



FOREST BUSINESS AGENDA

- SCG and SFT Introduce
 - (SCG has grown alongside with a thriving development of Thailand)
- Supply chain management in forest Business (Beginning plantation to our customer)
- Balancing Sustainability of forest Business (Economy Society and Environment)
- Matching economy and agricultural tradition (Increasing value-added in agriculture Ex. Planting eucalyptus on paddy, planting on riverside and planting on flood pain areas)
- Product Innovation
 - Classify Plantation Areas for Trial and Clone&site to Promotion)
- CONTRACT FARMING
 - (Planting kind and plantation management)
- Supply chain Management

SCG





Business Philosophy

- ADHERENCE TO FAIRNESS
- DEDICATION TO EXCELLENCE
- BELIEF IN THE VALUE OF THE INDIVIDUAL
- · CONCERN FOR SOCIAL RESPONSIBILITY

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SIAM CEMENT GROUP: SCG

















The group has **diversified into 3 core businesses** which include SCG Packaging ,SCG Chemicals and SCG Cement-Building Materials. Since the establishment, SCG has **grown alongside with a thriving development of Thailand**





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- Packaging Paper Business
- Packaging Business

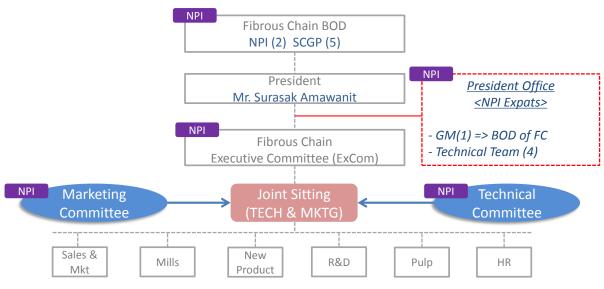


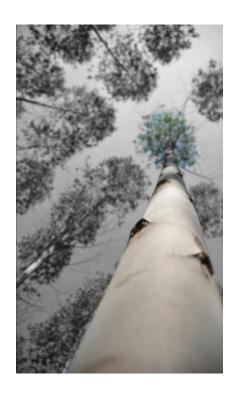


- Pulp and Paper business
- Forestry Business



Business collaboration structure





Core Businesses of

FIBROUS CHAIN BUSINESS

3 CORE

- Forestry

(Operates a fully – integrated forestry)

- Pulp production

(Produces various types of eucalyptus pulp)

- Paper Production

(Printing and Writing paper, Industrial Paper, Glassine Paper, Food contact paper and Food Packaging.)

CAPACITY/YEAR

- 502,000 tons

(Pulp production)

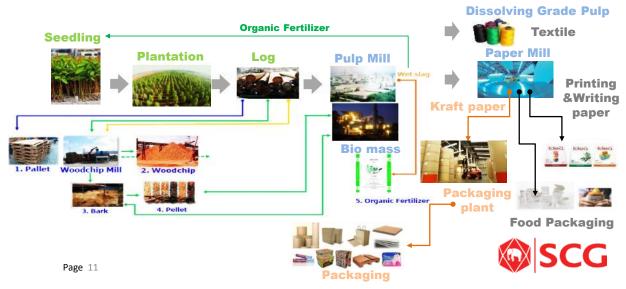
- 572,000 tons

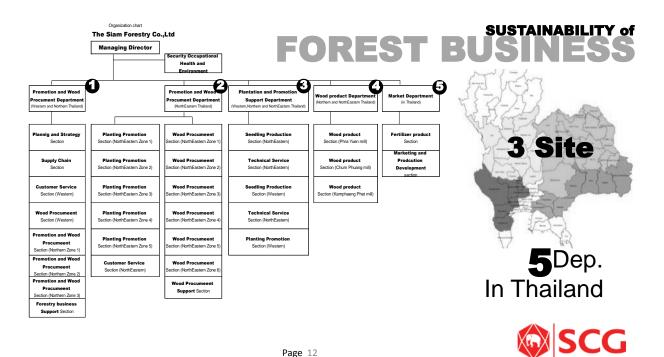
(Paper Production)

1.07 Million

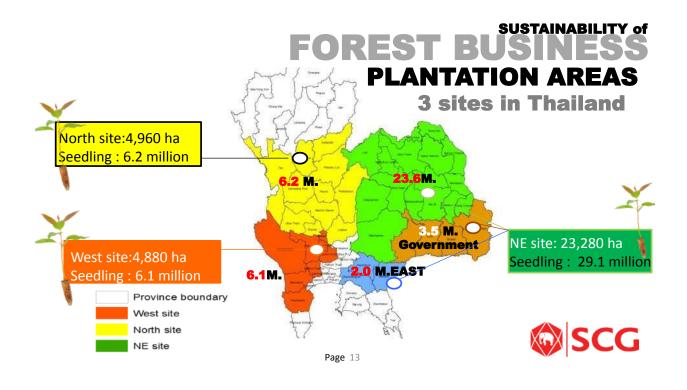


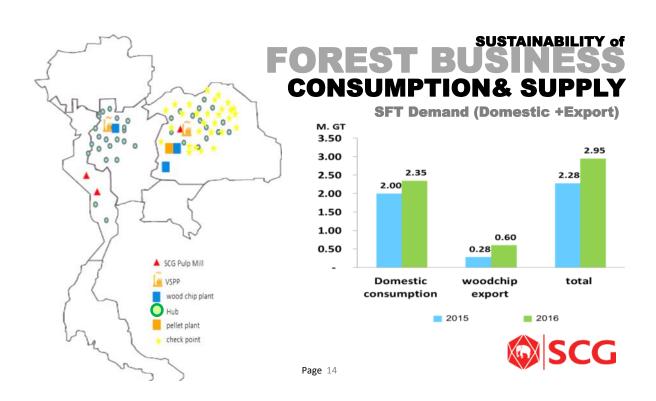
SUSTAINABILITY of FOREST BU SUPPLY CHAIN MANAGE



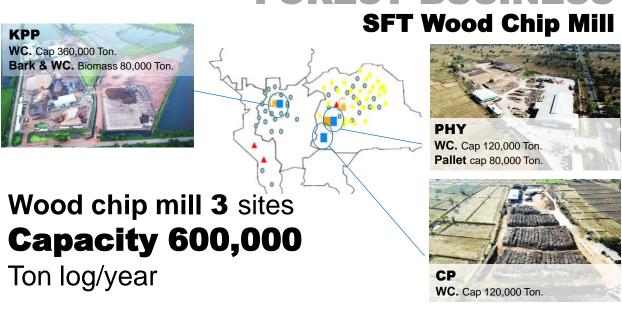


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FOREST BUSINESS SET Wood Chip Mill





FOREST BU

BALANCING SUSTAINABILITY

SUSTAINABILITY of

Economy Society and Environment

Corporate Governance Supervises our business management to ensure fairness, transparency and accountability in accordance with its business philosophy "Adherence to Falmess".

- Good corporate governance
- Risk management



Environment

Commits to conservation of the environmen and natural resources, using resources wisely and maintaining ecological balance.

- Energy and climate change
- Water management
- Waste management
- Biodiversity and ecosystem
- Environmentally friendly products and services
- Logistics management

Creates values not exclusively for profitability, but creates mutual benefits for all stakeholders.

- Contributes to national economic growth through value generated by our operations.
- Income distribution among our
- stakeholders.

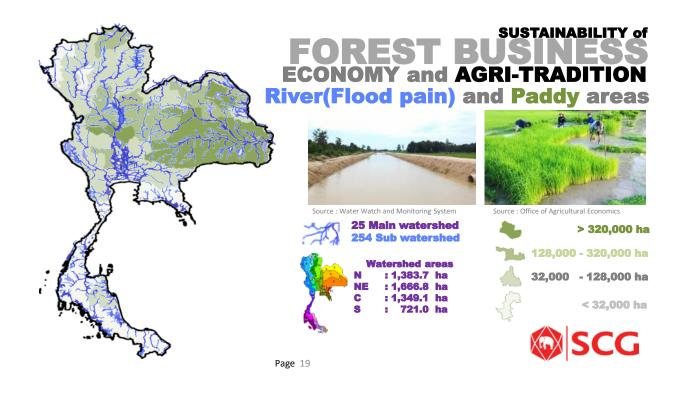
Economy

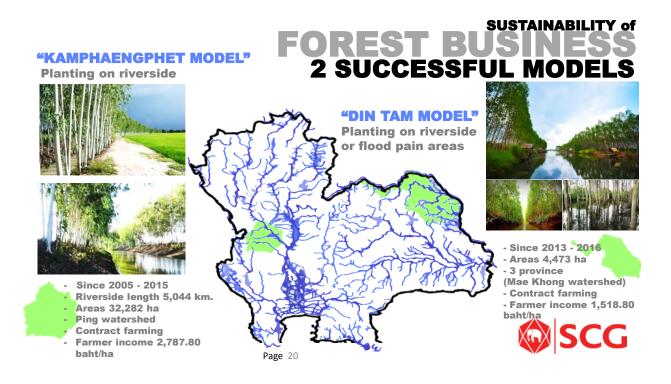
Society Conducts business with ethics and concern for social responsibility. Participates in improving the quality of life where SCG operates.

- Community investment and donation
- Labor practices and human rights
- Human resources and human capital development
- Health and safety
- Page 17 Stakeholder engagement.



SUSTAINABILITY of FORES' STARTING ECONOM 21,704 M.Baht **FARMER INCOME GROWTH RATE (%)** 42,197 Source: Office of Agricultural Economics M.Baht 30 24.9 23.9 25 18,605 20 M.Baht 15 Farmers Income decrease, 10 Pushing Household Debt Higher 5 **Household Debt (2015)** 0 of Whole country 110,342 M.Baht 2010 2011 -5 -3.1 - Improving productivity, raising farming -5.2 -6 27,837 -10 output per area. M.Baht - Increasing value-added in agriculture. -15 -12.6 How too?





SUSTAINABILITY of



Planting on riverside or flood pain areas



of Agriculture



Ministry of Interior









Product Innovation Technology Planting Technical Service Supply Chain Management Forest Sustainable Management
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SUSTAINABILITY of FOREST BU



KAMPHAENGPHET Planting on riverside MODEL

















Technology Planting Technical Service Supply Chain Management Forest Sustainable Management

Propagation Clonal Test Propagation

FOREST BUSINESS

Product Innovation

Traits for Eucalyptus Improvement

- -Volumetric yield ,Pulp yield, Wood density
- -Adaptability (Calcareous soil, Drought, Saline soil ,Flood areas, Riverside and Paddy field)
- -Gall insect tolerance
- -Disease resistance

CLONAL TEST

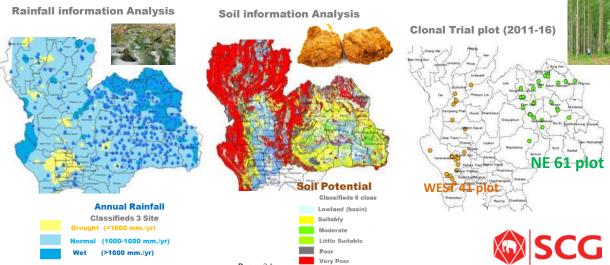
- **-Testing since 2001-2016**
- -There are more than 250
- plots for Clonal Test Thailand -In 2016, There are 7 clone commercial



FOREST BUSINESS

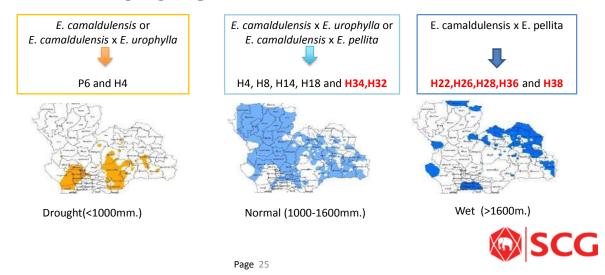
Classify Plantation Areas for Trial and Promotion. Rainfall information Analysis Soil information Analysis Soil information Analysis

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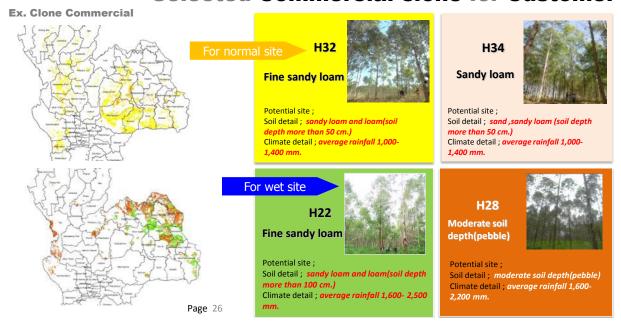


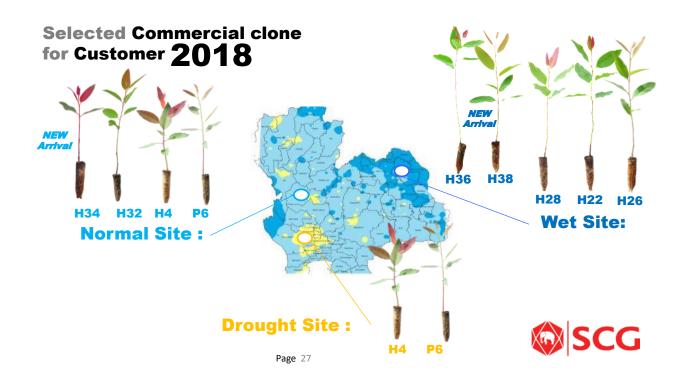
Selected Commercial clone for Customer 2016-18

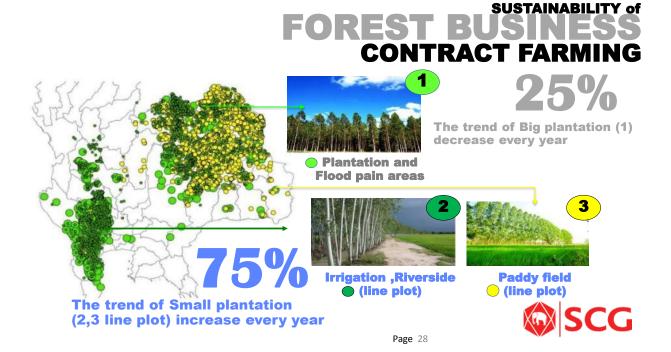
Product Innovation



Selected Commercial clone for Customer







CONTRACT FARMING



FOREST BUSINESS CONTRACT FARMING

Product Convenient by EuCA SIAM







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Product Convenient by EuCA SIAM Ex. Selling point

FOREST BUSINESS

CONTRACT FARMING









E-Supply Chain Model for Eucalyptus Trading Ecosystem (Extension of Euca-Siam)



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SFT benefits

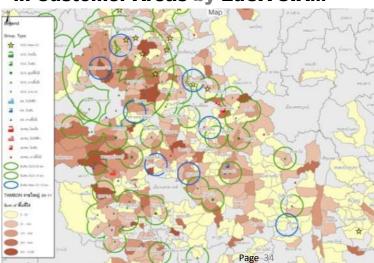
- SFT can increase its euca buy back rate
- Data and more insights into the euca market Who?
- Famers, loggers, collecting centers, logistics, mills How?
- Farmers can get trusted logging service at reasonable price
- · Loggers can earn during their low season
- Collectors can increase their supply inflow and get a trusted logistics service at reasonable price
- Logistics can fill up their idle capacities efficiently Key success factors
- · Large users' database
- · Free software to efficiently run their business
- Royalty program
- · Agricultural knowledge to farmers

FOREST BUSINESS

Supply chain management

After Service:

in Customer Areas by EuCA SIAM





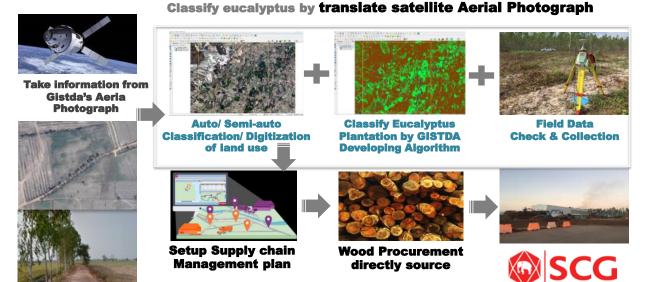
Procument Point: Cover promotion areas

SUSTAINABILITY of FOREST BUSINESS Supply chain management

CASE STUDY and **PROJECT PLANNING DEVELOPMENT COOPERATION**



SUSTAINABILITY of FOREST B



directly source

Management plan

Using UAV collected survival rate and forecast yield



Old Process: Using man collected survival rate.

100 rai (Sampling 10%)
Man : 4 manpower.
Time : 1 day
Cost : 1,200 baht

Promotion Areas: 200,000 rai/yr.

Cost: 2.4 Mbaht. Time: 2,000 day





Cost : 900 baht

Promotion Areas : 200,000 rai/yr.

Cost: 1.8 Mbaht (-0.6 Mbaht) Time: 320 day (-1,680 day)

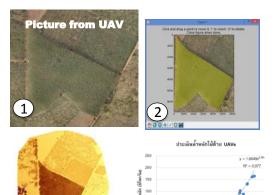




FOREST BUSINESS

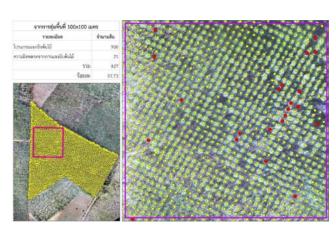
Using UAV collected survival rate and forecast yield

Our customer in Manchakhiri, Khon Kaen



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Ex. report : Survival rate



Economy

- -Farmer income increase.
- -Community income increase.
- -Government reduce expenses



Society

- -low labor mobility.
- -Increasing value-added in public land.

Environment

- -Reducing utilization from Forest.
- -Reducing deforestation.
- -Increasing O_2 .





