

# **ARAUCO** Corporate Presentation

# Renewables for a better life

# Arauco Overview

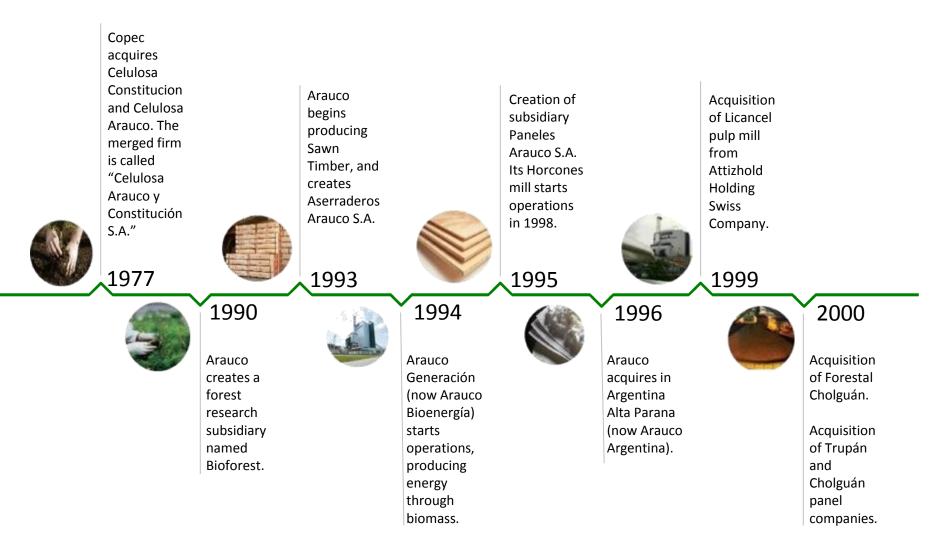
# **Business Segments**

# Future Investments

# Recent Events and Initiatives

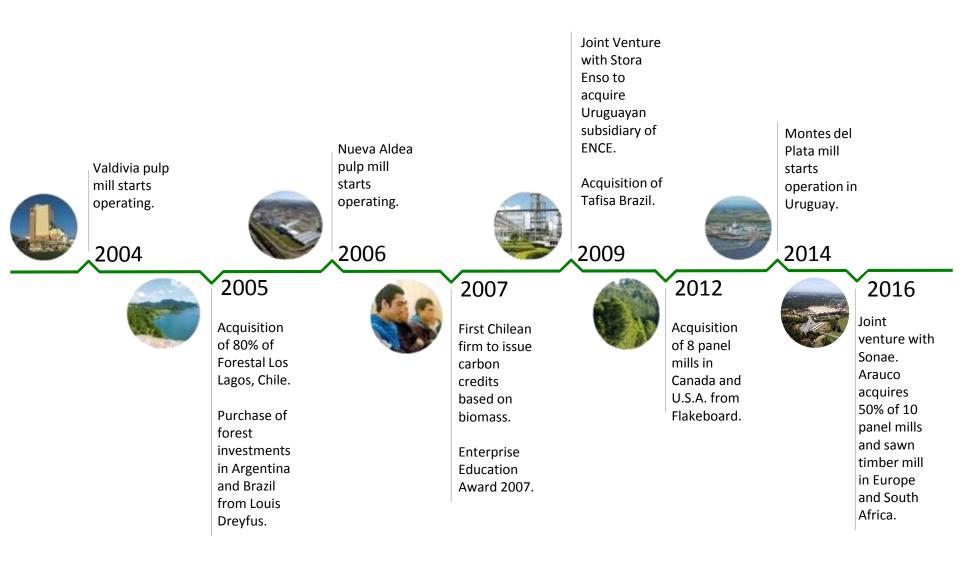
# Sustainability

#### ARAUCO STARTED AS A CHILEAN FORESTRY AND PULP FIRM...





### ... AND TODAY IS A WORLD-CLASS PLAYER IN FORESTRY PRODUCTS INDUSTRY



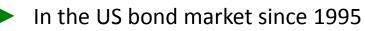


#### ARAUCO AT A GLANCE

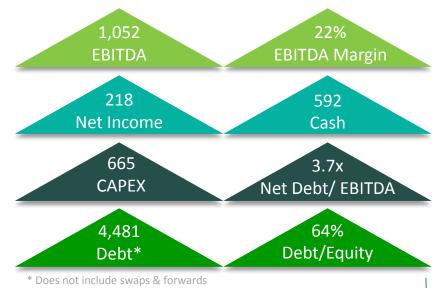
74.36%	Angelini Family	<b>Sales</b> In US\$ millions	Assets	Consolidated Debt	Market Cap	
60.82%	AntarChile S.A.	16,699	21,919	6,868	4,562	
	EMPRESAS COPEC	16,699	21,447	6,649	12,448	#2
99.98%	Growing the Future	4,761	14,006	4,568	-	in market cap in Chile
		Dec. 2016				of Empresa Copec's EBITDA

#### Financial Highlights December 2016 In US\$ millions

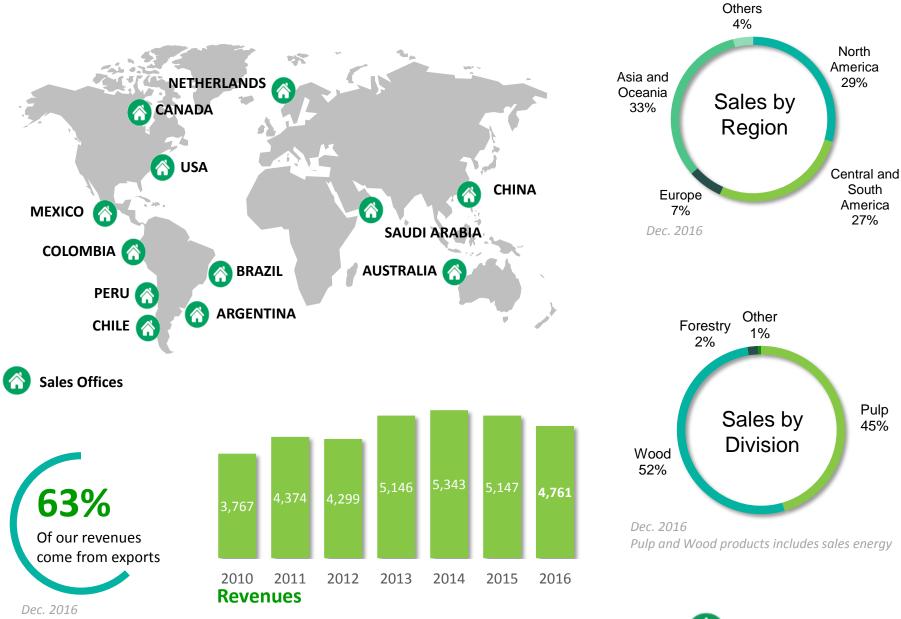








#### DIVERSIFIED SALES AROUND THE WORLD



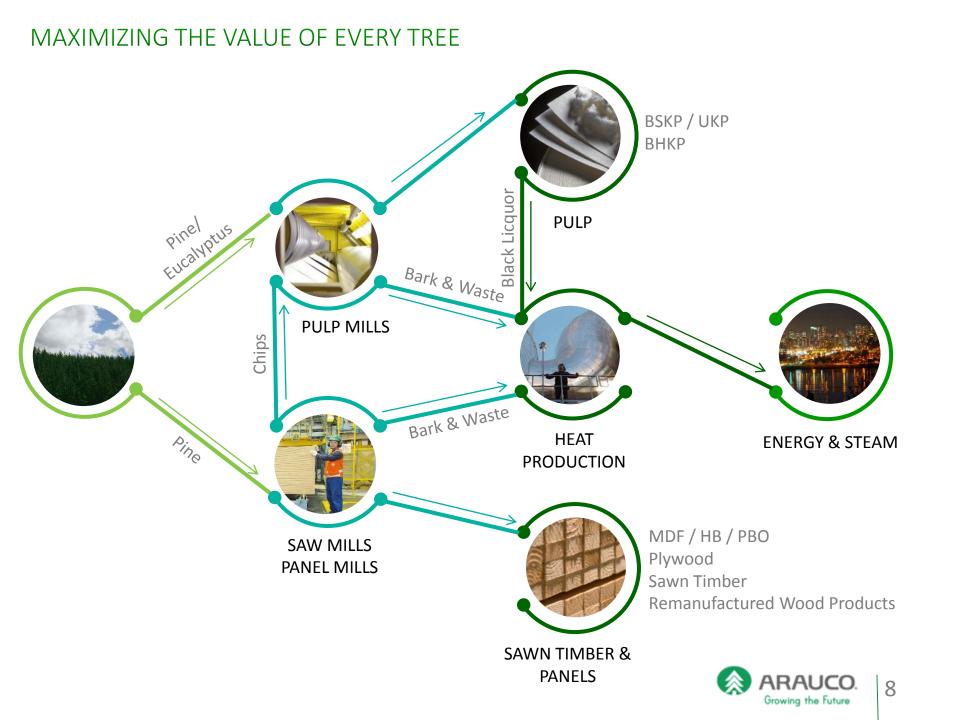
Growing the Future

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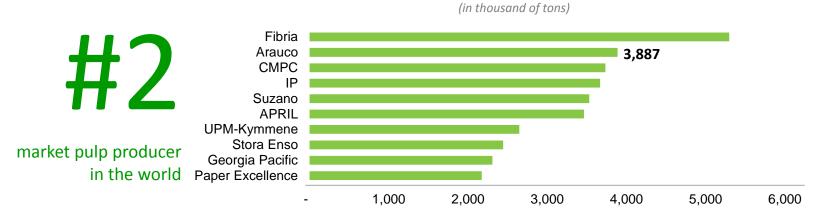
#### FOUR STRATEGIC BUSINESS SEGMENTS IN A DIVERSIFIED OPERATIONAL FOOTPRINT

	FORESTRY	PULP	WOOD PRODUCTS		ENERGY	
	718,460 Ha	5 Mills 2.887,000 tons	5 Mills Plywood: 710,000 m <sup>3</sup> MDF: 515,000 m <sup>3</sup> HB: 60,000 m <sup>3</sup> PB: 300,000 m <sup>3</sup>	8 Sawmills 4 Remanufacturing facilities 2,704,190 m <sup>3</sup>	10 Power Plants 606 MW Surplus: 209 MW	
	132,333 Ha	1 Mill 350,000 tons	2 Mills MDF: 300,000 m <sup>3</sup> PB: 260,000 m <sup>3</sup>	1 Sawmill 1 Remanufacturing facility 317,982 m <sup>3</sup>	2 Power Plants 78 MW Surplus: 8 MW	
	100,468 Ha		2 Mills MDF: 1,255,000 m <sup>3</sup> PB: 310,000 m <sup>3</sup>	N: Juli		
	73,696 Ha <sup>(1)</sup>	1 Mill 650,000 tons <sup>(1)</sup>			1 Power Plant 82 MW <sup>(1)</sup> Surplus : 36 MW	
			8 Mills MDF: 1,470,000 m <sup>3</sup> PB: 1,520,000 m <sup>3</sup>			
			10 Mills <sup>(2)</sup> MDF: 739,064 m <sup>3</sup> PB: 1,164,138 m <sup>3</sup> OSB: 257,783 m <sup>3</sup>	1 Sawmill <sup>(2)</sup> 32,850 m <sup>3</sup>		
TOTAL	1,024,957 Ha	3.9 MM tons	8.9 MM m <sup>3</sup>	3.1 MM m <sup>3</sup>	766 MW	



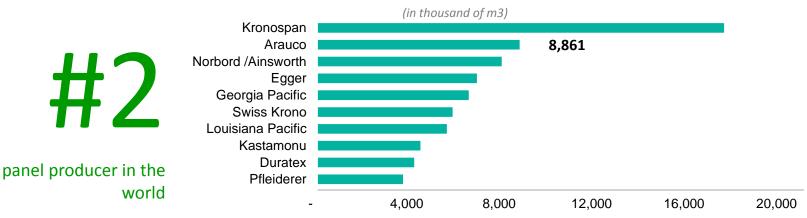


#### WE ARE A MAIN PLAYER IN THE GLOBAL MARKET



**Market Pulp Capacity** 

#### **World Panels Capacity**



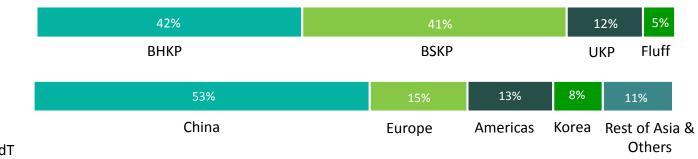
Market Pulp Capacity, December 2016. Arauco capacity includes 50% of Montes del Plata Worold Panels Capacity, January 2016. Arauco capacity includes 50% Sonae Arauco at Dec. 2016 Source: RISI and Arauco estimations Company information and filings



### OUR MAIN PRODUCTS



Pulp Sales Volume: 3,680 Th. AdT





Panels\* Sales Volume: 4,754 Th. m3

60%		37%		
MDF		РВО		
55%	22%	7%	5%	11%
USA & Canada	Brazil	Arg.	Chile	Others



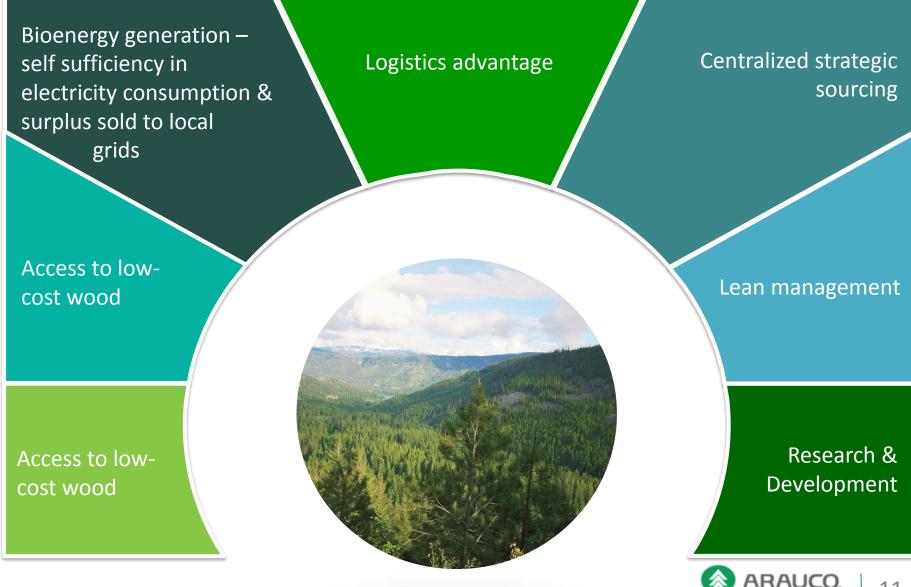
Sawn Timber

18% 14% Remanufactured Kilned Sawn Timber Sawn Timber Plywood Wood Products 16% 21% Sales Volume: 3,102 Th. m3 Rest of Latam Asia & Oceania USA & Canada Chile Middle East Europe & Africa



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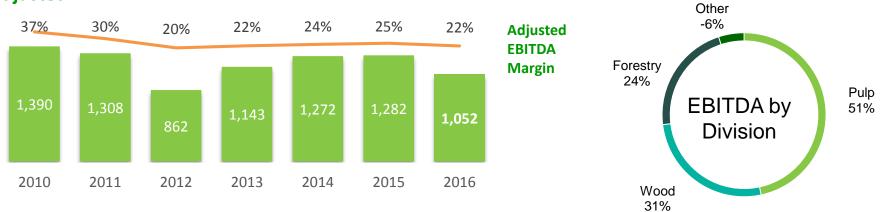
#### OPERATIONAL EFFICIENCY

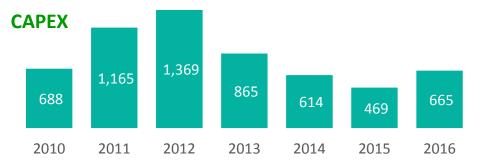


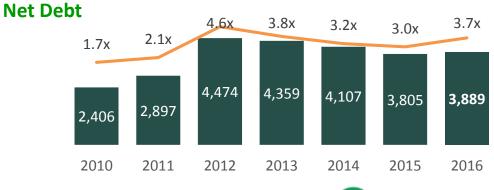
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#### SOLID CAPITAL STRUCTURE

**Adjusted EBITDA** 







# Arauco Overview

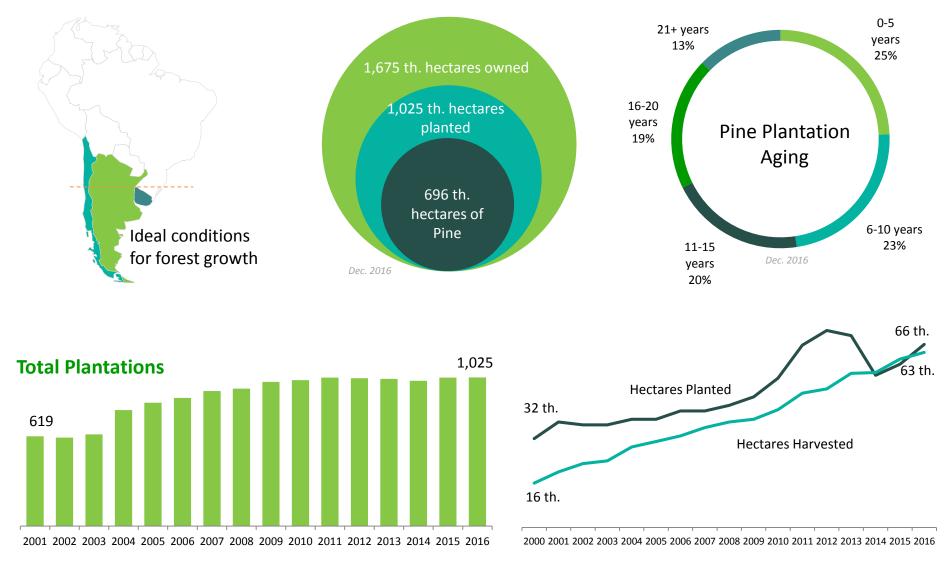
# **Business Segments**

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# Sustainability

### **Forestry** THE BASE FOR GROWTH



Dec. 2016 In thousands ha.







Licancel 150,000 tons UKP

Constitución 355,000 tons UKP

Arauco Mill Line 1 & Line 2 290,000 tons BHKP 510,000 tons BSKP

Nueva Aldea 513,500 tons BHKP 513,500 tons BSKP

> Valdivia 550,000 tons bleached pulp Swing mill



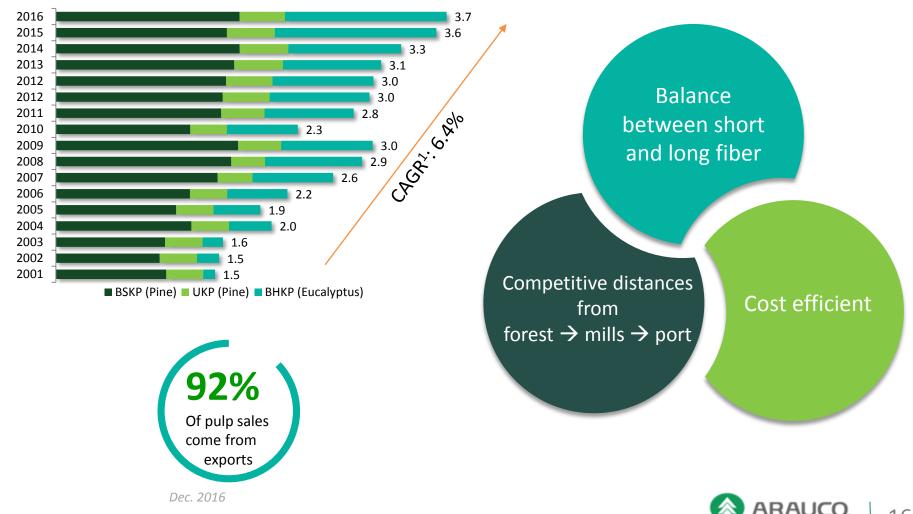
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PULP

### COMPETITIVE ADVANTAGES TO EFFICIENTLY SUPPLY THE MARKETS

#### **Pulp Production**

in million of AdT

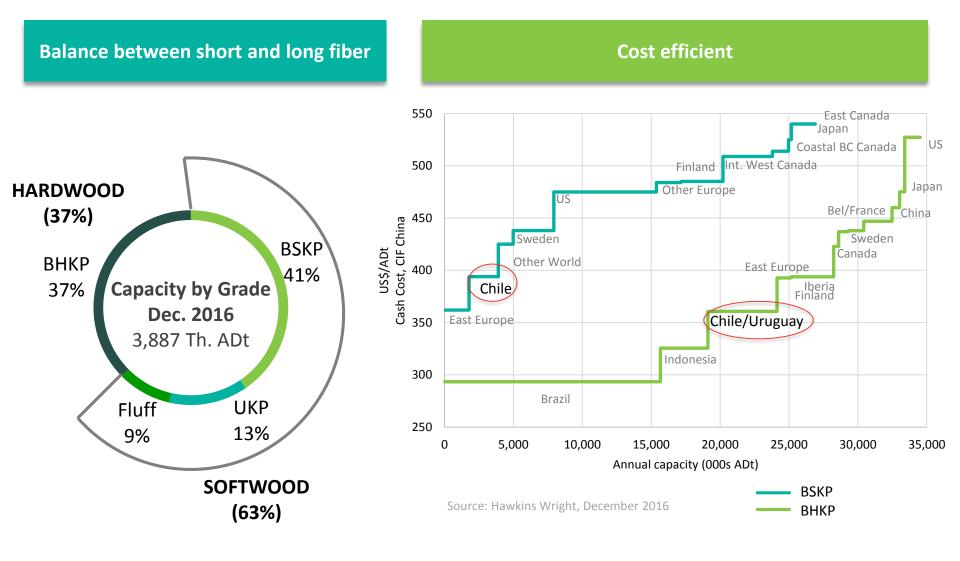


(1) Compounded Annual Growth rate

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# PULP COMPETITIVE ADVANTAGES





# PULP COMPETITIVE ADVANTAGES

#### Competitive distances from forest $\rightarrow$ mills $\rightarrow$ port

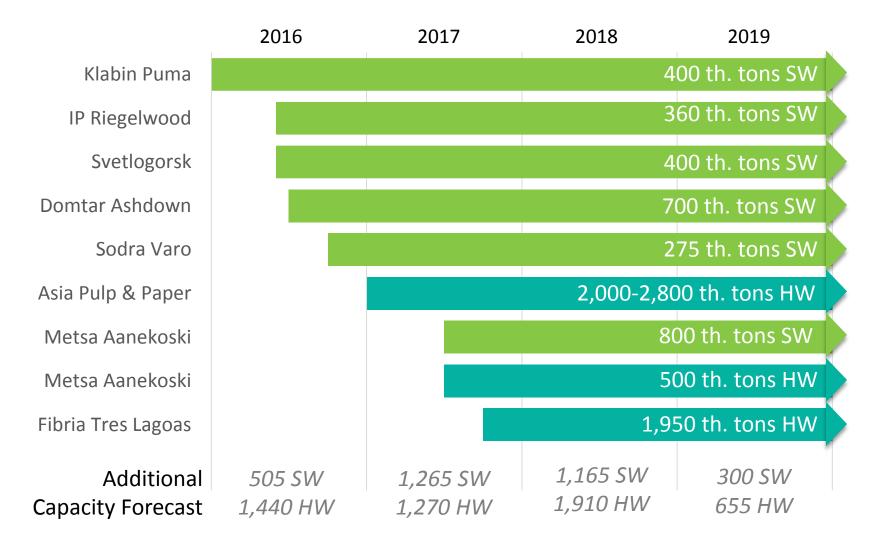


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\*Does not incllude disteance in Argentina since pulp sales are mainly inland. Weighted average distance between our pulp mills located in Chile, Uruguay & Argentina. November 2015

### NEW MARKET SUPPLY TO REACH MARKET



**PULP** 



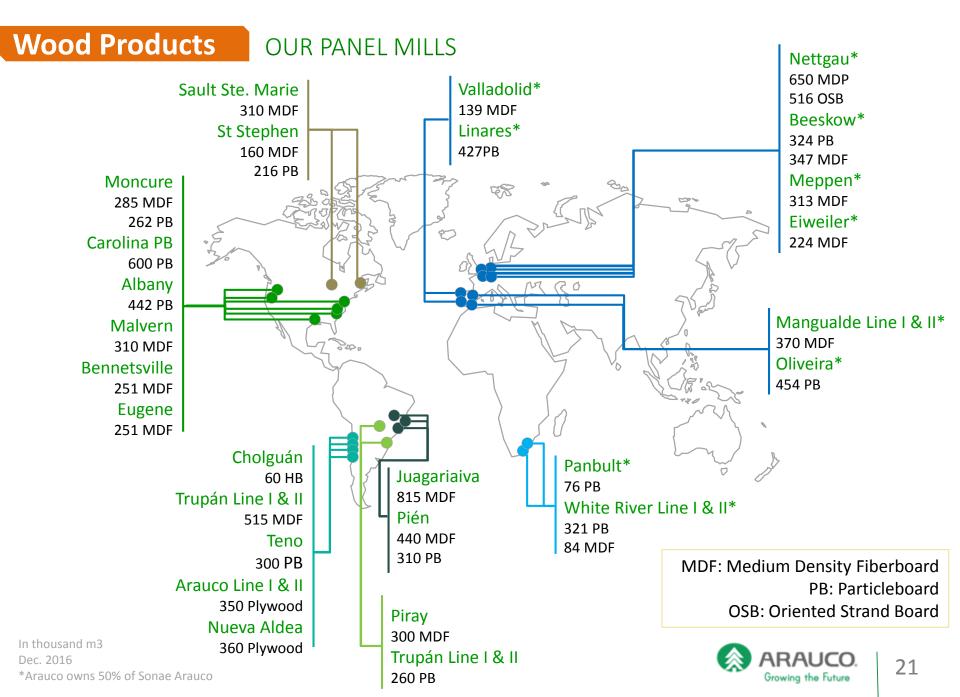
### **Wood Products** EXPANSION OF DIVERSIFIED PRODUCT MIX

**Panels Production** CAGR<sup>1</sup>: 23.0% In thousands cubic meters 4,773 ■ MDF ■ HB ■ PBO 

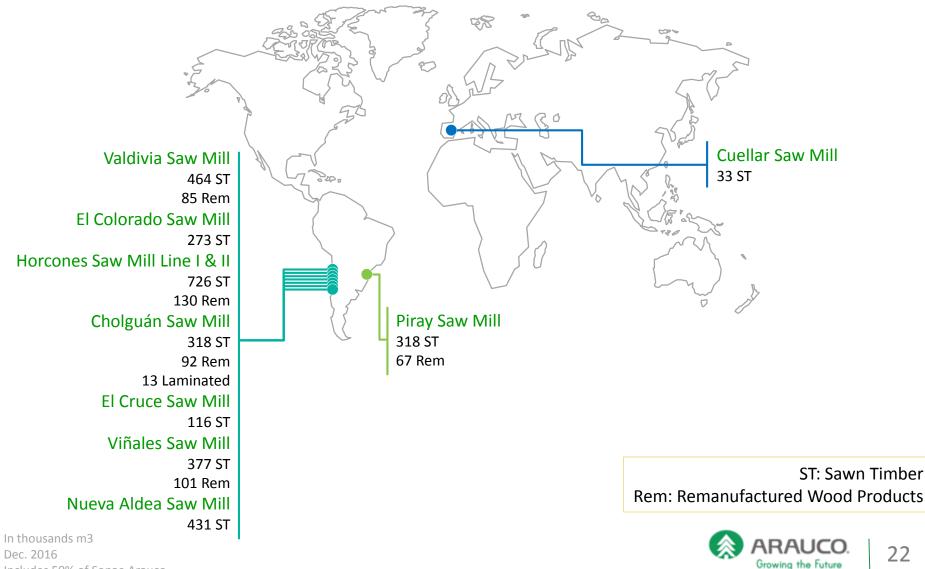
#### **Sawn Timber Production** CAGR<sup>1</sup>: 5.1% In thousands cubic meters 3,593 1,703

Sawn Timber Remanufactured Plywood



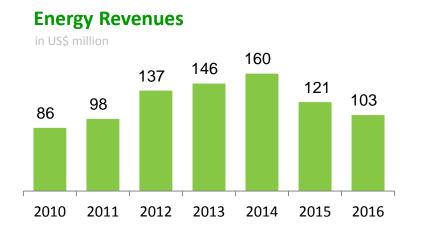


#### **Wood Products** OUR SAWN TIMBER MILLS



Includes 50% of Sonae Arauco

### **Energy** KEY PART OF OUR VALUE CHAIN









Renewable, environmental friendly energy



Part of our production process



Arauco is self-sufficient in net electricity consumption



All cogeneration plants registered under Kyoto Protocol



# Arauco Overview

**Business Segments** 

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Sustainability

### DISSOLVING PULP PROJECT

Located a the Valdivia mill, which currently produces 550,000 AdT of pulp

Dissolving pulp is a product used in the textile industry as an alternative of cotton

Arauco would be the first company to produce this pulp in Chile

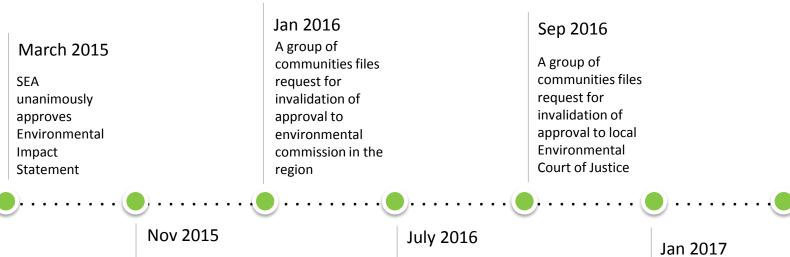


US\$185 million in estimated investment for brownfield project

It will provide flexibility to produce either dissolving or paper grade



#### DISSOLVING PULP PROJECT: WHERE WE STAND TODAY



Arauco files request for industrial modifications with Environmental Assessment Service (SEA in Spanish)

July 2014

A group of communities files constitutional act (recurso de protección) against the SEA. Supreme Cour votes against constitutional act.

SEA rejects request for invalidation. **Dissolving Pulp** Project's approval is returned

To be decided by Environmental Court of Justice



### MAPA: NEW LINE AT ARAUCO MILL & COGENERATION PLANT

Construction of a third pulp line in the Arauco Mill of 1.5 million Adt

Construction of a 166 MW cogeneration plant

The project considers the closure of Arauco's line 1 of 290,000 Adt of short fiber pulp once the new line is operating

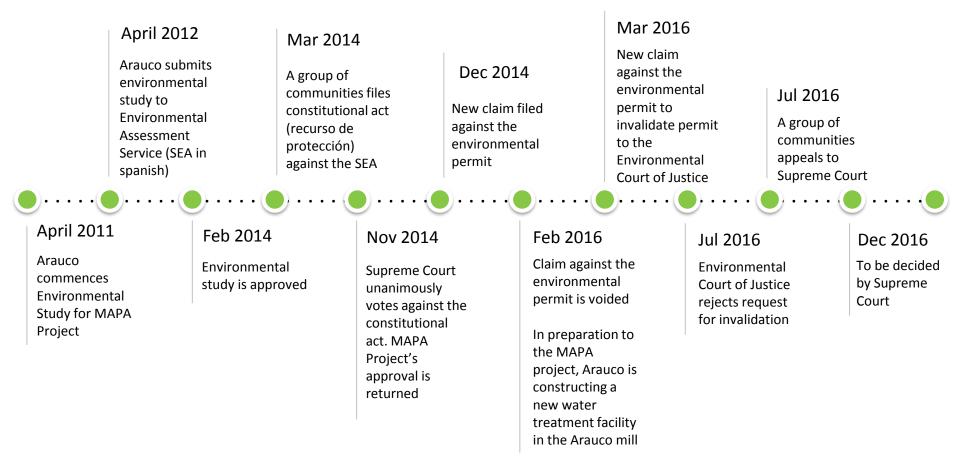


The investment for this project could be approximately US\$ 2,300 million

The MAPA project is still subject to technical and economical feasibility studies, and the board of director's approval



#### MAPA: WHERE WE STAND TODAY





#### NEW PARTICLEBOARD IN MICHIGAN, USA





# Arauco Overview

Business Segments Future Investments

# **Recent Events and Initiatives**

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# Sustainability

### SONAE ARAUCO JOINT VENTURE COMPLETED





Investment of € 137.5 million

South Africa





Total aggregate capacity: 4.2 million m3/year

10 mills located in Germany, Spain, Portugal and



Production of MDF, PBO, OSB and sawn timber



Combined with the rest of our company's assets, Arauco positions itself as the second largest panel producer globally, reaching 9 million m3 of production capacity annually



# Arauco Overview

# **Business Segments**

Investments

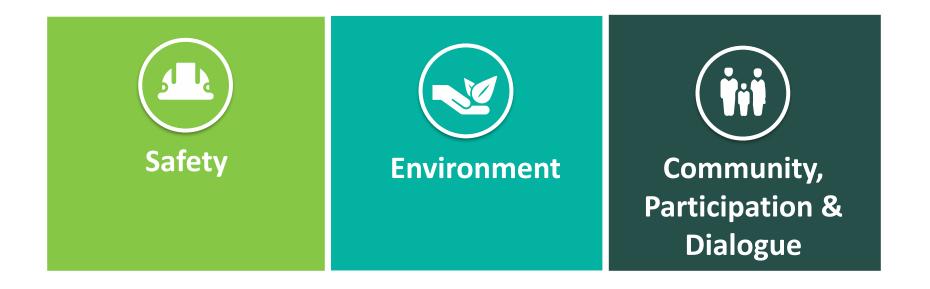
**Recent Events and Initiatives** 

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# Sustainability

#### SUSTAINABILITY

Arauco is committed to the occupational health and **SAFETY** of its workers, to the **ENVIRONMENT** and to the welfare of the **COMMUNITIES** in which it operates





### SafetyALWAYS A PRIORITY



All our business units are certified as compliant with the **OHSAS 18001 EHS** standard



### Environment

- Our plantation forests are CERTIFIED to INTERNATIONALLY RECOGNIZED STANDARDS
- We DO NOT source native forests or protected species
- We PROTECT more than 406,000 HECTARES (1,000,000 acres) of native forest in permanent conservation set-asides
- During 2015 we invested US\$ 52 MILLION in environmental improvements
- ✓ We apply widely accepted INTERNATIONAL
  SCIENTIFIC STANDARDS to our silviculture.
- ✓ We **DO NOT** use genetically modified plants.



### Environment

# **ENERGY**

- ARAUCO decided over twenty years ago to produce CLEAN
  ENERGY from forestry biomass arising from nature's virtuous cycles
- In addition to substantially meeting the needs of its own industrial facilities, ARAUCO can provide a up to 253 MW OF SURPLUS ENERGY to the SIC, Chile's national energy grid
- The company has six cogeneration power plants in Chile and one in Uruguay registered as greenhouse gas (GHG) emissionreduction projects with the Clean Development Mechanism (CDM) of the KYOTO PROTOCOL
- This allows ARAUCO to annually OFFSET 500,000 TONS of CO2e



### **Community, Participation & Dialogue**

# **CONTRIBUTING** to communities

- Our operations directly benefit more than **14,000** workers and indirectly other **21,000** workers through our contractors.
- WE RESPECT LOCAL COMMUNITIES and CONTRIBUTE TO THEIR DEVELOPMENT through responsible management of our operations and the implementation of initiatives that generate value based on a method that fosters dialogue and participation.



## **Community, Participation & Dialogue** OUR PROJECTS

#### **ARAUCO EDUCATIONAL FOUNDATION**

- 26 YEARS PRESENT in communes where we operate in regions Maule, Bío Bío and Los Ríos
- The purpose is to DESIGN, IMPLEMENT AND ASSESS teacher-improvement programs



#### **CAMPUS ARAUCO**



- Center for Higher Education and Training for employees, based on an **INNOVATIVE ACADEMIC METHOD** that combines the educational process with on-the-job work experience
- Campus Arauco offers **4 TECHNICAL CAREERS** for more than **660 STUDENTS**, and over **200,000 ANNUAL HOURS** of training for ARAUCO employees and service-providing business employees



## **Community, Participation & Dialogue** OUR PROJECTS

#### SUSTAINABLE RECONSTRUCTION PLAN (PRES)



#### HOUSING PLAN FOR WORKERS (HPW)

- SUSTAINABLE RECONSTRUCTION PLAN for the city of Constitución, that was devastated by the earthquake and tsunami on February 27, 2010
- The PRES Plan encompasses 28 PROJECTS that are in different stages of development

- This program promotes the construction of houses and housing units with a HIGH TECHNICAL and SOCIAL STANDARDS for company employees and their neighbors
- **9,000** houses will be built between 2013 and 2017





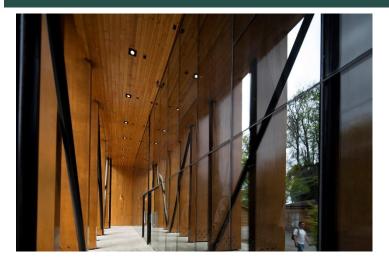
# **Community, Participation & Dialogue** OUR PROJECTS

#### FOUNDATION ACERCAREDES

- NON-PROFIT ORGANIZATION established in 2011 under ARAUCO's innovation area
- AcercaRedes operates based on Hubs: a network of offices that ATTRACT, CONNECT and CENTRALIZE to promote the local development of areas located far from urban centers
- Today there are hubs operating in MARIQUINA, CONSTITUCIÓN, and CURANILAHUE



#### ARAUCO CULTURAL CENTER



- The 2010 EARTHQUAKE caused structural damage to the local theater and the municipal library
- Arauco decided to build the cultural center to replace the damaged buildings
- The center is 1,400 SQUARE METERS, which includes the library, theater, reading rooms and public spaces







Visit www.arauco.cl for more information