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# Dynamism, Desire and Disclosure

How the "3Ds" will change forestry forever



 Dynamism – Forest Products is an American success story

• Desire – it's great to be wanted

• Disclosure – it ain't your business....unless



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#### Data, Analytics, and Strategic Consulting for Commodity Markets

**Actionable Insights. Smarter Decisions. Better Results.** 

CHEMICALS		FOREST PRODUCTS				BIOFUELS & FEEDSTOCKS
OrbiChem360™ Price and Margin Data Grade Flow, Import, and Export Data Supply and Demand Data Price Forecasts Plants and Projects Market Commentary and Analysis	ChemEdge360 Price Data Plants Database Trade Flow, Import, and Export Data Market Commentary and Analysis	FisherSolve® Water Supply and Treatment Carbon Emissions Production Data Manufacturing Costs and Mass-Balance Capacity Trends Asset Quality and Viability Index Installed Costs News and Projects Market Optimizer Recycled Fiber Pricing Virtual Mills	Forestat Global™ Price Data Demand Data Market Share Data Cost Data Trade Flow, Import, and Export Data Market News and Commentary	SilvaStat360 <sup>®</sup> Delivered Price Benchmarks Delivered Price Forecast Fright Efficiency Analysis PLF Distribution Stumpage Price Reports Dimber and Carbon Supply Analysis Precipitation Data Global Economic Data Recycled Fiber Pricing Sawmill TQ	WoodMarket PricesGlobal Sawlog Price Index (GSPI)European Sawlog Price Index (ESPI)Global Softwood Fiber Index (SFPI)Global Hardwood Fiber Index (HFPI)Trade Flow, Import, and Export DataMarket Commentary and Analysis	Prima CarbonZero™Commodity Price DataTrade Flow, Import, and Export DataSupply and Demand DataGlobal Trade FundamentalsGlobal Plants DatabaseGlobal Biofuel MandatesNorth American TicketsMarket Commentary and Analysis
STRATEGIC CONSULTING						
DECARBONIZATION PATHWAYS 3						

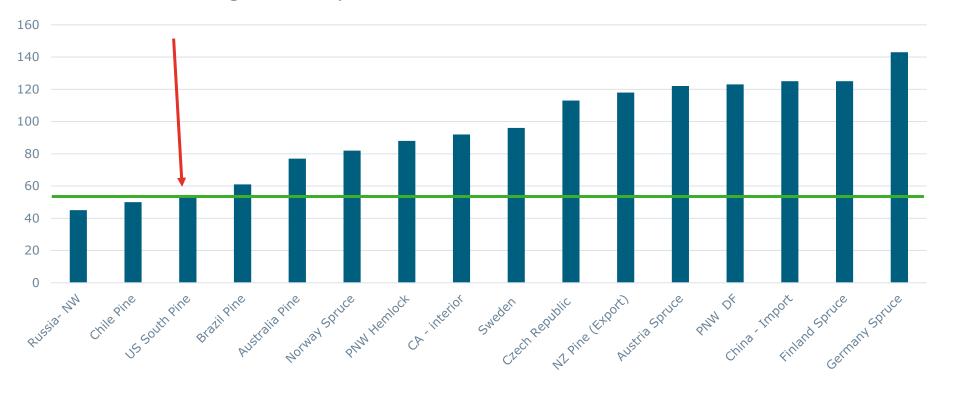
# Dynamism American demand

## **US Forest Products Industry**

- Largest economy
- Biggest lumber manufacturer and consumer
- Biggest packaging producer 1/3 of global containerboard capacity
- 2<sup>nd</sup> largest wood pellet producer starting from zero in 2008



## US South is lowest cost lumber producer in world



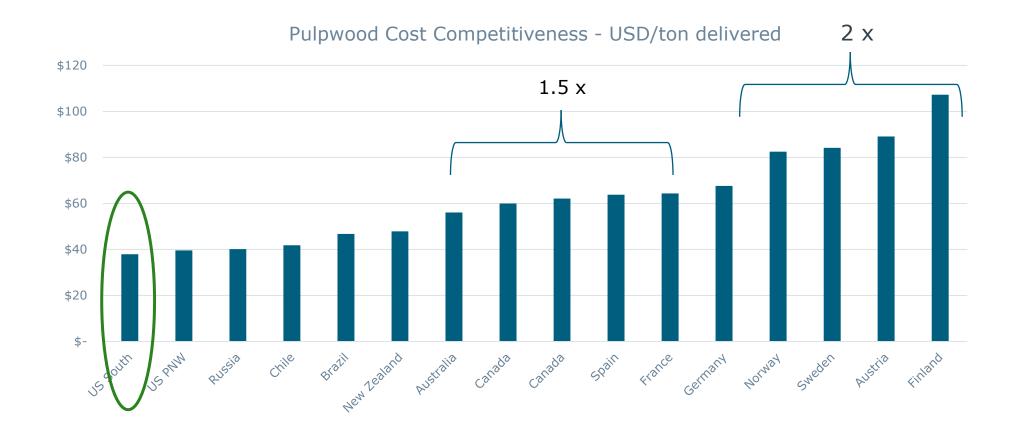
Sawlog Cost Competitiveness - USD/m3 delivered



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# US South pulpwood is dirt cheap v. ROW





# Desire to access US Markets

### Lumber and panels



















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Publicly stated desire to buy assets in US

















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# New Technologies

- Pellets 20 million tons consumption in South alone
- CLT/Mass timber
- Sustainable aviation fuel
- Renewable diesel/bio oil
- Bunker fuel
- Green hydrogen for steel production
- Bioenergy Carbon Capture and Storage (BECCS)
- Competing with new demands on the forest



# Disclosure Environmental credentials will be required very soon

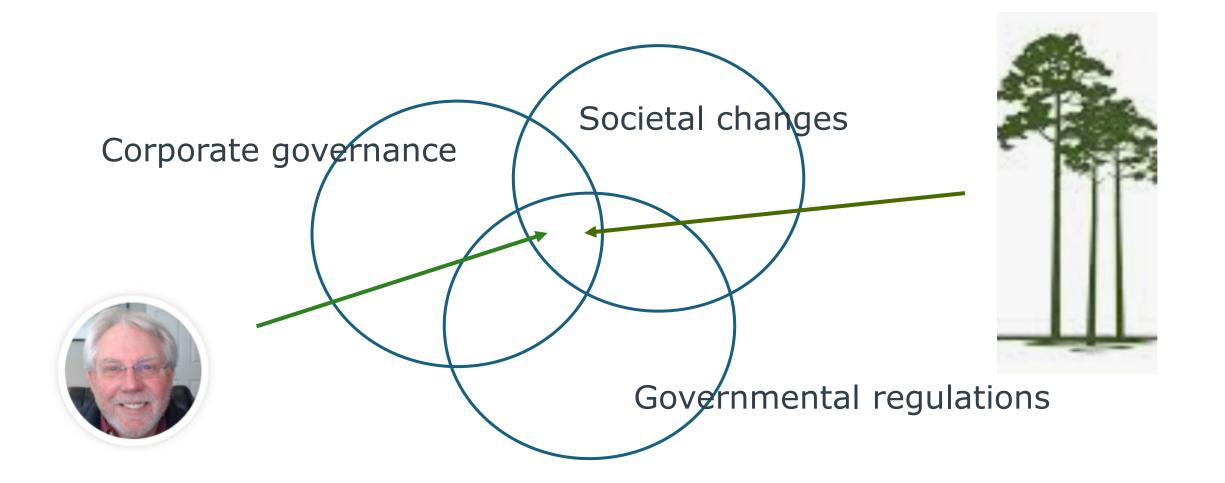
### Trees are the Answer

### How were we to know?





### Boy meets girl story





#### EUDR at a Glance – Key Provisions Law Passed July 2023, Compliance by Jan 1, 2025

- Applies to nearly all solid wood products and most pulp and paper products<sup>1</sup>
- Requires operators to provide customs with due diligence declarations; customs will have the authority to seize goods if compliance is not met or for suspicions of fraud.
  - Penalties for Operators can include fines of at least 4% on total exported turnover to the EU for the most recent year.
- Diligence must include geolocation for <u>all parts</u> of the article derived from wood in whole or in part.
  - $_{\odot}$  Simple geolocation for lots less than 4 hectacres
  - $\circ~$  Polygons for lots greater than 4 hectacres
- System is designed to prevent import of goods that contribute in any way to Deforestation and Degradation of Primary Forests.

EUDR places the onus on operators to provide diligence statements that exports comply with EUDR and specifically including submission of geolocation data for all wood used in the mfg. of the goods.<sup>2</sup>



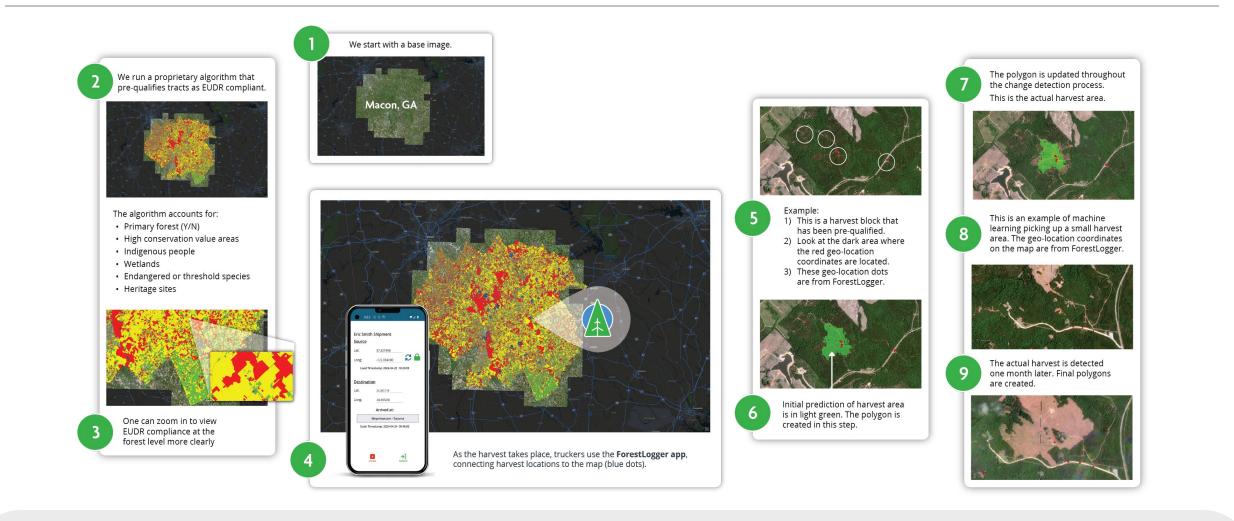
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### Global Markets Are Demanding Wood Supply Chain Transparency

- Population growth, climate change and calls for bans on single use plastics are placing ever increasing
  pressures on the global wood supply.
- Forests are expected to provide renewable energy products and carbon storage.
- Regulators, reacting to the public concern around deforestation, are enacting far-reaching deforestation legislation.
- Consumer brands that are highly exposed to paper packaging are growing increasingly aware that their purchasing practices may be leading to deforestation.
- New energy products derived from the forest require a high degree of assurance relative to the wood supply chain and the forest (EUDR, RFS and RED3).



# Risk Assessment and Remote Capture of Harvest Polygons





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# What does the future hold for the NC's Forest Industry?

- Exciting
- Dynamic
- Transparent.....

# And Uncomfortable

