ET TIMBETER

End-to-end digital platform for sustainable forest management

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Precision forestry platform: For solving complex problems

End-to-end value chain from forest to production/shipping, precise, objective digital data.









Timber resource management Traceability of the supply chain Optimization of logistics, production and sales

Building the digital bridge between private and public sector

Forestry data

Measure

Timber data

Export import stats





Timbeter for growing trees (In development)

Digitalised ground-based measurement linked with remote sensing that ensures accountable and transparent forest value and carbon sequestration assessments



Timbeter

Timbeter Dashboard



Timbeter Container

Tool to measure timber in containers and organize Bill of Ladings.

Most efficient AI tools: - for measuring log diameters, pile

- and truck volumes, in less than 3 minutes.
- to detect timber pieces on a mobile device captured image. Standalone hardware device.

Web platform - Post-process timber data

- Users
- Companies
- Devices related to a company
- Exchanging information in real time and keeping control of the



Product passport (Veriff for forestry)

competency results in accurate forestry data for data driven policy making Best-in-class combination of hardware and AI software technology Most efficient AI Policy and governmental measuring tools in the competency industry

> Standalone hardware device

End-to-end easy to

use web platform

Holistic data analytics



Functionalities

Diameter measurement

Obtain the volume, log count and diameters of each and every log.



- Number of logs in a pile
- The average diameter
- Diameter of each log
- Calculation according to the formula selected
- Diameter distribution
- Range of diameters

Contour measurement

Calculates the pile volume using pile density coefficient.



- Automatic or manual pile contour
- Volume calculation with fixed air filling factor/ pile density coefficient
- Heights of the pile according to the selected distance
- Pile density/air filling factor/ conversion factor

Pile density measurement

Determine the pile density coefficient and obtain the volume, log count and diameters of each and every log.



- Pile density coefficient/ratio from the selected area of the pile/whole pile/conversion factor
- Volume calculation
- Number of logs
- Diameter of the logs
- View diameter distribution

Truck measurement

Determine the cubature of packs

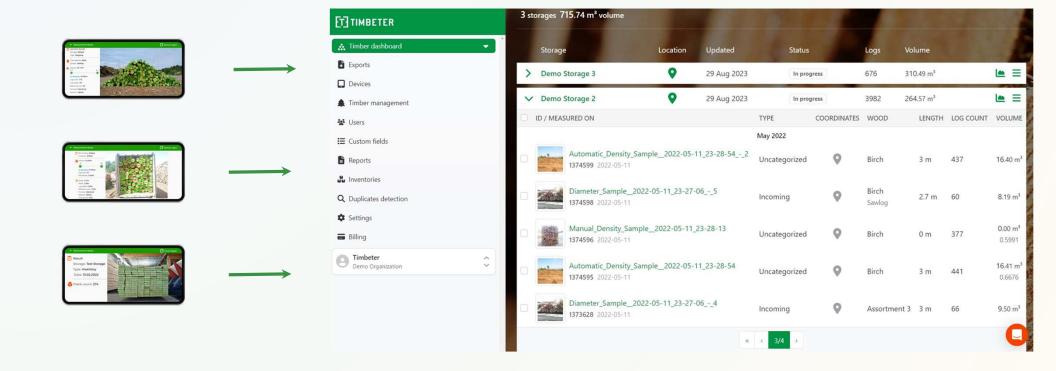


- Measure the volume of pack/packages using the pile density coefficient.
- The height of every package.



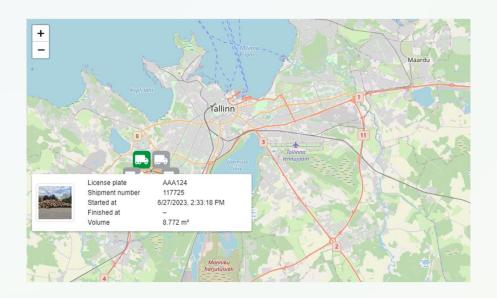
Timbeter Dashboard: All measurements stored in the cloud

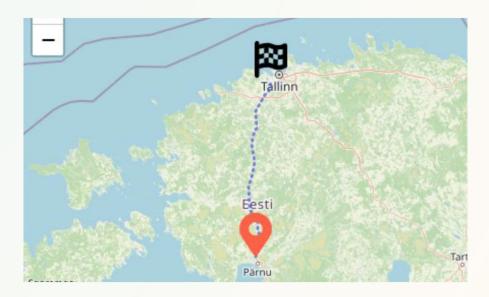




Additional features: Logistics overview

Have a complete overview of your logistics







Timbeter forestry management smart solution

Supply chain:



Forest



Transportation



Storages/inventorie



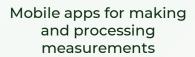
Production



Transportation / transactions

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Control over:



1. Timber origin



2. Transactions



3. Internal & external reporting



4. Logistics and transportation



5. Illegal activities



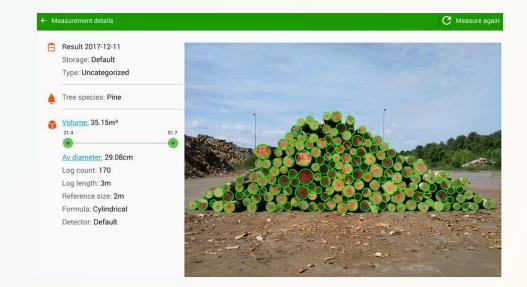
6. Sustainable forest management



7. Safety and working environment

Process benefits

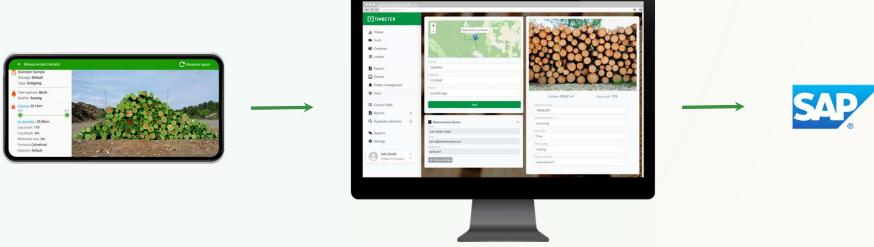
- Fighting deforestation
 Digital proof and easily accessible data
 helps reduce illegal logging and provides
 control
- Bridge between private and public sector Providing competent results in accurate forestry data for data driven policy making
- Control over chain of custody
 Trackable data can provide real-time overview of timber movement from the forest to the end consumer





Timbeter Dashboard: Easy integration via API

Timbeter can be easily integrated via public API with different accounting/ERP systems



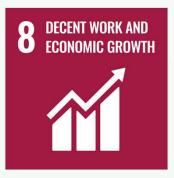




Sustainability

Supporting companies accomplish the SDG goals















Climate and biodiversity benefits



Reduced emissions:

Timbeter solution is 100% paperless and do not need specific hardware



Reduced carbon footprint in transportation:

Optimized planning for timber transportation saves time and avoids half-empty rides with unnecessary extra CO2 emissions.



Accountable carbon sequestration calculations:

Timbeter provides precise and reproducible primary data for accountable automated carbon sequestration calculations in harvested timber and growing forests, and for quantifying the climate benefits of wood construction



Zero chemical pollution:

Timbeter avoids the use of considerable amounts of paints and sprays

Clients: Global leaders in portfolio













- Largest pulp and paper company in Latin America
- Present in over 80 countries
- Employees: 37 000+
- Started using Timbeter: 2021
- Using Timbeter for truck measurement of pulpwood

Since using Timbeter



Increased accuracy and measurement speed



Real-time overview on volumes



Constancy and control of truck measurements



Use of reports for better understanding of real volumes



Safety of employees



Decrease of the human factor and the related errors



Optimization of the supply chain



Brazilian clients







ArcelorMittal

- World's leading steel and mining company
- Operating in 18 countries
- Employees: 190 000+
- Started using Timbeter: 2018
- Using Timbeter for incoming fuelwood measurement

Since using Timbeter



Increased accuracy and measurement speed



Preventing fraud/theft through digital proof



Visual and digital proof of incoming timber



Digital reporting, fast and easy access to the data.



Safety of employees



Decrease of the human factor and the related errors



Less fuelwood spent

Academic partnership

Timbeter is collaborating with academic organizations around the world to create educational opportunities for future foresters.



Luua Forestry School, Estonia



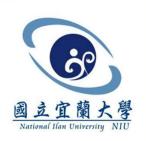
Federal Rural University of Rio de Janeiro, Brazil



University of São Paulo, Brazil



Poznań University of Life Sciences, Poland



National Ilan University, Taiwan



Timbeter in Brazil 📀





More **small clients** and **large corporations**





First Brazilian small corporation	Hiring Customer Support	First governmental project	Second governmental corporation	Opening office in Brazil	Stay tuned!
		Pernambuco state	Rio Grande du Norte state		
2016	2017	2021	2022	2022	2023

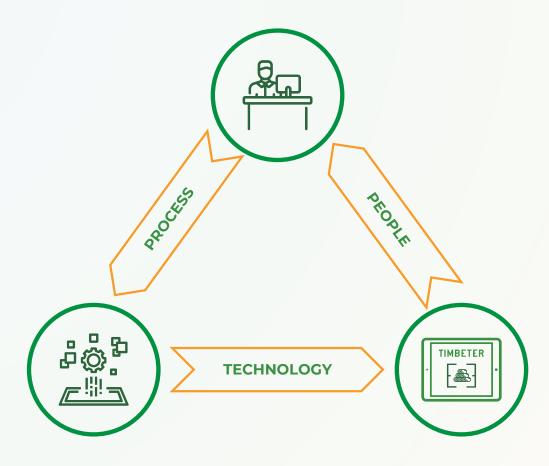
Things to keep in mind

- Open to digitalization and innovation, quick adaptation
- Business can be done from the distance
- Local references work the best

- Portuguese is important
- Patience required bureaucracy takes time
- Payments in the local currency



Change management



Our mission

TIMBETER

Global solution for efficient, transparent and data-driven timber supply chain management.

Our mission is to save essential and limited resources in the forestry: trees, labour force and driven miles.



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