

A woman wearing a purple hijab and a purple long-sleeved shirt is looking down at a plant in a field. The plant has large, green, lanceolate leaves. The background is slightly blurred, showing more of the same plants.

**Regional Consultation Meeting
of CABI's Asia-Pacific Member Countries**

Dr Jelfina C. Alouw

Executive Director, International Coconut Community



Challenges & Opportunities on the Ground for the Implementation of Pesticide Risk Reduction Practices

**Regional Consultation
meeting of CABI's Asia-
PACIFIC**

Putrajaya, 18-20 February 2025

The International Coconut Community (ICC)

an intergovernmental organization of coconut producing countries organized in 1969 under the aegis of the United Nations Economic and Social Commission for Asia and the Pacific (UN-ESCAP)

Vision

Globally Sustainable, Resilient, Inclusive and Highly Profitable Coconut Sector



Vision

ICC Vision is Globally Sustainable, Resilient, Inclusive and highly Profitable Coconut Sector.



Global Perspective

The revised vision takes a broader view, acknowledging that the coconut sector has a global reach and impact. This reflects the interconnectedness of markets and the potential for export and international trade.



Sustainability

Farming practices, conservation of coconut genetic resources & other natural resources, reduction of the sector's ecological footprint, farmer's livelihood



Resilience

to adapt and withstand various challenges: climate change, pests, diseases, unprecedented pandemic, & geopolitical instability.



Inclusivity

including all stakeholders, from smallholder farmers to larger corporations. This can lead to more equitable distribution of resources and opportunities.



Profitability

Attracting investment and ensuring the sustainability of the coconut sector

Mission

ICC Mission is the development of the Coconut Sector through its member countries to:



Accelerate transition to sustainable conservation & utilization, production & consumption



Increase production through eco-friendly, climate smart agriculture and precision farming



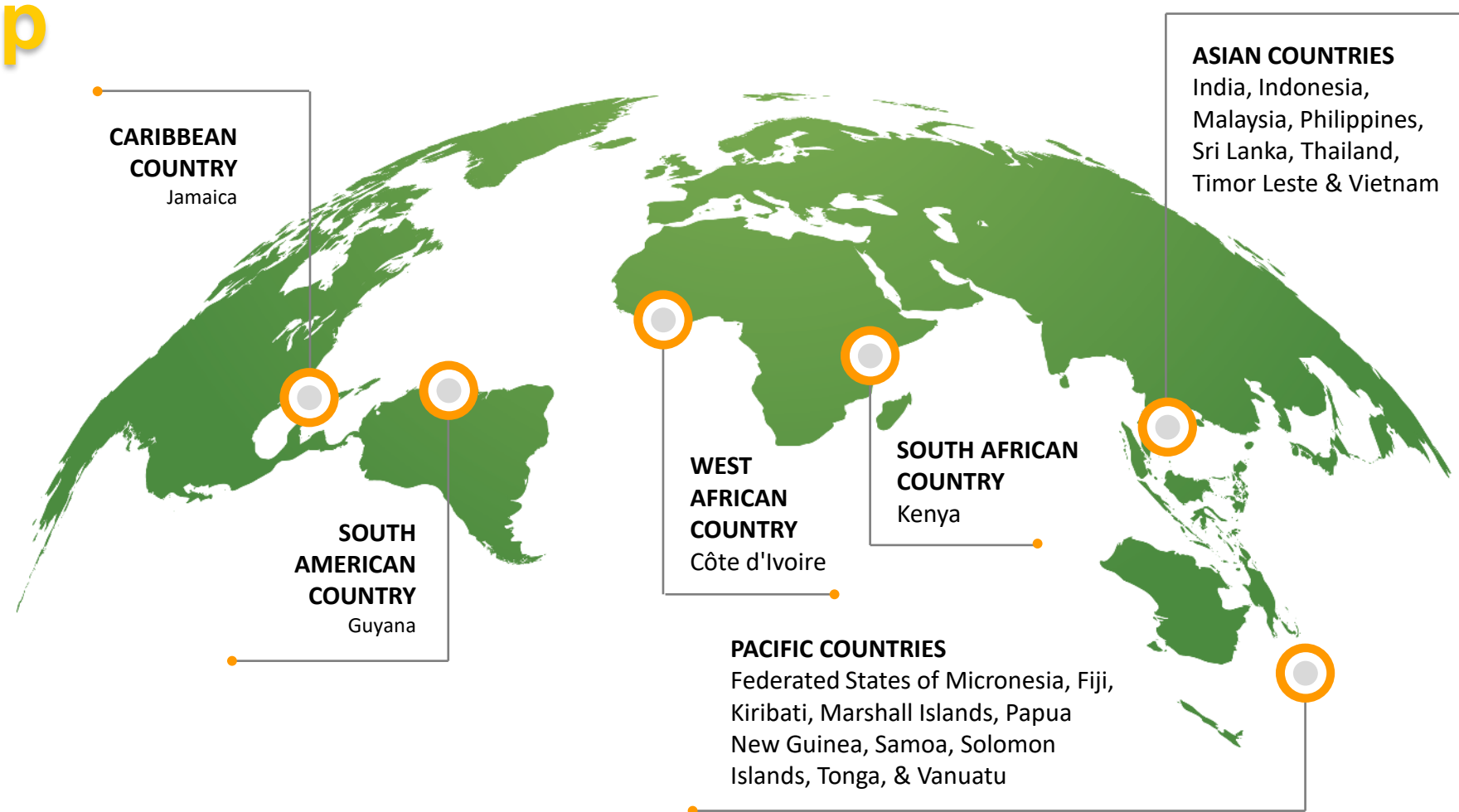
Promote product diversification, good quality of products and the development of innovative products to sustain market



Establish sustainable, resilient, and highly competitive Farmer groups/cooperatives, MSMEs & Industries

hip

ICC currently has 21 coconut producing member countries accounting for over 90 percent of world coconut production and exports of coconut products



Membership to the Community is open to all coconut producing countries, with the unanimous consent of the existing members and by acceding to the agreement establishing the Coconut Community



Coconut Genetic Resources Networks (COGENT)

ITAGs (International Thematic Action Groups)


Ex-situ & In-Situ Conservation

Coconut Genomics & Breeding

Crop Protection and Movement of germplasm

In-Vitro Culture Conservation & Cryopreservation

Home About ▾ News & Media ▾ Market & Statistics ▾ Publication ▾ Products ▾ Directory ▾ COGENT Cocopest Contact

Cogent  About ▾ FAQ ITAGS ▾ Coconut Genebanks ▾ Events ▾ Sustainability Planning ▾ Projects ▾



ITAG 3 - Phytopathology, Entomology & Germplasm movement

ITAG 3 - Phytopathology, Entomology & Germplasm movement Leader & Team Member

ITAG 3 (Germplasm Movement)



Dr. Wayne Myrie
(Team Leader)



Dr. Carmel Piloti
(Co-Team Leader)

COGENT has been established since 1991, organized by IPGRI-BI. COGENT has been officially transferred to ICC since 2019

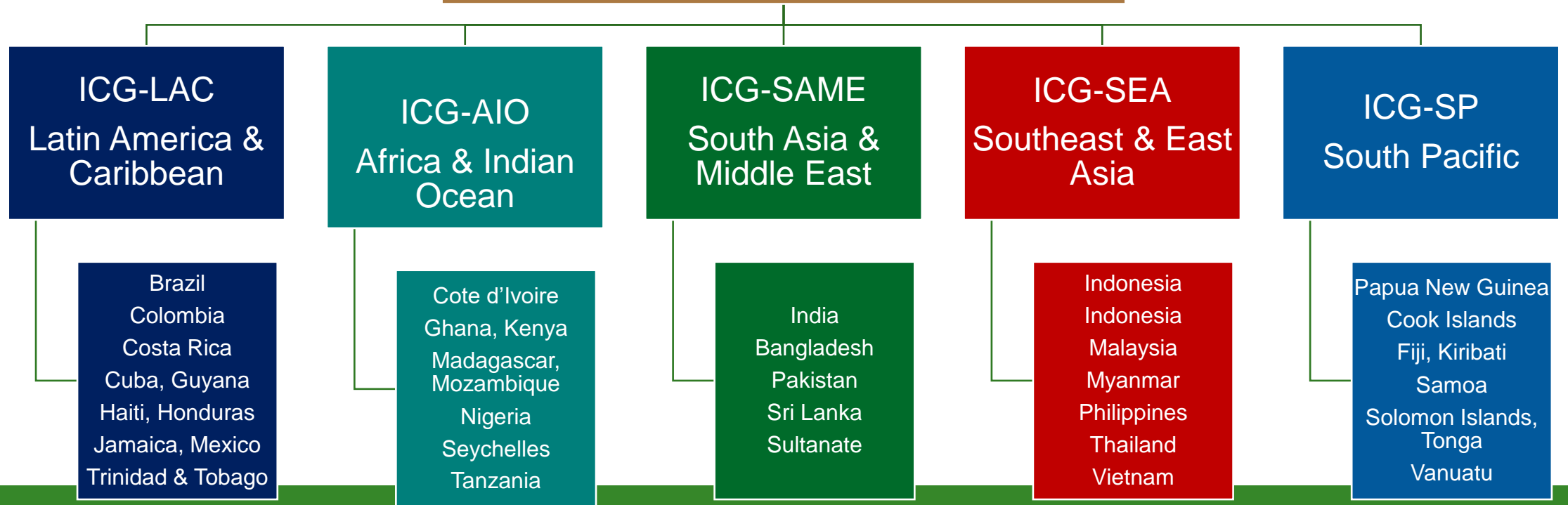
KNOWLEDGE FOR LIFE

International Coconut Gene Banks (ICGs)

FAO/ITPGRFA - ICC/COGENT

Host Countries

(Brazil, Cote d'Ivoire, India, Indonesia, PNG)

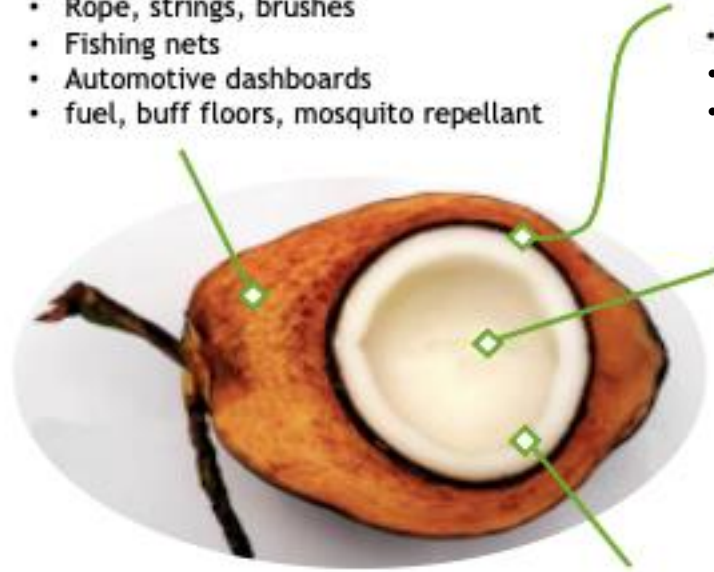


The tree of Life



Coconut Husk (Mesocarp)

- coco pith, coco fiber
- Biodegradable pots, geotextile
- Complex furniture
- Floor mats, wall & door panels
- Rope, strings, brushes
- Fishing nets
- Automotive dashboards
- fuel, buff floors, mosquito repellent



Coconut Shell (Endocarp)

- Charcoal:
- Activated Carbon
- Charcoal Briquettes:
- Barbeque, shisha/Hookah alternative bioenergy
- Mosquito repellent
- Handicrafts
- Speaker

Coconut Water

- Refreshing drink
- Nata de coco
- Soy sauce
- Vinegar
- Cider

Coconut Trunk



- Durable Furniture
- Houses
- Drums
- Containers
- Canoes

Coconut Root



- Dye
- Mouthwash

Coconut Inflorescence



- Sugar
- wine,
- candy,
- syrup
- Fresh neera

Coconut Meat (Kernel)

- Coconut oil: oleochemical
- Virgin coconut oil (VCO)
- Coconut milk, cream, yogurt
- White & Edible copra
- Coconut flour
- Desiccated Coconut (DC)
- Biscuit
- Biofuel
- Cosmetics
- Pharmaceuticals

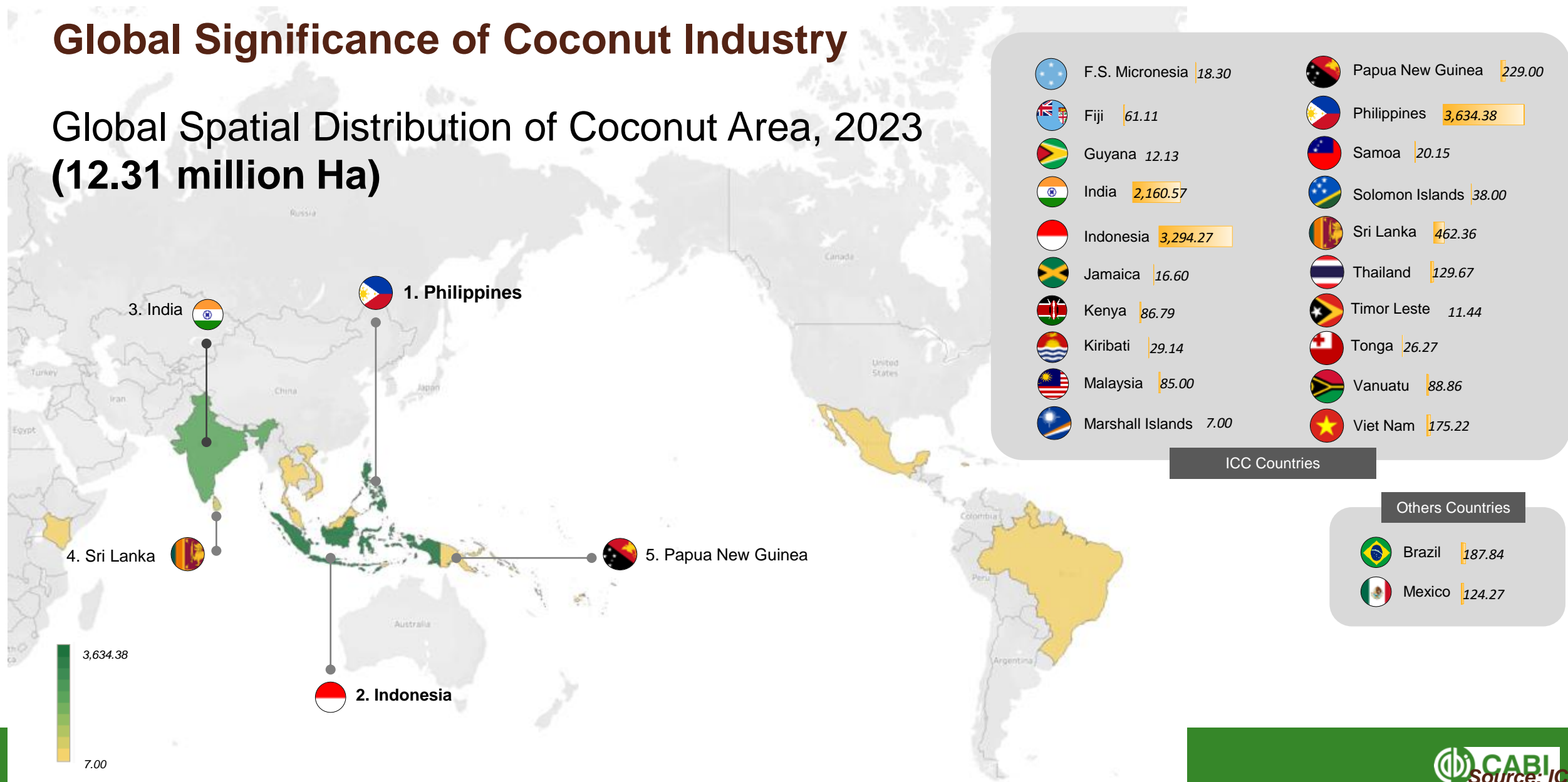
Coconut Leaves



- Book cover
- Broom
- Baskets + mats
- Cooking skewers
- Kindling
- Roofing
- straws

Global Significance of Coconut Industry

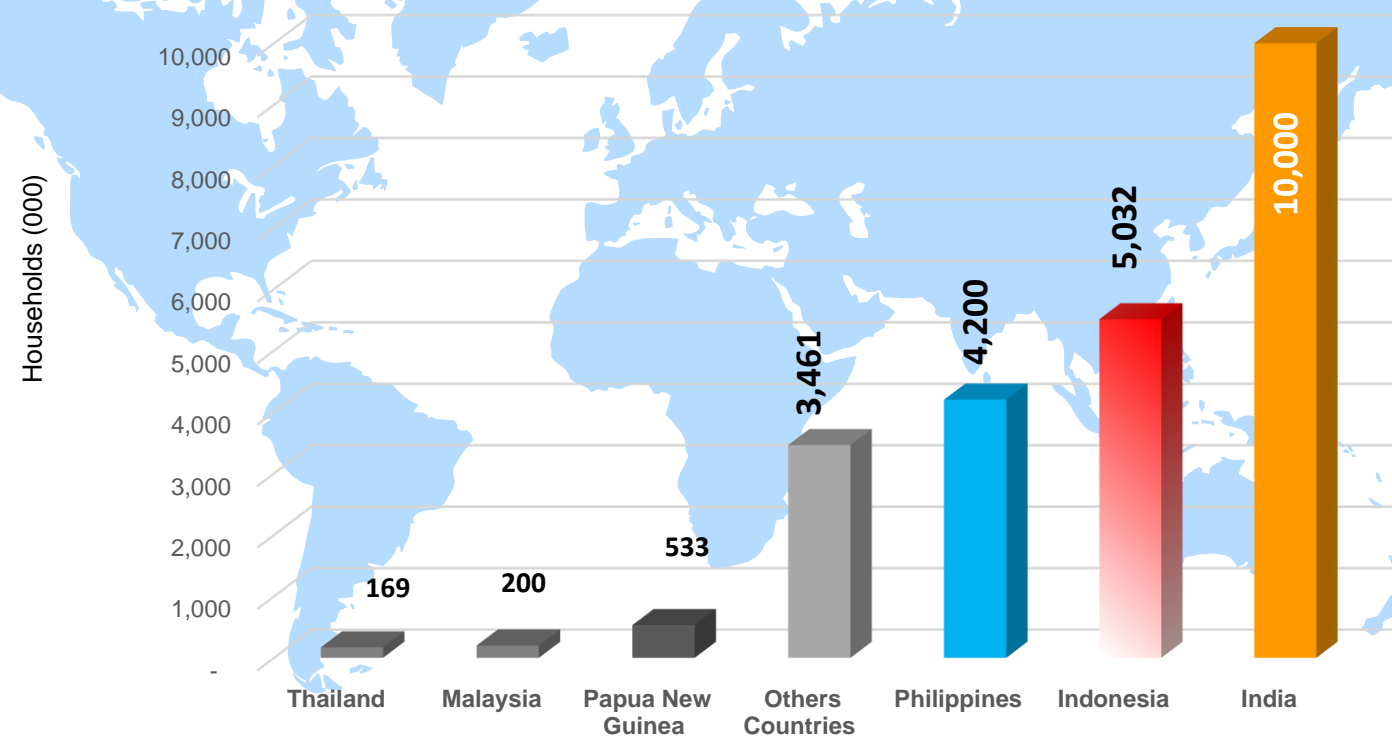
Global Spatial Distribution of Coconut Area, 2023 (12.31 million Ha)



Coconut Plantation 2023

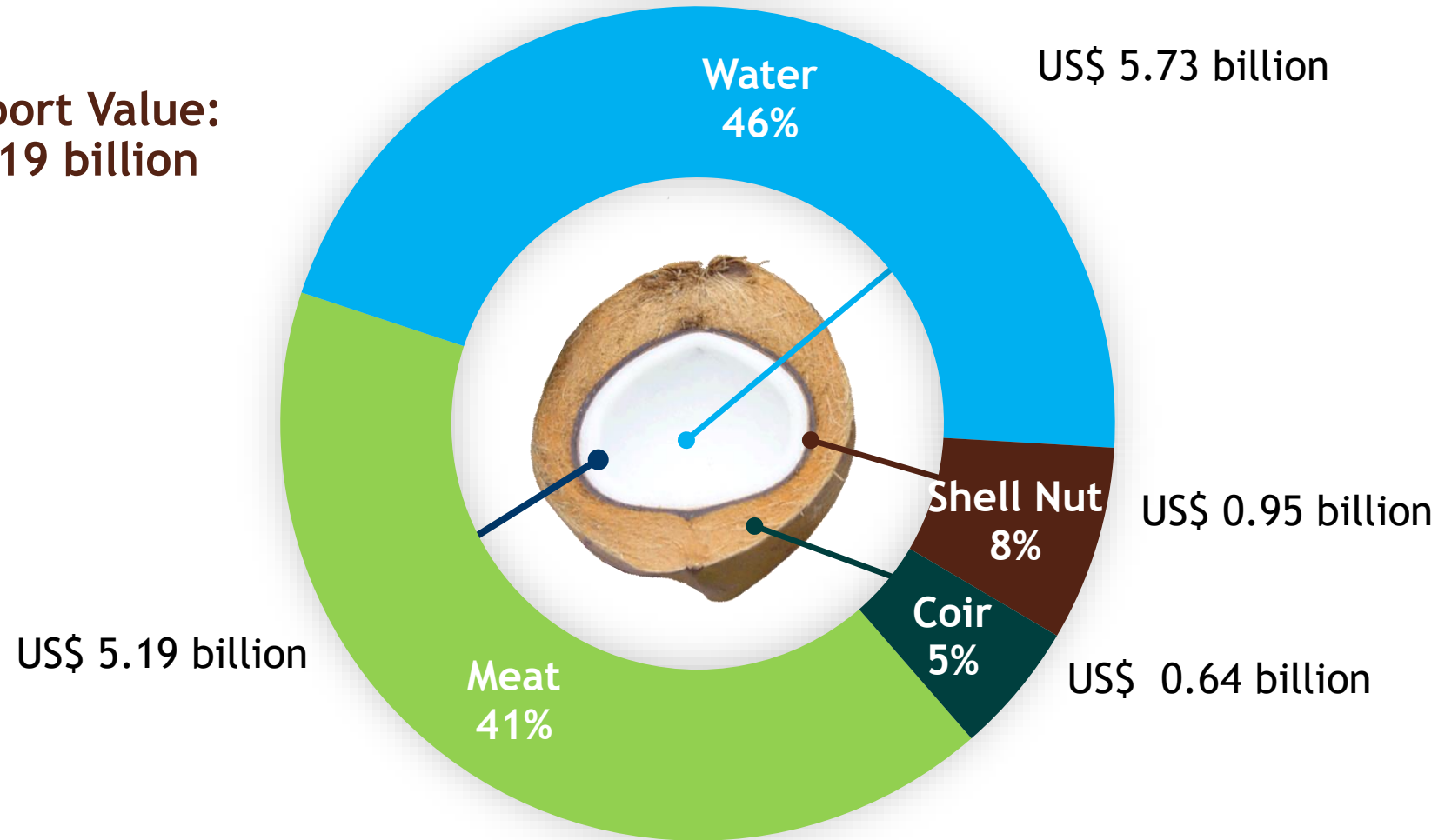
24,072

Estimated
Households (*000)
Worldwide



Global Significance of Coconut Industry

Total Export Value:
USD 14.19 billion



Potential Contribution of Coconut Industry Globally



Production
2023

67.052 Bill. Nuts
11,845,367
(MT Copra Eq.)

Potential Export

Coconut Oil :
13.14 Bill. USD

Coconut Water :
18.42 Bill. USD

Coconut Shell Charcoal :
1.09 Bill. USD

Coconut Shisha briquette :
5.05 Bill. USD

Copra Meal :
940.24 Mill. USD

Coconut Fiber & Peat :
1.89 Bill. USD

14.19 Bill. USD (2023)



41.3 Bill.

Est, Total Global Export Value USD (\$)

Source: ICC Estimation

Note: Ratio Given From against Total Global Potential Coconut Export

KNOWLEDGE FOR LIFE

Coconut Oil from non-standard Coconut as Feedstock for Sustainable Aviation Fuel (SAF)

- Hydrocarbon of coconut oil is suitable for making SAF (kerosene)
- Coconut oil (CNO) & Palm Kernel Oil (PKO) contain high percentage of C6-C16, that are suitable for making SAF



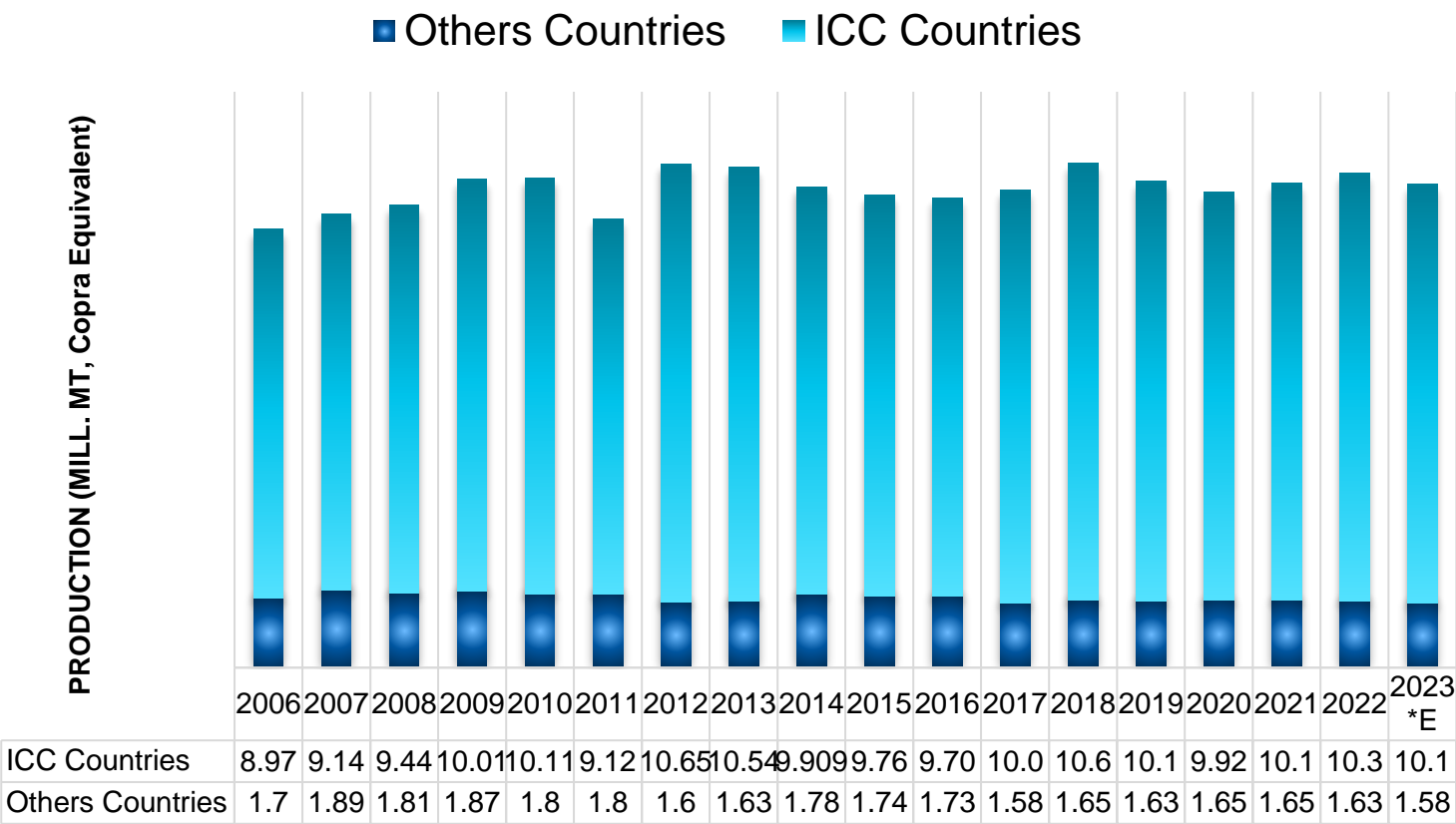
Coconut oil & PKO
C6–C16: Kerosene (jet fuel)

Oil Types	Hydrocarbon (carbon-chain)										
	C8	C10	C12	C14	C16	C18	C18:1	C18:2	C18:3	C20	C22
Coconut	8	7	48	17	9	7	2	1			
Palm Kernel	4	5	50	15	7	1	15	2			
Palm				2	42	5	41	10			
Tallow				4	30	19	40	5	1		
Soya					8	4	28	53	6		
Rapeseed (low)					4		54	28	8	2	3
Sunflower					6	4	28	61		1	

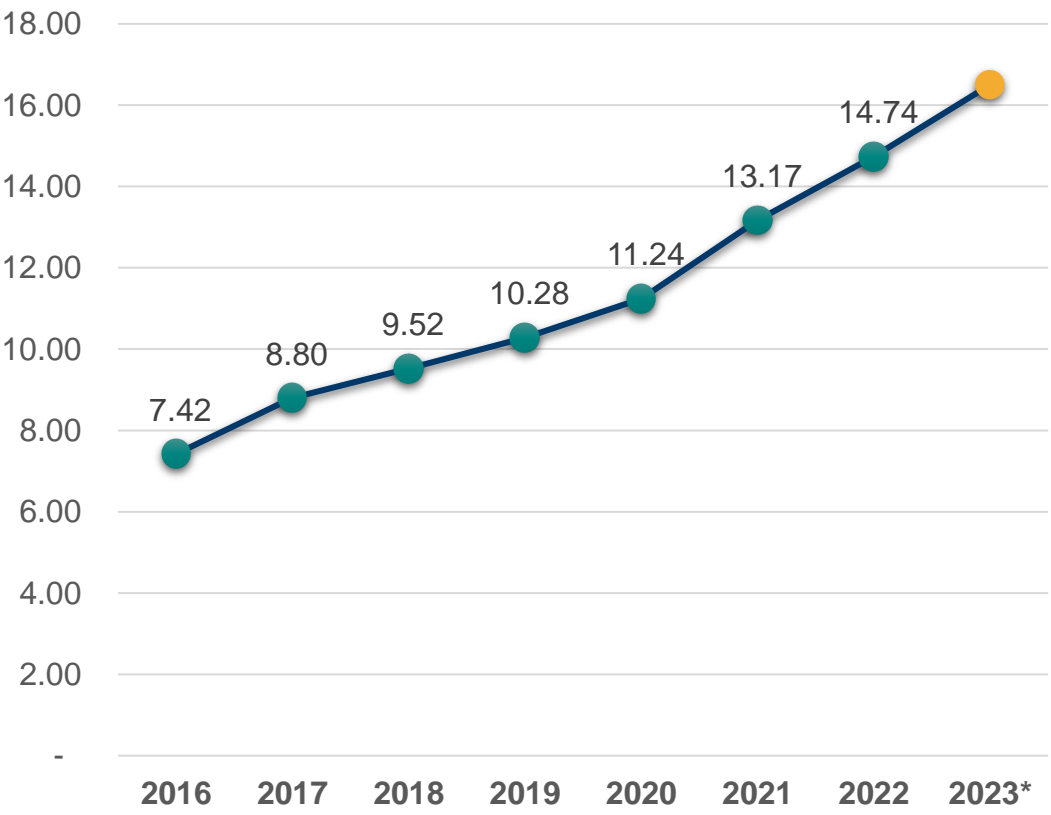
ICAO Releases Revised Positive List adding Non-Standard Coconuts for Sustainable Aviation Fuel (SAF)

April 2024

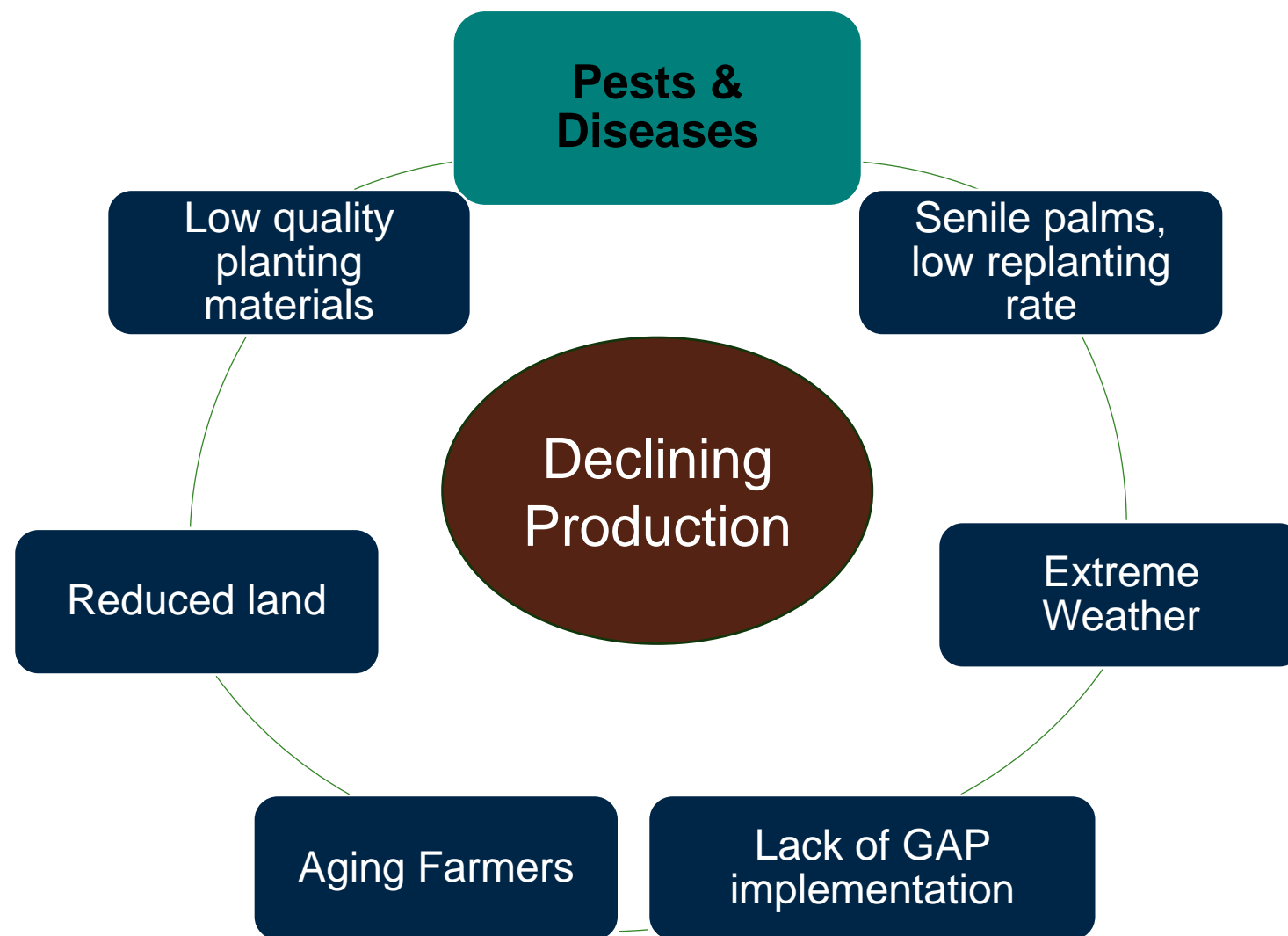
Global Production: on a plateau !!!



Global Export Trend (million MT)



Why is Coconut Production Declining?

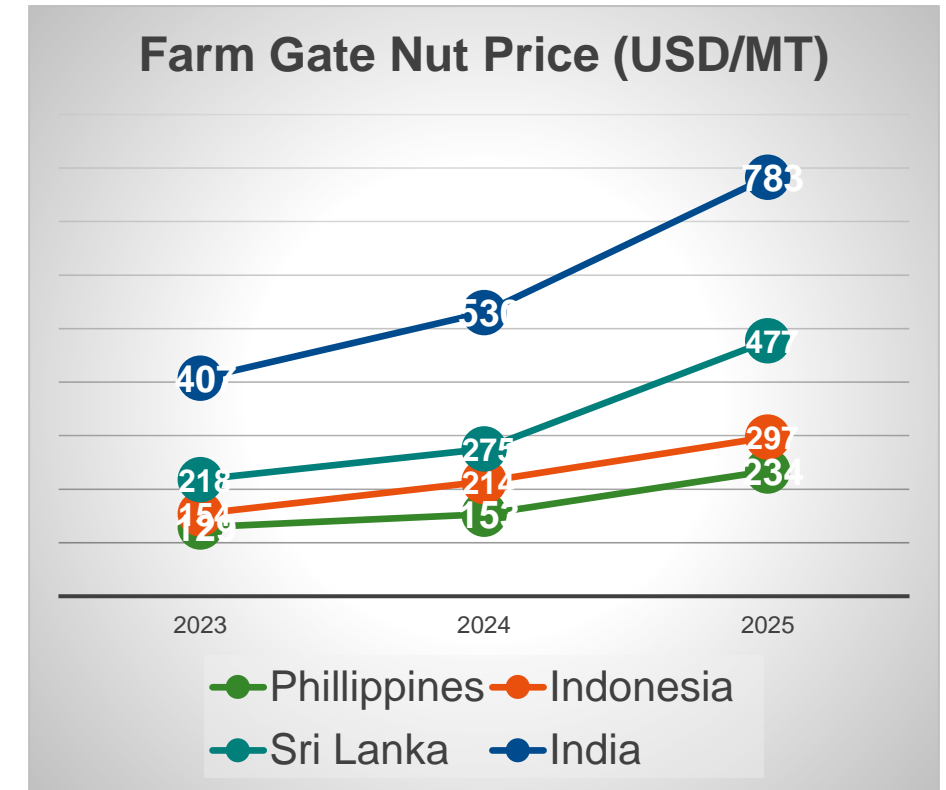


Impacts of a Shortage of Raw Materials in Coconut Industry

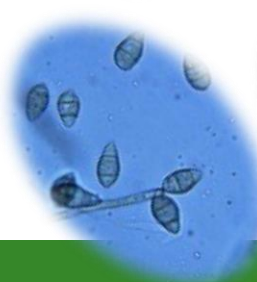


KILASRIAUI.com – Kebijakan pemutusan hubungan kerja (PHK) massal yang dilakukan oleh PT Pulau Sambu Grup dan PT RSUP di Kecamatan Pulau Burung dan Kecamatan Kateman, Kabupaten Indragiri Hilir, menuai sorotan tajam dari berbagai pihak. Sebanyak 1.700 pekerja dari PT Pulau Sambu Grup dan 1.800 pekerja dari PT RSUP terpaksa kehilangan mata pencaharian akibat kelangkaan bahan baku kelapa.

Thousands of workers have been laid off in Sambu group coconut industry due to a shortage of raw materials caused by low production



Source: ICC: UCAP, CDA, CDB
Raw material price trend in major coconut producing countries



- *Rhynchophorus*
- *Cyrtotrachelus*
- *Oryctes*
- *Brontispa*
- *Promecotheca*
- *Plesispa*
- *Artona*
- *Opisina*
- Limacodidae
- *Sexava*
- *Segestes*
- *Amblypelta*
- *Aspidiotus*
- Budrot, LYD, BCS,

1st International Symposium on IPM in Coconut

ICC in collaboration with the Philippines Coconut Authority (PCA) organized a four-day virtual International IPM Symposium on Coconut, **23-26 August 2022**.

The theme: *“Implementing IPM to Sustainably Protect Coconut, Producers and Industry”*.

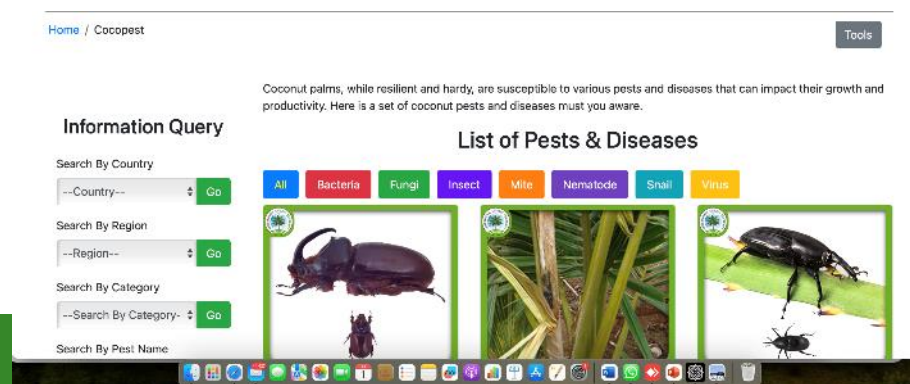


IOP Conference series provides global visibility, open access, & long-term accessibility, enhancing the impact & reach of the scholarly contributions

ICC-CABI Collaboration: cocopest webpage



<https://cocopest.coconutcommunity.org/webpage/data/2>



Knowledge Sharing on Pest management at The 50th International COCOTECH Conference & Exhibition



Speakers: 39

Exhibitors: 40 from 7 countries

Conference Participants &

Exhibition visitors: **937 from 52**

countries
KNOWLEDGE FOR LIFE



Coconut & Bio-products exhibited at the 50th International COCOTECH Conference & Exhibition in KL



Pest Management 50th International COCOTECH Conference & Exhibition

The Field Trip





Workshop on Good Agriculture Practices (GAP)

Tissue Culture Symposium: disease-resistant variety development



Tissue Culture Workshop



Technical Working Group and Quality Standards Meeting



Collaboration with NAM-CSSTC, Embassy of Indonesia in Timor Leste

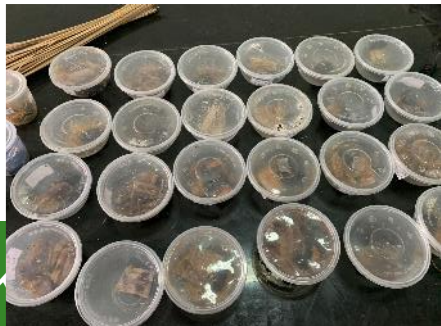


Capacity Building for
Coconut Replanting
Program, propagation and
use of biocontrol products



Research Collaboration on CRB-G with CSIRO

(Commonwealth Scientific & Industrial Research Organization)



Article

Alternative DNA Markers to Detect Guam-Specific CRB-G (Clade I) *Oryctes rhinoceros* (Coleoptera: Scarabaeidae) Indicate That the Beetle Did Not Disperse from Guam to the Solomon Islands or Palau

Wee Tek Tay ^{1,*}, Sean D. G. Marshall ², Angel David Popa-Baez ¹, Glenn F. J. Dulla ³, Andrea L. Blas ⁴, Juniaty W. Sambiran ⁵, Meldy Hosang ⁶, Justine Bennette H. Millado ⁷, Michael Melzer ⁸, Rahul V. Rane ⁹, Tim Hogarty ¹⁰, Demi Yi-Chun Cho ¹, Jelfina C. Alouw ^{6,11}, Muhammad Faheem ¹² and Benjamin D. Hoffmann ¹³

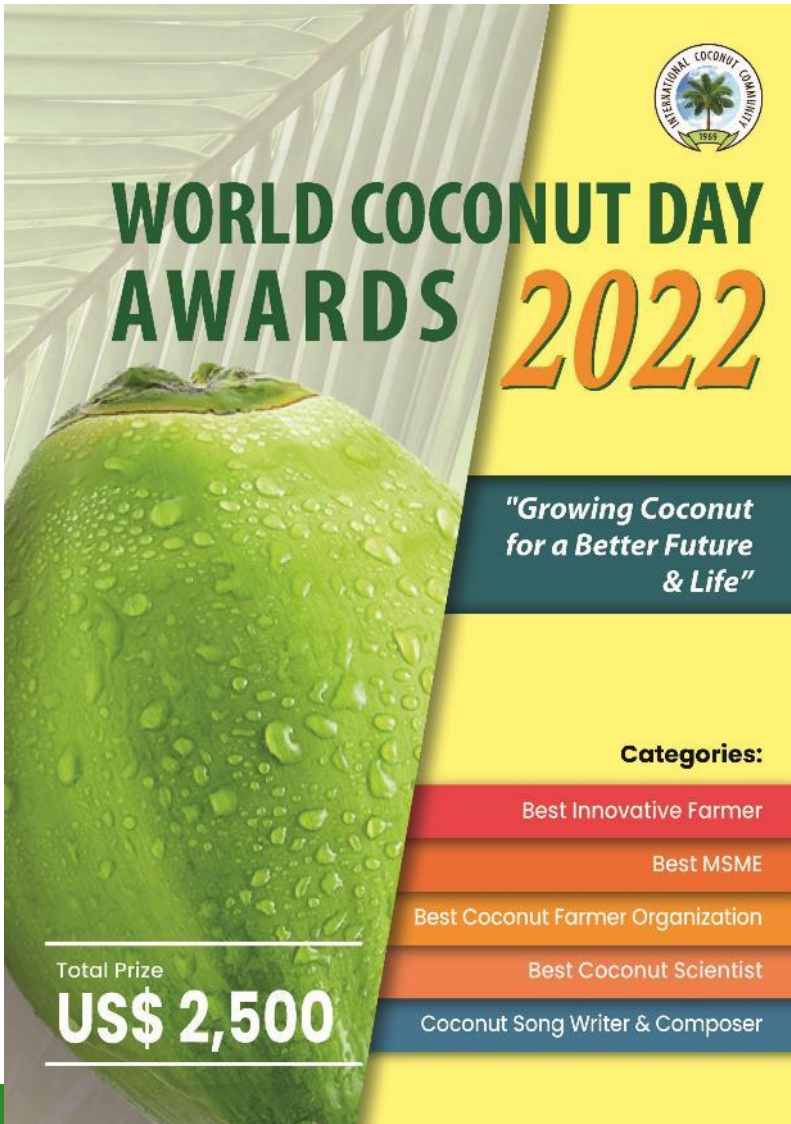


multigene approaches can provide more comprehensive evidence than single-gene analyses

Use of either the mtCOI or mtCOIII genes is recommended as an initial approach to first confirm that samples are *O. rhinoceros*



World Coconut Day Awards 2022



WORLD COCONUT DAY AWARDS 2022

"Growing Coconut for a Better Future & Life"

Categories:

- Best Innovative Farmer
- Best MSME
- Best Coconut Farmer Organization
- Best Coconut Scientist
- Coconut Song Writer & Composer

Total Prize
US\$ 2,500

KNOWLEDGE FOR LIFE



IPM in Coconut

(PNS/BAFS 238:2018 ICS 65.020)

PHILIPPINE NATIONAL STANDARD

Code of Good Agricultural Practices (GAP) for coconut

PNS/BAFS 238:2018

ICS 65.020

Annex E (informative)

Integrated Pest Management strategies

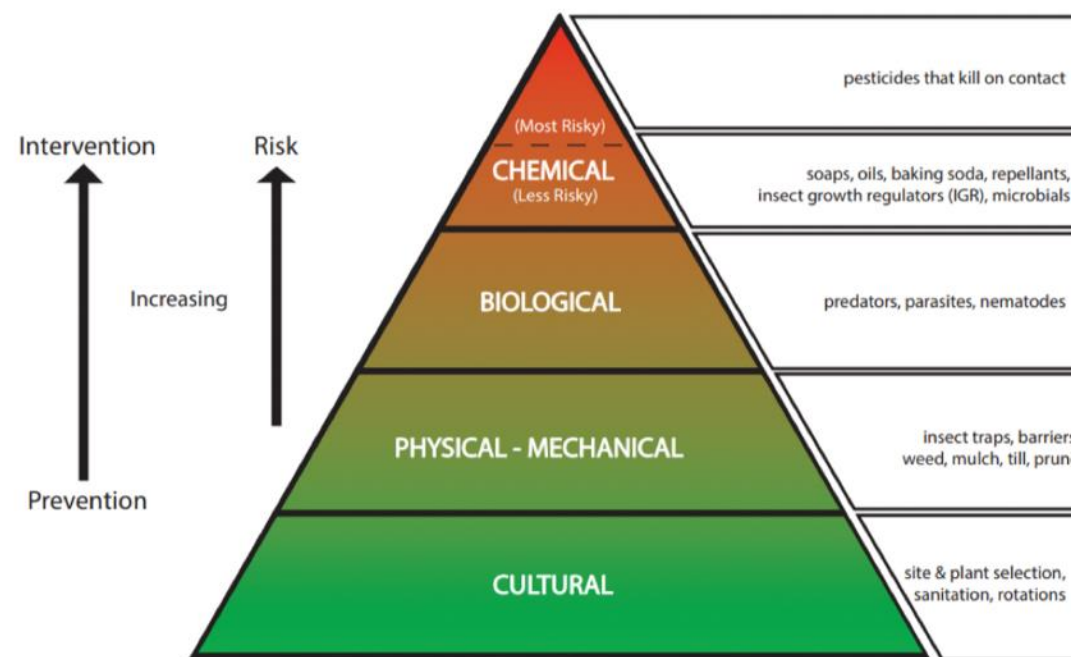


Figure E.1 – Pyramid of IPM tactics

PHILIPPINE NATIONAL
STANDARD

PNS/BAFS 238:2018
ICS 65.020

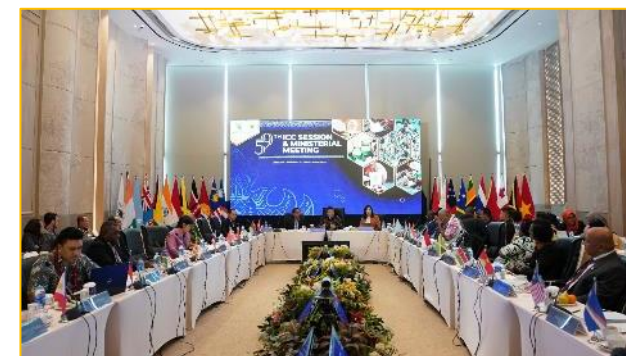
Code of Good Agricultural Practices (GAP) for
coconut



BUREAU OF AGRICULTURE AND FISHERIES STANDARDS
BPI Compound Visayas Avenue, Diliman, Quezon City 1101 Philippines
Trunkline: (632) 928-8741 to 64 loc. 3301-3319
E-mail: info.dabafs@gmail.com
Website: www.bafs.da.gov.ph

ICC's Program to Address Low Coconut Production due to Pests & Diseases

1. International Certificate Course for Coconut Development officers
2. The International Training Course for Youth in the Coconut Industry (2024-2025)
Theme: Empowering the Future of Coconut Sector: A Youth-Led Transformation Program through Sustainable Partnerships
3. 4. COGENT- ITAGs (International thematic action group 3 for R&D (phytopathology, entomology, germplasm movement)



Youth Empowerment program

Theme: Empowering the Future of Coconut Sector: A Youth-Led Transformation Program through Sustainable Partnerships



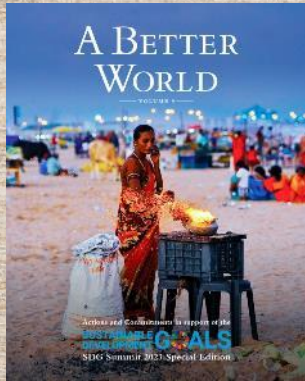
- 🌴 Workshops on coconut farming, sustainability, and market trends (virtual, 2024).
- 🌴 Skill development programs in processing and digital marketing
- 🌴 Internship opportunities in coconut industries or CRI
- 🌴 Entrepreneurship grants
- 🌴 Community development initiatives.



Networks & Collaboration Ways Forward



ICC PUBLICATIONS IN 2023



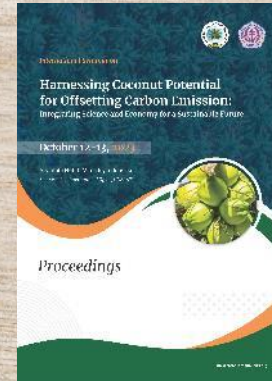
SDG Summit
2023 – A Better
World



International
COCOTECH
Conference – IOP
Conference Series



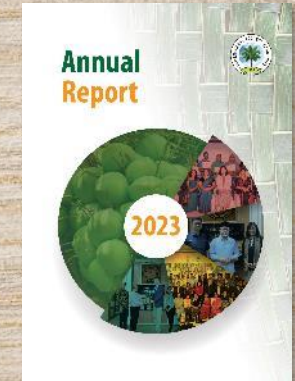
International IPM
Symposium on
Coconut – IOP
Conference Series



Proceedings of the
International
Seminar on
Harnessing Carbon
Potential for
Offsetting Carbon
Emission



Report and
Proceedings of the
59th ICC Session &
Ministerial Meeting



Annual Report
2023



Coconut
Research &
Development



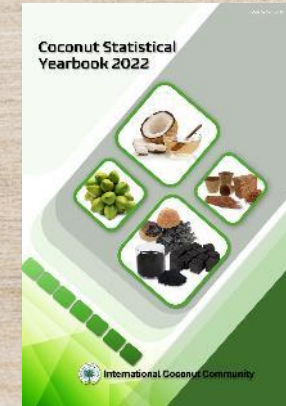
Cocoinfo
International (2)



The
Cocommunity
(12)



Quarterly
Bulletin (4)



Coconut Statistical
Yearbook



COGENT
Newsletter 2023



Sketch by Jacobi, 2022

**Reduce the risk of
pesticide use
through
collaborative
efforts**



**to achieve
sustainable and
resilient coconut
sector**





Vinaka
cảm ơn bạn
धन्यवाद
Terima kasih
Gratias tibi

Asante
Ko rab'a
Komumool
Kalahngan
Tenk yu

Salamat
Fa'afetai
Tanggio
நன்றி
චූචතුඬ

Obrigadu
Mālō 'aupito
Tangkyu

Thank you