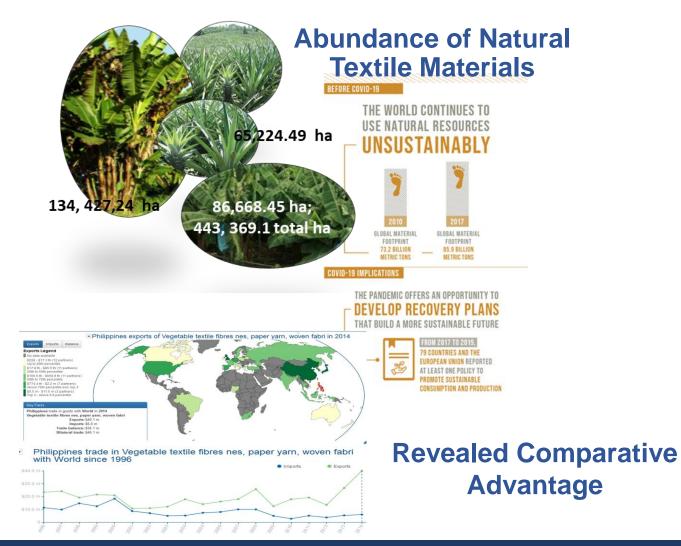


TELA Pilipinas & the Philippine Textile EcoSystem

Celia B. Elumba, Director Philippine Textile Research Institute Department of Science & Technology 25 March 2022

WHY NATURAL TEXTILES?

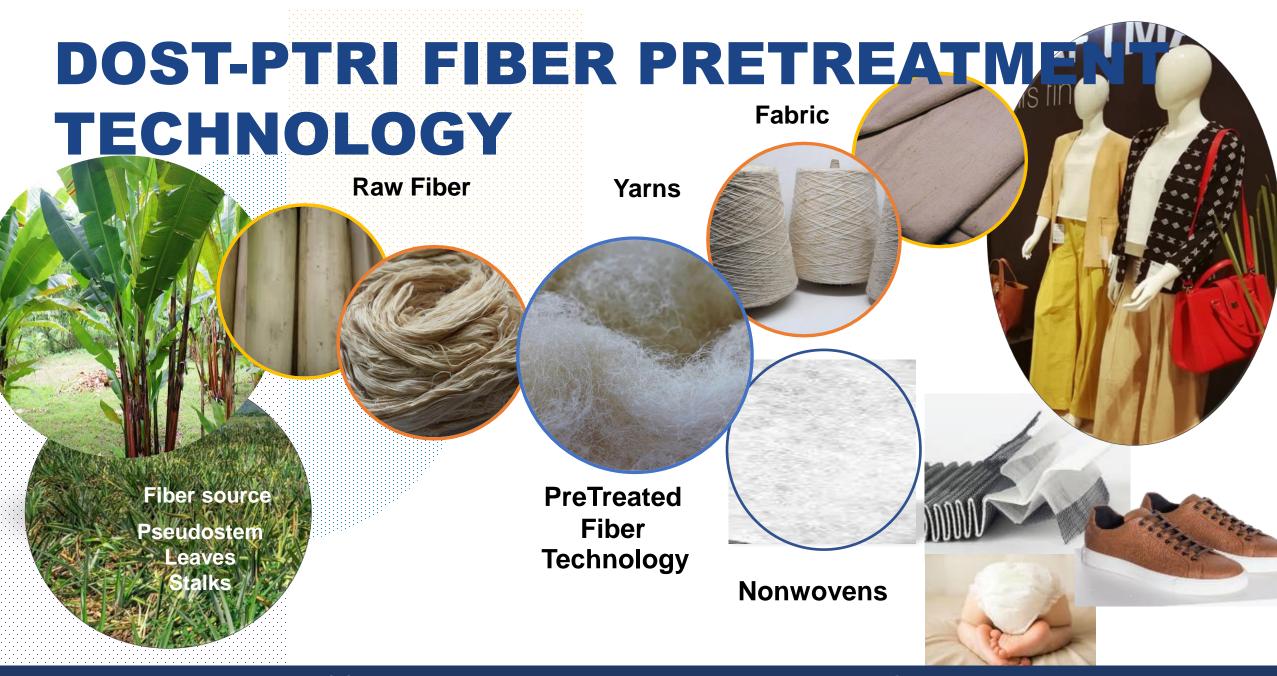




Population of 110M

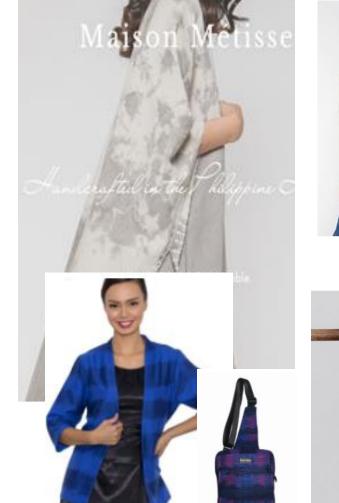


Micro Plastics/Micro Fibers Solution



THE PRIMARY MARKET

80% Cotton/20% Pineapple Leaf 70% Cotton/30% Pineapple Leaf











2022 TELA EXHIBITION



DOST-PTRI TELA Pilipinas & the Philippine Textile EcoSystem

PRODUCT DESIGN & BUSINESS INCUBATION

50% Bandala/50% Lyocell



50% Pineapple Leaf/50% Lyocell

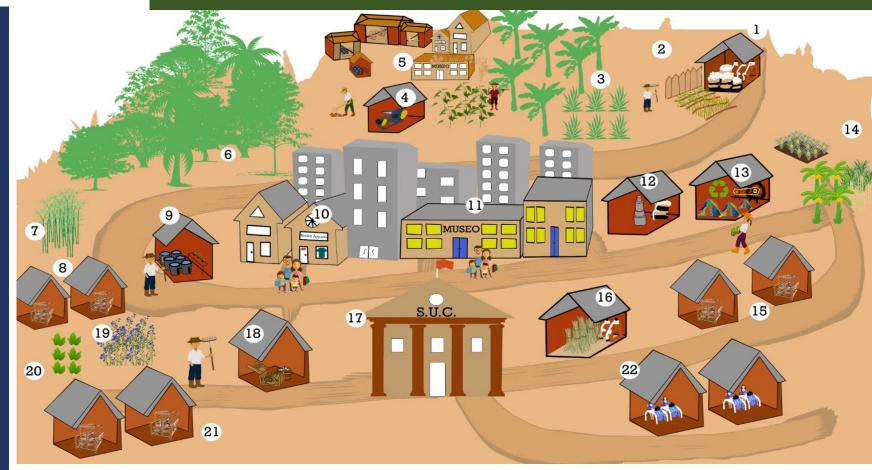


70 Cotton/30 Pineapple Leaf



SmarTex Finishing Technology: Enzymatic Treatment Water Repellency

TELA PILIPINAS



1. Micro-scale cotton spinning system for blended NTF

2. Dye garden (mayana, yellow ginger)

3. NTF cultivation in the scale such as: ramie, agave, abaca

4. Natural fiber decortication/extraction

5. TELA Weaving village

6. Natural dye sources (i.e. talisay, coffee, sampaloc, buko, achuete, bayabas)

7. NTF cultivation: bamboo

8. Handloom weaving center

9. Natural dyeing facility

10. Retail outlet

11. Natural Dye and Textile Museum

12. NTF Pretreatment Facility

13. Recycling facility

14. NTF cultivation: pineapple, banana, sugar cane

15. Handloom weaving center

16. Micro-scale worsted spinning system for blended NTF

17. State University and College for R&D Collaborations and Innovations

18. Gin to Denim Jeans: Handloom weaving lab

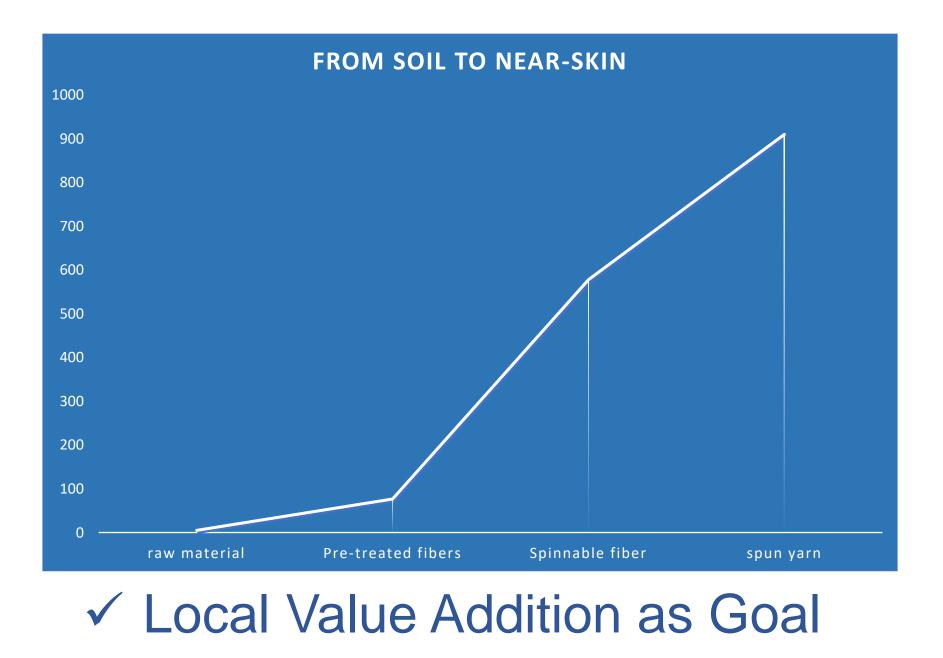
19. Indigo cultivation

- 20. NTF cultivation: cotton
- 21. Handloom weaving center

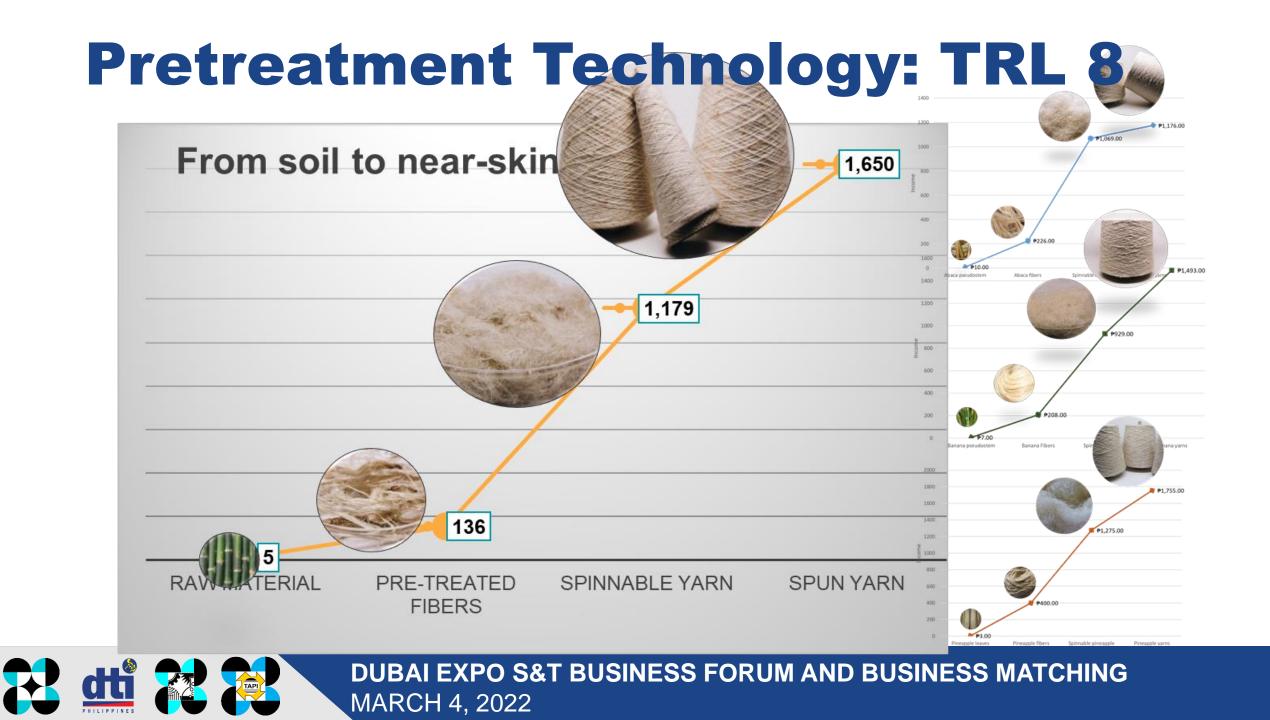
22. Sewing studios



Inspired by Fibershed; Legend: NTF – Natural Textile Fibers







The I2TELA Ecosystem for Iloilo/Region VI







Degumming



Fiber Opener (with UM application)

1- Complete line of pre-treatment facility for natural textile fibers

2- Complete line of micro-scale spinning facility



Hydroextractor

Fiber Cutter

Blow-Card







Roving (Speedframe)



DOST-PTRI TELA Pilipinast& the Philippine Textile EcoSystem



Fiber Dryer (with UM application)



Mechanical and Chemical Softener(with UM application)



Roving (Spe



Department of Science and Technology
Philippine Textile Research Institute

State Institute Control contr

Alaminos

TIMPUYOG

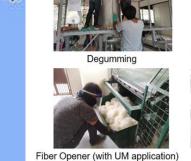
Baguio

Dagupan

BASKETBALL COURT

Ilagan Campus Isabela State University, Cauayan Campus

llege



RYPOC ISABELA



Natural Textile Fiber Technology



Hydroextractor Fiber Dryer (with UM application)

DOST

PTRI





Mechanical and Chemical Softener(with UM application)

Region	No. of HLW Groups	% to Total
CAR	105	21.26%
NCR	19	3.85%
Region 1	71	14.37%
Region 2	14	2.83%
Region 3	8	1.62%
Region 4A	21	4.25%
Region 4B	53	10.73%
Region 5	8	1.62%
Region 6	62	12.55%
Region 7	7	1.42%
Region 8	10	2.02%
Region 9	20	4.05%
Region 10	32	6.48%
Region 11	21	4.25%
Region 12	11	2.23%
ARMM	3	0.61%
OTHERS	29	5.87%
	494	100.00%



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TELA Works.





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