



A Country Presentation: **The Philippine Abaca Industry**



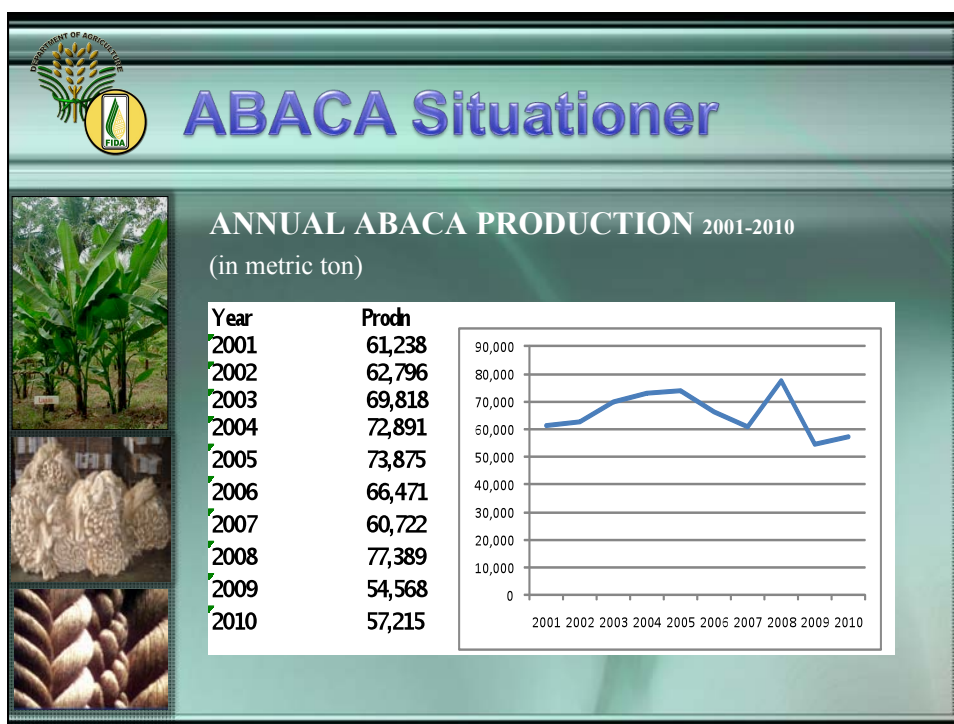
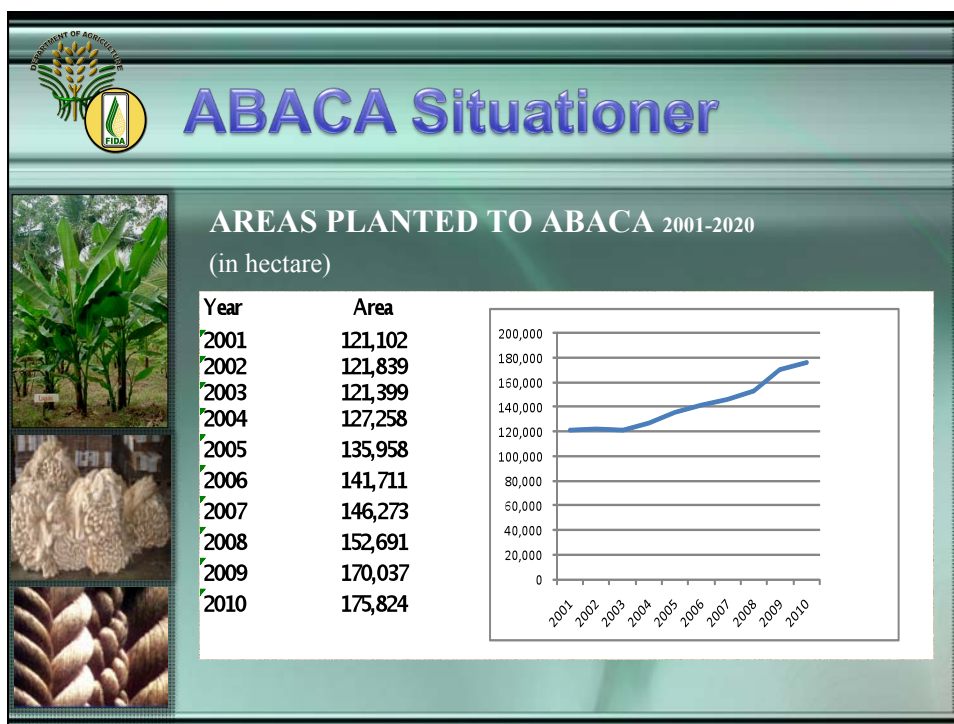
Presented by: Deputy Administrator **JOSEPHINE B. REGALADO**
Fiber Industry Development Authority (FIDA)
Department of Agriculture, Philippines

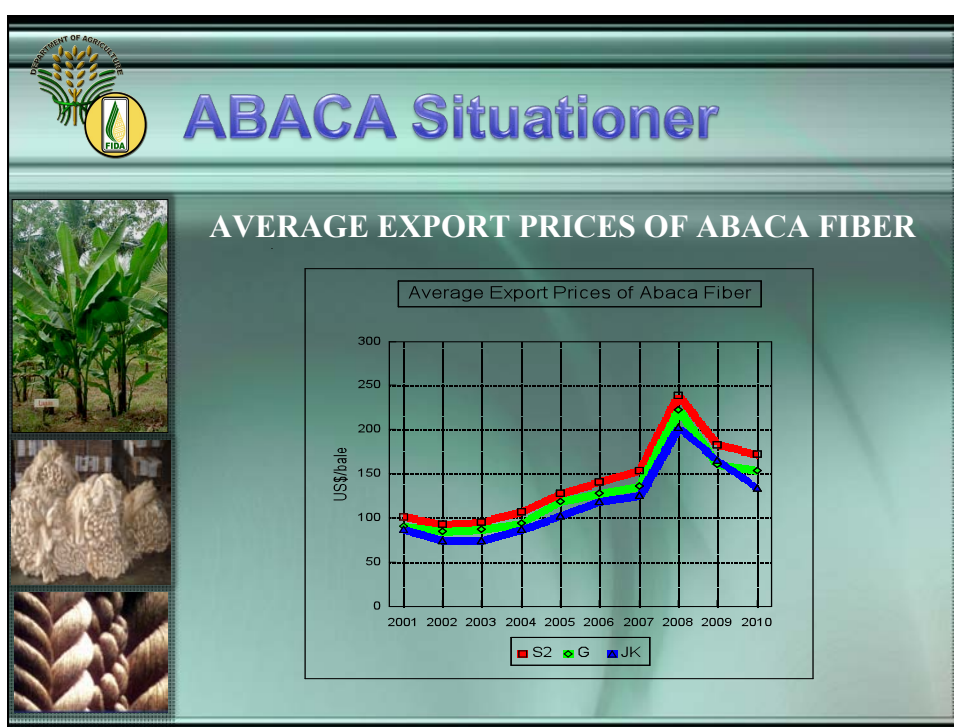
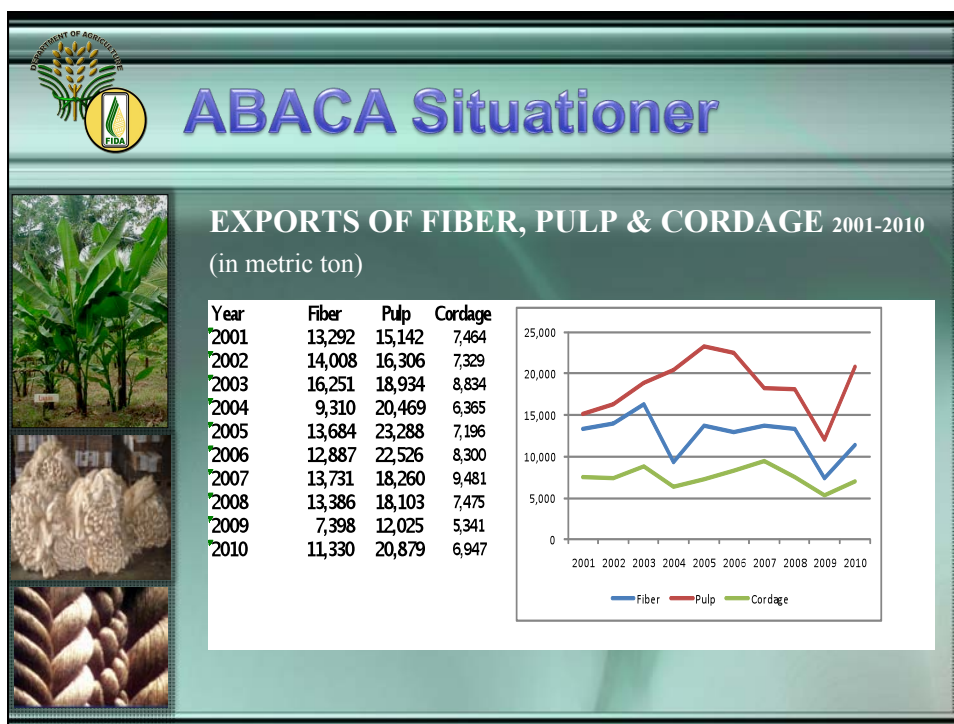
*Presented during the 8th International Conference of the
European Industrial Hemp Association
in Wesseling, Germany on May 18-19, 2011*



ABACA

- **ENDEMIC TO THE PHILIPPINES**
- **SUPPLIES ABOUT 86% OF THE WORLD'S REQUIREMENTS**
- **A TOTAL PLANTATION AREA OF 175,824 HECTARES**
- **AN ANNUAL AVERAGE FIBER PRODUCTION OF 65,000 MT**





 **Uses & Applications of Abaca**





ABACA CORDAGE

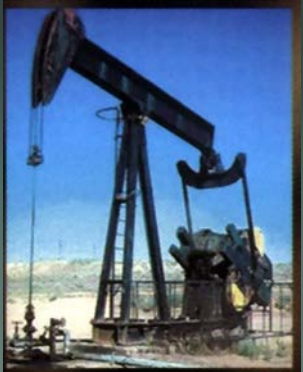


 **Uses & Applications of Abaca**



ABACA CORDAGE

FOR OIL RIGGING



FOR SHIPPING





Uses & Applications of Abaca



ABACA CORDAGE

FOR CONSTRUCTION



FOR MOUNTAIN CLIMBING





Uses & Applications of Abaca



ABACA PULP





 **Uses & Applications of Abaca**

ABACA PULP

FOR CURRENCY PAPER



PHIL. PESO 20% ABACA













JAPANESE YEN 60% ABACA







 **Uses & Applications of Abaca**

ABACA PULP

FOR TEA BAGS/COFFEE FILTERS











FOR MEAT/SAUSAGE CASINGS



Uses & Applications of Abaca



ABACA PULP

FOR CIGARETTE PAPER



SURGICAL MASK





Uses & Applications of Abaca



ABACA FOR COMPOSITES

CAR PANELS



SPARE TIRE CASING





Uses & Applications of Abaca

ABACA FIBERCRAFTS





COASTERS/WINE HOLDER/PLACEMAT/
TWINE BALLS



HAT/BAG/STATUE



Uses & Applications of Abaca

ABACA FIBERCRAFTS





LAMPS



Uses & Applications of Abaca

ABACA FIBERCRAFTS


BASKETS


SCRUNCH







Uses & Applications of Abaca

ABACA FIBERCRAFTS


SINAMAY HATS





 **Uses & Applications of Abaca**

ABACA FIBERCRAFTS



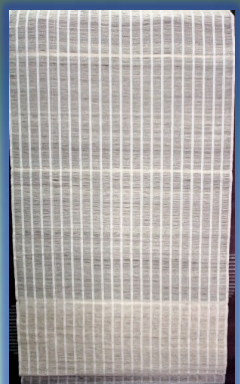

PRINTED SINAMAY
FOOD COVER


VASE

 **Uses & Applications of Abaca**

ABACA FIBERCRAFTS




SUN SHADE


FRUIT TRAY

 **Uses & Applications of Abaca**

ABACA FIBERCRAFTS




SINAMAY TABLE RUNNER


FASCINATORS

 **Uses & Applications of Abaca**

ABACA IN FURNITURE




LAMPSHADE







Uses & Applications of Abaca

ABACA IN FURNITURE









Uses & Applications of Abaca

ABACA IN FURNITURE





 **Uses & Applications of Abaca**

ABACA IN FURNITURE





 **Uses & Applications of Abaca**

ABACA HANDMADE PAPER





Uses & Applications of Abaca

ABACA AS WELLNESS PRODUCTS

Uses & Applications of Abaca

ABACA AS WELLNESS PRODUCTS

 **Uses & Applications of Abaca**

ABACA FOR FASHION





ABACA CLOTH

 **Uses & Applications of Abaca**

ABACA FOR FASHION





THE ABACA PLANTS

Musa textilis Nee





Asexual Reproduction:

- Suckers
- Corms
- Seedpieces
- Eye buds
- Tissue Culture
- Plantlets



Height:
4.57m - 7.62m

Stalk Diameter:
12.70cm - 30.48cm

Leaves:
1.22m - 2.44m

Stalk consist of
12 to 25 sheaths



ABACA FIBER EXTRACTION PROCESS












READY FOR EXPORT

 PROPERTIES OF ABACA FIBER	
Parameter	Values
Morphological Properties	
Fiber cell length (mm)	4.22 – 5.34
Fiber cell diameter (μ)	19.16 – 21.26
Physical Properties	
Tensile strength (kgf/g.m)	42.89 -55.08
Cell Elongation (%)	3.11 – 7.05
Chemical Properties	
Moisture (%)	7.71 – 8.25
Lignin (%)	9.54 – 11.55
Cellulose (%)	
- Holocellulose	84.7 – 91.72
- Alphacellulose	61.11 – 69.93
- Hemicellulose	12.36 – 15.97
Solubilities (%)	
- Alc-benzene	0.58 – 2.18
- % NaOH	14.72 – 19.51
- Hot water	1.05 – 3.36

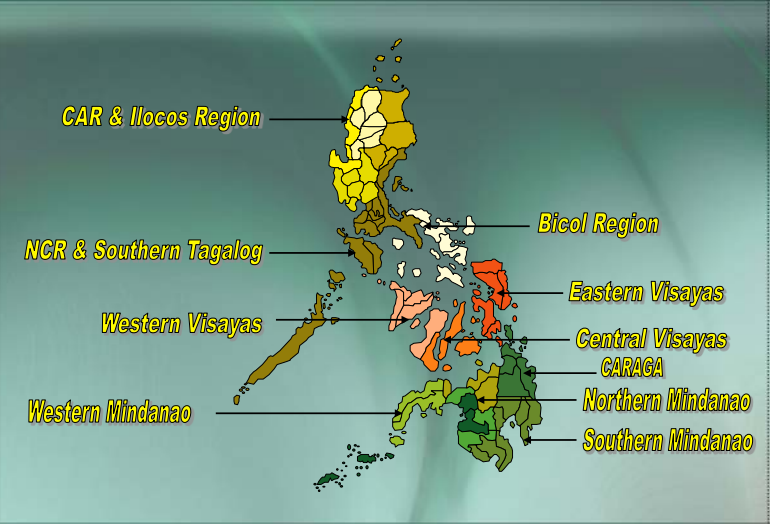




THE FIBER INDUSTRY DEVELOPMENT AUTHORITY

- **CREATED ON JULY 27, 1981 BY E.O.#709 AND PLACED UNDER THE DEPARTMENT OF AGRICULTURE.**
- **MANDATED TO PROMOTE THE GROWTH & DEVELOPMENT OF THE PHILIPPINE FIBER INDUSTRY IN ALL ASPECTS INCLUDING RESEARCH, PRODUCTION, MARKETING AND TRADE REGULATION.**

FIDA REGIONAL OFFICES



CAR & Ilocos Region

NCR & Southern Tagalog

Western Visayas

Western Mindanao

Bicol Region

Eastern Visayas

Central Visayas

CARAGA

Northern Mindanao

Southern Mindanao

FIDA PROGRAMS TO SUSTAIN FIBER PRODUCTION

RESEARCH:

Continuous conduct of research studies on the following discipline:

- Crop improvement
- Crop production
- Crop protection
- Field verification trial
- Agricultural engineering
- Fiber processing and utilization
- Fiber characterization



FIDA PROGRAMS TO SUSTAIN FIBER PRODUCTION





RESEARCH FACILITIES:

Operation and Maintenance of:



5 Tissue Culture Laboratories



3 Diagnostic Laboratories



Immunology Laboratory



6 Fiber Seedbanks and Experiment Stations



FIDA PROGRAMS TO SUSTAIN FIBER PRODUCTION





RESEARCH FACILITIES:

Fiber Processing & Utilization Laboratory



Morphological



Physical



Chemical

Quality Investigation of Fibers



FIDA PROGRAMS TO SUSTAIN FIBER PRODUCTION





MARKETING:

- Market Linkages
- Monitoring of Supply and Demand Trend
- Monitoring of Prices
- Participation on Showcases/Exhibits
- Products Promotion



FIDA PROGRAMS TO SUSTAIN FIBER PRODUCTION





EXTENSION SERVICES:

- ESTABLISHMENT OF ABACA NURSERIES




In partnership with LGUs, SUCs, NGOs, Private Groups

- ✓ 102 hectares established in 2005
- ✓ 50 hectares established in 2006
- ✓ 63 hectares established in 2009
- ✓ 28 hectares established in 2010






FIDA PROGRAMS TO SUSTAIN FIBER PRODUCTION





EXTENSION SERVICES:

- FARM AND BUSINESS ADVISORY PROGRAM
 - ✓ Fiber Production Technology
 - ✓ Packaging of Proposals
 - ✓ Credit Facilitation






FIDA PROGRAMS TO SUSTAIN FIBER PRODUCTION





EXTENSION SERVICES:

- TRAINING PROGRAM
 - ✓ Conduct of Training of Trainers (TOT)
 - ✓ Conduct of Farmers Field School (FFS)
 - ✓ Conduct of Package of Technology Trainings (POT)
 - ✓ Conduct of Livelihood Trainings







FIDA PROGRAMS TO SUSTAIN FIBER PRODUCTION





EXTENSION SERVICES:

- TECHNOLOGY DEMONSTRATION PROGRAM



✓ Establishment of Technology Demonstration Farms in different Strategic Location







FIDA PROGRAMS TO SUSTAIN FIBER PRODUCTION





EXTENSION SERVICES:

- INFORMATION, EDUCATION & COMMUNICATION PROGRAM
 - ✓ Production, Distribution/Dissemination of Different Techno-guides, Leaflets, Journals, etc.
 - ✓ Conduct of Farmers Field Day
 - ✓ Conduct of Information Caravan



FIDA PROGRAMS TO SUSTAIN FIBER PRODUCTION





REGULATORY SERVICES:

- STRICT ENFORCEMENT OF ABACA FIBER GRADING & STANDARDIZATION.







SUSTAINABILITY CERTIFICATION





With the growing advocacy on Climate Change and Environment Protection and Recognizing the pressing demand of buyers for third party certification in the supply chain of abaca, the Philippine government is laying the groundwork for the development of certification process by a third party certifying body recognized in the international community.

