



**STRATEGIES FOR WASTE
REDUCTION AND RESOURCE REUSE
IN TEXTILE AND FASHION
INDUSTRIES**

減廢與資源再利用的策略實踐

ASIA CIRCULAR ECONOMY ASSOCIATION

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INTRODUCTION OF ACEA



VISION

PROVIDE BASIC KNOWLEDGE OF CIRCULAR
ECONOMY TO ALL STAKEHOLDERS SO
THAT THEY CAN APPLY TO THEIR
BUSINESSES AND DAILY LIFE



MISSION

- CREATE A **KNOWLEDGE HUB** OF CIRCULAR ECONOMY
- ESTABLISH **COMMUNICATION NETWORKS** WITH STAKEHOLDERS
- DEVELOP **CIRCULAR AND INNOVATIVE COMMUNITIES AND CITIES**
- RELATE CIRCULAR ECONOMY WITH **OTHER MAJOR TOPICS**



ACTIVITIES (1)

- SEMINARS AND CONFERENCES
- FIELD TRIPS TO COUNTRIES THAT HAVE INNOVATIVE CE PRACTICES.
- COMPETITION FOR STARTUPS AND UNIVERSITIES WITH INNOVATIVE CE DESIGNS AND BUSINESS MODELS
- RESEARCH WITH COLLABORATION WITH INDUSTRIES, UNIVERSITIES AND FINANCIAL INSTITUTIONS ON CIRCULAR BUSINESS MODELS AND SOLUTIONS.



ACTIVITIES (2)

- WORKSHOPS TO CONSUMERS, PRIMARY AND SECONDARY SCHOOLS TO EDUCATE THE CONCEPT OF CIRCULAR ECONOMY TO THE GENERAL PUBLIC
- COMMUNICATE WITH GOVERNMENTS TO INVESTIGATE HOW THE CONCEPT OF CIRCULAR ECONOMY CAN BE IMPLEMENTED IN COMMUNITIES, CITIES AND COUNTRY LEVELS IN ORDER TO OPTIMIZE THEIR FINANCIAL, ENVIRONMENTAL AND SOCIAL BENEFITS.



MAJOR PRINCIPLES OF CIRCULAR ECONOMY

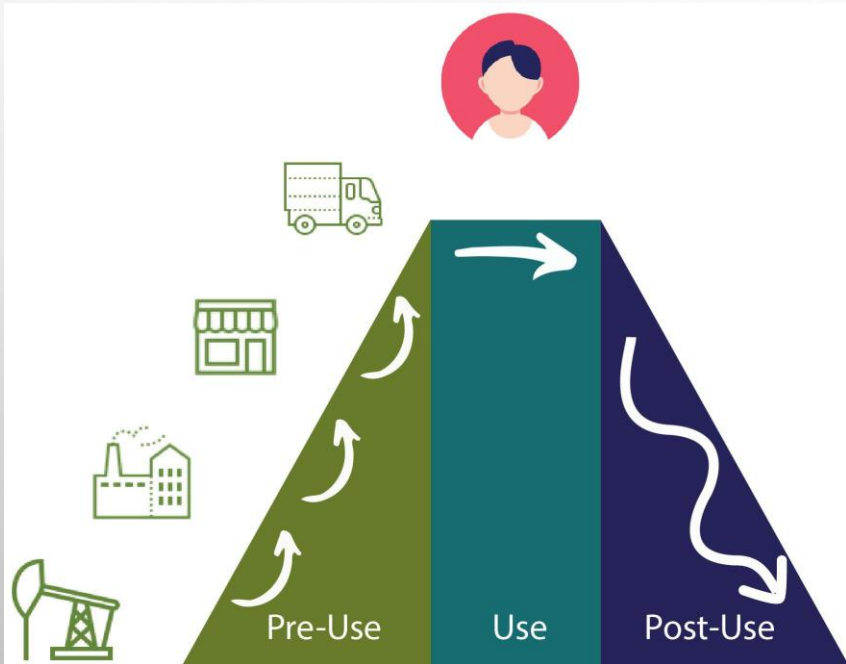


PRINCIPLES OF CIRCULAR ECONOMY

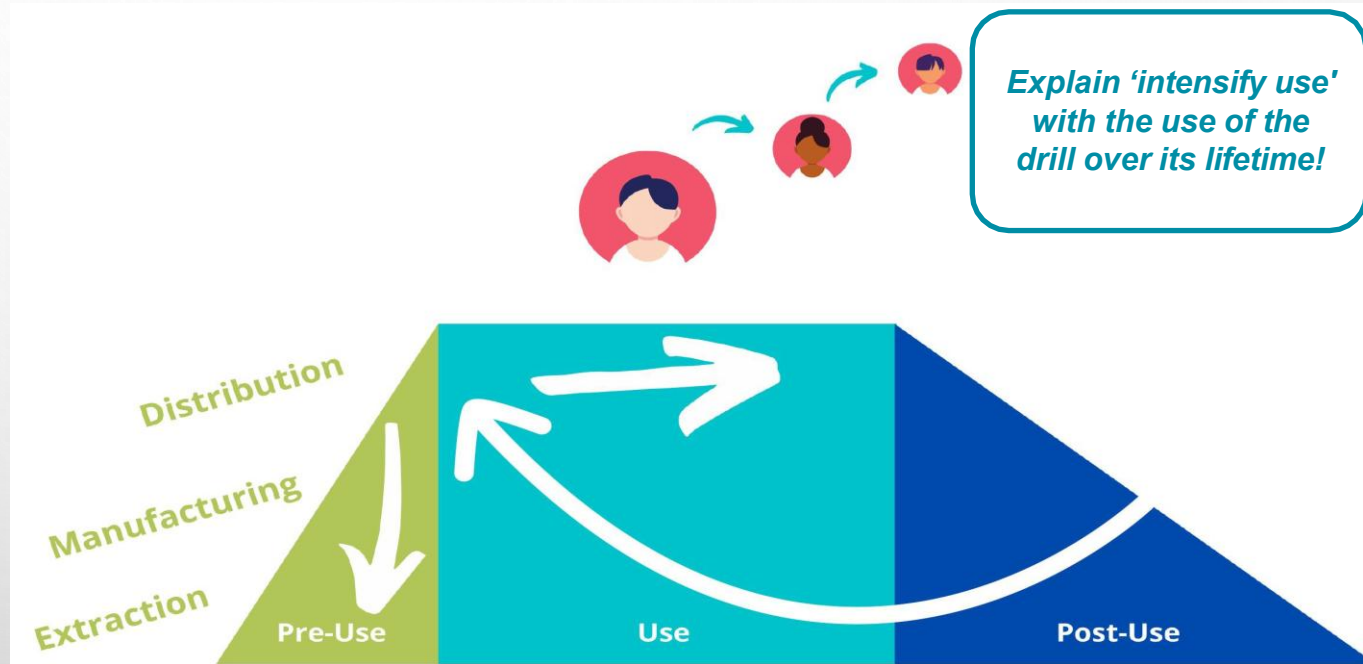
- ELIMINATE WASTE AND POLLUTION
- CIRCULATE PRODUCTS AND MATERIALS (AT THE HIGHEST VALUE)
- REGENERATE NATURE

EXPLAINING THE VALUE HILL MODEL

Linear economy = Value loss



Circular economy = Value retention



To better understand the Value Hill concept
<https://www.circle-economy.com/resources/master-circular-business-with-the-value-hill>

Explanatory video Anne-France Interface

Reduce consumption and impact

Optimize use
Increase/intensify lifespan

Circularize resources



The 3 pillars + Super powers



CASES IN TEXTILE AND FASHION INDUSTRIES

UPCYCLING FOR WASTE REDUCTION



PRODUCT REUSE



MATERIALS RECYCLING AND SCRAP REUSE



COLLABORATIONS FOR INDUSTRIAL ECOLOGY



HOPLION 合隆毛廠 SINCE 1908 水禽副產品 Waterfowl by-product

農夫養鴨養鵝，主要是肉品需求
羽絨原是廢棄物，後轉為農業副產品

Farmers raise ducks and geese mainly for meat.
Down and Feather were once waste
— and became a valuable by-product.

2. 約150克的毛片&羽絨
150g of small feather and down

1. 約60克的毛片&羽絨
60g of small feather and down

3. 約90克的翅毛
90g of large feather/quill

HOPLION 合隆毛廠 SINCE 1908 生產製程 PROCESSING

精洗羽毛過程
Fine Washing Process
精製羽毛工程

羽絨、羽毛
down, feather
羽毛、羽根

初洗 first washing
予備洗淨

清潔劑 detergent
洗淨劑

洗滌 cleansing
本洗淨

除臭劑 deodorizer
脫臭劑

漂洗 rinsing
濯ぎ

脫水 centrifuging
脫水

高溫消毒殺菌烘乾
High temperature
sterilizing & drying
高溫消毒殺菌、乾燥

混合 mixing 混合
(拼推機 Mixing Machine 混合機)

冷卻、除塵
cooling, dedusting
冷卻·除塵

包裝 packing 袋詰め





CHALLENGES AND SOLUTIONS



MAJOR CHALLENGES

- GOVERNMENT POLICY
- SCALE-UP AND COMMERCIALIZATION
- FINANCIAL SUPPORT



SOLUTIONS

- INDUSTRIES AND COMMUNITY **EDUCATION**
- APPLICATION OF **TECHNOLOGIES** TO LOWER COST AND IMPROVE EFFICIENCY
- WORK WITH STAKEHOLDERS FOR CREATING **RESILIENT ECOSYSTEMS**
- ESTABLISH **STANDARDS AND MEASUREMENTS**



THANK YOU