

New industrial logistics platform

State of the art pulp and chemicals deep-sea terminal



UPM own and operated terminal
Railway all the way from mill to terminal



Pulp warehouse and vessel loading operation
~50 000 m2 of area
~70 ships per year



Logistic for main chemicals for the mill
sodium hydroxide, sulfuric acid and fuel oil ~30 ships per year



Start-up of operations in October 2022
USD ~280 million investment



Pulp specialized port terminal Construction process



Site
preparation



Civil construction and
concrete work



Mechanical and
electrical work, chemical
tank installations



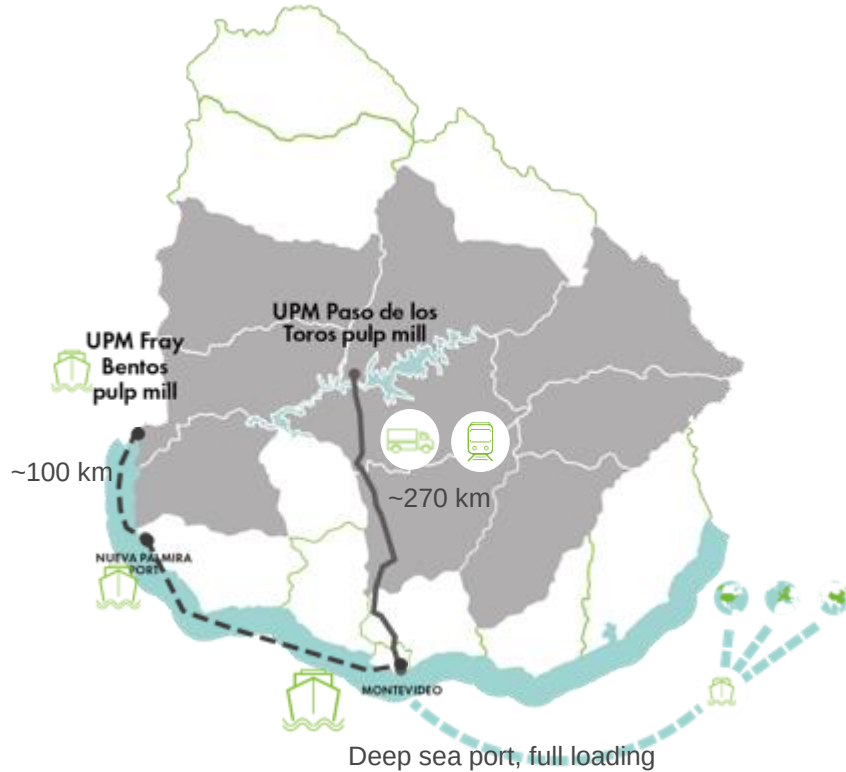
Commissioning



Start-up
First chemical
vessels arrived



New set-up secures sustainable, competitive and flexible industrial logistics



Multimodality

Road, rail, maritime and river

Volumes per year

- ~ 375 barge trips from Fray Bentos mill
- ~ 1,750 pulp rail trips from Paso de los Toros
- ~ 355 chemical rail trips to Paso de los Toros

Three ports

Fray Bentos, Nueva Palmira and Montevideo

600 workers

from contractor companies
+20 UPMers

Pulp specialized port terminal



7 days a week
24 hours a day

Operation and Control Center
Industrial concept at the port
Automation

Full loading
Logistic time to customers

Basic components

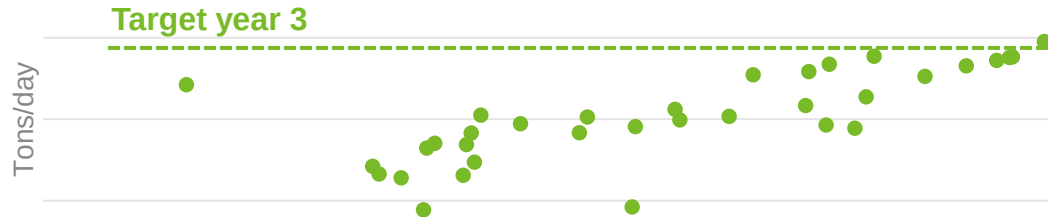
- Berth place and esplanade
- Pulp warehouse and railway unloading area
- Tank park
- Railway facilities
- Internal roads and other service facilities

Industrial Logistics

Operational performance

Vessel loading rate beyond target levels

Ship Type 13x2



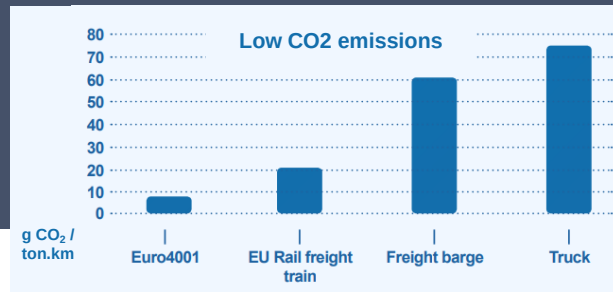
Ship Type 8x2



Safest and environmentally friendly



- Highest safety and automation standards for rail transport in Americas (ETCS level 1)
- Energy consumption 3 times lower than road transportation
- Significant reduction of noise levels and vibrations in line with European standards
- Pulp wagons designed exclusively for this operation





Railway transition impact in figures

- 80.000

Truck trips in
road / year

- 400

Contractors
Headcount

- 80 ktons

CO2 / year

Railway Roadmap 2024

Q1

COMMISSIONING
& INTEGRATION

Q2

RAILWAY
STAR UP

Q3

RAILWAY
RAMP UP

TRUCK
RAMP DOWN

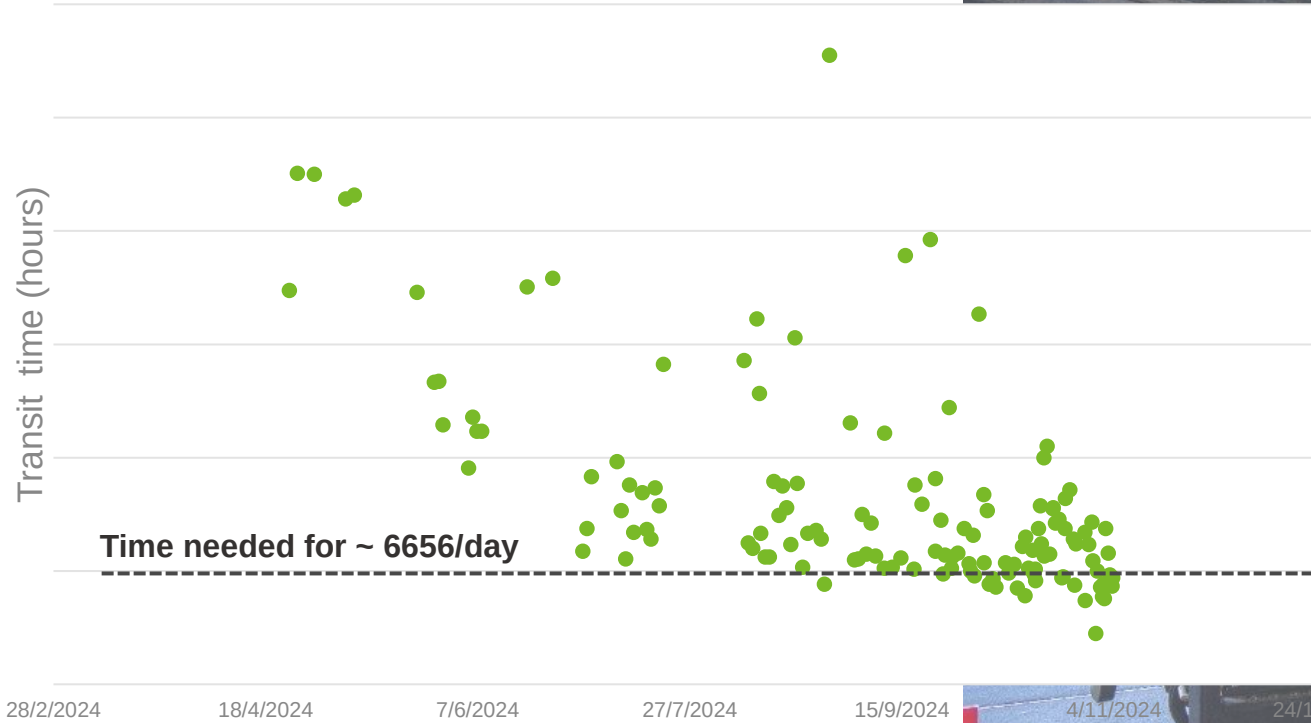
Q4

TRUCK INTO
CONTINGENCY MODE

FULL RAILWAY
MODE

- Working principles
 - Gradualism
 - Operational excellence
 - Anticipation

Industrial Logistics Railway Transit Times



What has been done in terms of social prevention and communication?

Railway road safety awareness programme

7648

Students and teachers

250

Local authorities and leaders

25

Communities

300

Workshops for students and teachers



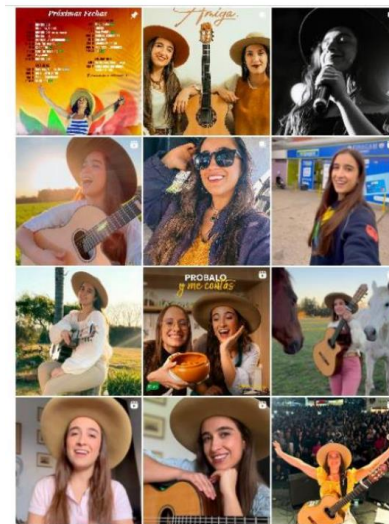
Prevention and proactiveness: how to create awareness at the public level



Two public welfare campaigns implemented by Presidency The state invested more than 800.000 USD in two nationwide campaigns focused on safety, and intruders in the railway area.

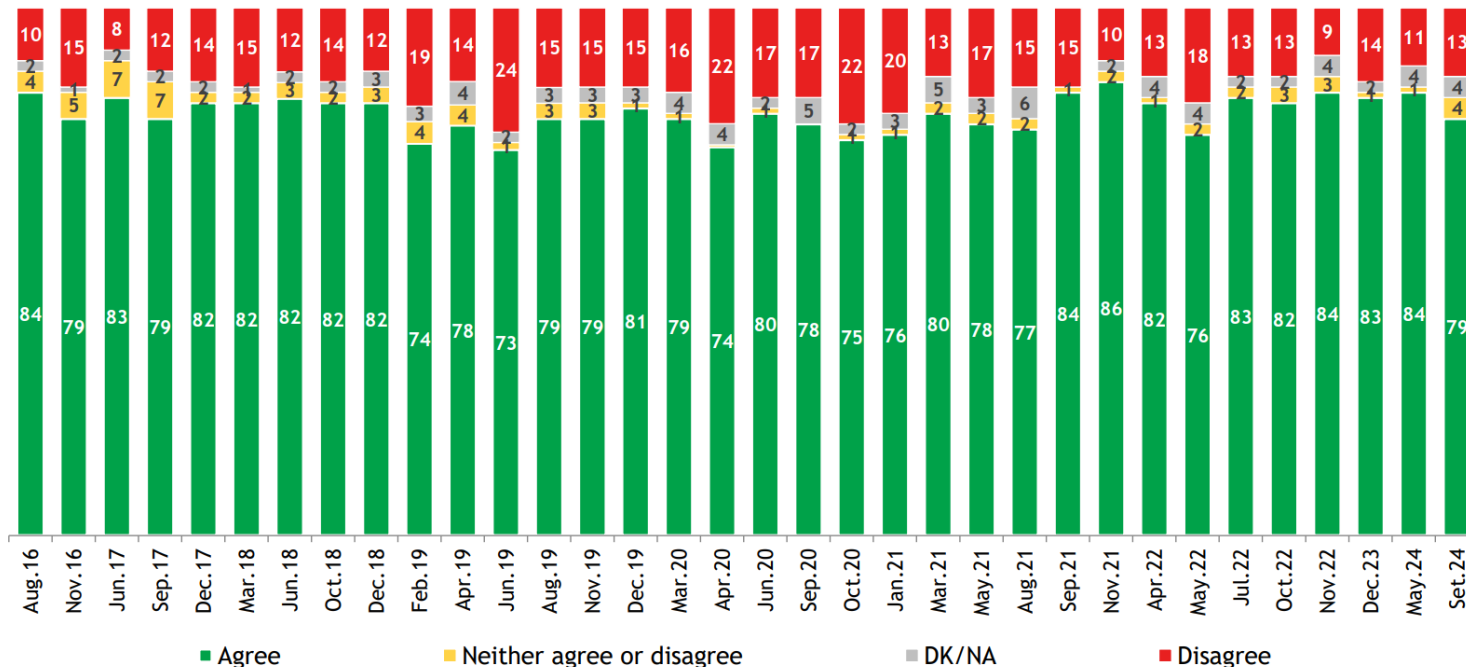


Road safety awareness programs and digital media campaigns through local influencers executed



Public Opinion Endorsement

Support level remains high after RW start up.



One of the factors that facilitated the establishment of the Paso de los Toros plant was the recovery of railway transportation (trains) in Uruguay. Do you agree or disagree with Uruguay's investment in the recovery of trains?

High level of logistics automation and digitalization

Digital system for transportation

- 100% digitalized operations
- For managing transportation processes (pulp, chemicals, wood)
- Allows unified interactions with own and external systems
- All trucks with GPS, RFID tags, proximity cards and antennas



Port terminal managed from centralized control room systems

- Chemicals ship unloading
- Trucks and train loading of chemical products
- Monitoring of chemical storage tanks
- Product temperature, loading quantities per truck/train
- Fire water system
- Alarms

From Uruguay to the world



Safety first



Please follow the safety instructions given to you



Wear the required Personal Protective Equipment in all instructed areas



Stay with your host and follow instructions



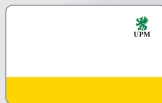
Mind the steps, hold onto the railings



Smoking, alcohol and other intoxicating substances are prohibited on the premises



Photography, videotaping and recording are prohibited without UPM permission



Keep your visitor badge visible



UPM **BIOFORE**
BEYOND FOSSILS

