

Cities 4.0

21 - 22 SEPT 2021 | 9am - 5pm (GMT+8)

REIMAGINING CITY TRANSFORMATION



Smart Living



Smart Mobility



Smart Government



Smart Economy



Smart People



Smart Digital Infrastructure



Smart Environment

Co-Organised by:



Supporting Organisation:



Strategic Platform:



Gold sponsors:



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www.cities4pointzero.com

OVERVIEW

Reimagining City Transformation

Cities around the world are reimagining the future, using the pandemic as an opportunity to come up with urban solutions that will make life better and more prepared for crisis. They are aspiring to create greener spaces in their urban areas, improve connectivity, reduce congestion, focus on sustainability, be more adaptive and smarter with technology and materials.

As people have been forced inside, out of schools and workplaces as well as away from one another, new challenges have been presented. Life may not return to the way it once was. Cities will

need to adapt to a new reality and there are no universal solutions.

The hosting of the fourth edition of Cities 4.0 will once again provide the governments, municipalities, urban planners, developers, urban futurists, solution providers and innovators an interactive platform converge and discuss on methods and best practices to re-imagine our fundamental relationship with the cities, the opportunities to work outside their normal methods.

Key themes of Cities 4.0

- Rethinking Urban Development In A Post Pandemic World
- High Density Development With Low Density Activities – The Way Forward
- Edge-Computing-Enabled Smart Cities: Reshape The City Experience
- From Smart Cities To Connected Communities
- Harnessing Technologies To Transform Disaster Readiness
- Development Of Greener And Cleaner Cities
- New Traffic Patterns And Healthy Mobility
- Decoding The Low-Touch Economy
- Strategies In Developing Secondary Cities Into Smart City



KEY ELEMENTS OF SMART CITIES



Open Data



Open Culture



Open Standards



Open Infrastructure



Smart Citizen



Smart Utility



Smart Houses



Smart Buildings



Smart Mobility



Smart Energy



Smart Retail



Internet of Things



Smart Governance



Smart Resilience



Smart Health & Sanitation



Open for everyone

SMART SOLUTIONS

E-Governance and Citizen Services

- 1 Public Information, Grievance Redressal
- 2 Electronic Service Delivery
- 3 Citizen Engagement
- 4 Citizens - City's Eyes and Ears
- 5 Video Crime Monitoring

Waste Management

- 6 Waste to Energy & fuel
- 7 Waste to Compost
- 8 Waste Water to be Treated
- 9 Recycling and Reduction of C&D Waste

Water Management

- 10 Smart Meters & Management
- 11 Leakage Identification, Preventive Maint.
- 12 Water Quality Monitoring

Energy Management

- 13 Smart Meters & Management
- 14 Renewable Sources of Energy
- 15 Energy Efficient & Green Buildings

Urban Mobility

- 16 Smart Parking
- 17 Intelligent Traffic Management
- 18 Integrated Multi-Modal Transport

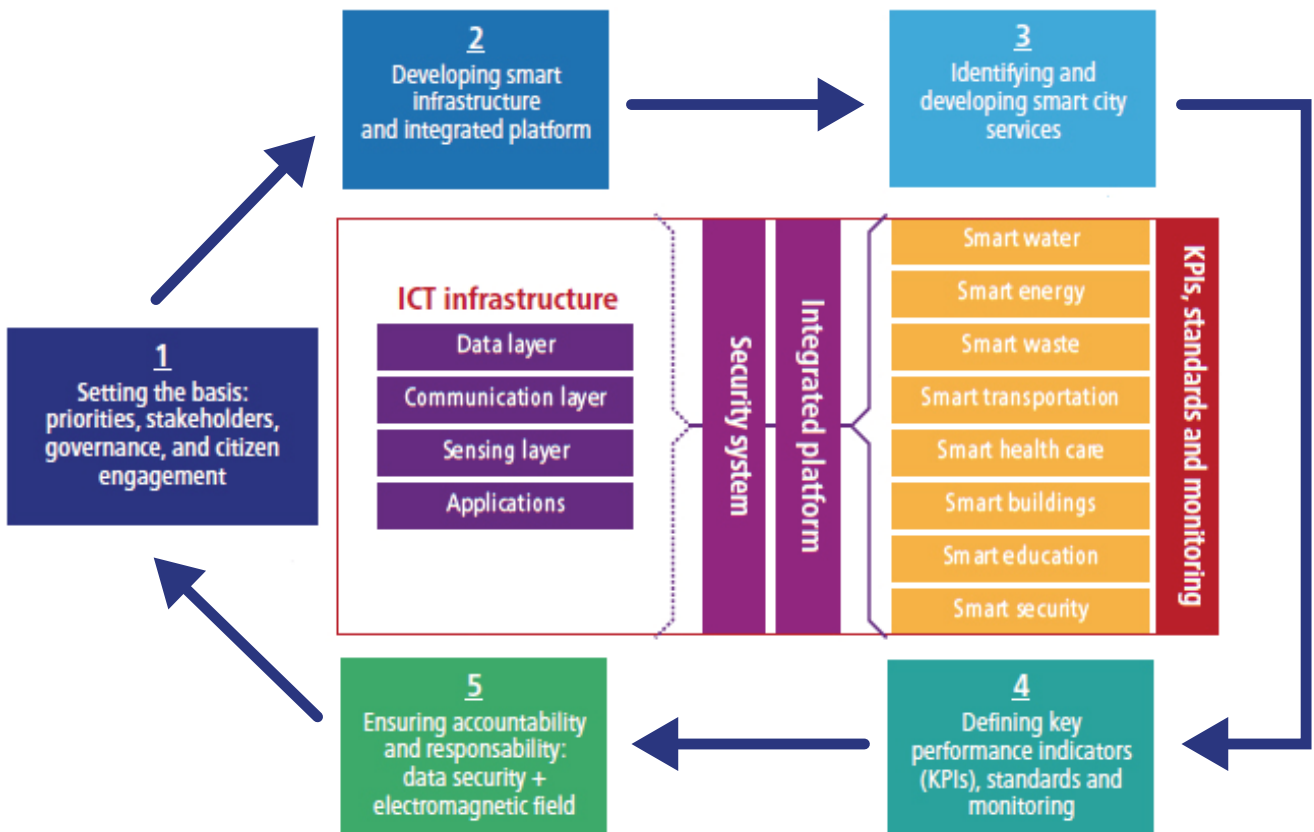
Others

- 19 Tele-Medicine & Tele Education
- 20 Incubation/Trade Facilitation Centers
- 21 Skill Development Centers

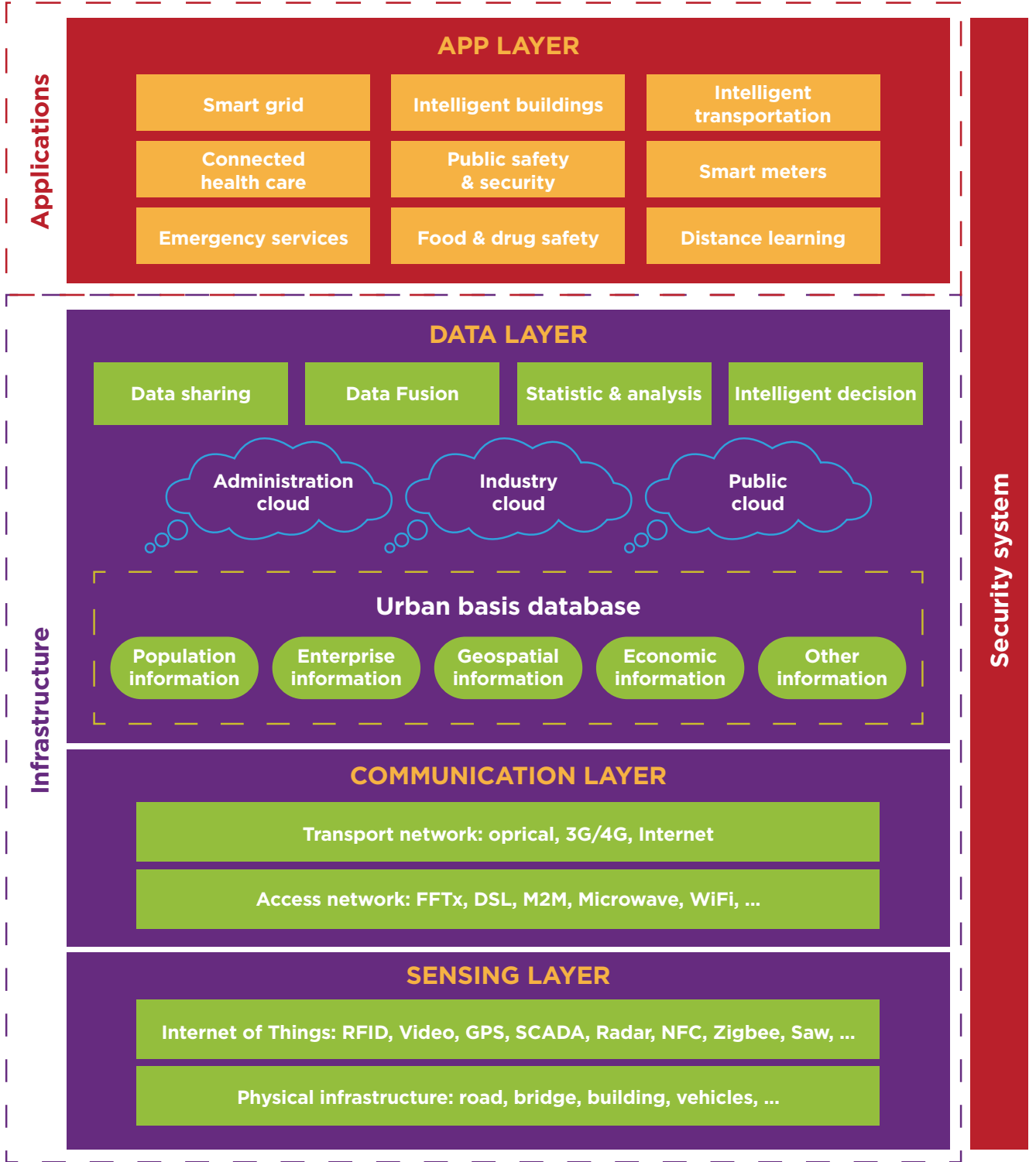
SMART CITY OPPORTUNITIES AND CHALLENGES



SMART CITY FRAMEWORK



ARCHITECTURE OF A SMART SUSTAINABLE CITY



► PROGRAM

DAY ONE: 21 SEPTEMBER 2021, TUESDAY

OPENING CEREMONY

9:00AM **INTRODUCTORY REMARKS**

9:05AM **SPECIAL ADDRESS**

9:10AM **INAUGURAL ADDRESS AND LAUNCH OF CITIES 4.0 2021 CONFERENCE AND EXHIBITION**

PLENARY SESSION

9:35AM **Plenary Address 1: Rethinking Urban Development in A Post Pandemic World**

10:00AM **Plenary Address 2: High Density Development with Low Density Activities - The Way Forward**

10:25AM **Plenary Address 3: Inclusive, Green and Smart: A New Urban Paradigm Shift**

10:50AM **Plenary Address 4: The Low-Touch Economy: Is Your City Ready?**

11:15AM **Plenary Address 5: Edge-Computing-Enabled Smart Cities: Reshape the City Experience**

11:35AM Open Forum: Questions and Answers

12:00PM End of Session

► PROGRAM

SESSION ONE: FROM SMART CITIES TO CONNECTED COMMUNITIES

12:30PM	Paper 1: Enhancing City Performance and the Wellbeing of Citizens through Ubiquitous Connectivity
12:55PM	Paper 2: A Sensable City: Deployment of Mobile Sensors for Urban Monitoring
1:20PM	Paper 3: Seamless Virtual Network for Undisrupted Continuity of Business
1:45PM	Paper 4: End-to-end Connectivity Solutions for Remote Schooling
2:10PM	Paper 5: Under One Roof: The Rise of Intergenerational Housing
2:35PM	Open Forum: Questions and Answers
3:00PM	End of Session

SESSION TWO: HARNESSING TECHNOLOGIES TO TRANSFORM DISASTER READINESS

3:05PM	Paper 6: Deployment of Drones for Real-time Data Collection, Monitoring, Search and Rescue
3:30PM	Paper 7: Mitigating the Impacts of Disaster with Remote Sensing
3:55PM	Paper 8: Integrated Information Centre for Improved Efficiency in Crisis
4:20PM	Paper 9: Tackling Flood and Water Scarcity with Sponge City Technology
4:45PM	Open Forum: Questions and Answers
5:10PM	End of Session

► PROGRAM

DAY TWO: 22 SEPTEMBER 2021, WEDNESDAY

SESSION THREE: DEVELOPMENT OF GREENER AND CLEANER CITIES

- 9:00AM **Paper 10: Increasing Urban Green Space in Promoting Healthy Living and Wellbeing**
-
- 9:25AM **Paper 11: Expanded Green Network for Urban Farming for Advancing Food Security**
-
- 09:50AM **Paper 12: Balancing Urban Development and Efficient Use of Natural Resources**
-
- 10:15AM **Paper 13: Developing Cities that Recycle, Manage Waste and Use of Renewables**
-
- 10:40AM Open Forum: Questions and Answers
-
- 11:00AM End of Session

SESSION FOUR: NEW TRAFFIC PATTERNS AND HEALTHY MOBILITY

- 11:05AM **Paper 14: Assess and Communicate Traffic Flow, Congestion and Safety through AI and Sensors-enabled Devices**
-
- 11:30AM **Paper 15: A Move to Driverless and Autonomous Public Transportation**
-
- 11:55AM **Paper 16: Modifying Existing Road Infrastructure to Facilitate Active Transportation**
-
- 12:20PM **Paper 17: Improving Urban Air Quality with the Use of Hydrogen Fuel in Transportation**
-
- 12:45PM Open Forum: Questions and Answers
-
- 1:05PM End of Session

► PROGRAM

SESSION FIVE: DECODING THE LOW-TOUCH ECONOMY

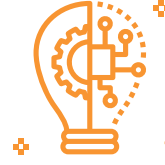
01:35PM	Paper 18: Making Cashless Economy A Reality in Smaller Cities: The Practical Applications
02:00PM	Paper 19: Enriching Retail with Virtual, Simulated and Interactive Experiences
02:25PM	Paper 20: Deployment of Service Robots Replacing High-risk Human Interactions in Service Businesses
02:50PM	Paper 21: Driving Growth in Manufacturing with Low-touch Technologies
03:15PM	Paper 22: On-demand Fleet Management Solutions: Empowering Low-touch Economy
03:40PM	Open Forum: Questions and Answers
04:00PM	INDUSTRY LEADERS FORUM
04:50PM	CLOSING ADDRESS
05:00PM	CITIES 4.0 CONFERENCE 2021 ENDS

REASONS WHY YOU SHOULD NOT MISS THIS



UNDERSTAND THE FUTURE TRENDS

Hear from inspiring urban futurist and business innovators on new technologies & applications



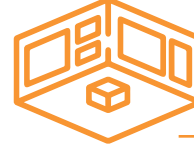
COMPREHENSIVE CONTENT

Updated information reflecting your most concerned issues in developing smart, resilient and sustainable cities



DISTINGUISHED PRESENTERS

Renowned best practitioners, industry leaders and innovators sharing insights



EXTENSIVE SHOWCASE

Discover new and innovative technologies and services within cities for social good, sustainability, resilience and equity



PREMIUM NETWORKING

Unrivalled networking and exchange of experiences across 15+ countries



BUSINESS OPPORTUNITY

Explore potential collaborations and with 300+ local and international industry stakeholders



SPONSORSHIP PACKAGE IN A GLANCE

Increase your organisation's visibility with key Decision makers before, during and after the event.

	Titanium	Platinum	Gold	Silver	Conference Sponsor
Logo on Conference Collateral	✓	✓	✓	✓	✓
Logo on A& P Material	✓	✓	✓	✓	✓
Logo on Digital Backdrop	✓	✓	✓	✓	✓
Speaking Slot during Conference	✓	✓	✓		✓
10-second Corporate Video via Live Broadcast on Conference Day	✓	✓			
Running Ticker during Live Broadcast	✓	✓	✓		
Panellist in 'Expert Insight @ Live' Forum	✓	✓			
10-second Corporate Video via Live Broadcast on 'Expert Insight @ Live' Forum	✓	✓			
Booth @ Virtual Expo (Valid for 12 months)*	Premium	Premium	Premium	Sponsor	Exhibitor
Conference Log-in	5	4	3	2	3
Leaderboard Ads on Conference Website	✓	✓			
Banner on Conference Mobile App	✓	✓			
Logo & Profile on Conference Website	✓	✓	✓	✓	✓
Logo & Profile on Conference Mobile App	✓	✓	✓	✓	✓
Logo & Profile on Digital Program Book	✓	✓	✓	✓	✓
Web banner on www.confexhub.com (6 months)	✓	✓			
Logo & Recognition via Conference Social Media Platforms	✓	✓	✓	✓	✓
Business Matching Meetings	5	5	3	3	2

*Exhibition Package in A Glance

	Premium	Sponsor	Exhibitor
Booth @ Virtual Expo (Valid for 12 months)*	1st tier	2nd tier	3rd tier
Logo on Virtual Expo Homepage as 'Premium Sponsor'	✓		
Conference Log-in	2	1	1
Dedicated Company Info Page	✓	✓	✓
Logo on Company Info Page	✓	✓	✓
Video Presentation on Company Info Page	✓	✓	
Images on Company Info page	8	6	4
Logo & Profile on Conference Website	✓	✓	✓
Logo & Profile on Conference Mobile App	✓	✓	✓
Logo & Recognition via Conference Social Media Platforms	✓	✓	✓

Contact us now to discuss customised sponsorship packages that will maximise your business opportunities

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E: conference@confexhub.com

WHO SHOULD SPONSOR / EXHIBIT:



Smart Government

Web-base / PBT e-governance applications

- HR system
- Finance system
- Acquisition system

Web-base / PBT e-services applications

- Complain system
- Hire purchase system
- License application system

GIS system

- Urban observatory
- GeoLicensing
- GeoHealth
- GeoLandscape
- GeoSolidwaste
- GeoEnforcement
- GeoTransport
- GeoBuilding
- GeoEngineering
- GeoCommunity
- GeoCoMs
- GeoRiver



Smart Mobility

- Pedestrian / bicycle lane including 'Glow in the dark' tracks
- Traffic Management
- Intelligent Transportation Management system (e.g. IT IS, command Centre) to improve standard and efficiencies of traffic flow
- Smart Traffic Light
- Smart Parking
- Parking Guidance Information System
- Parking Apps
- Smart Vehicles
- Electric Vehicle
- Charing Station
- Bike sharing
- Public Transport System
- E-ticketing
- Smart Terminal
- E-hailing
- Transit & Traffic Information System



Smart Digital Infrastructure

- Broadband provision: 4G/5G/WiFi
- In Building Coverage
- Community Internet Centre
- Telco towers
- Internet / communication infrastructure
- Personal Data Protection
- Cyber Security
- Firewall and antivirus applications



Smart Economy

- Digital Economy / cashless payment for public services through
- Online payment
- Mobile apps
- E-wallet
- Kiosk
- Smart Tourism
- Smart tourist Apps; e-ticket; e-book
- Smart Information
- Push Notification
- Live Streaming 360
- Virtual Tourist Guide



Smart Environment

- **Disaster Management**
 - Flood alert system & CCTV
 - Real-time data integration with command centre
- **Drone / UAV**
 - UAV-monitoring mosquito breeding control work for low-cost housing
 - UAV-investigation on illegal landfill and cleaning work planning
 - UAV-investigation on illegal building modification
- **Green space / Tree Planting**
 - Tree Planting campaign
 - Tree Inventory Web Application
- **Low Carbon Initiatives**
 - Car-Free Day
 - Smart Lighting
 - Building Retrofitting Programme
 - Solar building
 - Solar Lighting
- **Green Neighbourhood**
 - Green Neighbourhood Programme
- **Muninet**
 - MUNIINet – Sustainable City Indicator
- **Environmental Management**
 - Smart Water Management
 - Air Pollution Monitoring System
 - Environment IoT Sensor
 - Smart Water Meter
- **Sustainable City**
 - Sustainable city planning, design and lifestyle
- **Waste Management**
 - Compost
 - 3R projects
 - Smart Bin
 - Smart Waste Management
 - GPS tracking for Garbage Truck
 - Waste-to-energy
 - Biogas
- **SPAH**
 - Rain Harvesting system



Smart Living

- Safe City / command Center / Integrated Operation Centre
- Safe city program
- CPTED
- CCTV
- Panic button
- Integrated Operation Center / Command Center
- Crime Prevention Community
- Smart sensors for vandalism
- Crime Mapping
- Dashboard / real time data
- Video Analytics
- Digital Health / Medical
- Health Apps (MySejahtera, Covidtrace, e-health, e-clinic)
- Telemedical Apps (geo location facilities, health information, tele-communication)
- Upgrading of Housing / Infrastructure
- Smart Building / Smart Home
- Building Retrofitting (solar, SPAH, LED Light, Park / landscape, 3R, roof top garden)
- Smart home system (sensors, solar panel, smart card access wi-fi, phone coverage, smart TV, CCTV, Home watch by smartphone)
- Smart Pole
- Public Park and Recreation
- Smart Public Park
- Urban Farming
- Solar-powered Farm
- Community Farm



Smart People

- Digital Information Board for public and tourist
- Local Agenda 21 Program
- Community Empowerment program
- Industry engagement program
- Digital library
- Digital learning & education
- LED display billboard

REGISTRATION FORM



Title Mr. Mrs. Ms. Dr. Others (specify) : _____

Name (as per passport)* _____

Name (to be appeared on conference badge) _____

Email* _____

Passport No. _____ Date of Issue D D / M M / Y Y Y Y

Country of Issue _____ Expiry Date D D / M M / Y Y Y Y

Job Title* _____

Company* _____

Address* _____

City/State _____ Postcode _____

Country _____

Telephone* _____ Fax* _____

Mobile Number* _____

*(Please include country and area code)

FEE PER DELEGATE

PRICE

EARLY BIRD

(registration with FULL payment received before 30 June 2021)

USD 300

NORMAL RATE

(registration with FULL payment received after 30 June 2021)

USD 375

* fees are subjected to additional 6% SST

PAYMENT

Full payment is required with your Registration Form before the Conference day. Tax-Receipt will only be issued upon receipt of full payment.

All payments should be made in USD (\$) by credit card, telegraphic transfer or cash only

All registrations by fax or post MUST reach us before 1 September 2021, after which late registrations will be considered as "WALK-INS" and subjected to "WALK-IN" fee.

PARTICIPATION TERMS AND CONDITIONS

Delegates may be substituted at any time, in writing, at NO extra charge.

Cancellations received in writing before 1 August 2021 will be refunded, less a 100 USD administrative fee. Cancellations received thereafter are not refundable.

Confexhub reserves the right to reschedule or cancel the conference, exhibition, cocktail reception, due to circumstances beyond their control and reserves the right to make changes to the conference program or speakers without prior notice.

Should the event and all its related activities be cancelled, curtailed or adversely affected by any cause not within the reasonable control of Confexhub including but not limited to war, fire, national emergency, labor dispute, strike, lock-out, civil disturbance, Act of God, or non-availability of premises for any reason, Confexhub shall be under no obligation to refund all or part of the sums paid by the delegate in respect of his/her participation in the workshop. Confexhub shall be under no liability to the delegate or any other person in respect of any actions, proceedings, claims, demands, losses (including consequential losses), costs or expenses whatsoever which may be brought against or suffered or incurred by the delegate as the result thereof.

PLEASE COMPLETE AND FAX BACK TO +603 2771 1669

For enquiries, please contact at +603 2771 1668 or email: conference@confexhub.com

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**Cities 4.0 2021 Secretariat
c/o Confexhub Group**

Suite 1707, 17th Floor, Plaza Permata, No. 6, Jalan Kampar, off Jalan Tun Razak, 50400 Kuala Lumpur, Malaysia secretariat@cities4pointzero.com

+603 2771 1668 +603 2771 1669 conference@confexhub.com www.cities4pointzero.com

21 June 2021

Ref.: CITIES4.0/EMMY/0040

H.E. Mrs. Merve Safa Kavakci
Ambassador Extraordinary and Plenipotentiary
Embassy of The Republic of Turkey in Malaysia
Menara Tan & Tan
Level 18, 207 Jalan Tun Razak
50450 Kuala Lumpur
Malaysia

Dear H.E. Mrs. Merve Safa Kavakci,

RE: INVITATION TO PARTICIPATE VIRTUALLY IN 2021 TRADE MISSIONS

Warm greetings from Confexhub Group!

We are pleased to announce that Confexhub Group in collaboration with the Malaysian Industry-Government Group for High Technology (MIGHT) will be organising a series of virtual trade missions to bridge collaboration between industry stakeholders and potential partners in Malaysia.

We are a leading thought leader network solutions provider focuses on delivering Industry Economic & Policy Studies, Global Business and Investment Matching, as well as Industry Intelligence to enable decision making. We provide strategic solutions and valuable insights on market landscape, mega trends and economic development policies, roadmaps, blueprints and masterplans that drive transformative growth. We facilitate market entry and aid the growth and development of the Asian economies through the flow of reliable and quality researched industry information and analytics.

We frequently organise trade missions through mega industry gathering to provide updates on market and industry trend while facilitate business matching meetings between the buying and selling actors for 12 key business domains which include urban development, energy, transportation, water & sanitation, agriculture, forestry, environment & waste, healthcare, tourism, education and information & communication.

Together with our partners, we have scheduled the following trade missions in 2021:

Cities 4.0 2021 (21 - 22 September 2021)
Future-Proofed Palm Oil (22 - 25 November 2021)

On behalf of the organising committee, I would like to take the opportunity to invite your good office to organise a trade mission to participate in the aforesaid events. The proposal and benefits of participating in these events as below:

Confexhub Group

Suite 1707, 17th Floor, Plaza Permata, No. 6, Jalan Kampar, off Jalan Tun Razak, 50400 Kuala Lumpur, Malaysia

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info@confexhub.com

www.confexhub.com

Cambodia

Indonesia

Laos

Malaysia

Myanmar

Philippines

Singapore

Thailand

Vietnam

OPTION 1: TO ORGANISE A COUNTRY PAVILION TO SHOWCASE TECHNOLOGY PROVIDERS FROM YOUR HOME COUNTRY

VIRTUAL SPONSOR PACKAGE @ USD 500 per company

- One (1) x **Virtual Sponsor booth (Valid for 12 months)**
- **One (1)** unique log in for **Virtual Conference**
- One (1) x dedicated company information page on virtual expo website
- One (1) x **logo** AND up to Six (6) x **product pictures** to be on the company information page **(Valid for 12 months)**
- One (1) x **video presentation** on the company information page
- **Two (2) business matching sessions with potential partners in Malaysia** (to be conducted in a group under the lead of your Embassy)
- Company name, logo and corporate profile listing within the virtual conference website
- Company logo and profile listing on conference mobile App
- Acknowledgement on Conference social media platform

Benefits to companies:

- Promote its technologies/solutions/ services to local / international delegates and trade visitors;
- Generate leads continuously and stay connected with industry stakeholders;
- Bridge collaboration with potential business partners;
- Enhance company's brand exposure to the Malaysian and ASEAN market;
- Boost its branding as an industry advocator / leading player;
- Leverage on its competitive advantage and enhance its market share

Benefits to the Embassy:

- An unparalleled opportunity to facilitate market entry for your member;
- Position your chamber as an active advocator in bridging collaboration;
- Be connected with key industry stakeholders in Malaysia / ASEAN;
- Promote the brand of the chamber through **1 x complimentary booth** provided by the organizer *(under the terms and conditions of minimum 5 participating companies under your country pavilion)*
- To be **recognized as 'Strategic Partner'** of the aforesaid events. Recognition will be given through marketing collateral, website, social media platforms, during Opening Ceremony of the virtual conference held alongside the virtual exhibition
- 2 x complimentary ID to attend the virtual conference *(under the terms and conditions of minimum 5 participating companies under your country pavilion)*

OPTION 2: TO ORGANISE DELEGATION TO GAIN LATEST UPDATES AND MARKET INFORMATION

VIRTUAL CONFERENCE PASS @ USD 300 per order ID

- **One (1)** unique log in for **Virtual Conference**

- **One (1) business matching session with potential partner in Malaysia** (to be conducted in a group under the lead of your chamber)

Benefits to companies:

- Stay connected with industry stakeholders;
- Bridge collaboration with potential business partners;

Benefits to the Embassy:

- An unparalleled opportunity to facilitate market entry for your member;
- Position your chamber as an active advocator in bridging collaboration;
- Be connected with key industry stakeholders in Malaysia / ASEAN;
- Promote the brand of the chamber through complimentary booth provided by the organizer *(under the terms and conditions of minimum 10 participating companies under your country pavilion)*
- To be recognized as 'Strategic Partner' of the aforesaid events. Recognition will be given through marketing collateral, website, social media platforms, during Opening Ceremony of the virtual conference held alongside the virtual exhibition
- 1 x complimentary ID to attend the virtual conference for every 5 paid participants under your trade mission

We trust you will favourably consider our proposals.

Kindly contact the secretariat, **Ms. Dinusha** at **6012 627 2505** for further details. Alternatively, you can email us at dinushaws@confexhub.com.

Thank you.

Yours Faithfully,



Datuk Dr. Abdul Aziz S.A. Kadir
Chairman, Confexhub Group



FUTURE-PROOFED PALM OIL

Future-Proofed Palm Oil 2021
International Summit & Exhibition

22 - 25 November 2021
2.00pm - 5.00pm (GMT+8)

**FULLY
VIRTUAL**



DISMANTLING **BARRIERS**
REVITALISING **PREFERENCE**



Co-Organized by:

MiGHT
Malaysian Industry-Government Group
for High Technology

 **confexhub**
Thought Leader Network Solutions

OVERVIEW

Future-Proofed Palm Oil Summit

What is required to dismantle barriers and revitalise preference?

It started off with critics unassumingly linking palm oil to heart diseases that was then truced after counter-arguments based on scientific evidences. Then came the claim that palm oil is a primary contributor to deforestation. Followed by the European Union voting for the revision of the Renewable Energy Directive II regulatory framework to phase-out palm oil biodiesel from 2021 in favour of soybean and rapeseed derived biodiesel.

Whilst the cloud is still hanging, the US government has stopped the entry of palm oil consignments coming from two of the world's largest producers, under the pretext of forced labour. The denied entry is already fueling deep concerns among the global industry players, concerned that this ruling may influence other major export destinations to follow suit. Of late, there has been a resurgence of anti-palm oil campaigns, even at school level, associated with the disappearance of orang utans to palm oil expansion. Even though there have been existing legislations to

protect and prohibit the oil palm cultivation expansion under existing conservation programs, these never seem to be enough.

What is clear is the negative narratives against oil palm began after palm oil displaced soybean oil from the top spot. Despite being certified to the relevant criteria on GHG emission, biodiversity and labour, the palm oil industry is constantly being harassed and penalized. The industry is beginning to be suspicious of a hidden agenda behind all such rulings – a trade wolf in green sheep clothing?

Is it high time for the palm oil industry to take a more proactive and aggressive position in dispelling such baseless claims by the competitors? Is it time for the concerned certification bodies to come forward to defend palm oil, dispelling all the allegations? What would be the impact of the legal actions filed by Malaysia and Indonesia with the World Trade Organization against the European Union's restrictions on palm oil biodiesel?

Continuing from the discussion on future proofing palm oil initiative last year, the FPPO2021 will further address the following areas:-

- Is there a middle ground in resolving the trade ban impasse?
- What is the potential impact and complication on the litigation filed against the EU on palm oil biofuel bans?
- How the industry can further enhance Carbon Neutrality practices to gain back favour?
- How to drive new strategies to develop new income while going carbon neutral with palm oil wastes.
- Where to implement energy efficiency technologies to lower or eliminate carbon footprint in oil palm processing?
- How to recover, rebound, rebrand and reimage under the post-pandemic?
- How do we break the hidden yield deadlock without hectareage expansion?
- How labour saving technologies will reduce palm oil's addiction to manual labour?

WHO SHOULD EXHIBIT

- Argo Chemical
- Fertilizer
- Pesticide
- Insecticide
- Boilers
- Biomass Processing Technologies
- Contract Manufacturing & Turnkey Projects
- Certification
- Design & Consultancy Services
- Electrical & Electronics Industries
- Manufacturing Waste and Water Management & Recycling
- Material Handling
- Material Testing & Inspection
- Metal Components & Products
- Oil & Fats Producers & Processors
- Laboratory Equipment
- Palm Oil Processing Plants
- Palm Oil Processing Equipment
- Palm Oil Refineries
- Processing & Packaging Machinery Suppliers
- Storage Companies Tools, Dies & Moulds
- Transportation & Heavy Equipment

WHO SHOULD PARTICIPATE

- Palm Oil Plantations, Mills and Refineries
- Physical Traders, Importers and Exporters
- Futures Traders, Hedge Fund Managers and Commodity Analysts
- Bankers and Insurance Brokers
- Futures Exchanges in fats and oils
- Manufacturers and Supplier of Palm Olein and Palm Stearin
- Manufacturers and Suppliers of Food and Beverages
- Manufacturers and Suppliers of Soaps, Detergents and Cosmetics
- Bulking facility and logistic providers
- Testing and Certification providers
- Sustainability civil societies and stakeholders
- Smart Agriculture Technology Providers
- Agro-chemicals – Fertilizer, Pesticide and Insecticide
- Biomass Technology Providers
- Biodiesel producers and facility owners
- Waste Water Technology providers
- Palm Oil Processing Plants
- Palm Oil Processing Equipment

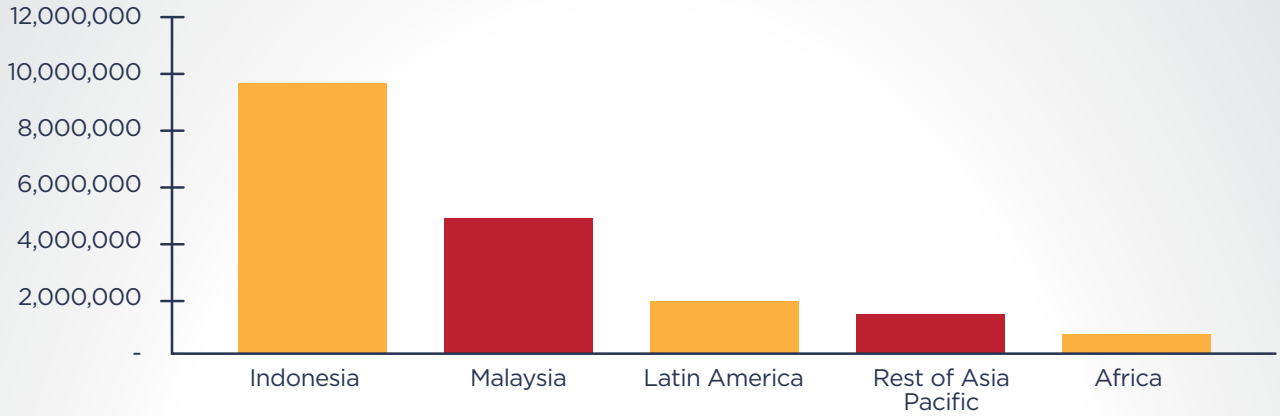
KEY FACTS IN A BRIEF

RSPO (as in 15 Feb 2021)	MSPO (as in 15 Feb 2021)	ISPO (as in 30 July 2020)
4.43 Million Hectares Certified	5.21 Million Hectares Certified	5.4 Million Hectares Certified
17.21 Million Tonnes Certified	23.24 Million Tonnes Certified	13.00 Million Tonnes Certified
446 Palm Oil Mills Certified	452 Palm Oil Mills Certified	N/A
87 Growers Certified	435 Growers Certified	621 Growers Certified

Source: RSPO, MSPO and ISPO

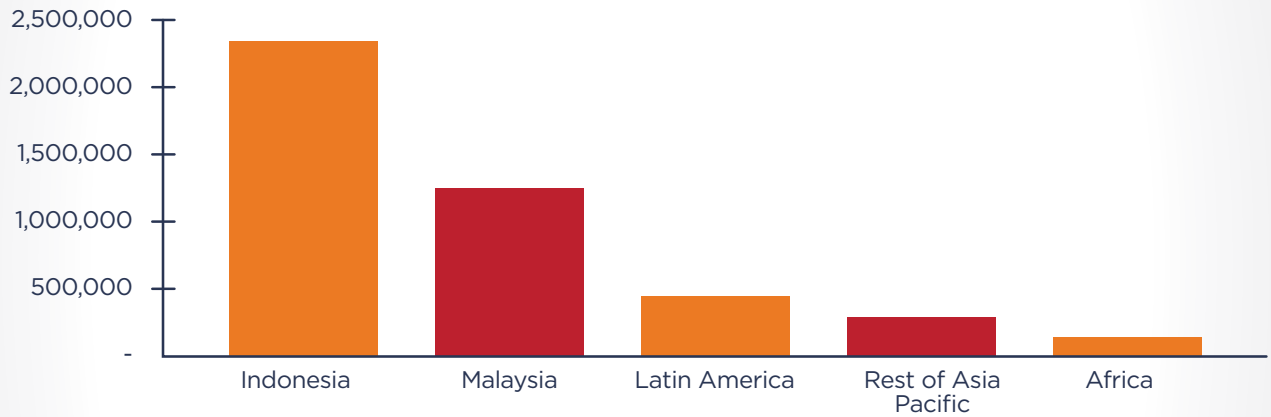
RSPO CERTIFIED PRODUCTION VOLUME BY REGION

Total: 17.21m mt as of 31/12/20



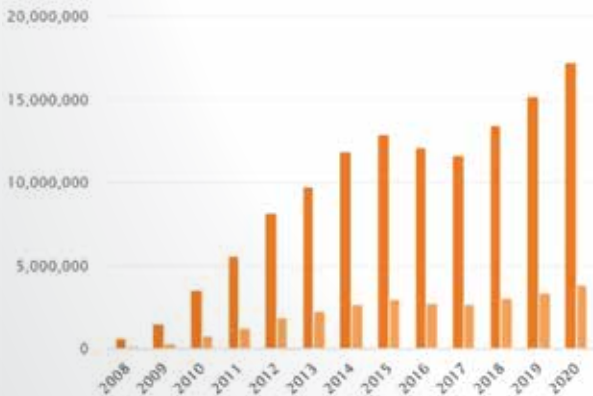
RSPO CERTIFIED PRODUCTION AREA BY REGION

Total: 4.43 m ha as of 31/12/20

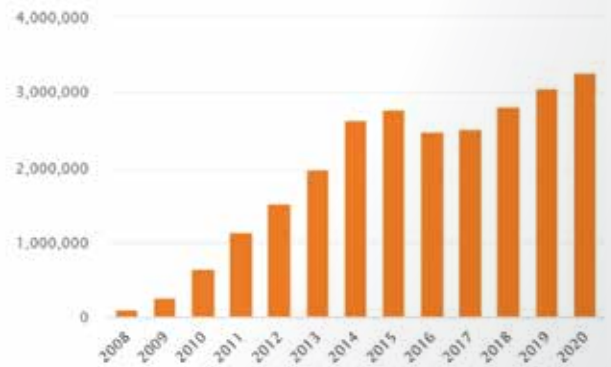


RSPO CERTIFIED PRODUCTION VOLUME AND AREA

Annual certified production volume of CSPO and CSPK (MT) ⓘ

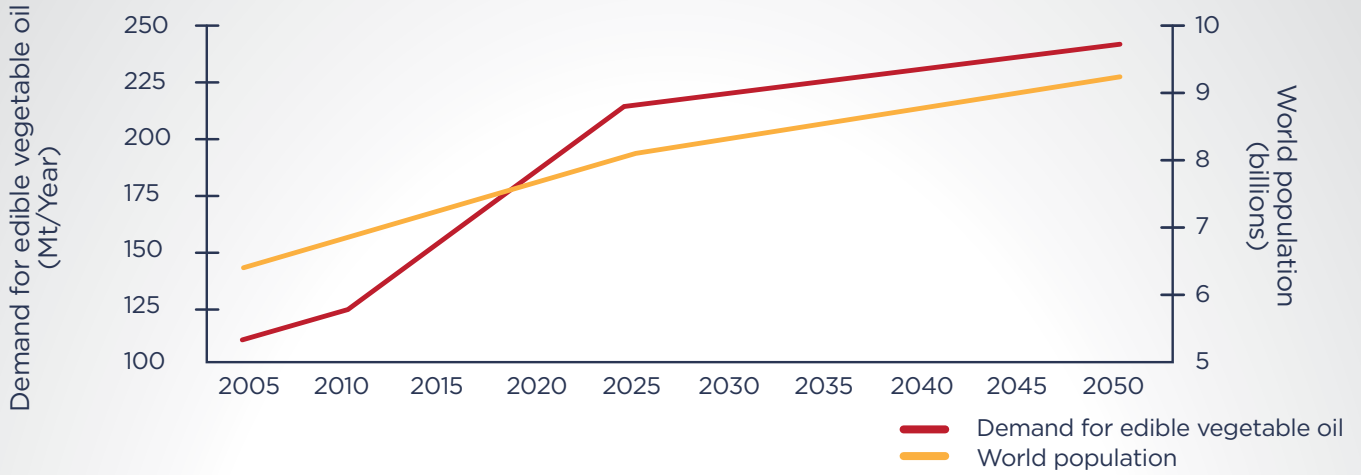


Certified Sustainable Palm Oil production area (ha) ⓘ



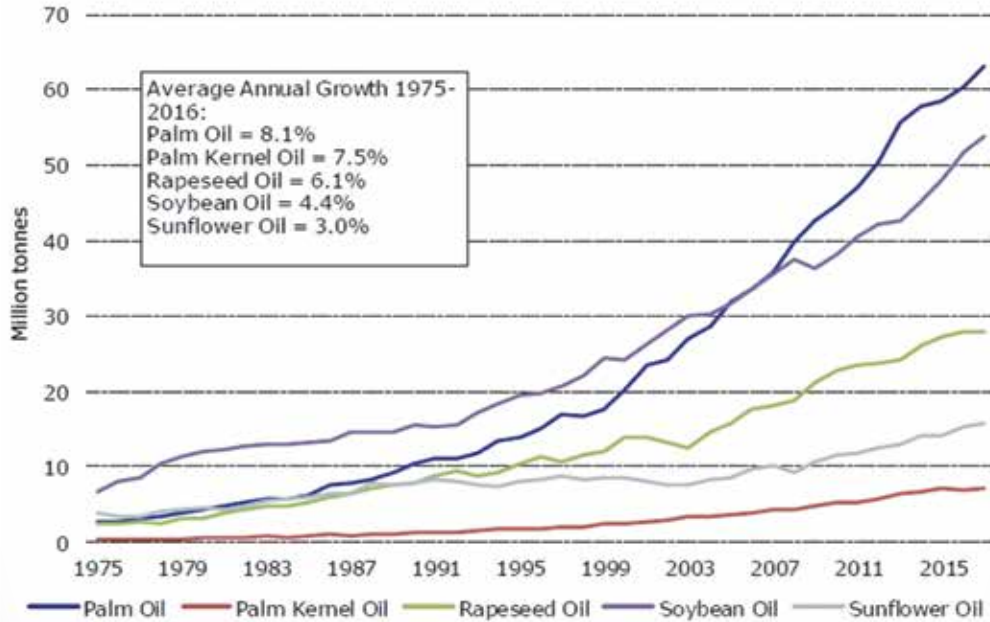
Source: RSPO

DEMAND FOR VEGETABLE OIL



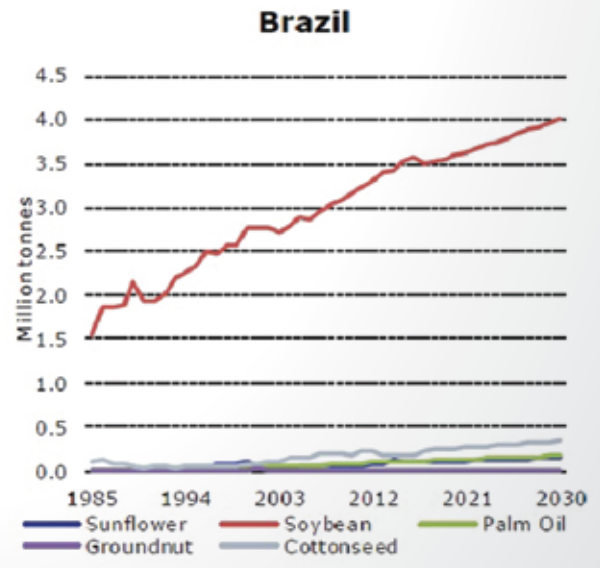
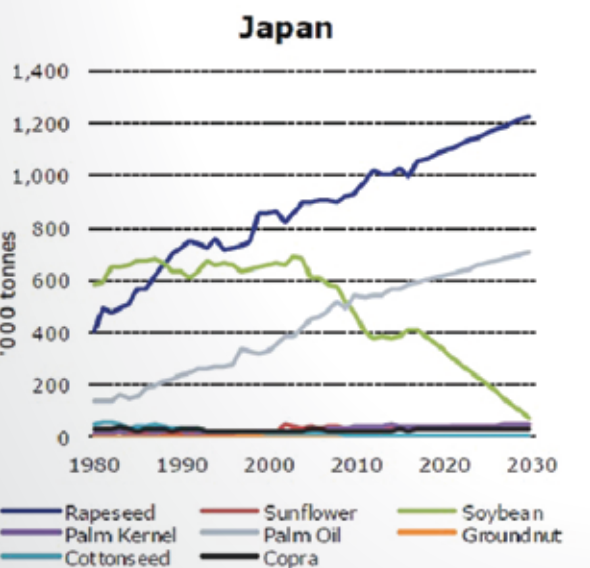
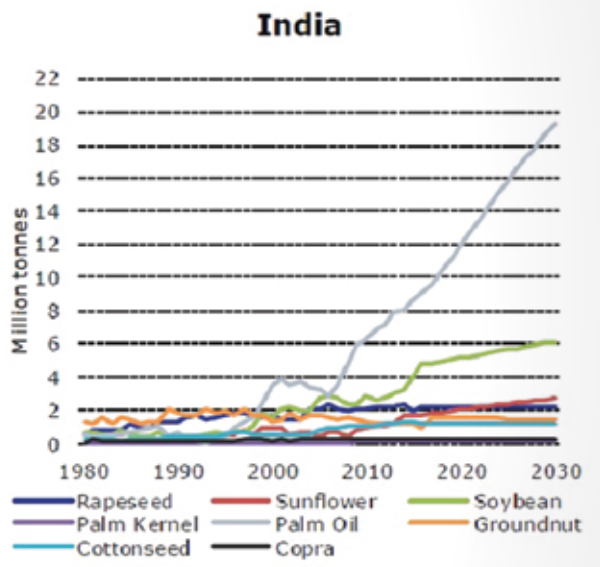
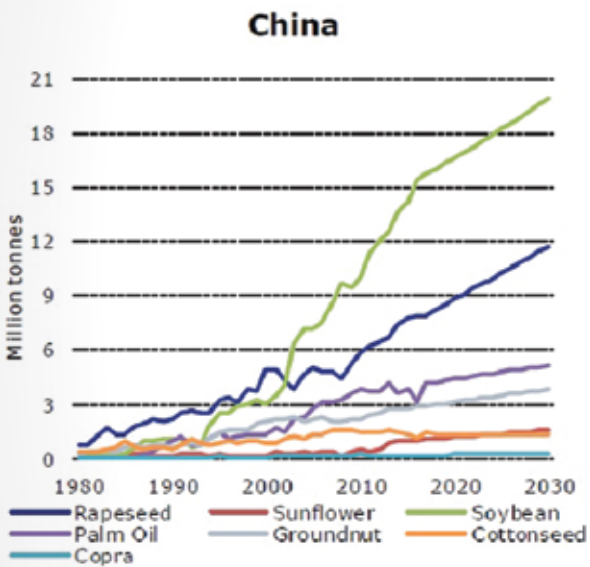
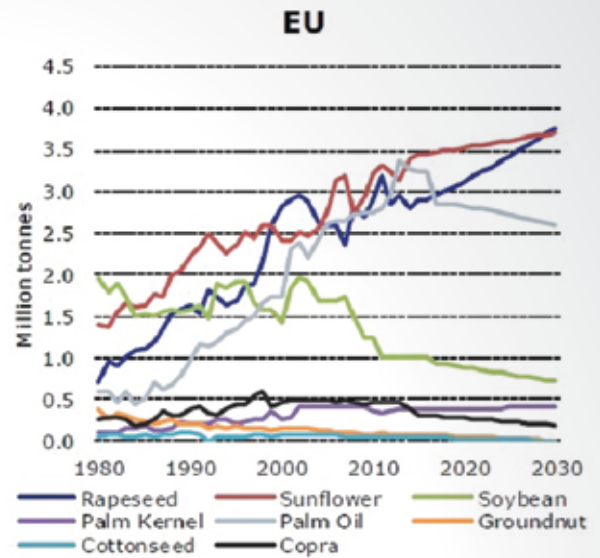
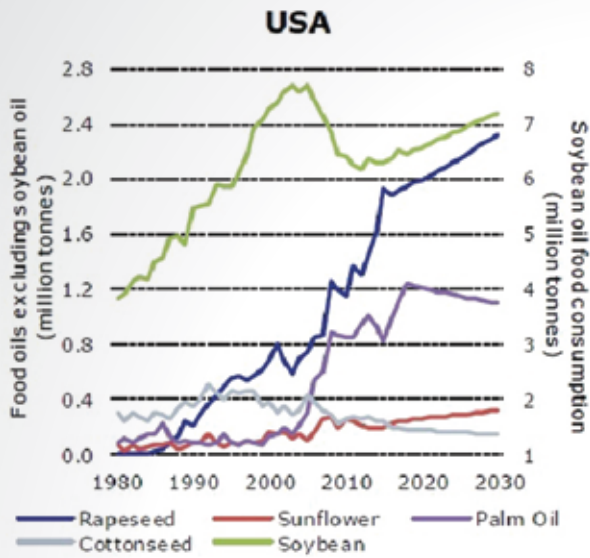
Source: IUCN oil palm and biodiversity report

VEGETABLE OILS GROWTH COMPARISON



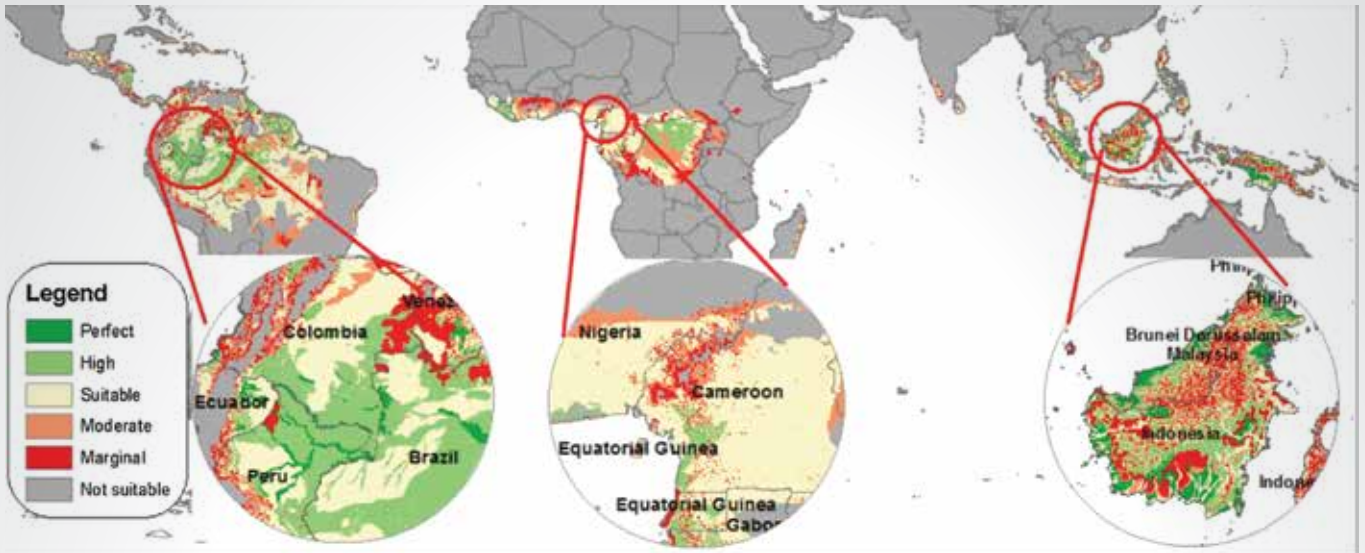
Source: LMC

VEGETABLE OIL CONSUMPTION BY TYPE FOR MAJOR MARKETS



Source: LMC

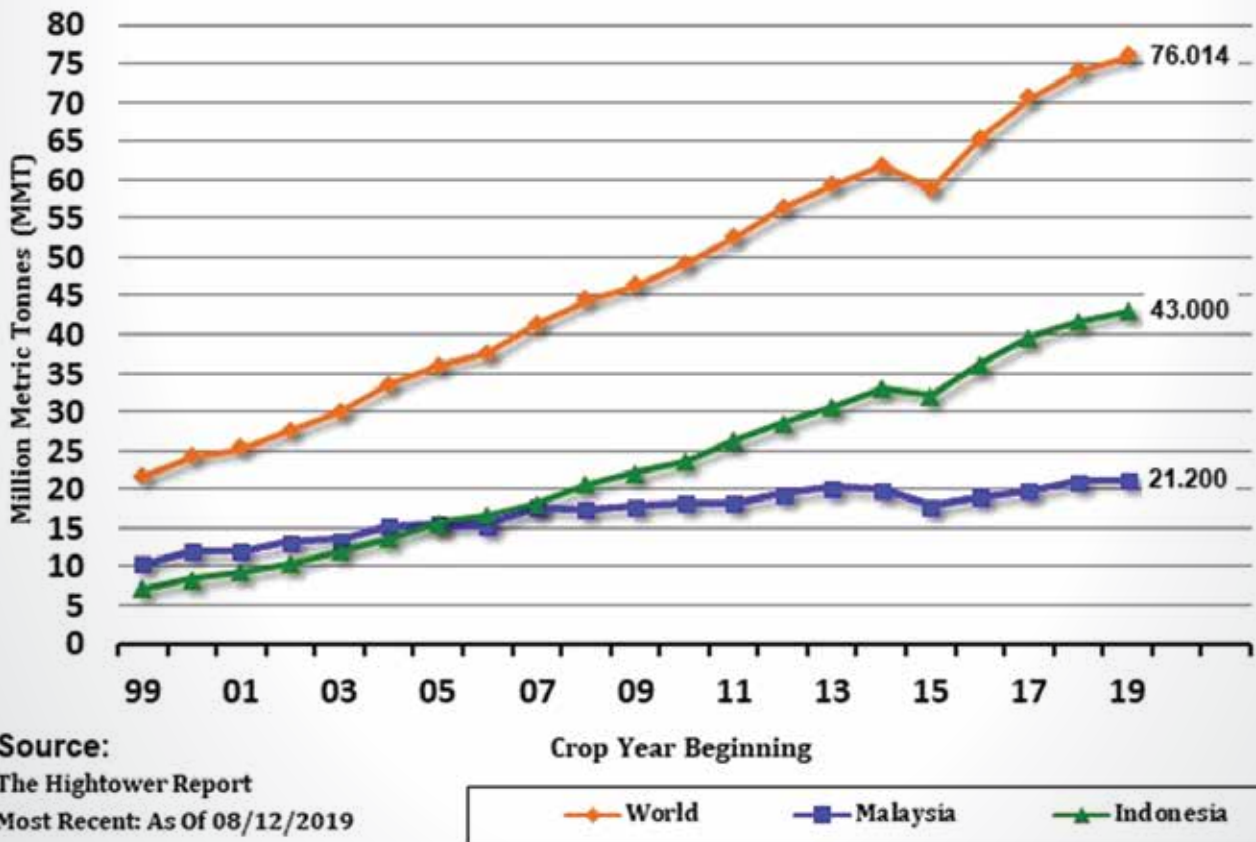
AREAS SUITABLE FOR PALM OIL CULTIVATION



Source: Johannes Pirker

PALM OIL PRODUCTION BY MALAYSIA AND INDONESIA

Palm Oil Production Comparison



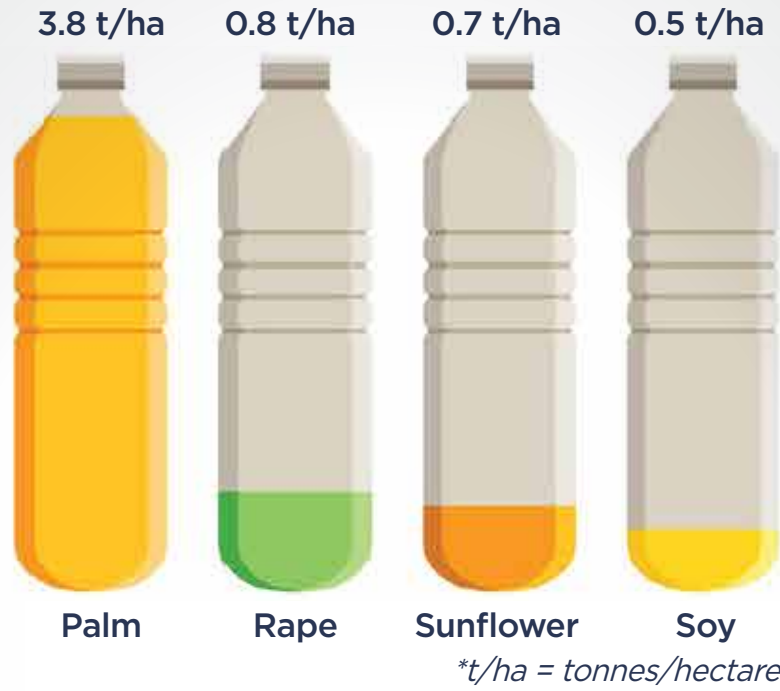
Source:
The Hightower Report
Most Recent: As Of 08/12/2019

COMPARISON ON CERTIFICATION'S PRINCIPLES OF 4 MAJOR PALM OIL SUSTAINABILITY STANDARDS

No.	RSPO	ISCC (Biomass)	MSPO	ISPO
1	Behave ethically and transparently	Produced on land with higher biodiversity value or high carbon stock and not from peat land. HCV areas shall be protected.	Transparency	Licensing system and plantation management
2	Operate legally and respect rights	In compliance with all applicable regional and national laws and shall follow relevant international treaties	Compliance to legal requirements	Technical guidelines for palm oil cultivation and processing
3	Optimize productivity, efficiency, positive impacts and resilience	Good management practices shall be implemented	Best practices	Sustainable business development
4	Respect community and human rights and deliver benefits	Shall not violate human rights labour rights or land rights	Social responsibility, health, safety and employment conditions	Strengthening community economic activities
5	Protect, conserve and enhance ecosystems and the environment	Shall be produced in an environmentally responsible way.	Environment, natural resources, biodiversity and ecosystem services	Environment management and monitoring
6	Respect workers' rights and conditions	Safe working conditions	Management commitment and responsibility	Responsibilities for workers
7	Support smallholder inclusion	N/A	Development of new plantings	Social and community responsibility

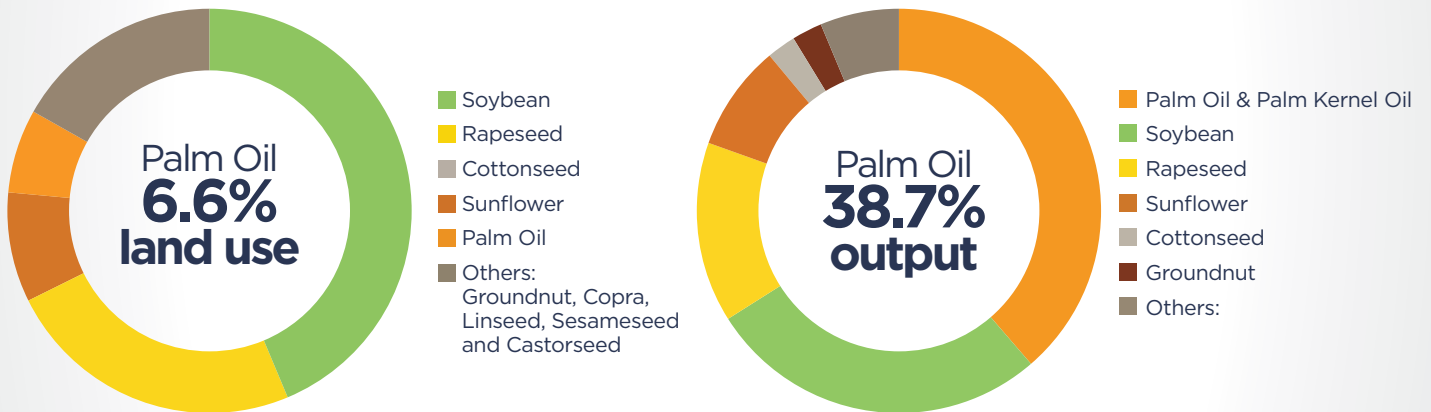
Source: RSPO, MPOCC, ISPO, ISCC, MIDFR

LAND USE EFFICIENCY



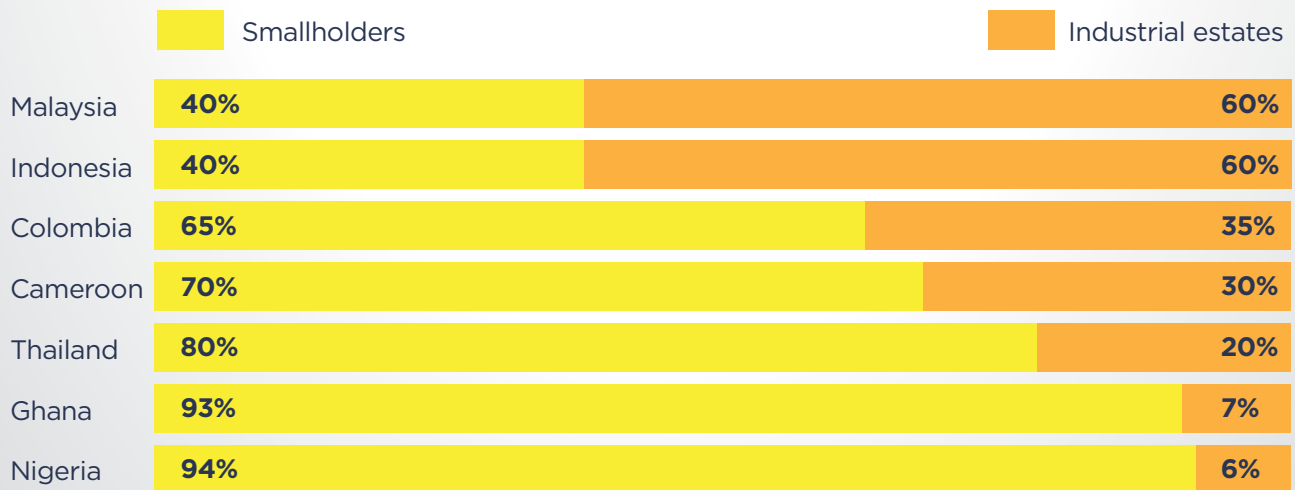
Source: Infographic by the European Palm Oil Alliance.

PALM OIL LAND USE & OUTPUT



Source: IUCN oil palm and biodiversity report

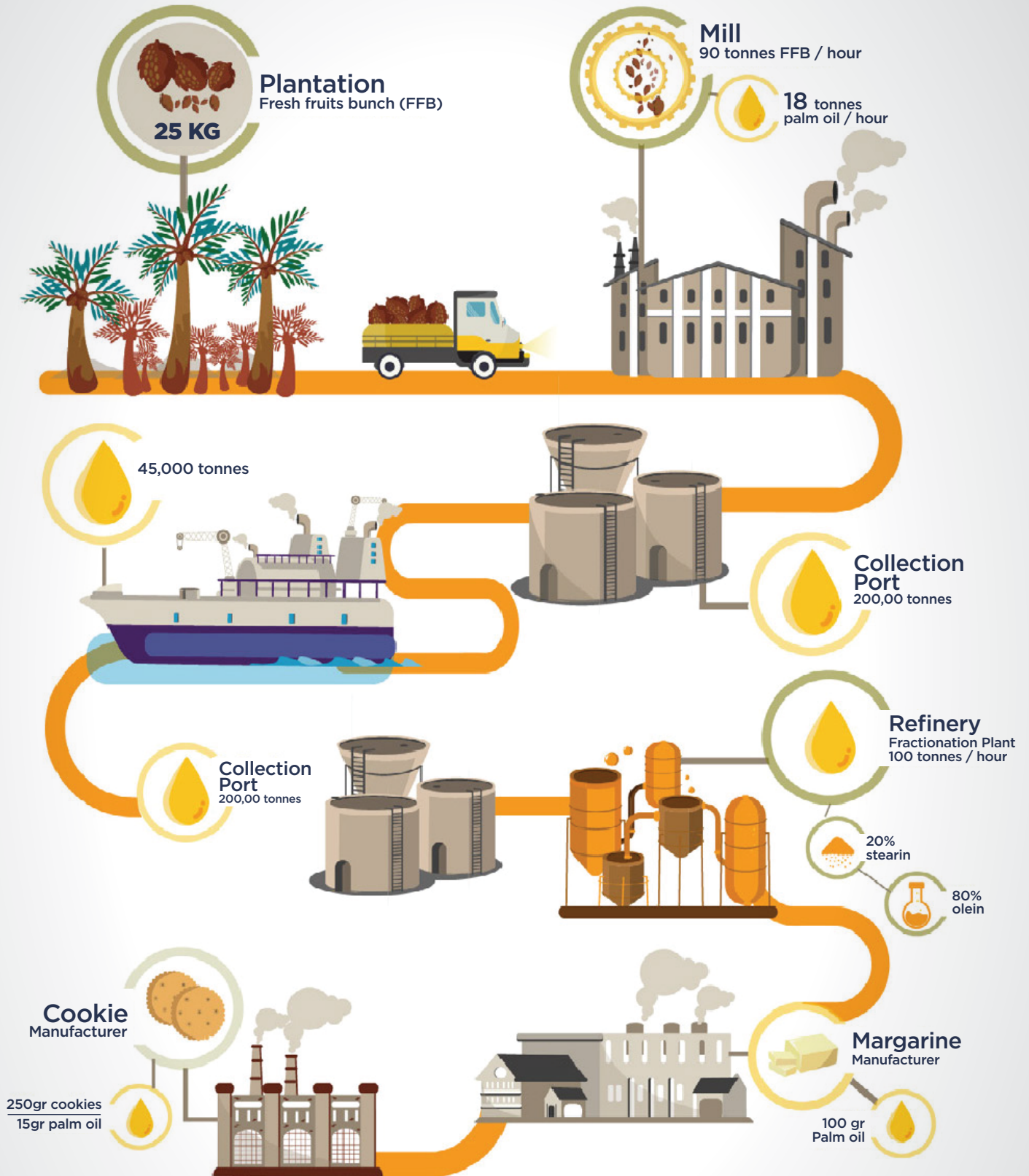
PROPORTION OF LAND AREA OF SMALLHOLDER AND ESTATE



Source: IUCN oil palm and biodiversity report

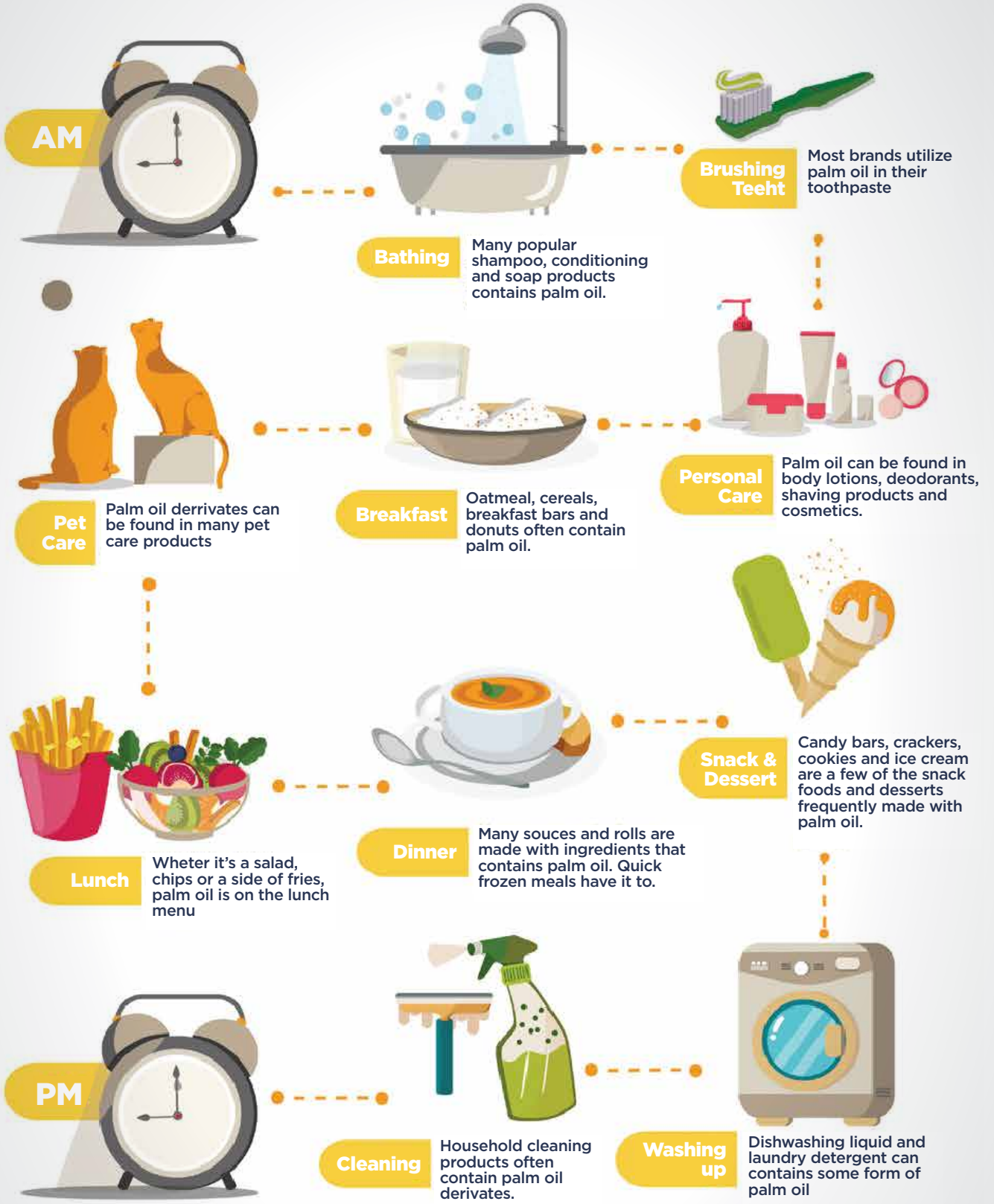
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PALM OIL SUPPLY CHAIN



Source: Infographic by RSPO.

PALM OIL APPLICATIONS



Source: Infographic by Philadelphia Zoo.

► PROGRAM

DAY ONE: 22 NOVEMBER 2021, MONDAY

OPENING CEREMONY

- 02:00PM **INTRODUCTORY REMARKS**
Datuk Dr. Abdul Aziz S.A. Kadir, Chairman, Confexhub Group
-
- 02:05PM **WELCOME ADDRESS**
-
- 02:10PM **SPECIAL ADDRESS**
-
- 02:25PM **SPECIAL ADDRESS**

PLENARY SESSION

- 02:50PM **Plenary Address 1: The World Bank's Report on the Global Oils and Fats Market Outlook for 2022**
-
- 03:15PM **Plenary Address 2: European Oilseed Outlook on Market and Policy – Palm and Kernel Oils Position**
-
- 03:40PM **Plenary Address 3: China's Vegetable Oil Outlook on Market and Sustainability – Palm and kernel oils Prospects**
-
- 04:05PM **Plenary Address 4: India's Vegetable Oil Supply and Demand – Position on CSPO and CSPK**
-
- 04:30PM **Plenary Address 5: Global Supply and Demand for Palm and Kernel Oils for 2022**
-
- 04:55PM **Plenary Address 6: Global Post-Pandemic Investment Outlook in Palm and Lauric Oils Industries**
-
- 05:20PM **Plenary Address 7: Global CSPO Outlook - Status, Changes and Directions in Meeting Current and Future Requirements**
-
- 05:45PM Open Forum: Comments, Questions and Answers
-
- 06:05PM End of Session

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Program @ 9 March 2021

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DAY TWO: 23 NOVEMBER 2021, TUESDAY

SESSION ONE: FLIPPING THE SWITCH ON TRADE BARRIERS

The EU Parliament has voted for Palm oil-based biofuels to be completely banned by 2021, whereas, other crop-based biofuels will be capped at 7% and enjoy a gradual reduction to 3.8% by 2030. The decision to ban oil palm is linked to the EU's belief that the oil palm is to blame for deforestation. The other trade ban came from the US Customs and Border Protection against the importations of palm oil from the world's largest producers over allegations of forced labour. Even though there are existing legislations and certification standards to ensure labour rights are protected, and oil palm occupies only 0.31% of the global 5 billion hectares agricultural land, unfair attacks and new allegations continue to discredit and pursue downfall of the industry. Why is palm oil being singled out? Is this a form of discrimination to protect other vegetable oils? What is the potential impact and complications if the palm oil industry does not take a strong stand? Is there a middle ground in resolving the trade ban impasse?

- 02:00PM **Paper 1: Global Sustainability Supply Chain Standards for Palm Oil in the Context of Free Trade Agreement and UN 2030 Agenda**
-
- 02:25PM **Paper 2: 2020 Zero Deforestation – Where Are We and What Are the Challenges?**
-
- 02:50PM **Paper 3: EU Palm Oil Biofuel Sanctions on ILUC Risk – Sustainability Challenges and Forward Strategy**
-
- 03:15PM **Paper 4: US Sanctions Palm Oil Trades Over Labour and Human Rights Abuses – Legal and Regulatory Framework, and Mitigation System**
-
- 03:40PM **Open Forum: Comments, Questions and Answers**
-
- 04:00PM **End of Session**

SESSION TWO: OVERCOMING BARRIERS WITH CARBON NEUTRALITY RETHINKING

One of the climate actions taken by global governments is the UNFCCC framework to strengthen the global response to climate change threats. This action has led to the implementation of regulations and incentives to encourage the reduction of GHGs emissions across economic sectors. Industries are taking more conscientious approaches in addressing carbon-footprint reduction specifically in the supply-chain. The palm oil industry is no exception. Palm oil has long been unjustly blamed for contributing up to nine percent of global GHGs emissions from depleting the carbon stocks of tropical forests. Despite joining the various strict internationally acceptable standards of sustainability, the voices to support a complete ban on palm oil are getting more intense and frequent. Is palm oil a climate change culprit? What action is needed to instill a positive perception on palm oil's climate role? How the industry can enhance carbon neutrality practices in supply chain, crop production and low-energy operations?

- 04:05PM **Paper 5: The Green Behind the Cloud – Reduce CO2 Emissions in Palm Oil Supply Chain**
-
- 04:30PM **Paper 6: Farming for the Future – A Carbon Neutrality Crop Production**
-
- 04:55PM **Paper 7: Low-Carbon Solution for Palm Oil Mill Facility and Machinery**
-
- 05:20PM **Paper 8: Farm Electric Utility Vehicles for Low-Carbon Palm Oil Cultivation and Processing**
-
- 05:45PM **Open Forum: Comments, Questions and Answers**
-
- 06:05PM **End of Day One**

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DAY THREE: 24 NOVEMBER 2021, WEDNESDAY

SESSION THREE: INNOVATING TO ZERO WASTE – A CIRCULAR PALM OIL ECONOMY

Innovating to zero waste is part of the concept practiced in a circular economy where waste is designed out and every part of produced resources and materials are used to generate new economic income streams. The process to produce palm and kernel oils and fats are known to generate an enormous quantity of wastes – from cultivation wastes such as oil palm fronds and oil palm trunks; to processing wastes such as empty fruit bunches, palm oil mill sludge, decanter cake, seed shells and palm pressed fibres and palm oil mill effluent. In this session, we will look into how palm oil can leverage on its green materials to reposition as an equitable and environmental friendly crop; what are the circular economic opportunities and business models to adopt; and, what are the waste-to-profit technologies to adopt and which to avoid.

02:00PM	Paper 9: Bioenergy in Circular Palm Oil Economy – Renewable Energy Policy and Strategy
02:25PM	Paper 10: Solid Oil Palm Biomass to Biofuel - Energy Potentials and Advanced Technologies
02:50PM	Paper 11: Utilization of Oil Palm Frond and Palm Kernel Cake as Livestock Feed
03:15PM	Paper 12: Methane Gas to Methanol – A Viable Chemical Feedstock for Fuel, Plastic and Pharmaceutical Applications
03:40AM	Open Forum: Comments, Questions and Answers
04:00PM	End of Session

SESSION FOUR: BREAKING THE HIDDEN YIELDS DEADLOCK WITHOUT NEW EXPANSION

The Renewable Energy Directive II (RED-II) states that 45% of land expansion of palm oil production has led to the destruction of forests, wetlands or peatlands. That was in spite of many sustainability initiatives taken by Indonesia and Malaysia, two countries which account for 90 percent of the total global palm oil production, which agreed to cap production at 6 million hectares in Malaysia and adhere to the pledge of any future expansion beyond the 16.38 million hectares in Indonesia will have to be certified; and joining all the ongoing certification standards such as RSPO, ISCC, MSPO and ISPO to ensure its palm oil is sustainably produced. Apart from the negative environmental perception, the plantations are faced with acute labour shortages in Malaysia, and reduced yield, low productivity, poor extension services and low technology adoption in both Malaysia and Indonesia. In this session, we will address issues which have detrimental consequences should the industry opts for land expansion instead of yield expansion? How the adoption of automation and Artificial Intelligence (AI) will overcome labour shortage; implementation of good agricultural practices (GAP) including usage of biotechnology to develop high-yielding disease resistant clones to push the yield per hectare envelop to above 25 tonnes, and to embracing digitalization technologies such as IoTs and Cloud Computing can increase field productivity and reduce field operational costs.

04:05PM	Paper 13: Mechanization and Digitalization in Changing the Palm Oil Cultivation Landscape to Reduce Labour Dependence
04:30PM	Paper 14: Increase Oil Recovery Efficiency of FFB before milling: New Approach and Technology
04:55PM	Paper 15: IR 4.0 Deployment in Precision Fertilization to Maximize Nutrient Update and Reduce Leaches
05:20PM	Paper 16: Development of Disease Resistant and High Yielding Clones through Genetically Modified Organisms
05:45PM	Open Forum: Comments, Questions and Answers
06:05PM	End of Session

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DAY FOUR: 25 NOVEMBER 2021, THURSDAY

SESSION FIVE: CLOSING THE GREEN GAP IN MILLING TECHNOLOGIES

The palm oil milling industry (POMI) has once again attracted serious attention due to the environmental related issues in GHG emission, POME management, liquid and solid wastes management from palm and kernel oils processing, and energy efficiency from POMI operation. Malaysia and Indonesia as the major producers of palm oil, are operating over 1062 mills that release GHG emissions from energy and chemicals used in the palm oil mill operation, palm oil mill effluent, biomass decomposition and transportation. In this session, we will address how palm oil mill operators can reduce carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), Ozone (O₃) and water vapor (H₂O) in their mill operations. The session will also address low-carbon and energy-efficiency technologies in palm oil milling operation, and methodology of GHG calculation for palm oil mill in sustainability reporting.

02:00PM	Paper 17: GHG Computation Methodology and Mechanism for Palm Oil Mills
02:25PM	Paper 18: Application of Greener and Microwave Technology in FFB Sterilization Process
02:50PM	Paper 19: A Greener Solution in Pressing Technology for Fresh Fruit Bunches and Palm Kernel
03:15PM	Paper 20: Energy-Efficient Edible Oil Extractor Technology
03:40AM	Open Forum: Comments, Questions and Answers
04:00PM	End of Session

SESSION SIX: REIMAGING THE PALM AND KERNEL OILS ECONOMY

Future proofing is about removing threats and seizing opportunities in sustaining the future of the palm oil industry from the context of protecting the environment and preserving biodiversity, harnessing inclusive growth and defending socio-wellbeing of rural communities, and generating income and attracting investment for the economy. The major threats that are poised to negate future growth of the palm oil industry are trade-war, negative consumer perception, market access, labour pains, rising cost and technology adoption. This session will address new ideas, strategies and approaches on how leaders in the palm oil industry could restock, reimagining and reinvent way forward in removing those threats and seizing emerging opportunities. This session will take stock on technological trends, impending policies, new markets, business revolution and green economy in driving the future of palm oil industry.

04:05PM	Paper 21: The Sustainable Climate Smart Oil Palm Smallholders (NI-SCOPS) Initiative - Meeting Climate-Neutral Goal
04:30PM	Paper 22: FMCG in Sustainable Palm Oil Supply Chain – Sourcing Policy and Traceability Mechanism
04:55PM	Paper 23: Offsetting Carbon Stocks in Palm Oil Industry: Status and Strategy
05:20PM	Paper 24: Breaking the Deadlock of Consumer Perceptions Through Standards and Labelling
05:45PM	Open Forum: Comments, Questions and Answers
06:05PM	CLOSING ADDRESS
06:10PM	FUTURE-PROOFED PALM OIL SUMMIT 2021 ENDS

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