Geospatial Caravan: Embracing One & All

GEOSPATIAL IMPACT IN PLANTATION INDUSTRY

GEOSPATIAL WORLD FORUM 2023
2nd May 2023
Sime Darby Plantation is an Integrated Plantation Company Involved in the Entire Palm Oil Value Chain

Market Capitalisation
RM32.16 bil  
As at 31 Dec 2022

Revenue
RM18.70 bil  
For the Financial Year Ended 31 Dec 2021

PATAMI
RM2.26 bil  
For the Financial Year Ended 31 Dec 2021

Employees
Over 84,000  
As at 30 Nov 2022

Upstream

Seed production

Oil Palm Nursery

Rubber/Sugar Cane/Cattle Products

Smallholders Aggregation

Estate Management

Mills – CPO & PK Production

Palm Fibres, Sludge Oil, Palm Oil Mill Effluent (POME), Empty Fruit Bunch (EFB), Kernel Shell

Seed production

Downstream (Sime Darby Oils)

Customised Refineries

Bulk Refineries

Oleo Chemicals

Biodiesel/Renewable Energy

Animal Feed

Food

Non-Food

Trading of CPO and Bulk Sales

Non-Food

Animal Feed

Biodiesel

Business Snapshots

606,861 Ha of planted area*

(*Oil palm, rubber, sugar cane and grazing pastures)

12 countries of SDP business presence

3.98 mil MT/year of refining capacity

Largest producer of CSPO

Leader in Digitalisation/ Emerging technologies

Source: Group Strategy & Innovation, SDP
Our Upstream Coverage

<table>
<thead>
<tr>
<th></th>
<th>Malaysia</th>
<th>Indonesia</th>
<th>PNG</th>
<th>SI</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Estates</td>
<td>121</td>
<td>64</td>
<td>51</td>
<td>3</td>
<td>239</td>
</tr>
<tr>
<td>Number of Mills</td>
<td>34</td>
<td>23</td>
<td>12</td>
<td>1</td>
<td>70</td>
</tr>
<tr>
<td>Number of SOUs/Groups</td>
<td>33</td>
<td>22</td>
<td>5</td>
<td>1</td>
<td>61</td>
</tr>
<tr>
<td>Concession/Title Area (ha)</td>
<td>346,562</td>
<td>256,169</td>
<td>138,314</td>
<td>8,315</td>
<td>749,360</td>
</tr>
<tr>
<td>Oil Palm Planted Area (ha)</td>
<td>296,993</td>
<td>191,825</td>
<td>84,135</td>
<td>6,756</td>
<td>579,708</td>
</tr>
<tr>
<td>Rubber Planted Area (ha)</td>
<td>12,013</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sugarcane Planted Area (ha)</td>
<td>-</td>
<td>-</td>
<td>5,637</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Grazing Pastures Area (ha)</td>
<td>-</td>
<td>-</td>
<td>9,503</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

- Malaysia:
  - SOU Seri Intan/Selaba has 2 mills and the rest have one - Seri Intan and Selaba mills

- Indonesia:
  - Excludes another 42,969.27 ha of Smallholders
  - SOU Manggala has 2 mills and the rest have one - Manggala and Alur Dumai mills

- Papua New Guinea:
  - Includes 9,503 ha of grazing pastures and 5,637 ha of sugarcane
  - Excludes another 39,178 ha of Smallholders

Source: Group Strategy & Innovation, SDP

Note: Info as of Dec 2021

Source: SAP-BI, NBPOL Statistical Progress Report, Upstream Corporate
Our innovation journey through the years

Innovation Driving Change: A purpose driven innovation roadmap that inspires and encourages continuous involvement in innovation

SDP’s continued success is founded on resilience, adaptability and dynamism. From industry leading genetic seed technology to cutting edge innovation in the fields, Sime Darby Plantation is changing the face of the plantation sector.

Challenges faced along the way
- Low commodity prices
- Covid-19 pandemic caused labour shortage
- Unattractive industry for local talent due to the 3D perception (dangerous, dirty and difficult)
- Climate Change
- Negative perception on palm oil

Our innovation journey through the years:

- 1985: ZERO BURNING METHODOLOGY
- 1990: MECHANISATION
- 2000: TISSUE CULTURE
- 2002: PRODUCT INNOVATION
- 2009: GENOMIC R&D
- 2010: UPGRADED MECHANISATION
- 2017: GENOME SELECT
- 2018: DIGITALISATION
- 2020: BREAKTHROUGH INNOVATION
- 2021: ACCELERATED ADVANCE MECHANISATION
- 2022: REIMAGINING PLANTATION INNOVATING FOR SUSTAINABILITY

Source: Group Strategy & Innovation, SDP
Mapping & Survey + Census & Detection
Palm Counting ~ 40,000,000 palms via Satellite & Drone Imagery
Mapping & Survey + Census & Detection
Palm Counting ~ 40,000,000 palms via Satellite & Drone Imagery
Action Drone for “Implementation”
Broadband Coverage in Agri-Region

3 242 609 collected data since 05/01/2021 in displayed area.
Last update: 05/01/2023 17:05 UTC
Integrated Location Intelligence Platform to improve operational insights

Dashboards + MobileApps

Estate Operation
Research Development
Sustainability
Land Development
IT & Finance

Anything & Everything in One Common Picture

Why?
- Common Understanding
- Communicate & Collaborate
- Unified Decision-Making
Carbon Storage Mapping with LIDAR

Dry Biomass @ 140 MT/ha

Age of palm (yr)

Dry Biomass (MT/ha)
Precision Agriculture @Scale
Open Innovation: Multi strategic approach with external parties

COLLABORATION WITH ACADEMIC
POC and prototype development research by leveraging on specific technical area

CO-DEVELOPMENT WITH START-UP
Engagement with local and foreign start-ups for POC or prototype development

OPEN INNOVATION PLATFORM
Technology scouting via subscription to open platform or engagement with innovation scouting firm

TECHNOLOGY DEPLOYMENT WITH SERVICE PROVIDER
Technology roll out using contract service model

PARTNERSHIP WITH CORPORATE & AGENCY
Nurturing start-ups ecosystem by providing platform and access for POC and co-development

Source: Group Strategy & Innovation, SDP