Creative Industries: Footwear Sector

Overall Strategies

Human Resource

- Establishment of technology-based Shoe Artisan Academy
- Training on Software Footwear Desian and innovation

R&D Technologies

- Innovation of locally available products as raw materials
- Blockchain technology / tokenizing commodities
- Technology upgrade advancement for diaital transformation
- Integrating indigenous technologies in R&D Development of local
- software for design R&D on
- prosthetics/specialized footwear
- Technologies for footwear design challenges using ICT solutions and virtual reality

Facilities / Services Establishment

- Resource Center for Raw Materials
- Fabrication Laboratories
- R&D Center for local technologies on Footwear
- Development of Database of SMEs and manufacturers
- Development of Software for footwear desian and innovation (classify database by capabilities. production capacity, etc.)

POSSIBLE SOLUTIONS

175M

3D application technologies

for Footwear Application

• R&D on Design for Shoes

Sustainable Textiles for

Footwear Industry

Filipino Fit and Sizing

Applications

70 M

- Sustainable Textiles for Footwear Industry Applications
- Filipino Fit and Sizing
- 3D application technologies for **Footwear Application**
- Specialized Footwear Technologies
- Prosthetics for Asian Fit
- Al-based solutions for Footwear
 - IOT-enabled footwear technologies
 - Software for Design

40 M

- Sustainable local materials for footwear applications
- Prosthetics for Asian Fit
- Creative Design for Industry 5.0

2026-2028

- Standards and protocols on Prosthetics and Specialized Footwear Design
- Specialized footwear for Filipino
- Local Prosthetics for Asians

2024 - 2025

- Anthropometric Data of different foot shapes and types for Luzon and Visayas population
- Filipino Foot Sizing in NCR/Luzon
- Availability of Al-based Marketplace
- Internet of Things Technology Solutions for Footwear
- Available local Design Software
- Established National Footwear Size Code

MILESTONES

- Technologies on Comfort Footwear using Natural Fiber
- Anthropometric Data of different foot shapes and types for NCR population
- Availability of Sustainable Materials for Footwear Industry

2022 - 2023

Overall Outcomes

Human Resource

- Professionalized workers
- Accessible Pool of Artisan Designers

R&D Technologies

- Sustainable Raw Materials
- Filipino-influenced Footwear design
- Philippine-fit prosthetic design

Facilities / Services

 Competitive Local software for footwear

Innovative, design intensive and sustainable technologies for **Footwear Industry** Applications

Not yet Done Ongoing Available

VISION

Legend (Text Font):

Creative Industries Furniture Sector

Overall Strategies

Human Resource

- Trainings on weaving, metal crafts and for non-timber
- Curriculum on Upholstery and Woodworking
- Revival of National Competency Standards and Training Regulations for the Furniture Industry

R&D Technologies

- R&D Program on Technologies to Improve Current
- Production Systems
- •R&D Program on Module Development that can be adopted by NC Programs thru TESDA.
- R&D on Program on Material Manipulation for Options on Raw Materials
- R&D on Program on Processing techniques for leather
- R&D Program on Development of Packaging Materials that are sustainable and biodegradable

Facilities / Services

- Raw material and Suppliers' tracker portal
- Establishment of Fabrication Laboratories available to the Regions
- Development of Digital Marketing Platform
- Development of Digital Content for Creative Industries, as a whole

86M

- Local Materials from Wood and Non-Wood
 - Materials from
 Forest Products
- Furniture R&D for New Normal
- Local Materials for Outdoor and Indoor
- Al-based solutions for Furniture Design

2022 - 2023

56M

- Sustainable Natural Materials for Furniture
 Application of
 - Natural Dyes for Furniture
- Woodcarving Technologies for Furniture application
- Local Materials from Wood and Non-Wood

40M

- Local Materials from Wood and Non-Wood
 - Pilot scale processing of
 - developed New Materials - R&D on Alternative species
 - suitable for wood carving
- R&D on sustainable and biodegradable furniture packaging materials
- Development of Source Book for New Materials
- Creative Design for Industry 5.0

2026 - 2028

- Source book for new Materials
- Industry 5.0 technologies for furniture

Overall Outcomes

Human Recourse

Accessible Pool of local Furniture Designers

R&D Technologies

- Filipino Design technologies
- Sustainable Indigenous Raw Materials and alternative substrates
- Local Furniture suppliers tapped by local retailers

olished Eabrication

2024 - 2025

- Established Fabrication
 laboratories
- Established techniques and alternative sources for word carving
- New Normal Design for Workplace
 and Furnitures
- Established Raw Materials tracker portal
- Local leather for outdoor furniture

Legend Done Ongoing Not yet (Text Font): Done Ongoing Available

VISION

Science-based quality, design intensive and sustainable technologies for furniture industry applications.