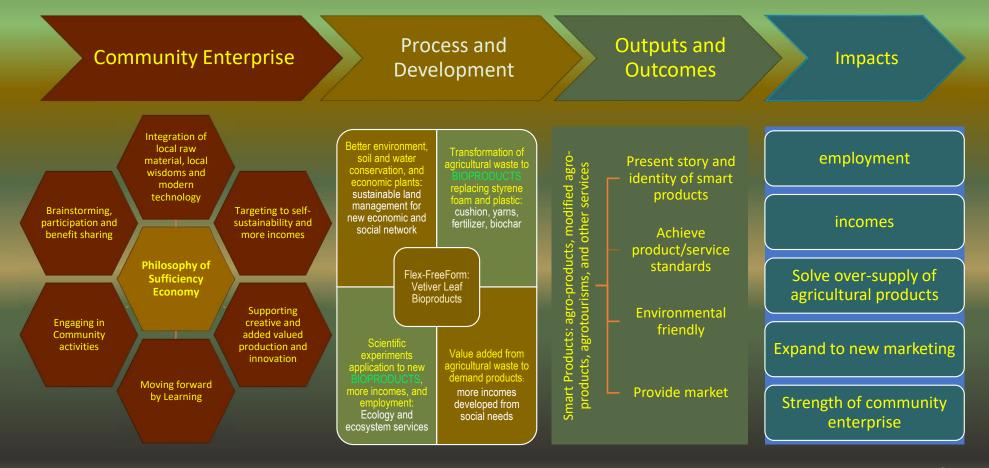
THE SEVENTH INTERNATIONAL CONFERENCE ON VETIVER (ICV-7)

Sufficiency Economy-Based Mango Value Added Through Vetiver Grass Cultivation of Smallholder Farming

Dr. Kallaya Suntornvongsagul 张赛金

Risk and Disaster Management Program, Graduate School, and Environmental Research Institute of Chulalongkorn University, 10330. aurorasunt@yahoo.com

FlexFreeForm: Added Values through Vetiver Grass Cultivation of Mango Smallholder Farming



Flex-FreeForm

growing vetiver grass network for our well-being





FlexFreeForm

growing vetiver grass network for our well-being

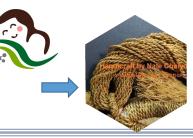
Pilot scale: social needs

→ scientific research →
new bioproducts→ new
marketing research



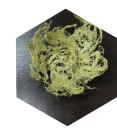
FlexNumNim

Quality: AAA



yarns

For industry, and handicrafts



FlexNumNim FlexHipHop

Quality: AA



cushion

Fruits, DIY, Health care Products



Residues of FlexNumNim

Biochar, soil addition



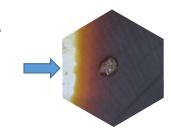
Sponge material storing soil nutrients

Charcoal container



Dusts, wastewater of FlexNumNim

Plant nutrients



Granule fertilizer

For farming

Data Base Management during Pilot Plan Year1

Planning	Marketing	Design	Strategy	Launch
Synergize scalable e-commerce 1 tons to 5 tons after year1.	Disseminate standardized metrics on new customers, local needs. 10 tons-new target.	Coordinate e-business applications Concerning community sustainability .	Foster holistically superior methodologi es, especially Thai cultures.	Deploy strategic networks with compelling e-business needs, transformation.