kanop

June 2023

A New Era of Transparency and Trust in the Carbon Market

Aboveground Biomass (DM)
Tons / hectare

0   280

kanop
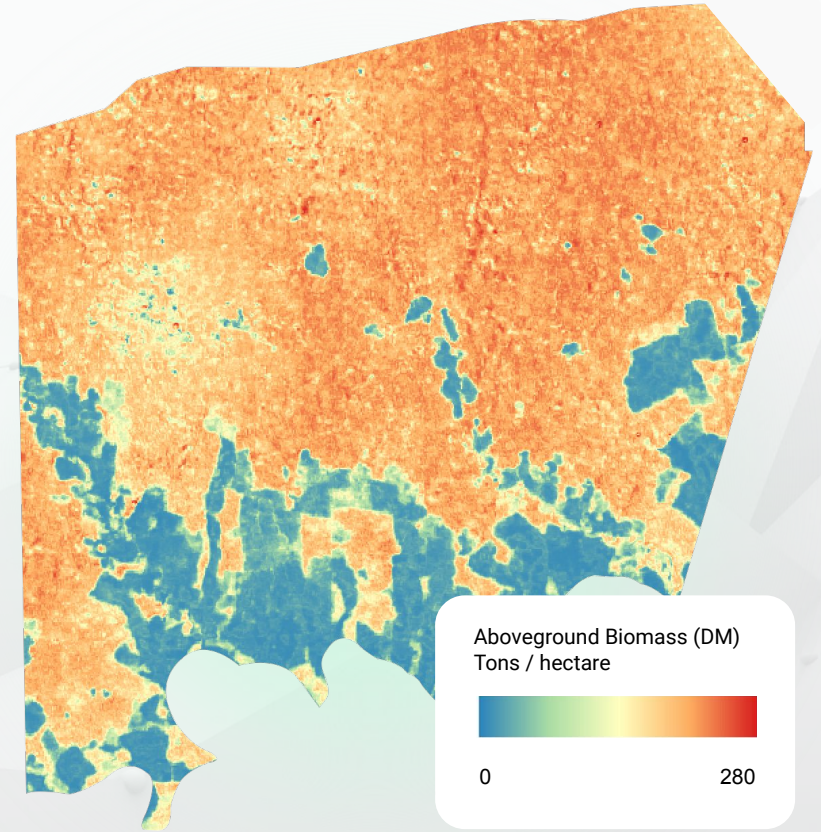
Limited transparency in the Voluntary Carbon Market (VCM) reduces its potential
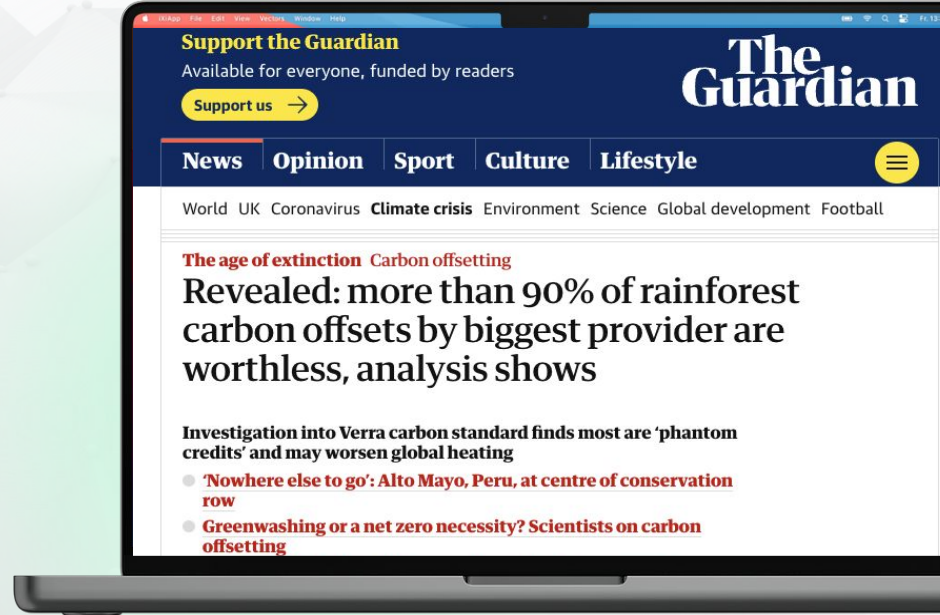
Limited trust

Diminished trust in the carbon market leads to decreased investments.
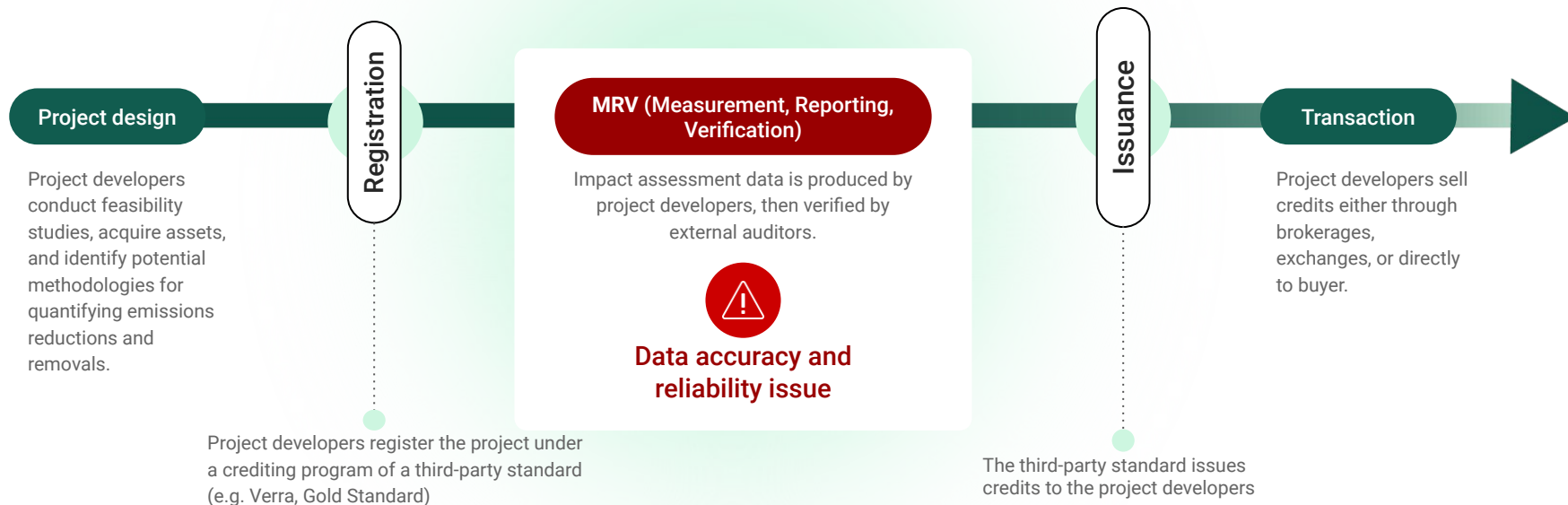
Growing risk exposure

Creates reputation, regulatory and legal risks. Voluntary Carbon Market participants will need to implement accurate tracking and reporting of the effectiveness of their carbon offset efforts.*

* US Non-Traditional Accounting and Climate Disclosure, EU Corporate Sustainability Reporting Directive (CSRD), EU Carbon Removal Certification, EU Corporate Sustainability Due Diligence (CSDD).

Support the Guardian
Available for everyone, funded by readers
Support us →

The Guardian

News   Opinion   Sport   Culture   Lifestyle

World   UK   Coronavirus   **Climate crisis**   Environment   Science   Global development   Football

The age of extinction   Carbon offsetting

Revealed: more than 90% of rainforest carbon offsets by biggest provider are worthless, analysis shows

Investigation into Verra carbon standard finds most are 'phantom credits' and may worsen global heating

- **'Nowhere else to go': Alto Mayo, Peru, at centre of conservation row**
- **Greenwashing or a net zero necessity? Scientists on carbon offsetting**

kanop

Lack of accurate and reliable data
is the key bottleneck

Life of a carbon credit

Project design

Project developers conduct feasibility studies, acquire assets, and identify potential methodologies for quantifying emissions reductions and removals.

Registration

Project developers register the project under a crediting program of a third-party standard (e.g. Verra, Gold Standard)

MRV (Measurement, Reporting, Verification)

Impact assessment data is produced by project developers, then verified by external auditors.

⚠️

Data accuracy and reliability issue

Issuance

The third-party standard issues credits to the project developers

Transaction

Project developers sell credits either through brokerages, exchanges, or directly to buyer.

WOOD INNOVATIVE DISRUPTION IN FOREST INDUSTRIES   **Leonhard Ventures**   SWISS KRONO

Today, MRV relies on large labor-intensive in-field measurement campaigns

Inaccurate reporting

Sampling-based reporting

Arbitrary

Lack of standardization

Time intensive

Months-long consulting missions

Expensive

Up to 42% of the total cost of a project*

Weak monitoring

Poor infrastructure

Unscalable

Unscalable to remote or small land holdings

WOOD INNOVATIVE DISRUPTION IN FOREST INDUSTRIES   **Leonhard Ventures**   **SWISS KRONO**

Kanop is the new standard for Digital MRV

An accurate, scalable and cost-effective
platform for project developers.

Accuracy

Science-based and cutting-edge AI
algorithms to determine above-ground
biomass (AGB) stock and change, among
other impact metrics.

Scalability

Works on diverse ecosystems, from the
scale of projects to jurisdictions, across
the globe.

Compliance

Adaptable to any methodology and
compliant with recognized global standards.

Trust

Auditable platform. Clear, transparent
and shareable reports.

kanop

American Carbon Registry
VERRA
Gold Standard

WOOD INNOVATIVE DISRUPTION IN FOREST INDUSTRIES   Leonhard Ventures   SWISS KRONO
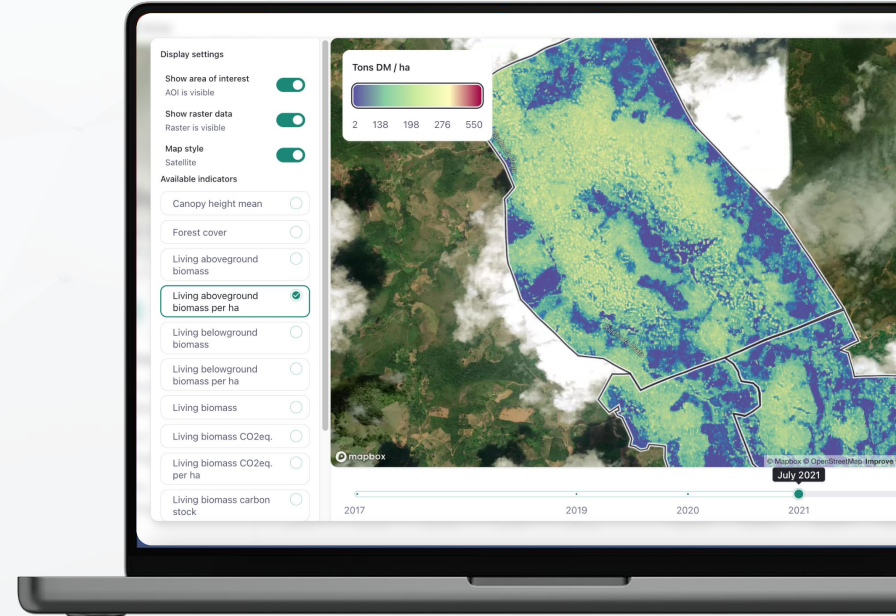
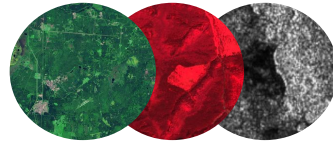# Our technology: proprietary AI applied to satellite imagery

Metadata & ground truths

Impact data

Project developers

Optical & radar satellite images
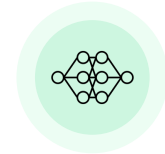
Proprietary AI models
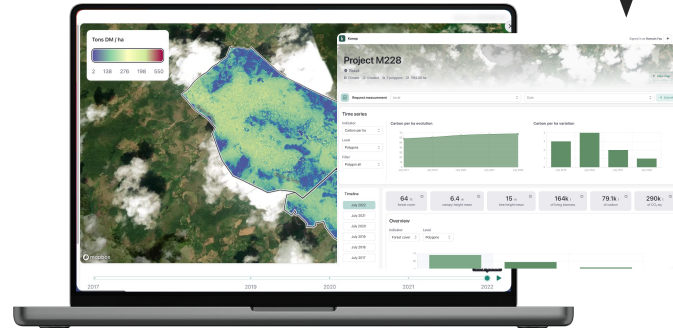
Kanop platform (Web app & API)

WOOD INNOVATIVE DISRUPTION IN FOREST INDUSTRIES   Leonhard Ventures   SWISS KRONO

You'll be surprised at how simple it is to start measuring

kanop

Our first product: Standard level measurement

Standard level

Indicators	Indicators are produced at a spatial resolution of 10 metres (25 metres before 2017): ● Forest cover ● Canopy height ● Tree height ● Aboveground biomass ● Belowground biomass ● Carbon & CO2eq.
Availability	From 2007
Images source	Sentinel 1, Sentinel 2, PALSAR, PALSAR-2, Landsat 7, Landsat 8, NiSAR (2024), Biomass (2024)

kanop

A highly qualified **multi-disciplinary** team

Romain Fau
Co-founder & CEO

BlaBlaCar   PassFort
Webhelp   CLEO

Louis de Vitry
Co-founder & CTO

THERAPANACEA
Reinventing cancer care through AI   SHIPPEO

Antoine Labatie, PhD
Lead Computer Vision Engineer

GRAPHCORE   plantix
grow smart

Colette Gelas, PhD
SAR Engineer

Capgemini   CESBIO

Victor Allory, PhD
Ecosystems & Carbon Engineer

INRAE

Stéphanie Bergamo
Lead Backend Engineer

leboncoin   algolia

Carla Geara
PhD student. Image Processing Engineer

cea   TELECOM
Paris

Coby Strell
Business Development Associate

Lucas Pinot
Computer Vision Scientist Intern

Myrtille Laurent
Data Analyst Intern

Elliot Negrel-Jerzy
Frontend Engineer Intern

WOOD INNOVATIVE DISRUPTION IN FOREST INDUSTRIES   **Leonhard Ventures**   SWISS KRONO

kanop

We are developing a robust support network, with a special focus on scientific expertise

Advisory board

Jocelyn Chanussot, PhD
Professor, Grenoble Institute of Technology, AXA Chair in Remote Sensing, Chinese Academy of Sciences, Beijing

Mike Bekin
Non Executive Director, FSC UK
Managing Director, Ecochoice
Advisor, Open Forest Protocol & OpenForests

Incubators and other key partners

esa business incubation centre Nord France

Google Startups for Sustainable Development

cnes CENTRE NATIONAL D'ÉTUDES SPATIALES

21st CentraleSupélec

eit Climate-KIC

UNITED NATIONS DECADE ON ECOSYSTEM RESTORATION 2021-2030

50 PARTNERS IMPACT Entrepreneurs Engagés

AgroParisTech

Associated research institutions

ONERA THE FRENCH AEROSPACE LAB

TELECOM Paris

IP PARIS

GRENOBLE INP

ECOCHOICE Specialist Timber Solutions

FSC

WOOD INNOVATIVE DISRUPTION IN FOREST INDUSTRIES · Leonhard Ventures · SWISS KRONO