Anthony Cruz Legarda

Website: http://anthonycruzlegarda.com

Fashion Designer + Textile Technologist

Anthony Cruz Legarda is a Filipino American fashion designer and textile technologist who incorporates authentic hand-woven fabrics from the Philippines and Asia into distinctive American apparel as well as modernizes luxurious ethnic cloth for the eco fashion world. He pursued a degree in Fashion Merchandising at the City College of San Francisco and furthered his education at the prestigious Fashion Institute of Technology in New York, graduating in Fashion Design. Aside from becoming a featured artist at the Asian Art Museum of San Francisco, the San Francisco Craft and Folk Art Museum, the Anchorage Museum in Alaska, and the Queens Museum of Art in New York City, Mr. Legarda is proud of his involvement with a Philippine-based organization, Katutubong Filipino Foundation, whose mission was to revive Philippine folk arts and crafts. In recent years, he has partnered with the Philippine Textile Research Institute in the development of innovative Philippine fabrics which he transforms into authentic handwoven works of art.









PHILIPPINE TEXTILE RESEARCH INSTITUTE

Department of Science and Technology



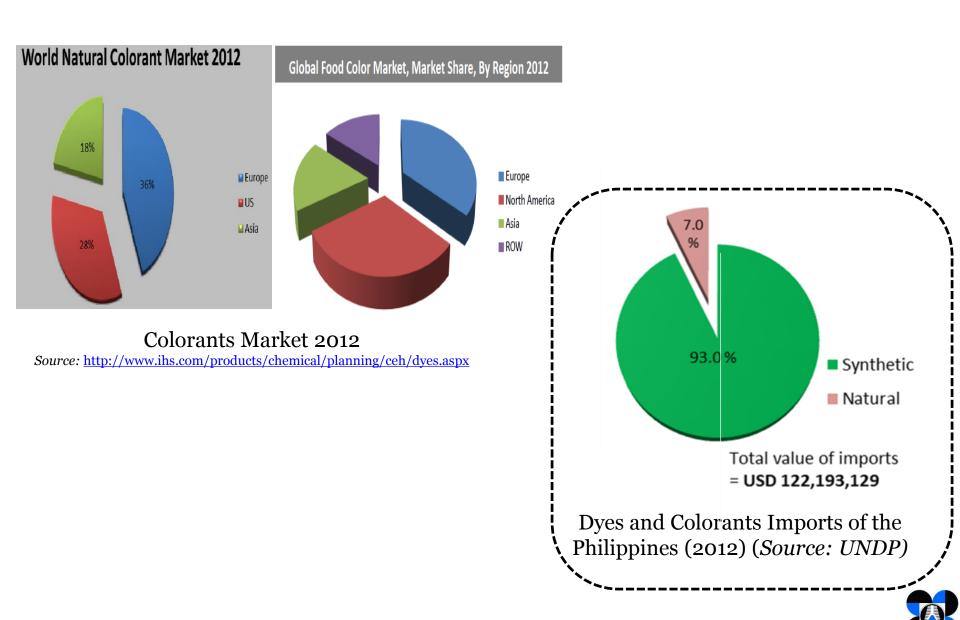
JULIUS L. LEAÑO JR.

Supervising Science Research Specialist Chief, Chemicals, Dyes, Auxiliaries and By-product Utilization OIC, Natural Fiber Utilization Section

Juana Invest? Reaping the Returns from R&D

4th PCIEERD-DOST Anniversary, 27 June 2014 EDSA Shangrila Hotel, Ortigas Center Mandaluyong, Philippines

Opportunities on Natural Colorants



The Nat*Dyes* Brand









Developed Technologies

100 Natural Dyes Extraction & Application

30 Natural Dyes Powder Production

dye sources

8 Natural Dyes for Silkscreen Printing

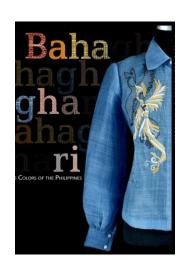
16 Top-Dyeing

4 Compound Dyeing

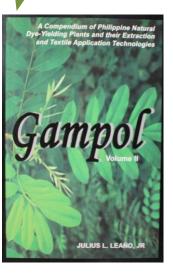


powder











Benchmarks

- 1) Colorfastness Evaluation (ISO and AATCC tests)

 Colorfastness (CF) to Laundering

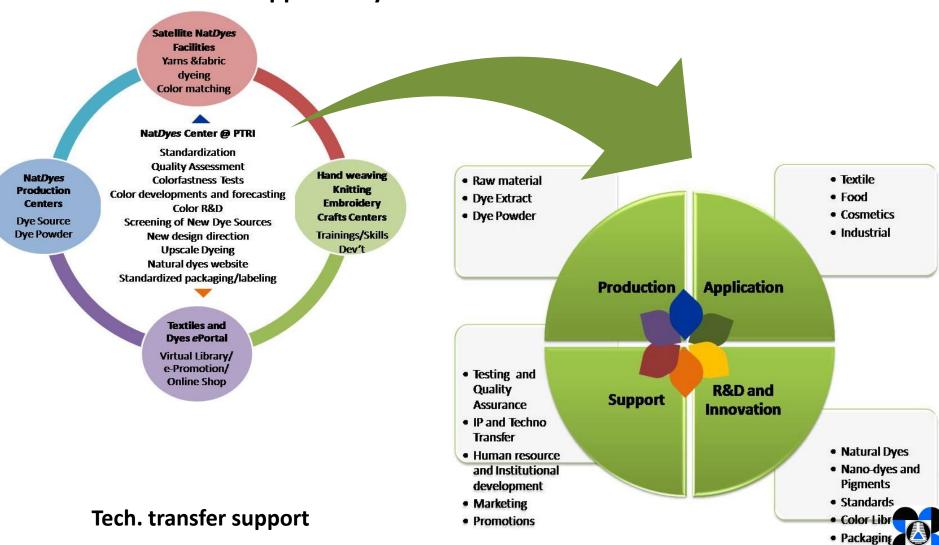
 CF to Rubbing

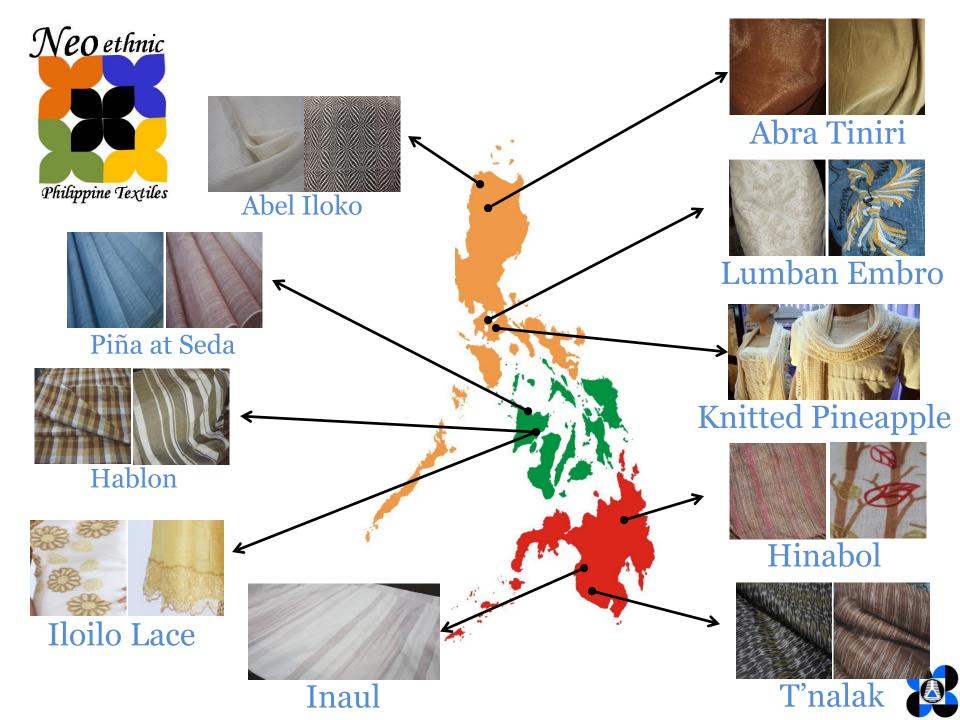
 CF to Light

 CF to Perspiration
- 2) Oeko Tex and GOTS
- 3) Functionality: anti-bacterial and UV-blocking properties
- 4) Technologies, papers and experts have been invited to speak and present in international conferences.
- 5) A Dynamic R&D and support program on natural dyes



The Nat Dyes Center@PTRI The Philippines' Dyes and Color Innovation Center





The Natural Dye Technologies





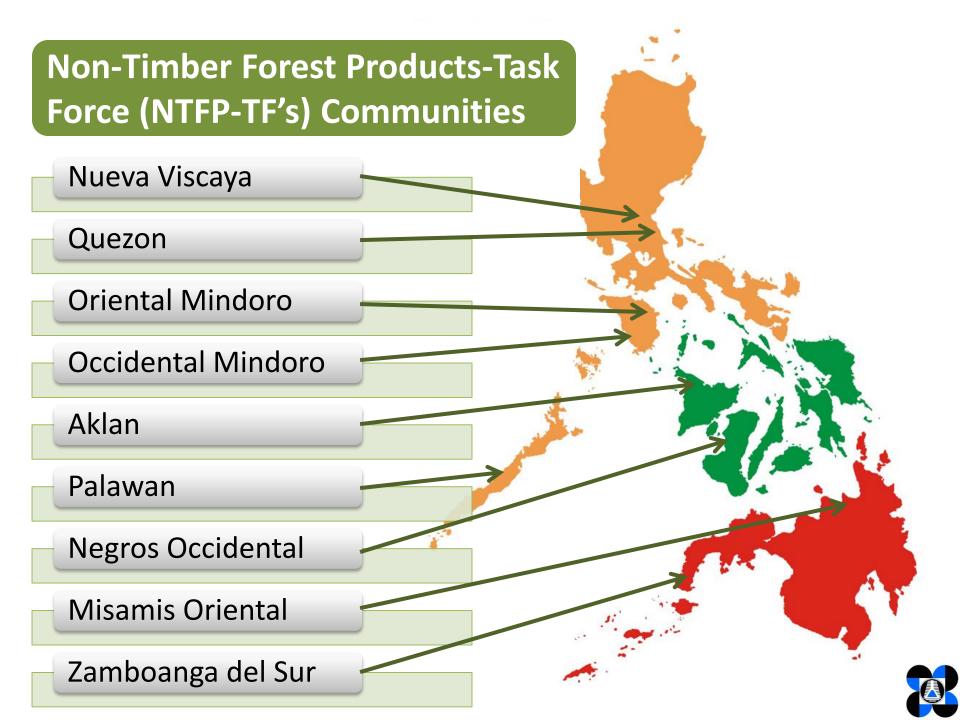




-Localized the indigo dye extraction and cake production technologies in Baler through a contract research.

- Adopted the technologies and produced indigo powder thereafter.





Dela Cruz House of Pina

Kalibo, Aklan





Budz Embroidery

Lumban, Laguna







Higaonon Weavers

AnthroWatch

on Union

Impasug-ong, Bukidnon



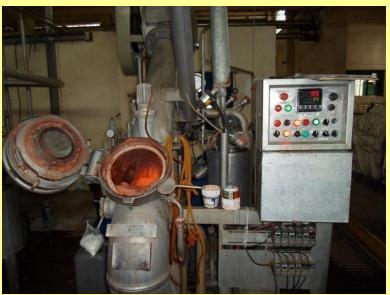




The Crossover

Up-scaling and Expanding the Application and Production of Philippine Natural Dyes









Textiles



Pigments

Food, Cosmetics, Materials





Natural Dyestuff

Natural pigments*

Natural printing and painting pastes*

Natural dyed yarns

Natural dyed fabrics

Natural dyed garments













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COMMERCIAL COST COMPARISON OF DYED MATERIAL

	*Foreign Producer	Local Producer
Natural dyed vs Synthetic dyed	2x cost	3x cost

% Increase in Cost (from Undyed Material) *Foreign Producer Natural Dyed ~150% Synthetic Dyed ~30%

^{*}Portland, Oregon and San Rafael, California

COMMERCIAL COST OF DYED MATERIAL

*Foreign Commercial Cost (converted to Php)

	Undyed	Dyed
Silk (spun)	17,200.00/kg	38,700.00/kg
Silk fabric 45"	1,460.00/yd	3,870.00/yd
width, 2.7 oz.	1,190.00/kg	3,150.00/kg

^{*}Portland, Oregon http://www.aurorasilk.com/index.html

COST COMPARISON OF NATURAL DYES

Dyestuff	Cost, Php (per kg)	*Commercial (converted to Php)
Indigo powder	7,000	6000 (light) -
		8000 (medium-dark)
Dye source		
sappan barks	50/kg	2,820.00
annatto seeds	150/kg	2,080.00
leaves	40/kg	425.00

^{*}San Rafael, California