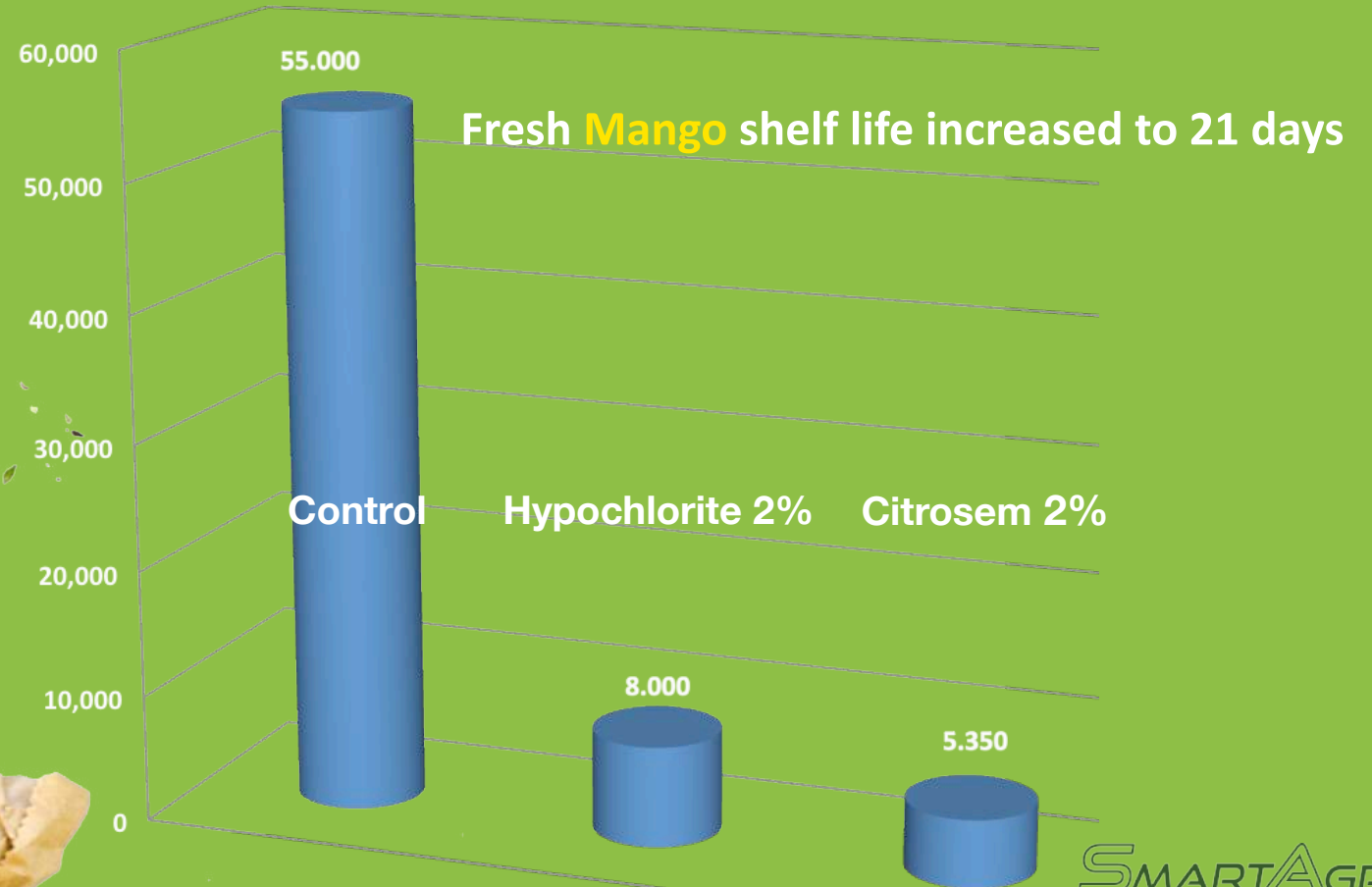
- Saves costs for feed, antibiotics and vaccinations.
- Improves health & feed conversion
- Prevents diseases
- Lowers mortality
- Increases Growth
- Improves quality of meat, dairy and eggs



Reducing post-harvest food loss

Washing fruit & vegetables with **Citrosem**

At 2% concentration **Citrosem** is more effective than Hypochlorite at reducing the bacterial count.



Products:



ZOO LINE

The use of **EVS-AZ** and **Citrosem Tz** enhances the animal's metabolism, biologically stimulates the animal's defenses and promotes animal welfare. Both products are used as a preventive action. **Eliminates need for antibiotics and vaccinations!**

Can prevent diseases such as bird flu (Avian influenza, H1N5 & H5N5), foot-and-mouth disease, Texas cattle fever, Hull disease, mastitis, brucellosis, tuberculosis, leptospirosis, clostridiosis.

Animals fatten faster and produce higher quality of meat, milk and eggs. Animals are less stressed and aggressive, exude less odour, attract less flies on herds, and produce better quality manure.

■ EVS-AZ

A blend of activated clay that is mixed into animal feed. The effects are immediately recognizable in the capacity and speed of fattening of the animals. Increases quality of meat and milk and its derivatives. Moreover, **EVS-AZ** naturally increases immune system resistance of animals, stimulates and promotes their natural defenses and creates greater biochemical balance and relieves animal stress. Lowers mortality.

■ EVS-CITROSEM Tz

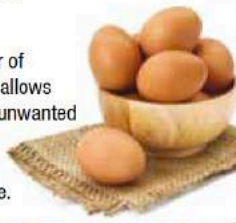
A bacteriostatic antioxidant for livestock. By its stabilizing action it increases the nutritional value of food and inhibits the formation of harmful pathogens. Regulates functional balance and highly effective to reduce toxins.

■ EVS-MIX T

Composite rich in nutrients immediately bio-available, strengthens immune defense and aids in the treatment of infestations, inflammations and infections. **Mix T** acts as a revitalizing product for animals under physiological and nutritional stress. Promotes nutritional balance by strengthening the animal's immune system. Controls parasites, diarrhea and anemias.

■ EVS - KOM U100

A highly effective catalyst and stabilizer of organic matter based on enzymes that allows better absorption of nutrients avoiding unwanted reactions like odors and gases. Effectively reduces Methane and Carbon emissions released into the atmosphere.



AGRO LINE

■ NATURAL GROWTH:

A natural "broad-spectrum" foliage plant aid with an application rate of 9kg / ha. Stimulates the plant's metabolism and promotes diverse processes such as cell formation and flowering. Optimizes nutrient uptake, boosts plant growth, resilience against fungi and insects, increases yields.

Creates a healthy relationship between root growth and shoot growth, which increases resistance to stress by drought or flood. Particularly in fruit and vegetable production, better-shaped fruit is produced with better aromas and higher nutrient content.

■ VITALITY DIP:

A plant aid inoculant that is coated on seeds prior to planting with an application rate of 500ml liquid mixed with 200g Vitality dip on 100kg seeds. Optimizes germination, nutrient uptake of N and P, boosts growth and resistance to pests. Increases yields for very low cost.



■ EVS-KOM 400, EVS-KOM 400 MO

Enhances the decomposition of organic matter, straw and residues and provides a rapid deodorization. Treated organic matter (cattle manure, chicken litter, etc.) can be scattered in the field after 30 days. Allows reducing the use of manure by 50%, and achieves better results due to the higher availability of nutrients for the plants. High quality humus and organic N at very low cost. No leaching. Can be applied both on crop residues and on compost.

■ EVS-HL

A compound rich in activated organic matter that increases the fertility of plants and soils. It boosts the growth of plants, roots and fruits, promotes delayed vegetative recovery, recovers crops in stress (drought and flood) and physiological disorders caused by pesticides. It promotes the natural formation of amino acids, makes plants more resistant to stress and generates higher nutrient content in crops. It can be applied during planting, vegetative development, flowering, and ripening of fruit.



■ EVS-EP4

Consists of activated clays (silicates) that are absorbed within 2 hours and work as bio-fungicide. **EP4** catalyzes the formation of chlorophyll and encourages the formation of auxins. It can be applied preventively alone, or together with other fungicides. In combination with others it will reduce the amount needed and works as an enhancer of their effects. **EP4** is a very efficient product during flowering, and can also be used to stimulate off-season flowering.

■ EVS-S Flow

Is an elemental sulfur in micro-particle form and as foliar spray easily absorbed by plants. **S Flow** is an essential nutrient for protein formation while also working as a bio-fungicide and insecticide. It reduces the use of other plant protection products and promotes nutritional balance. Can be applied alone or in combination with other compatible products. Can be used to treat soils or plants in developmental stages or to stimulate the plant's metabolism.

■ EVS-CaOMO Flow

A foliar liquid with a high concentration of bio-available calcium. In addition to calcium, it also provides stabilized organic matter that stimulates the plant's metabolism enhancing growth and fruit production.

■ EVS-K₂OMO Flow

Provides a high bio-available concentration of Potassium. Comes in micro-particle form that allows easy application. Its unique added value provides stabilized organic matter stimulating the plant's metabolism for better production.

■ EVS-MnMO Flow

Liquid bio-available micro particles of Manganese easy-to-apply as foliar spray. Furthermore, provides stabilized organic matter that facilitates the metabolism of the plant, encouraging production.

■ EVS-Ty10

A bio-insecticide based on activated plant proteins that enhance metabolic processes and increase spontaneous immune defense against environmental and pathological stresses. Particularly effective for crops affected by nematodes.

■ EVS-ADS

An emulsion of vegetal oil that enhances and multiplies effects of other products.

- Reduces amount of chemicals needed.
- Ensures effectiveness of products even shortly before or after rainfall.

SMART-AGRO.NET

Partners:



TA:





Thank you!