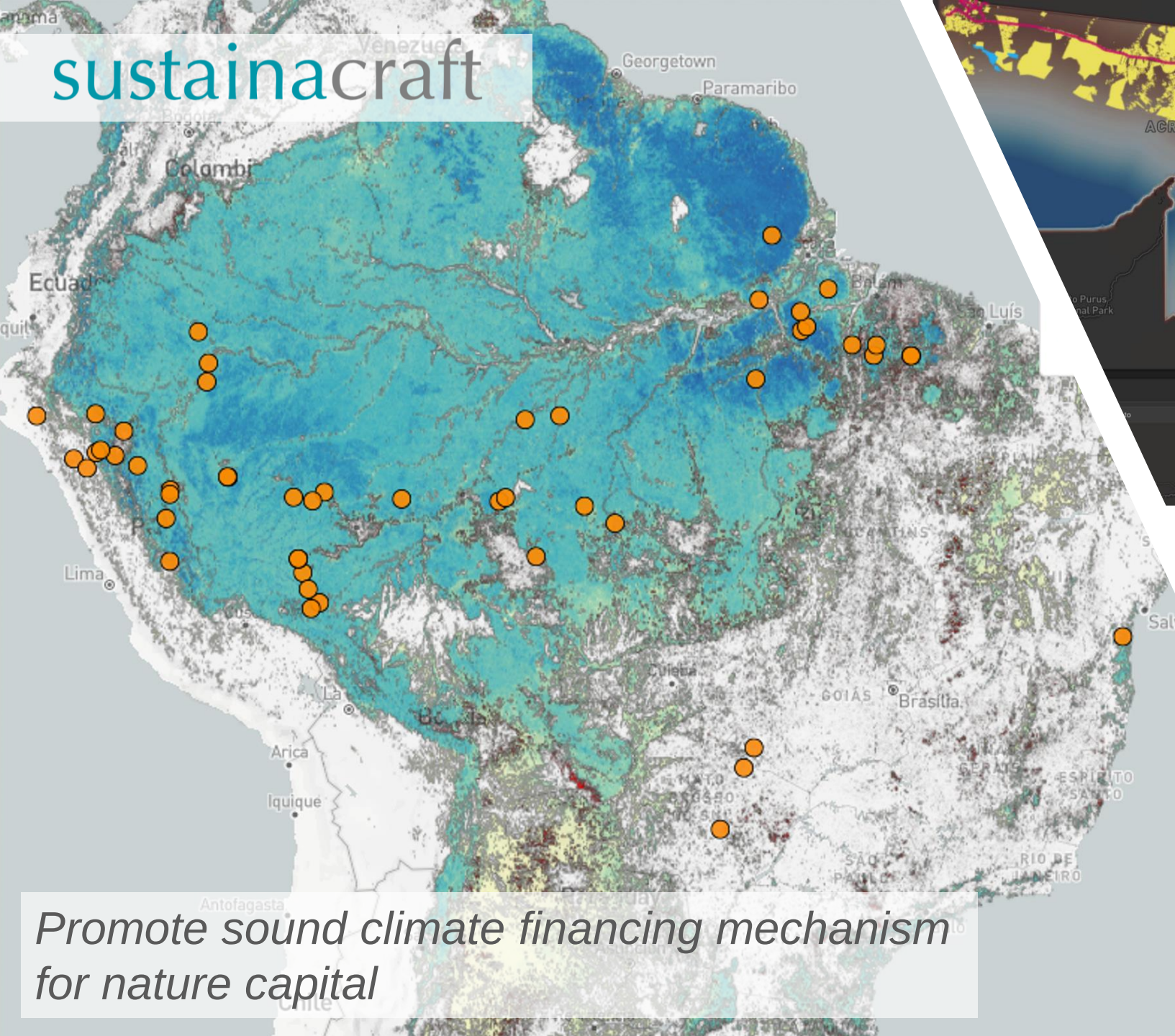
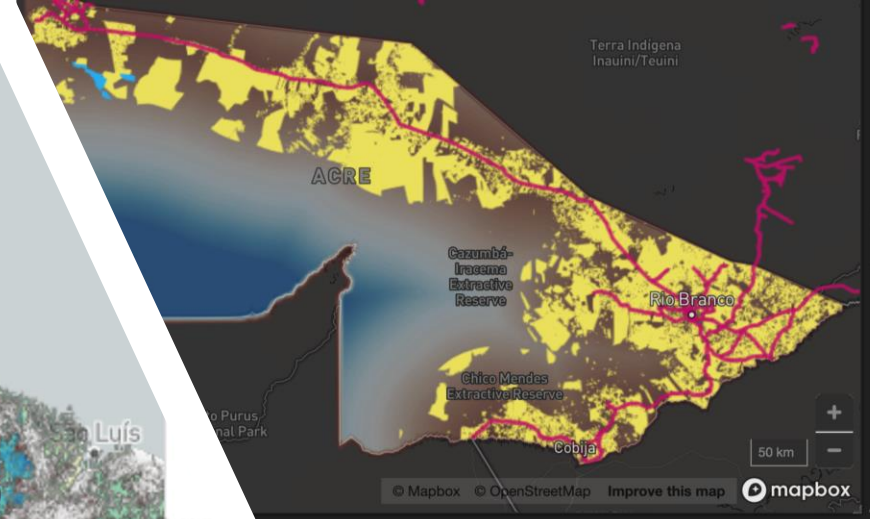
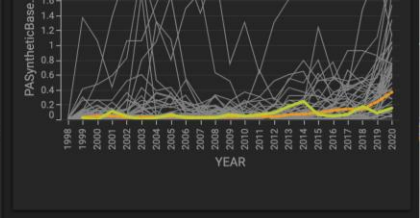
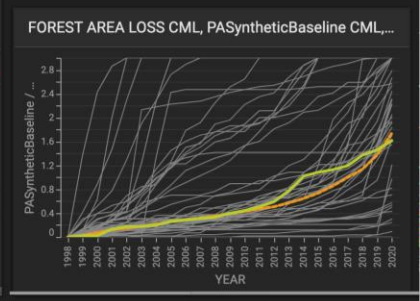
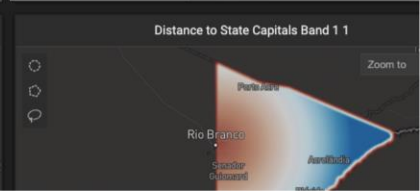
sustainacraft

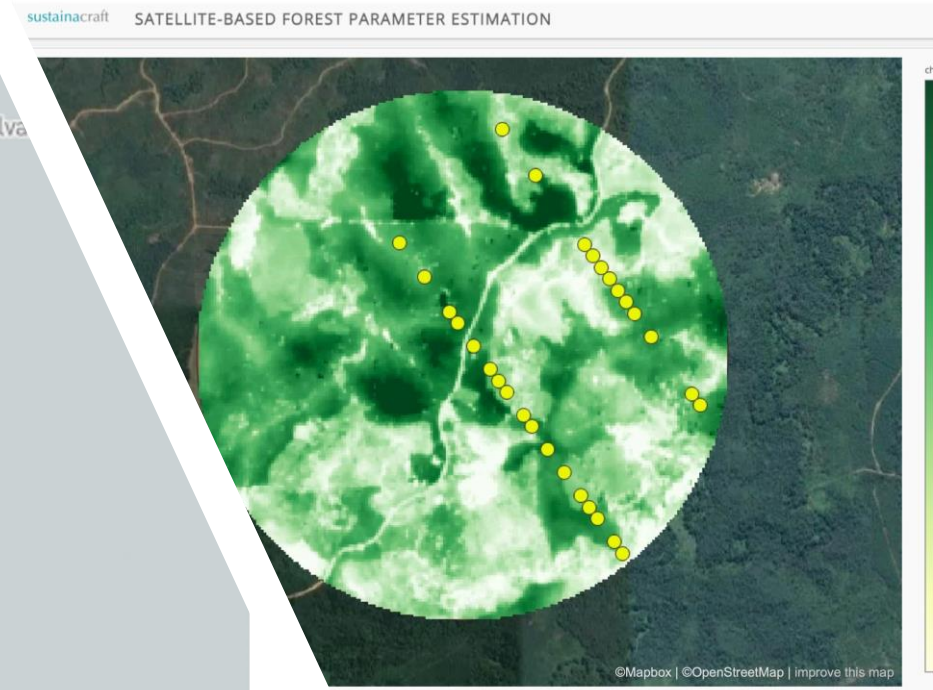












Promote sound climate financing mechanism for nature capital

カーボン市場の透明性を高める

Buyer / Investor

sustainacraft

Project Developer

We provide a platform for two-way communication.

We offer a reliable platform for transparent climate financing focused on nature-based voluntary carbon projects, with the aim of streamlining the process for project developers and credit buyers/investors alike.

Buyer / Investor

We provide DD (due diligence) support to companies and investors by assessing the value and risk of interested voluntary carbon credit projects.

Project Developer

We provide project developers with support in project structuring (assistance in preparing Feasibility Studies and PDDs, etc.) and early financing.

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透明性の高い自然資本のプロジェクト評価技術を用いて、買い手とプロジェクト開発者を繋げ、自然保全プロジェクトへの資金循環を後押しする

REDD　ARR
IFM　ALM

Buyers

Quality Evaluation (subscription plus consulting)

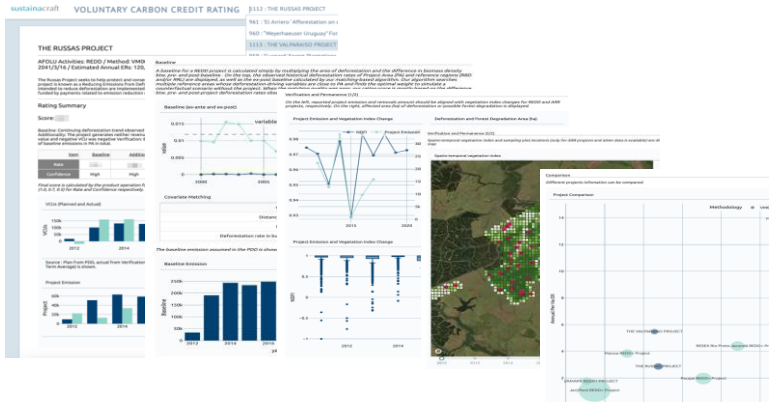
Investors

Forward trading (offtake contract)

sustainacraft

Our company

Carbon Credit Reporting Platform



Origination and Early Financing Platform

Reporting ＋

- Cash flow analysis
- Contract support
- Delivery risk assessment

- Analysis support
  - Causal-Inference
  - Matching
  - Benchmarking

Project Developer

- Credit Issuance
- Verification
- Validation
- Pipeline Listing
- Project Development

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グリーンウォッシングからグリーンハッシングへ

ジャンクカーボンクレジットに対する批判

Carbon offsets used by major airlines based on flawed system, warn experts

Guardian investigation finds carbon credits generated by forest protection schemes

What is carbon off

Forests around the wor
Rica is carefully protected
Photograph: REUTERS/Ala

REDD

Start here About R

Australia's
credits are

Posted on 28 September

NIKKEI Asia

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CLIMATE CHANGE

Indonesian carbon credit project appears to betray its purpose

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
- Carbon offsets flawed but we are in a climate emergency

The Alto Mayo protection forest in Moyobamba, Peru, was supposed to be a flagship offsetting project but has faced human rights issues. Composite: Guardian Design/AFP/Getty Images

（達成目標について）沈黙する企業

South Pole calls out 'green hushing' on SBTs

Firms going public with decarbonisation targets is key to 'inspiring' competitors

20 October 2022 / Business, Global, Net zero, Sustainability

More companies are setting science-based net zero targets (SBTs), but 25% will not be publicising them, according to a South Pole survey. Combined with uncertainty over how companies can actually hit their ambitious decarbonisation goals, the silence on target setting represents a worrying trend.

south pole

BUSINESS / CORPORATE

Companies keep climate goals secret as 'green hushing' takes off

Despite businesses setting more ambitious environmental targets, the phenomenon known as "green hushing" continues to grow. | BLOOMBERG

Source: Nikkei Asia, Guardian, REDD+ Monitor, South Pole, Bloomberg

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Carbon Credit Reporting Platform

By combining remote sensing and causal inference technology, our service aims to enhance the transparency of carbon initiatives through an easy-to-understand visualization of the effects of both the reduction and absorption of greenhouse gas emissions in projects pertaining to afforestation or conservation of forests and peatlands.

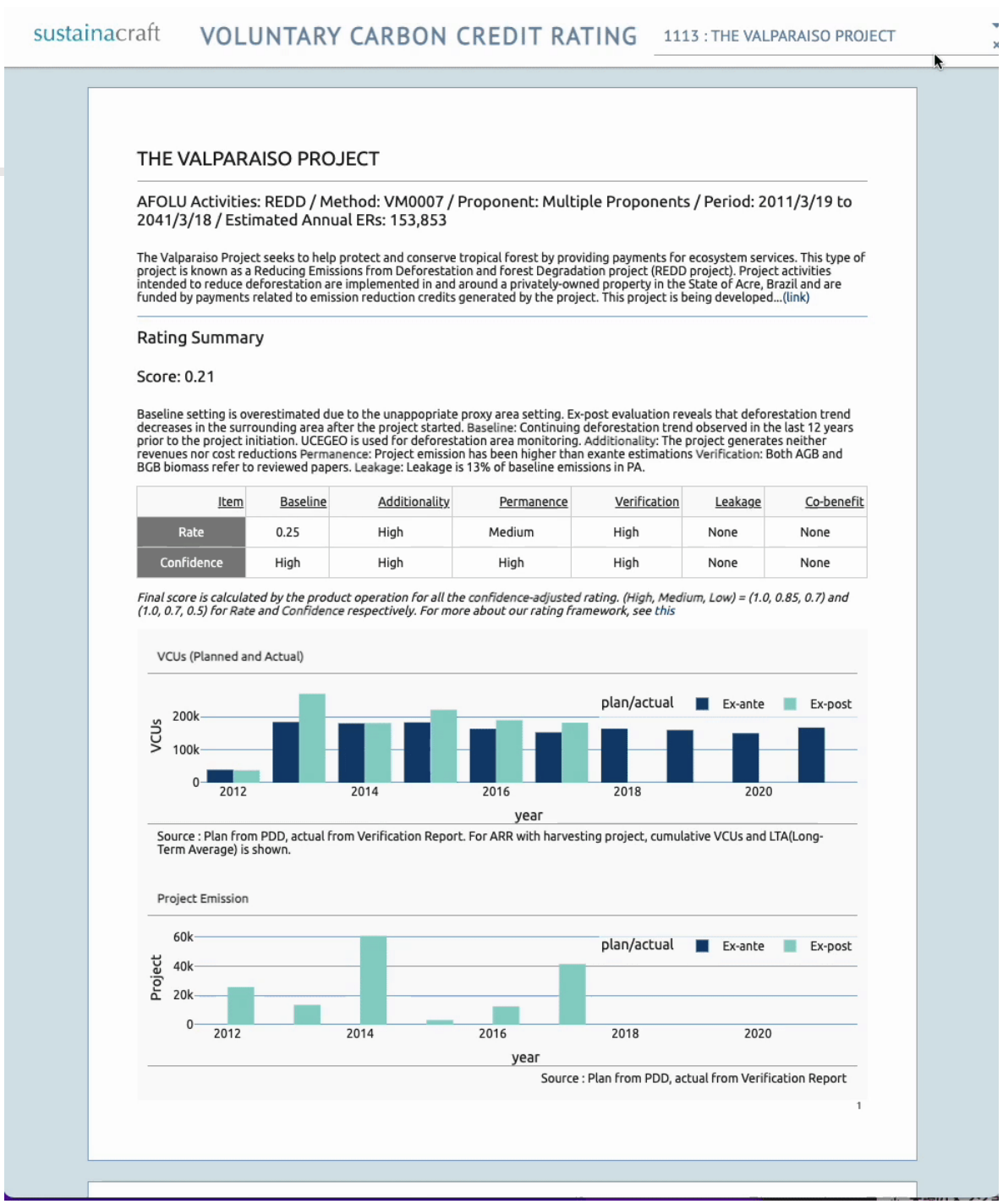
Case Studies

Buyers

Project selection for carbon offsetting usually needs to be carried out in a very short timeframe. This service has enabled the selection of carbon projects from a short list, with efficient due diligence in a short period of time.

Project Developers

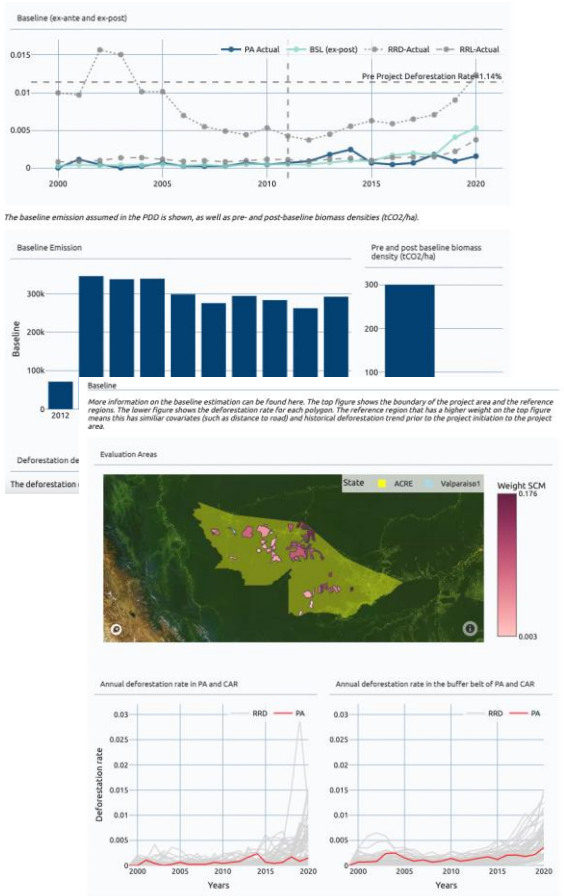
We were able to explain to our clients in a way that was easy to understand, what is often technical and difficult to communicate, such as carbon stocks per hectare and the emission reductions from reduced forest fires.



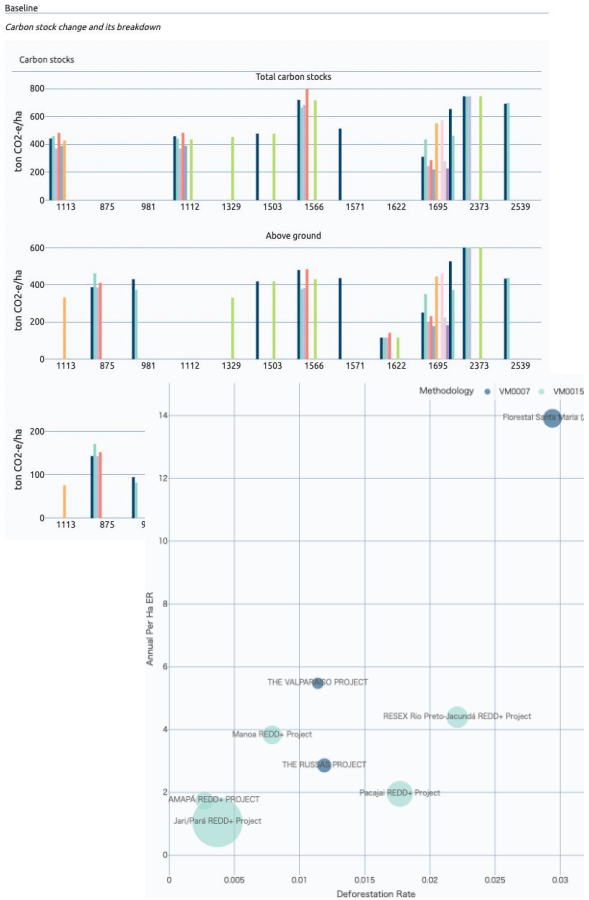
Carbon Credit Reporting Platform (cont.)

Our analysis covers **ARR**, **REDD** and **WRC** projects

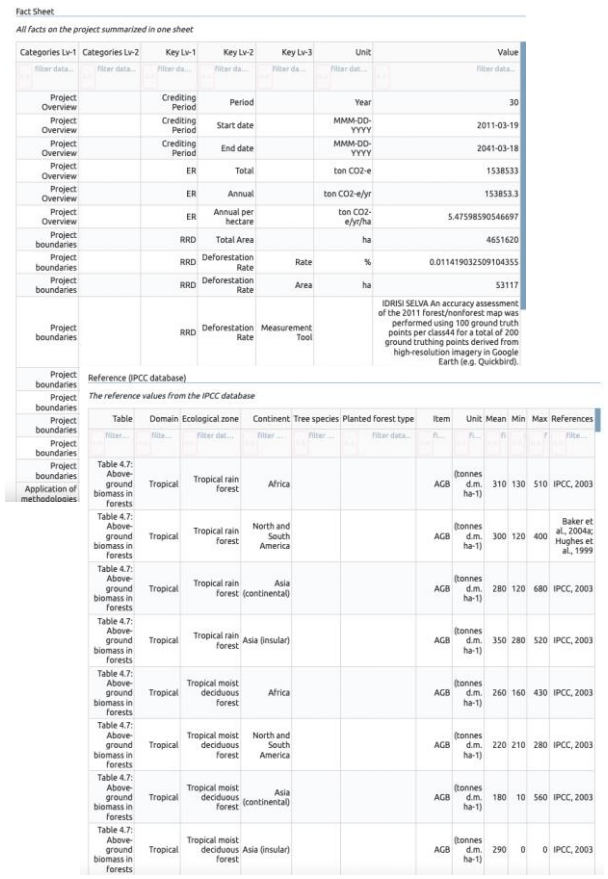
REDD: baseline



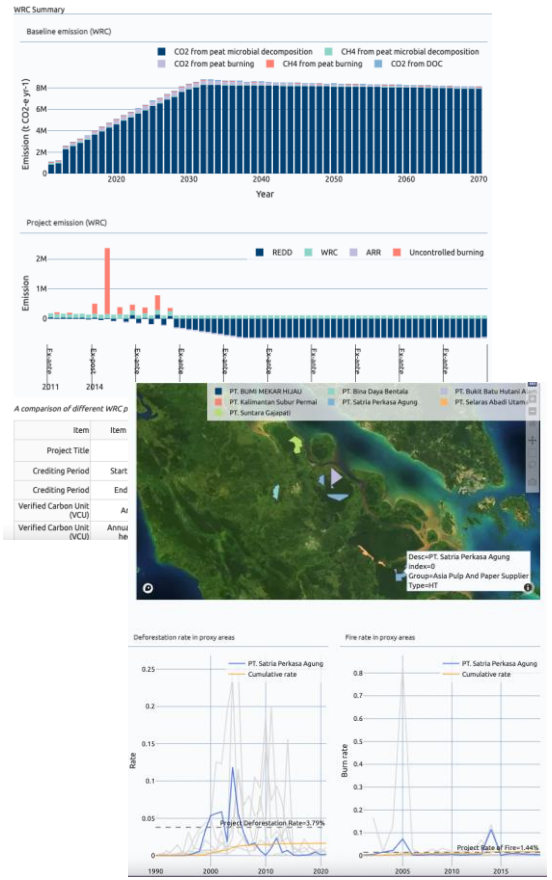
REDD: Carbon Stock



Fact Sheet + IPCC DB



WRC report



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Our Technology

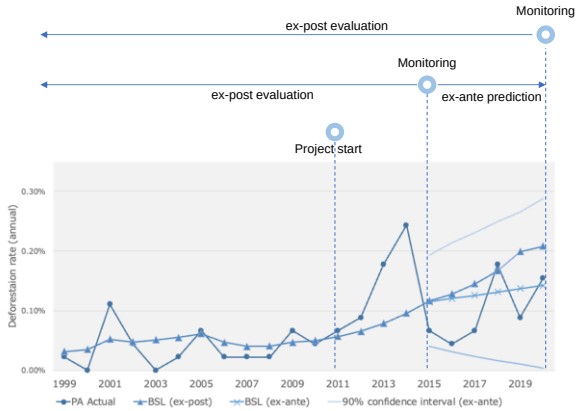
Proved causal inference-based baseline quantification

Baselines (in other words, what would have happened if the project was not implemented) are crucial for determining the quality of carbon credits. However, they can be misreported, making a project appear more effective at reducing emissions than it actually is, leading to greenwashing criticism. We avoid that by using multiple approaches to validate our baselines and ensure their accuracy.

NeurIPS 2022 (link) Best Paper
(NeurIPS 2022: Climate Change AI workshop)

Baseline

- A carbon credit is issued based on the difference between the actual result and the counterfactual baseline, assuming the absence of the project.
- In forest carbon credit, the concept of **dynamic (or ex-post) baseline** has been discussed to overcome the criticism of junk carbon credit, while an ex-ante baseline is still necessary in terms of a project finance and risk assessment.
- We have developed a **Bayesian state-space SCM (Synthetic Control Method)**, which integrates both ex-ante and ex-post baseline estimation in a time-series causal inference framework. Our scientific paper has been accepted by **NeurIPS 2022 Climate Change AI workshop** and selected as a spot-light talk.
- Our own algorithm will play an important role for potential credit buyers when they consider early financing to a nature-based carbon project and evaluate the delivery risk in the anticipation of **PCU (Projected Carbon Unit)**.

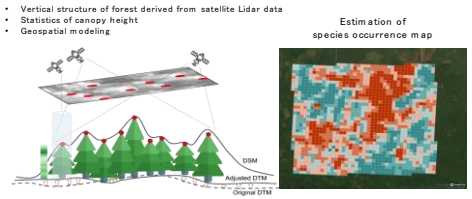


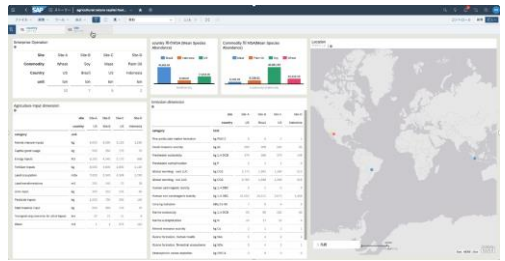
High-frequency tree growth monitoring

We have developed an integrated framework of satellite-based remote sensing and geospatial tree growth-model parameter estimation. Our technologies (accuracy and practicality) were proven in various forests across the globe.

Co-benefit

- sustainacraft actively contributes to the development of natural capital and biodiversity assessment methods. These include proprietary satellite imagery analysis and causal inference-based reference condition estimation technology.
- We have partnered with **NIES (National Institute for Environmental Studies)** and **Hitotsubashi University**, which are one of the leading institutions focusing on biodiversity, forest, and social studies in Japan (see this partnership here).
- We are also selected as TNFD Data Catalyst Initiative (see the participants list here). **TNFD** (Taskforce on Nature-Related Financial Disclosures) is an international initiative to provide a framework for how organizations can address environmental risks and opportunities with the ultimate goal of channeling capital flows into positive action.
- Our technology developed in this context could also be used for **ALM** (Agricultural Land Management) project development for companies in the agricultural commodity-related sector.





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(1) Integrated ex-ante and ex-post baseline estimation framewo

素材
（前頁）

Baseline

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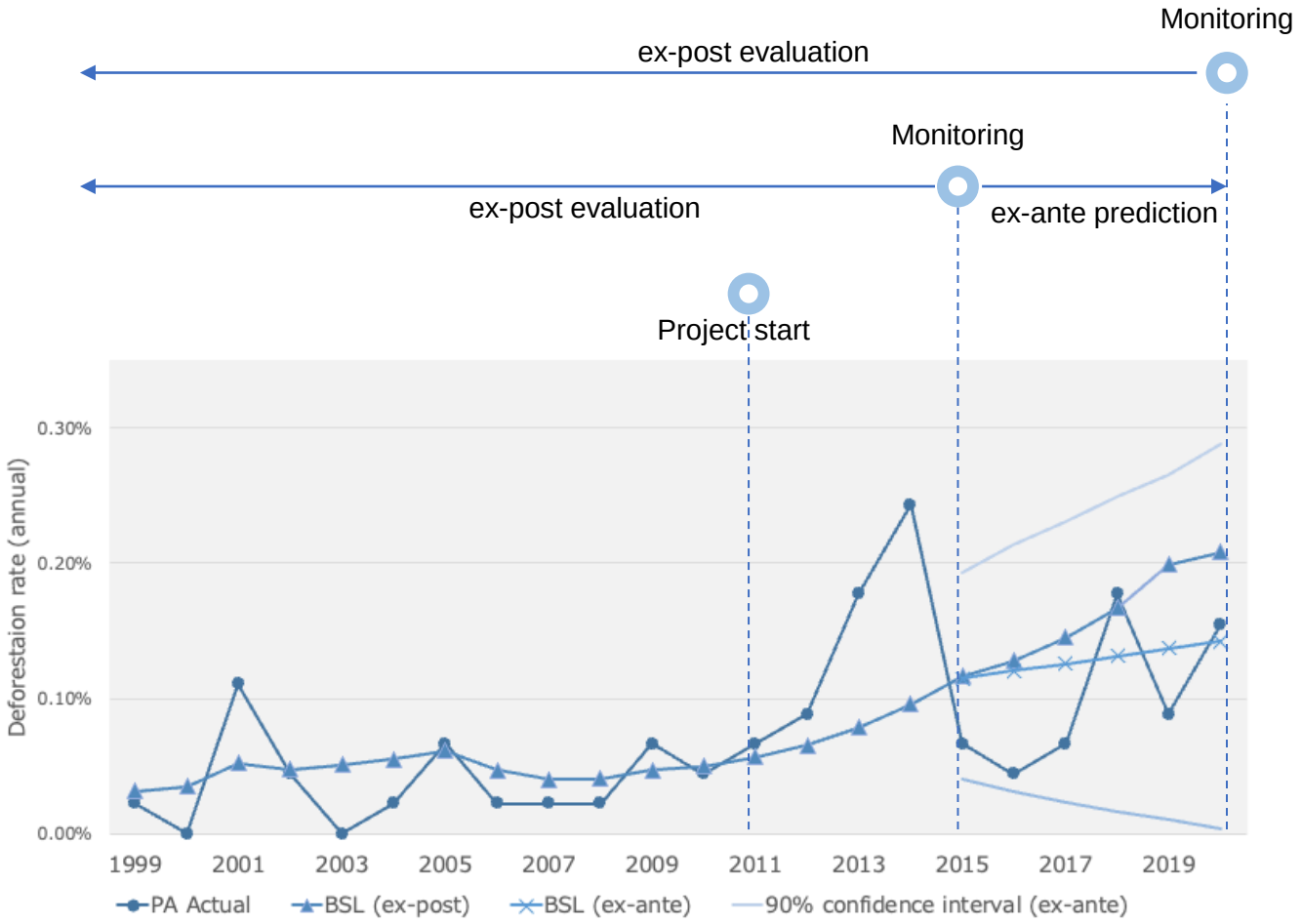

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(3) Biodiversity monitoring

素材
（前頁）

Co-benefit

- sustainacraft actively contributes to the development of natural capital and biodiversity assessment methods. These include proprietary satellite imagery analysis and causal inference-based reference condition estimation technology.
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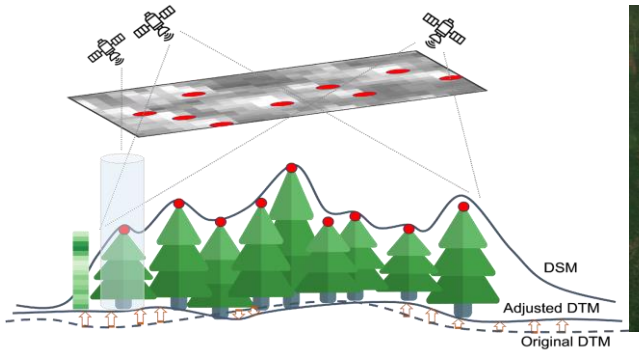
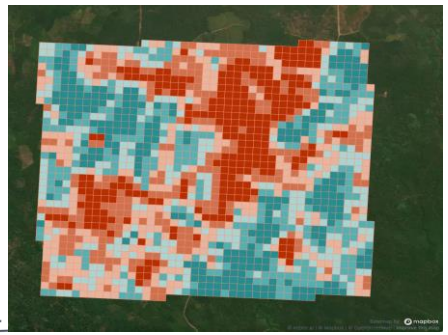
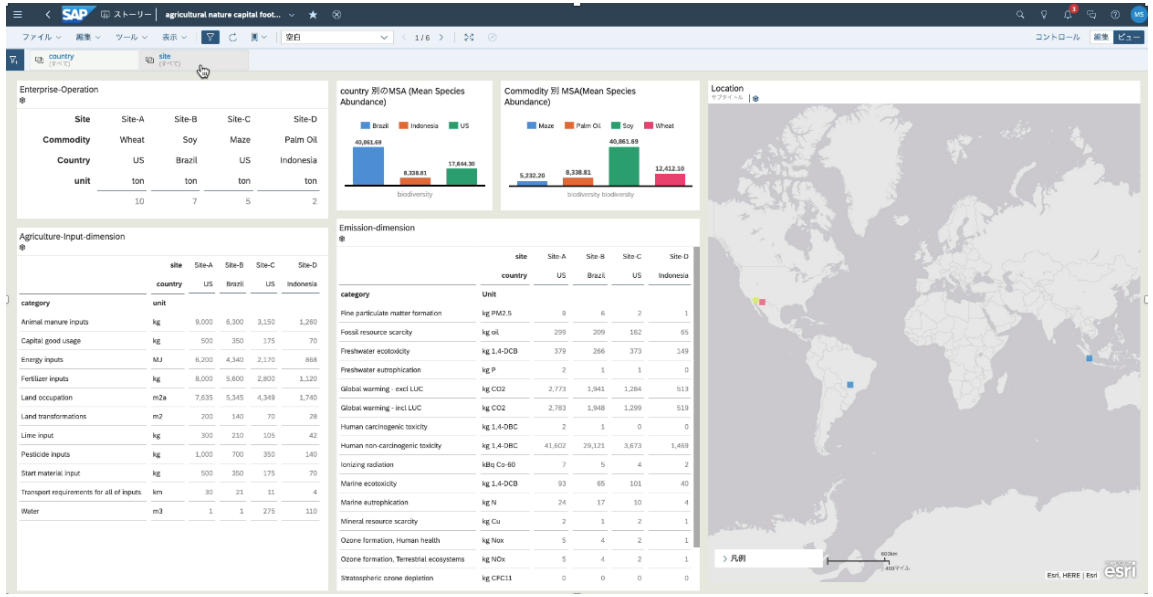
- Our technology developed in this context could also be used for **ALM** (Agricultural Land Management) project development for companies in the agricultural commodity-related sector.

- Vertical structure of forest derived from satellite Lidar data
- Statistics of canopy height
- Geospatial modeling



Estimation of
species occurrence map





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カーボン市場の透明性向上に向けて、買い手と売り手、双方向のコミュニケーションPFを3月にβ版ローンチ予定

sustainacraft

- Data extraction, analysis and visualization
- Operate the platform

Buyers

Investors

Ask questions, view discussions

Add comment, data, and rebuttal

Project Developer

Export opinion

Price, market transaction

Researcher / Experts

Data Provider

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一緒に日本企業の資金を海外の自然保全活動に循環させていきませんか

Schroders and Conservation International to accelerate global investment in natural climate solutions

The collaboration has established Akaria Natural Capital as one of the first dedicated natural capital impact investment managers in Singapore.

25/07/2022

NATIXIS INVESTMENT MANAGERS

The HUB　Our Approach　Our Clients　Our Capabilities　About　Search

Kering and L'Occitane Group Join Forces to Finance Nature Protection at Scale

Source:
https://www.schroders.com/en/global/media-relations/media-centre/schroders-and-conservation-international-to-accelerate-global-investment-in-natural-climate-solutions/
https://www.im.natixis.com/en-institutional/news/kering-and-l-occitane-group-join-forces-to-finance-nature-protection-at-scale

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