



**COCONUT :**

**The tree of life**

# USES OF COCONUT

**... that can be developed into business enterprise**

## From coco meat:

- Copra (processed into oil with copra meal/cake as by-product)
- Virgin oil
- Coco flour
- Dissected coconut

## From coco water:

- Coco water
- Vinegar
- Toyo

## From coco sap:

- Coco honey
- Coco sugar

# USES OF COCONUT

## From coco husk:

- Coco coir fiber - fascine
- Coir dust - doormats
- Coco twines - carpets
- Geonets
- Biologs

## From coco shell:

- Charcoal -
- Coco shell buttons
- Novelty items such as bangles, hairclips, necklaces

# **BASIC COMPONENTS OF THE COCONUT FRUIT**

<u>Component</u>	<u>% (weight basis)</u>
• Husk	33%
• Meat	30%
• Water	22%
• Shell	15%

# NEW GENERATION COCONUT PRODUCTS & BY-PRODUCTS

1. Virgin Coconut Oil
2. Coco Sugar
3. Coco Flour
4. Coco Coir Fiber
  - coco twines
  - coconets
  - biologs
  - fascines
  - rugs/carpets
5. Coco peat



# COCONUT COIR PROCESSING



**TO  
BUCKS**

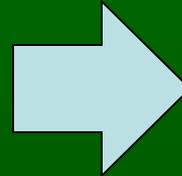


# “May kwarta sa basura”



# Through DECORTICATION PROCESS . . .

**Ang Bunot** ... currently considered as farm waste  
can now be converted into money



# In the decortication process...



**Coir Fiber = 40%**



**Coco Peat = 60%**



**Coir fiber** – is the natural hard fiber extracted from the coconut husk

**Uses of  
coir  
fiber**

- Used in making ropes
- cordage
- Geonets
- biologs
- bags
- packaging materials
- door mats
- mattings
- wall carpets
- rugs
- plant hangers
- furnishing fabrics
- insulation material

# Mang Juan & his family have additional income from....



Baled  
Coir fiber



# additional income from....



Coco twines



**additional income from....**



**Coconets**



**additional income from....**



**Biologs**

**additional income from....**



**Bags and Plant holders**

**additional income from...**



**Plant Hangers**

**additional income from...**



**Baskets**

**additional income from...**



**Fascines**

**additional income from...**



**Bed Mattress**

## **additional income from....**

- Installation of geonets and other coir-based products as protective cover and erosion control in sloping terrains and other vulnerable areas



**Bio-engineering technology**

## additional income from....

### Coco Peat or Coir dust

- a by-product of coir extraction. It accounts 60% of the coconut husk.



### Uses of coir dust:

- as substitute for peat moss for horticultural uses and as soil conditioner
- as growing medium & potting mix for greenhouse, plantations & nurseries
- as materials for organic fertilizer making

**Summary of  
value –adding of  
coconut husk**

# COIR PRODUCTS



Husk



Coir Fiber



Coco Peat



Baled Fiber



Twines



Stitched Fiber



Coco Peat Blocks



Coir Geo-textile/Mat



Coir Basket



Bio-logs



Mattress

## BJMP Most Productive Inmates 2011



Inmates of  
Bislig City  
Jail  
doing  
coir  
twining  
and  
geonet  
weaving

# **Local Market of Coir fiber-based products**

- Mining companies (Taganito Mining, PGMC, Adnama, etc)
- Government institutions like DPWH, DENR, NIA, LGUs
- Exporters like Regwill Industries, Jobukin Inc.
- Construction companies
- Dole Philippines and other big plantations

# **EXPORT MARKET**

- There are growing markets for coir products and by-products in Europe, Japan, South Korea, Brunei, Taiwan, USA and Canada.
- The Philippines has likewise broken new grounds in China.
- Considering the size of China, a multi million peso industry would rise in the Philippines with careful planning and aggressive effort of the local producers.

# **Market of Coir Dust or Coco Peat**

## **Local Market:**

- **Mining companies**
- **DPWH**
- **Construction companies**
- **Big plantations like DOLE, etc.**

## **Export Market**

- **US, Canada, Mexico**
- **Germany, France, Netherlands, Spain,**
- **Japan, Korea, China, Mongolia, Egypt, Israel, UAE, Saudi Arabia**
- **Australia, New Zealand**

# **CHALLENGES TO PHILIPPINE COCONUT COIR INDUSTRY**

- The Philippines has the capability to supply coconut fiber products to China & other international markets.
- The challenge for the Philippines to increase its production and competitiveness in the coming years are:
  - *Improvement of the coconut husk collection system*
  - *Development of efficient coconut fiber processing, drying & baling*
  - *More investments in equipment for value-adding of coir fiber*
  - *Increasing the awareness of the people on the importance and potentials of coir fiber and fiber-based products*



**Daghang Salamat!**