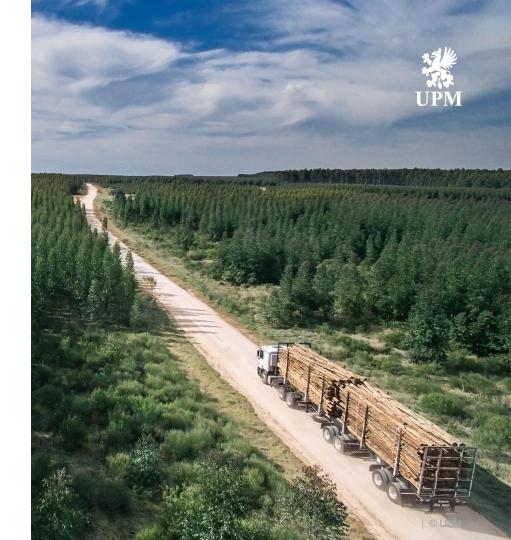


Traceability Study Uruguay Operations

UPM Pulp

Contents

- 1. UPM and UPM Pulp
- 2. Sustainable Forestry
- 3. Biodiversity
- 4. Social Responsibility
- 5. Wood procurement & Suppliers
- 6. From Wood to Pulp Traceability
- 7. Systems Integration & Processes for the EUDR

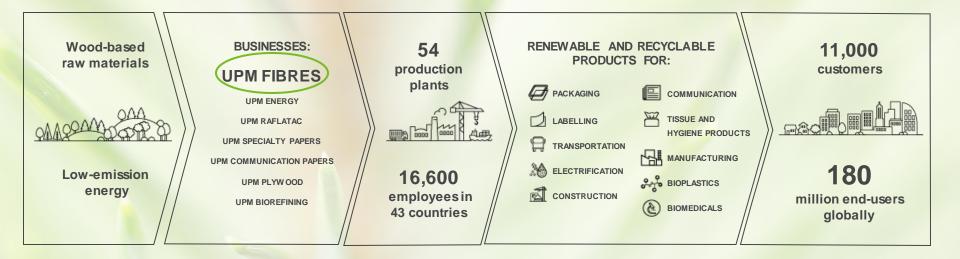




1. UPM and UPM Pulp

This is UPM





UPM Pulp



- 1,800 employees in Europe, China, North America and Uruguay
- 5 modern pulp mills in Finland and Uruguay with annual production capacity of 5.8 million tonnes of hardwood and softwood pulp
- 150+ customers in selected markets



UPM Pulp All wood to our mills comes from legal sources – northern forests and Uruguayan eucalyptus plantations





Finland

Northern spruce, pine and birch is mainly sourced from private landowners and company forests in the vicinity of the mills.

Uruguay

Eucalyptus wood is sourced from company owned and leased plantations in Uruguay.

Modernnurseries

in Uruguay and in Finland ensure seedlings for highquality fibre



UPM Pulp operations in Uruguay: Highly competitive industrial platform with efficient supply chain



Certified eucalyptus plantations securing wood supply



Two world-class pulp mills with a joint production capacity of 3.4 million tonnes of eucalyptus pulp Direct connection from Deep set both mills to the ports terminal by train and barge Montevie

Deep sea port terminal in Montevideo and Nueva Palmira

UPM Pulp operations in Uruguay





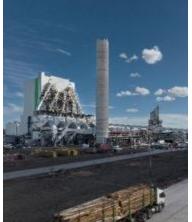
UPM FORESTAL ORIENTAL

Sustainable forestry operations Certified eucalyptus plantations 3 modern nurseries



UPM FRAY BENTOS

1.3 MT per year capacity of bleached eucalyptus kraft pulp (BEK)



UPM PASO DE LOS TOROS

2.1 MT per year capacity of bleached eucalyptus kraft pulp (BEK)



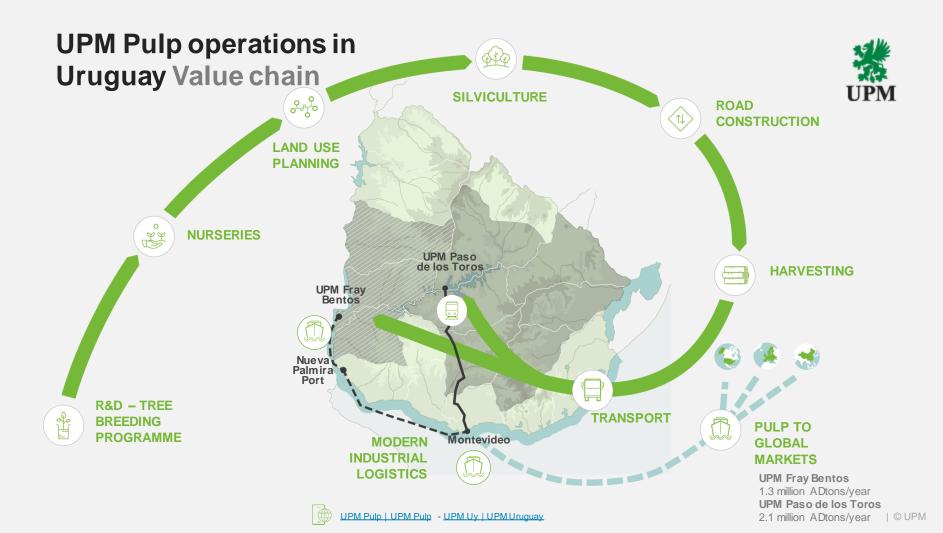
INDUSTRIAL LOGISTICS

Multimodal set-up Own deep-sea port terminal Direct gateway to global markets



UPM FOUNDATION

Contribution to the development of small communities in Uruguay inland





2. Sustainable forestry



FOREST ACTION

The UPM Forest Action programme takes a holistic view, covering the five fundamentals of responsible forestry:



Key principles of sustainable forestry



100% controlled and traceable by a third-party verified Chain of Custody

> Verified sustainability by FSC™ and PEFC certifications

(FSC N003385, PEFC/02-44-41)

UPM: 87% of all No wood from tropical rainforests or forests converted to plantations

> Forest biodiversity enhanced

wood used

certified

(2023)

Globally

=





Weplant 55 million trees every year

more than 100 trees per minute

Sustainable forestry

forestry principles





No use of tropical rainforests Respecting traditional and civil rights



100% UPM plantations double certified



Zero deforestation

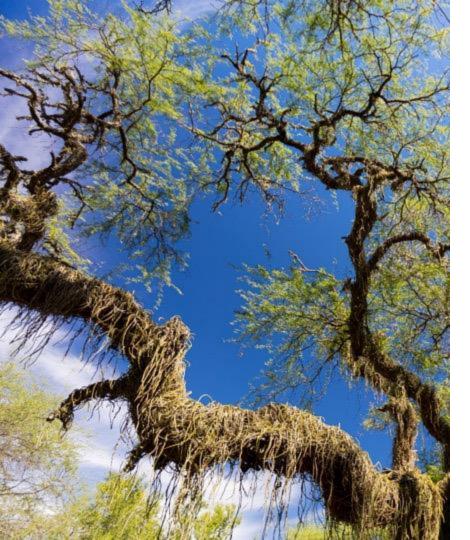


Safeguarding high conservation values

No use of genetically modified trees



3. Biodiversity



Plantations and biodiversity



+70,000 ha of preserved natural areas

Specific **management plans** designed to actively protect sensitive ecosystems

Monitoring programme started in the early 1990s allowed identifying:

- **33 plant species** registered for the first time in Uruguay
- A plant species registered for the first time globally



Antyphythum charruasorum

Long term monitoring studies





BIODIVERSITY MONITORING

started in 1992

WATER MONITORING PROGRAMME

started in 2007

SOIL MONITORING PROGRAMME

started in 2010

Results confirm the good conservation status of biodiversity, soils and water

Studies performed in collaboration with the State University and other external specialists



4. Social Responsibility

Our sustainability commitments build on leading global standards



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

THE Paris... CLIMATE IO years PLEDGE IEarly





UPM

Focus on people and respecting human rights



...of our employees



...of our suppliers & contractors



...of the communities where we operate



UPM's Salient Human Rights



Knowing our environmental impacts

SALIENT

HUMAN RIGHTS ISSUES

Decent work and working conditions Safe and healthy working environment

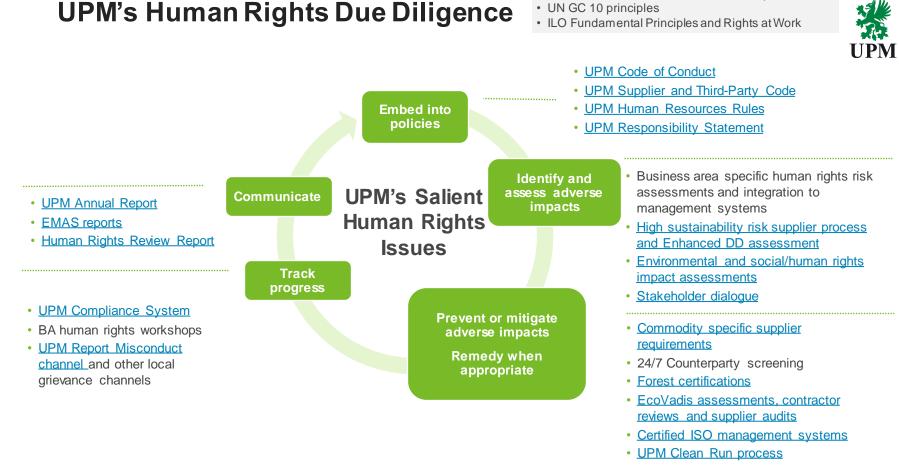
Respecting and supporting children's rights

No forced labor in any form

Building blocks in UPM's social responsibility



UPM



 UN Guiding Principles for Business & Human Rights OECD Guidelines for Multinational Enterprises

Our new sustainable supply chain programme

UPM

Read more on <u>our website</u>.

ESG topics	ENVIRONMENT			SOCIAL		GOVERNANCE	
Strategic focus	Climate action	Biodiversity	Resources and circularity	Labour and human rights	Health and safety	Business ethics and values	Responsible use of assets
AMBITION	Climate change mitigation in the supply chain	Biodiversity protection in the supply chain	Responsible resource use in the supply chain	Decent work in the supply chain	Health, safety and security in the supply chain	Ethical behaviour and culture of integrity in the supply chain	Responsible use and management of assets in the supply chain
RISK MITIGATION	Sustainability risk identification, assessment and mitigation in the supply chain Transparent sharing of reliable and credible sustainability information between chain members						
COMPLIANCE	Compliance with applicable regulations and UPM requirements in the supply chain						
		2030 ARGETS		ATINUM Top 1% COVCIDS ustainability Rating AUG 2024	TOGETHE		© l

Focusing on Local Communities

Community engagement Strategy & Actions

DIALOGUE

Build trust & establish relations Understand impacts Community engagement

ISSUE MANAGEMENT

Solve conflicts Social and environmental monitoring

COMMUNIT

Community development projects

Biofore Share and Care programme

Active dialogue with stakeholders

• We engage in active dialogue with our stakeholders-to discuss our operations and targets.



- We respond to stakeholders' concerns at local, national and international level, i.e., by participating in public debates and meeting various NGO representatives.
- We strive for good and long-term collaboration with extensive supplier and contractor pool.
- We provide transparent reporting of environmental and societal impacts (EMAS).
- We promote a proactive speak-up culture and provide anonymous grievance mechanisms: e.g., <u>UPM Report Misconduct</u> channel for raising stakeholders' concerns is operated by an independent external service provider in a system called SpeakUp.





Recognised in social responsibility

Member of Dow Jones Sustainability Indices

Powered by the S&P Global CSA





ShareAction»



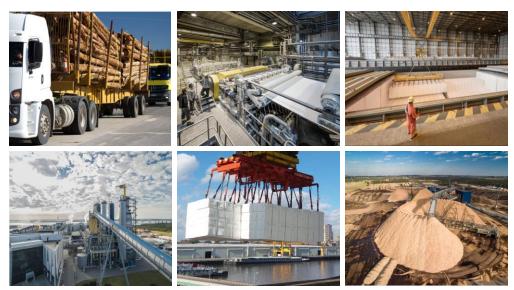




5. Wood Procurement & Suppliers

UPM & Wood Suppliers Wood procurement





- 100% Eucalyptus (Mostly E. grandis, E. dunnii)
- Around 90% of the wood procurement is FSC[™] and/or PEFC certified.
- 100% of the fibre used in pulp production is FSC Controlled Wood and/or PEFC Controlled Sources.
- UPM Paso de los Toros and Fray Bentos pulp mills Chain of Custody certificates:
 - FSC[™]: SGSCH-COC/CW-002249
 - PEFC: SGSCH-PEFC-COC-110034
- Internal and third-party audits performed on annual base, according to the audit plan.



UPM & Wood Suppliers Suppliers are an essential part of our value chain

• Our continuous teamwork with our suppliers ensures the efficiency, transparency and responsibility of our entire supply chain.



- We engage in long-term co-operation with selected suppliers to optimise cost, quality, sustainability and innovation.
- <u>UPM Supplier and Third Party Code</u> defines the principles that all suppliers and third-party intermediaries need to comply with. Available in UPM Web.
- It sets the minimum level of performance that UPM requires from all of its suppliers and third-party intermediaries.
- Wood delivery contract includes, as an Annex, UPM requirements for the suppliers.

Wood Procurement

Uruguay's climate type and vegetation

- Humid subtropical climate.
- Main vegetation type: grasslands (Pampa biome). No rainforests.
- Native forests formed by small to medium sized trees protected by law (~5% of the country's surface).
- Forestry plantations established mostly on old cattle grazing land. Not replacing native forests (forestry priority soils defined by legal requirements).





Annual average: 1,200 to 1,500 mm





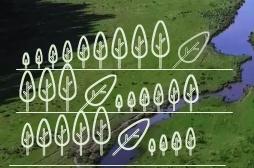
Wood Procurement Forestry resources in Uruguay - Background



- In 1987 the Forestry Law N° 15.939 was approved with two major objectives: conservation of native forest and promotion of forestry plantations resources.
- Uruguayan legislation prohibits the felling of native forests and any activity that threatens native forests, e.g. eliminating native forests to plant trees, fodder crops, cereal or oilseed crops, urbanised areas or subdivisions; and any other activity that involves eliminating native forests or compromising their survival.
- On a very small scale, timber from **native forest** could be used for domestic purposes or commercial destinations as firewood, only with an approved management plan and a legal authorisation for logging issued by the General Forestry Directorate.
- Forestry plantation must comply with environmental impact regulations and follow guidelines of the Uruguay's National Directorate of Environmental Quality and Assessment.

Uruguay forestry sector in figures





~4.0 million hectares of forestry priority soils ~1.1 million hectares planted mostly with Eucalyptus and Pine

~800 thousand hectares of Eucalyptus Mainly *E. grandis*, *E. dunnii and E. maidenii* Growth rate of 20-30 m³/ha/yr in average. 10 years rotation for Pulp production.

~840 thousand hectares of native forest
+25% of growth since the Forestry law was promoted in 1987

Clear land ownership structure and strict land use policies

Wood Procurement Uruguay forestry Plantation Permits & authorisation in Uruguay

Forest plantation register issued by the General Forestry Directorate

- Approval of the management plan.
- Compliance with legal regulation (Law 15.939) and other regulatory decrees.

Forest Plantation Authorisation Issued by the National Directorate of Environmental Quality and Assessment according to the Environmental impact assessment law (Law N°16.466) and regulatory decrees

- Environmental authorisation is mandatory for plantations done after 2005 and over than 100 ha.
- Reforestation over 100 ha, planted before 2005, require special environmental authorisation.
- Since 2022, new plantations or reforestation between 40 and 100 ha require register and approval.

Harvesting operations

- Don't require any special legal authorisation/permit by any authority.
- The plantations harvested and wood sources are clearly identified in geographic systems.



Wood Procurement Argentina forestry Plantation Permits & authorisation



- Argentina* Permit issued by the Ministry of Livestock, Agriculture and Fisheries (approval of the Management plan)
- *An internal audit is done by an independent auditor against EUTR requirement for each supplier/origin agreement.



Wood procurement in Uruguay UPM Forestal Oriental



- UPM Forestal Oriental is responsible for the wood procurement for the UPM pulp mills in Fray Bentos and Paso de los Toros.
- More than 90% of the wood used in the pulp mills in Uruguay is supplied* by UPM Forestal Oriental from:
 - 61% Own plantations
 - 23% Supply agreements with private owners (standing wood to be harvested by UPM Forestal Oriental).
 - 16% Wood from the market (deliveries direct to the mills)
- The rest (~8%) is purchased from independent suppliers who have been working in close cooperation with UPM for many years.

*average of latest estimate 2023 (Fray Bentos and Paso de los Toros mills)



UPM Forestal Oriental Sustainability is at the core of our operations





100% TRACEABLE WOOD ORIGIN ZERO DEFORESTATION



NO USE OF GENETICALLY MODIFIED TREES FSC[™] / PEFC dual certification



BIODIVERSITY, SOIL AND WATER safeguarded through long-term monitoring.

>70 000 HECTARES

(\$)

dedicated to biodiversity conservation in UPM land



CARBON ACCOUNTING along all value chain steer climatepositive actions



CONTRIBUTION TO THE DEVELOPMENT of small communities in Uruguay inland

The anatomy of UPM plantations



planted with UPM's specifically selected, high-productivity trees from the most suitable eucalyptus species suitable to a wide range of customer end-uses (mostly *E. grandis* and *E. dunnii*)

60%

non-planted area for maintaining the natural vegetation (native forests, water courses and wetlands), infrastructure and conservation areas

40%

years rotation time from planting to harvesting

10

UPM EUCA pulp produced in Uruguay is very well positioned to comply with the EUDR



- No deforestation or forest degradation have taken place in our operations at any point in time since we started operations in Uruguay (in the 1990s)
 - ✓ native forests are protected by law since 1987 (Forestry Act)
 - ✓ plantations established mostly on modified natural grasslands previously used for cattle grazing
 - on soils defined by the State as forest priority soils, which have very low productivity for traditional land uses
- Very clear land ownership with no land disputes.
- Plantation Management plans require approval by competent authorities. (see Permits & Authorisation in Uruguay and Argentina)
- Wood Supplies are declared as certified or controlled wood, against a forest management certification and/or chain of custody certification scheme issued by a third-party certification body which addresses activities covered by the EUDR (FSC[™] and PEFC certification). (Uruguay and Argentina)
- Full traceability of the wood from nursery to pulp mill supported by traceability model.
- Legal Due Diligence in place in wood procurement to verify legal compliance.

UPM EUCA pulp produced in Uruguay is very well positioned to comply with the EUDR



All wood supplies is supported by verifiable documentation that clearly identifies:

- The entire supply chain back to the forest of origin (supply area).
- All suppliers within the supply chain.
- Trade Documents, including legal contractual agreements and or self-declarations, or other reliable information indicating that the products do not originate from controversial sources regarding EUDR requirements.
- Trade name and product type, scientific name and common name of the tree species.
- Legal documentation for Wood transport which include information about wood origin at field level, wood species and supplier.

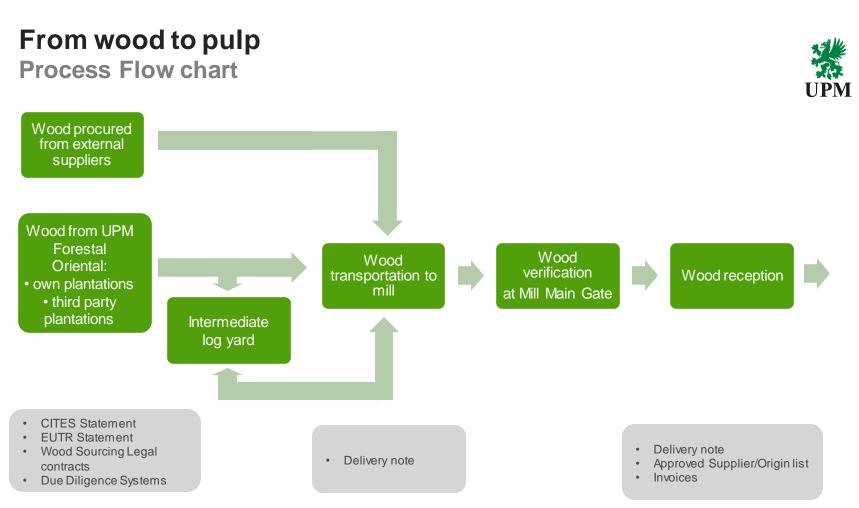
Indigenous Peoples

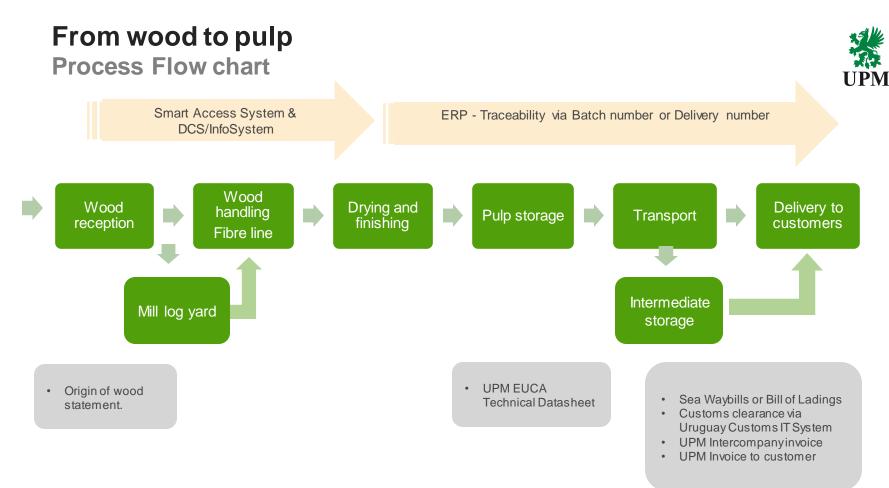
- We also recognise that the most marginalised and vulnerable segments of the population (e.g., indigenous and tribal peoples) may be disproportionally affected by land acquisition and/or natural resources use and therefore warrant special safeguards.
- UPM complies with applicable forest certification requirements on recognising and upholding the rights, customs and culture of indigenous peoples, as defined in international conventions, declarations and treaties on the rights of indigenous peoples, such as the UN Declaration on the Rights of Indigenous Peoples (UNDRIP) and ILO Convention 169 on Indigenous and Tribal People.
- UPM ensures through its human rights due diligence and third-party certification that its own forestry operations and wood sourcing do not violate land tenure or land use rights of traditional or indigenous people's groups.
- Risk assessments, community consultations, including Free, Prior, and Informed Consent (FPIC) when applicable, and access to grievance channels are embedded in our forestry operations and certification requirements.
- UPM Annual Report 2023 (pages 82-83)
- Forests | UPM.COM





6. From Wood to Pulp Traceability & Permits





I © UPM

©UPM

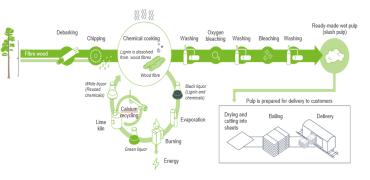
From wood to pulp

Traceability Model

- Since 2021, a traceability model has been developed in Fray Bentos, which in 2024 was replicated at Paso de los Toros.
- It is capable of determining the origins of the wood used through data and assumptions.
- With the entry into force of the EUDR standard, this model becomes the input to determine the wood origins of each production lot (batch).





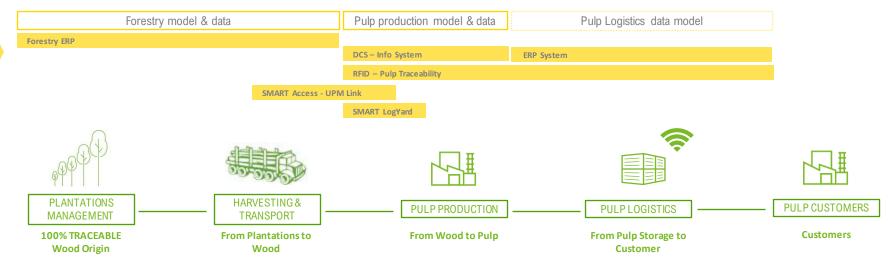




Traceability Model Conceptual view



"UPM EUCA Pulp production lots through digitally enabled and traceable value chain"



"Multilayer value chain data integrated to Pulp production lots delivered to Customer"

| © UPM

From wood to pulp



- The origin of the wood at field level is set forestry systems and validated in Mill Gate System.
- Full traceability of the origin of wood:
 - o Supplier name
 - Geolocation (polygon)
 - \circ Wood Species
 - o Harvesting period
- All activities (harvesting, forwarding, transports, etc) and stocks are monitored in Forestry systems.



From wood to pulp Geolocation - Polygons



Example of Polygon: GeoJSON Visualizer tool HERE XYZ: GeoJSON Visualizer



From Wood to Pulp Delivery note of wood transportation

Wood transportation by trucks, from field or intermediate log yards to mill Includes:

- Supplier's name
- Origin of wood
- Species
- Product type
- Amount
- Certifications claims.

vrestal Oriental S.A.				RUT. 21 227726 0015			
	REMITO	REMITO INTERNO		Salida de Monte			
UPM Forestal Oriental			Remito	A	N°	1000004154	
UPM 18 de Julio 818 60000 Paysandú, Uruguay			Origen	~	Remit	1000004134	
T: +598 4722 4644 F: +598 4722 4655 Company www.upm.com.uy					Fecha / Hora		
Company www.upin.com.uy	DUA: 566590	DUA: 566590			27/11/2022 07:22		
Destinatario/Depósito :		CANTIDAD	CUADRO		ESPECIE/PRODUCTO		
Planta FB - UPM		2	3V223a		Dunnii 7.20 Controlado		
Monte/Proveedor :							
				BRUTO		45,460	
Transportista/Matricula/Chofer :			TARA		15,6	15,620	
			NETO		29,8	40	

-10

La empresa transportista es la única responsable por todas las consecuencias de orden laboral, administrativo, civil y penal derivadas de la carga.

Please note that UPM will share the information required by the EUDR in a strictly controlled manner, as any additional details are considered internal and sensitive.

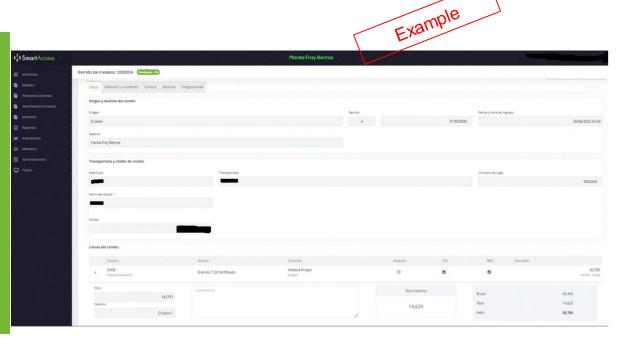
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From Wood to Pulp Smart Access System



Includes:

- Supplier name
- Origin of wood
- Species
- Product type (logs or chips)
- Transport details
- Amount.



Please note that UPM will share the information required by the EUDR in a strictly controlled manner, as any additional details are considered internal and sensitive.



From wood to pulp DCS – info system

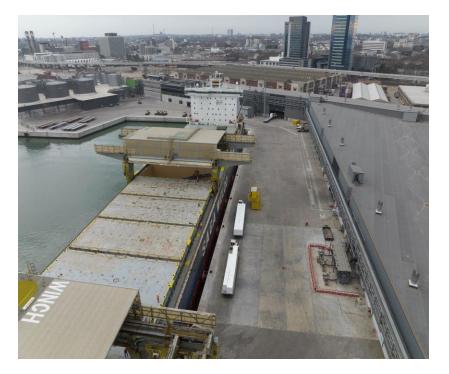
DCS – Info system

- The Distributed Control System (DCS) used to remotely monitor and control the production process from the control room stores the process data with time tags in its server for long periods.
- In addition to this, the data is transferred to the Information System for analysis and reporting.
- Starting from the moment the wood chips are fed into the fibre line, it is possible to trace forward using the retention times in the process and the production time information associated with each production lot (batch) number registered in the ERP system.
- Both systems are in secure servers and the information is safely backed up.





From wood to pulp ERP System



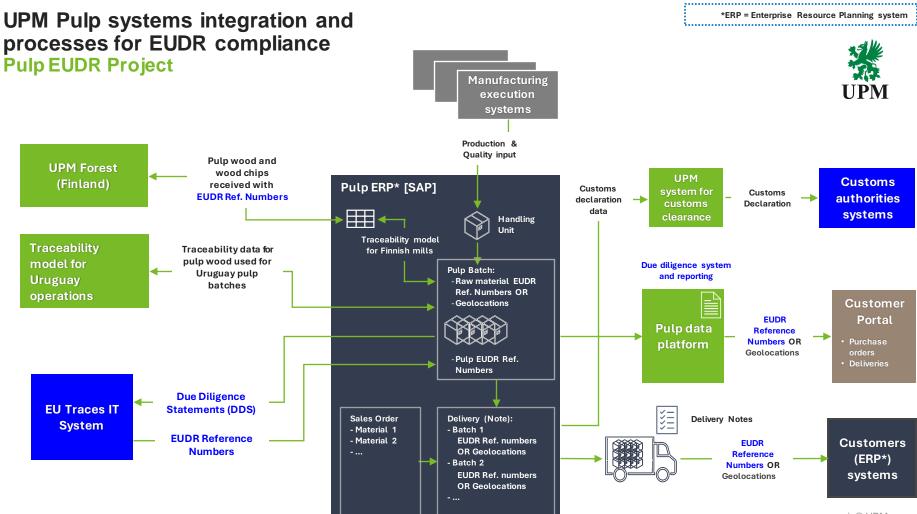
UPM

ERP System - Traceability via Batch number or Delivery number

 With the production lot number or delivery number associated to each sales/delivery recorded in ERP system it is possible to trace backwards to the production time, production line information and origin of wood information.



7. Systems Integration & Processes for the EUDR



| © UPM

Geolocations and other EUDR relevant data to customers outside the EU market for the pulp produced in Uruguay Pulp EUDR Project





UPM Pulp ERP system

Geolocations other data required by the EUDR Article 9 and Annex 2 are mapped with pulp production lots produced in Uruguay mills

UPM Uruguay Traceability model Geolocations (as GeoJSON.file) and other data required by the EUDR Article 9 and Annex 2 will be provided to customers as part of other shipping documents

Customers

EUDR data to customers - via automatic email



- Delivery note documentation.
- A file in PDF format containing geolocations, and other EUDR Annex 2 listed information.
- A file in CSV format containing the same details as the PDF file above, in order to facilitate customers' use of automated data uploads etc.
- geolocations in the form of geo.json files (when UPM Euca pulp is shipped to markets outside of the EU).
- Information in the email text regarding where the customer can access further information (via a dedicated webpage) with regard to UPM Pulp's due diligence processes and 'evidence'.



