





Please place questions in the Q&A

We will make time at the end after the recording has been paused.

Blockchain FAQ is available at fsc.org/blockchain



AT A GLANCE

Today we lead the world's most rigorous and trusted forest certification system, trusted by NGOs, consumers, and businesses alike.

29

years of operation

150+

million certified hectares of forest

1,200+

individuals and organizations make up our governing body across 92 countries 85

locally-adapted forest stewardship standards

46%

of consumers globally recognize the FSC logo

1,600+

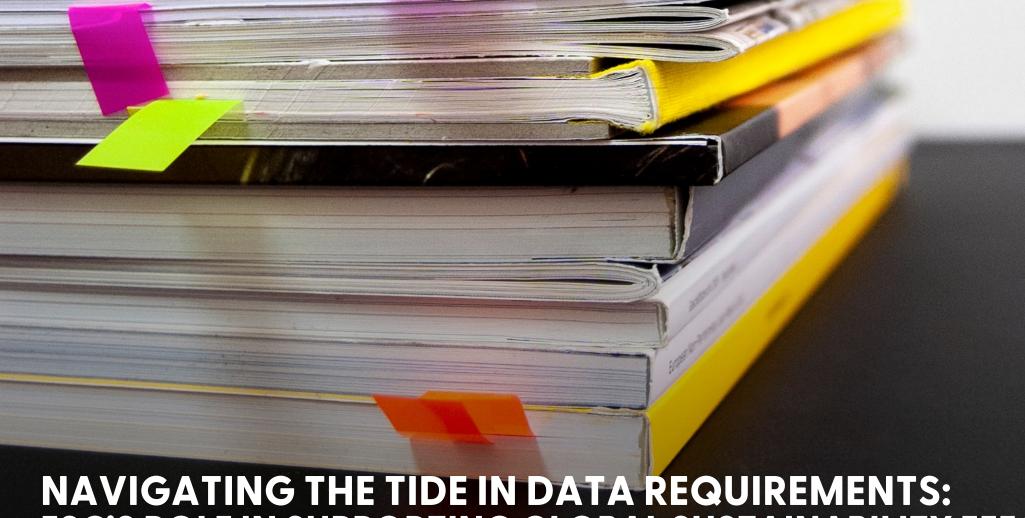
companies licenced to promote FSC-labelled products

50K+

certifications that verify sustainable sourcing

#1

most recognized, trusted, and rigorous forest certification system



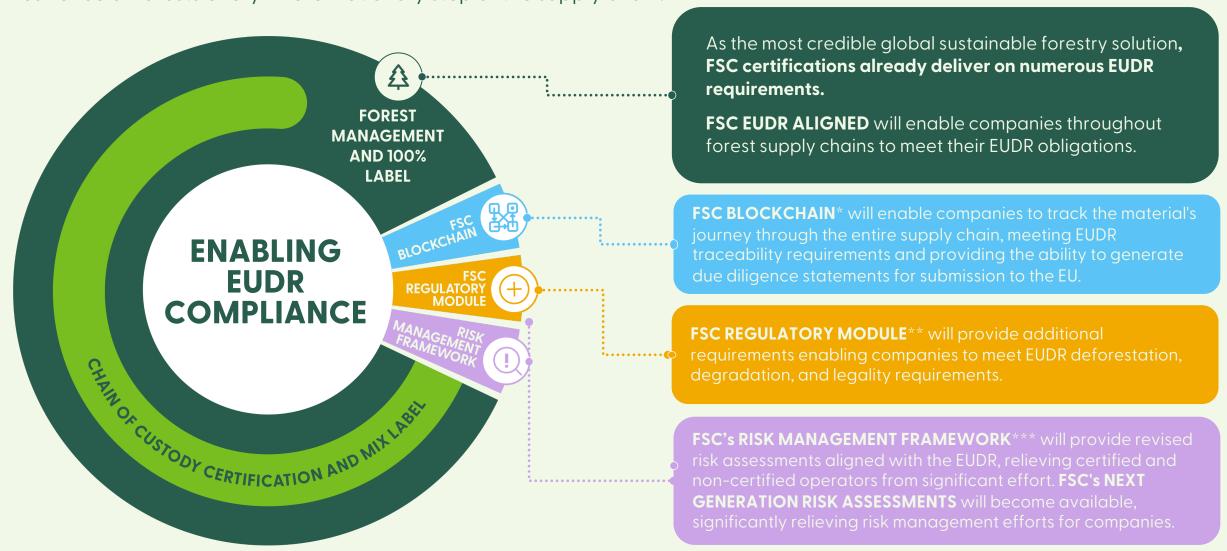
FSC'S ROLE IN SUPPORTING GLOBAL SUSTAINABILITY EFFORTS

We are committed to supporting our stakeholders in the shifting compliance landscape and the increase requirement for data. Our approach involves offering innovative tools and resources, ensuring that companies not only comply but also find the workload reasonable and doable.

Advancing certification compliance



We're bringing together people and organizations to create new solutions for protecting the health and resilience of forests everywhere – at every step of the supply chain.



From the forest to the shelf...





Forest Management (FM) certification

Chain of Custody (CoC) certification

CoC alone is insufficient to trace products through the supply chain for EUDR.

Promotional Licence





Traceability across transfers of ownership

What will FSC Blockchain enable us to do?







Time of Harvest

Stock



- **8°33'70", 47°22'74"**
- 1/1/2023 10/1/2023



- **?** 7°45'11", 6°22'28"
- (1) 10/7/2022 11/7/2022



- **!** 14°33'70", 47°21'74"
 - 11/2/2023 11/6/2023



- **18°23'75**", 61°23'47"
- **1** 20/5/2023 25/5/2023

Production



- **?** 7°45'11", 6°22'28"
- **(**) 10/7/2022 11/7/2022



- **14°33'70", 47°21'74**"
- 11/2/2023 11/6/2023



- **!** 18°23'75", 61°23'47"
- **(**) 20/5/2023 25/5/2023

Sale

- 8°33'70", 47°22'74"
- 1/1/2023 10/1/2023
- **?** 7°45′11″, 6°22′28″
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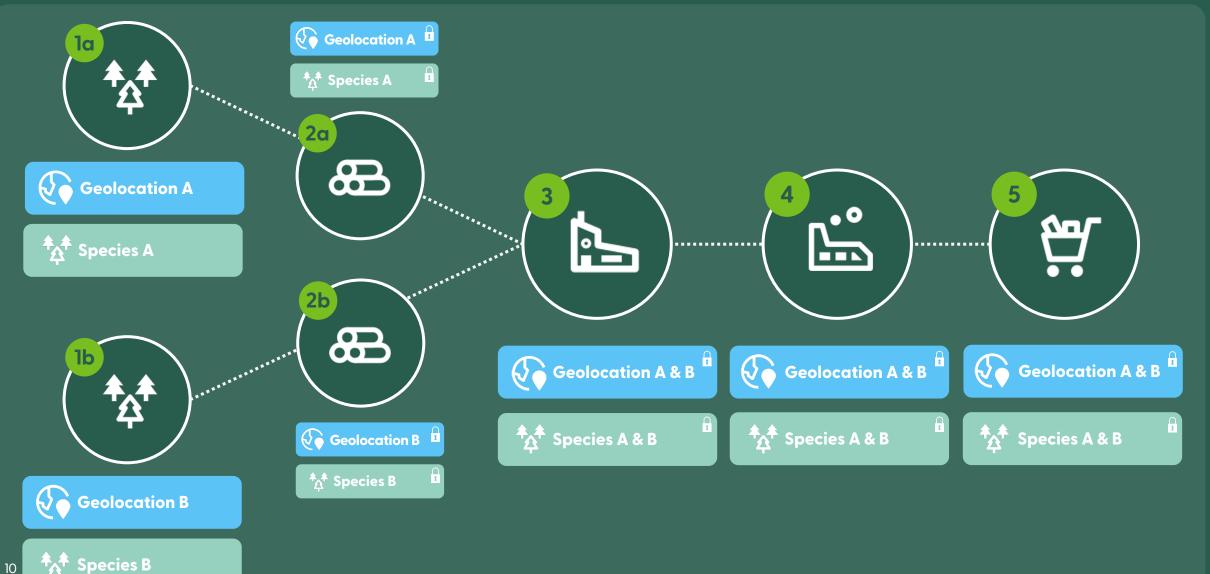
Traceability allows us to transmit product data along the supply chain





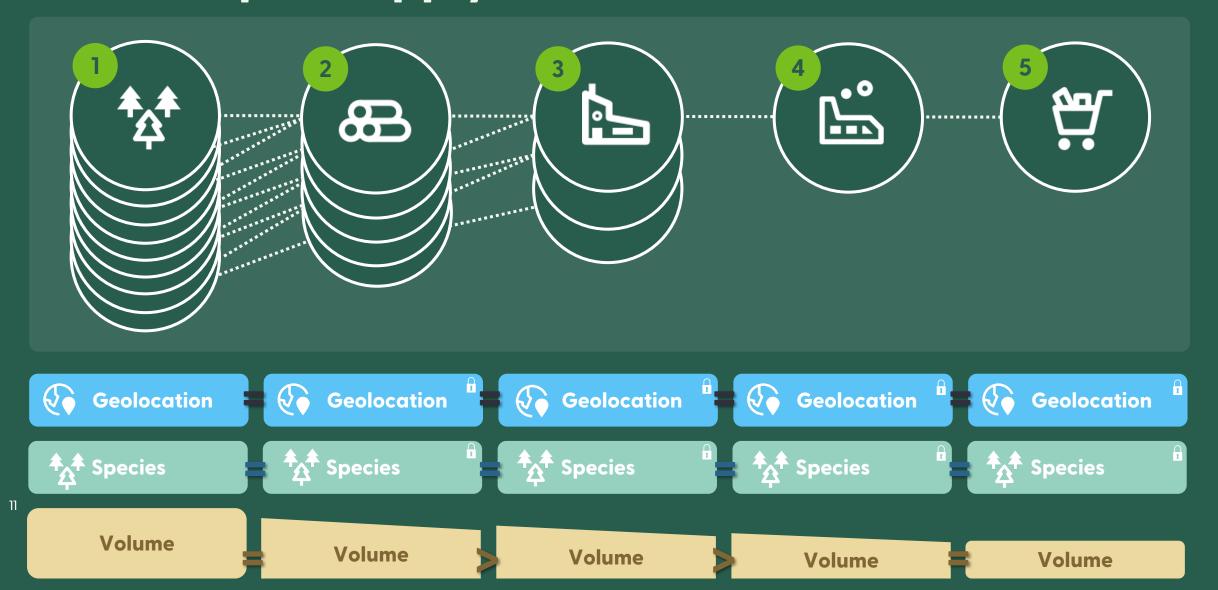
We can combine data in composite products





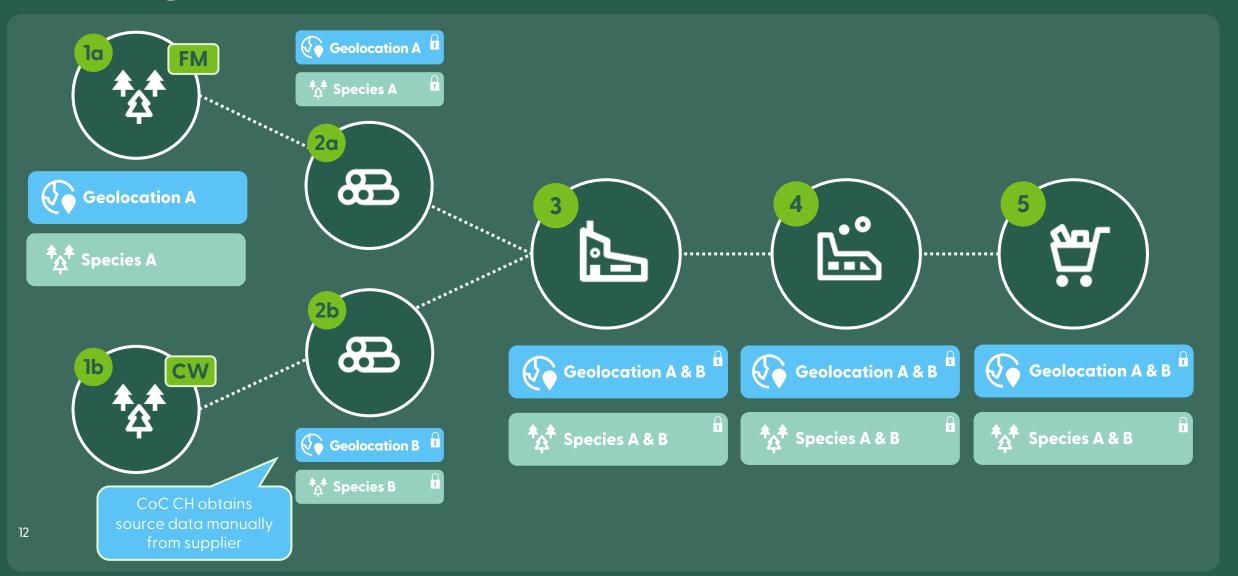
Technology scales to even the most complex supply chains





For FSC Controlled Wood we capture the source data later in the chain

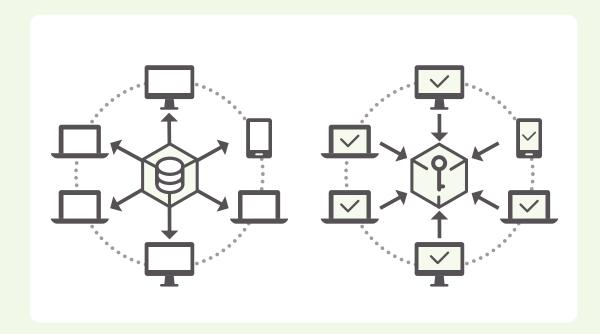




What is blockchain technology?

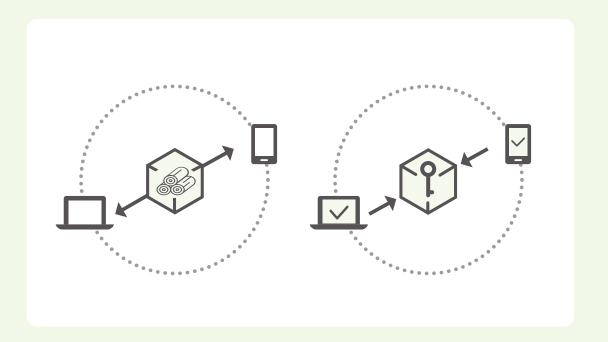


At the heart of blockchain technology is an immutable ledger that ensures the integrity of transaction data is ensured against malicious edits.



Public blockchain

Open and decentralized. All nodes verified by all other nodes and therefore highly energy consuming. Think bitcoin and similar.



Consortium blockchain

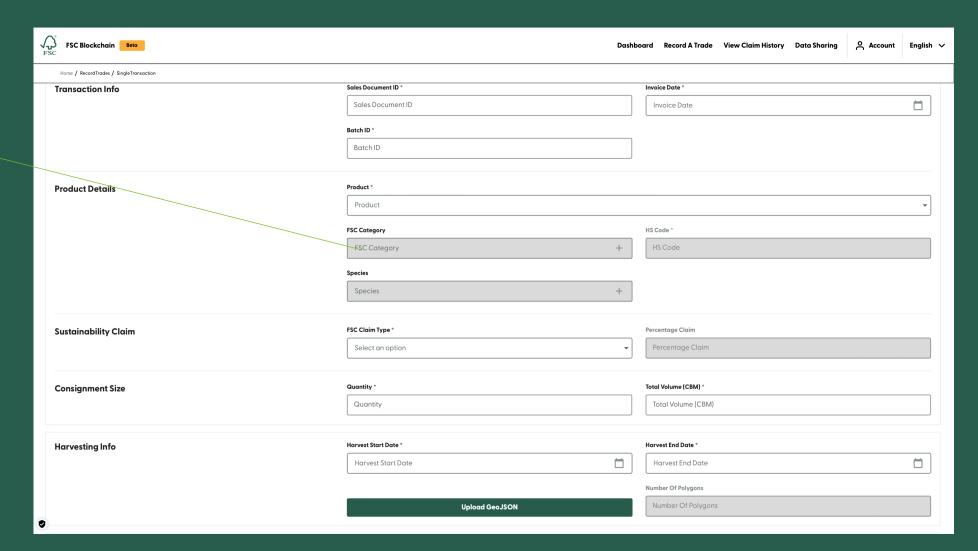
A semi-private, permissioned network where access is controlled, offering enhanced security and efficiency tailored to the industry.





PRODUCT TYPE & CLASSIFICATION

Record product categories as per FSC standards, with optional international HS codes for global trade and customs compliance.

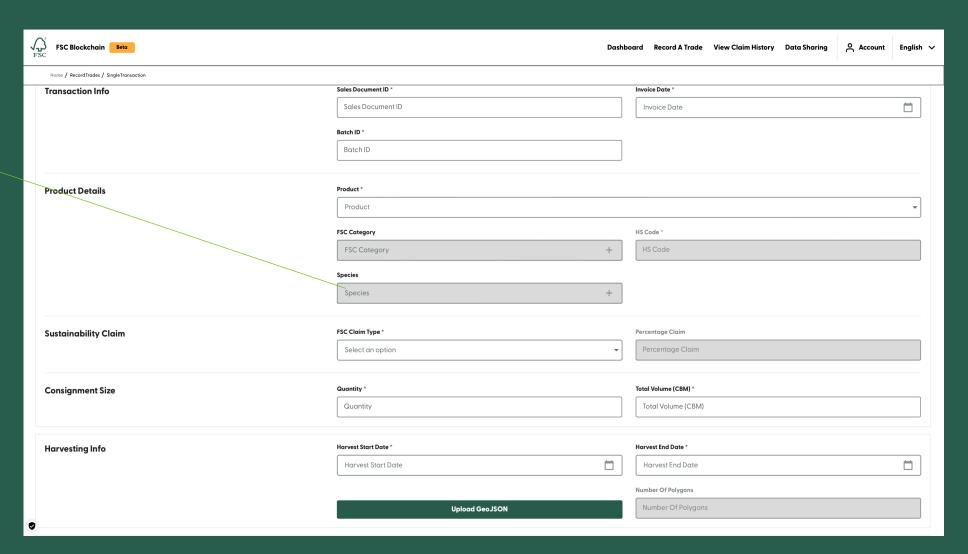






SPECIES VERIFICATION

Confirm the exact species used in your product, ensuring authenticity and compliance.

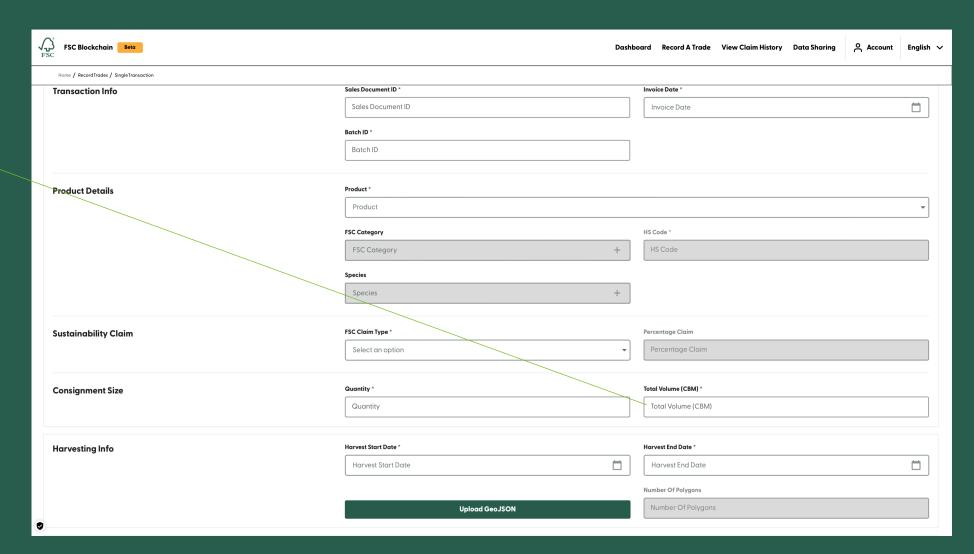






VOLUME / MASS / WEIGHT METRICS

Flexible recording by volume or weight, with unit customization for market-specific requirements, like EUDR.

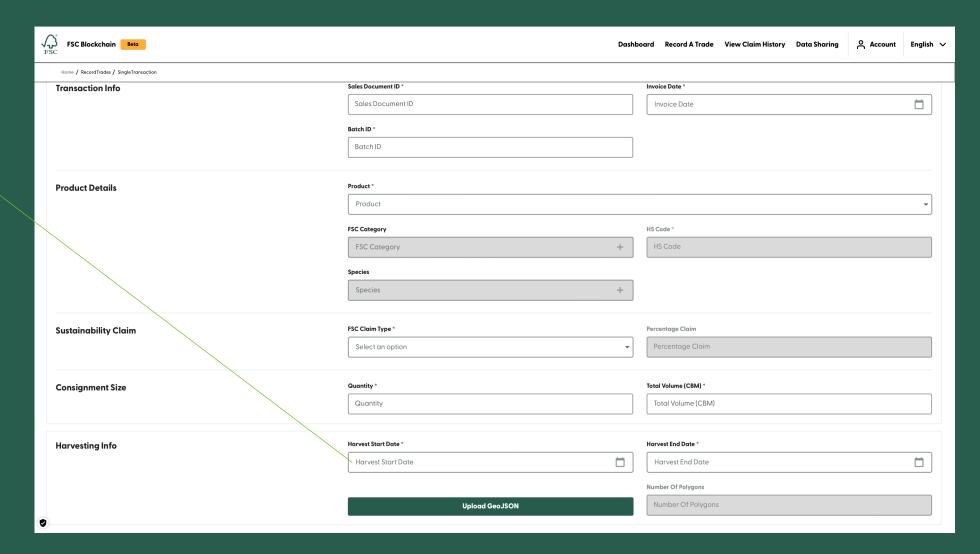






GEOLOCATION TRANSPARENCY AND HARVEST TIMING

Provide geolocation data for the source harvesting block and precise harvest start and end dates, an optional but significant detail for regulatory adherence.

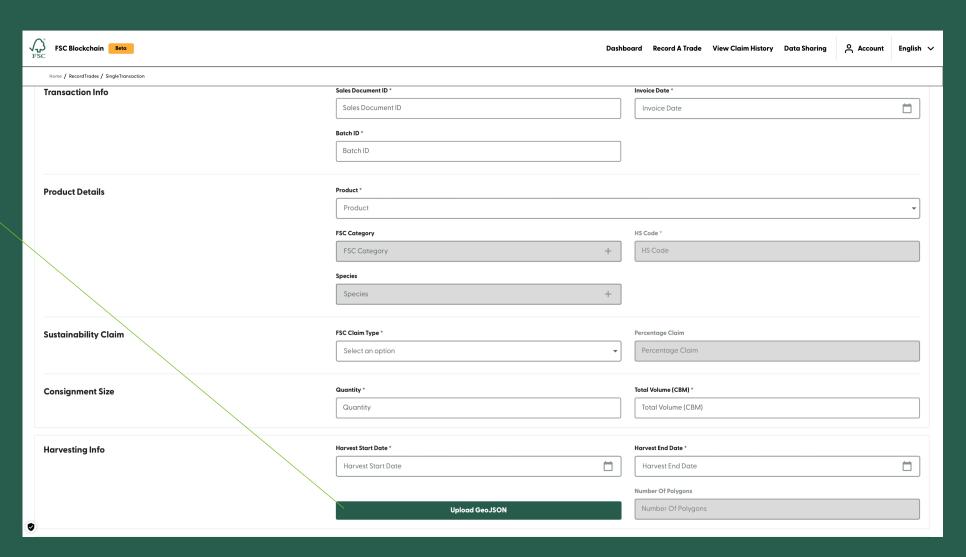






COUNTRY OF PRODUCTION

Track the production country at each supply chain point, vital for compliance with regulations.

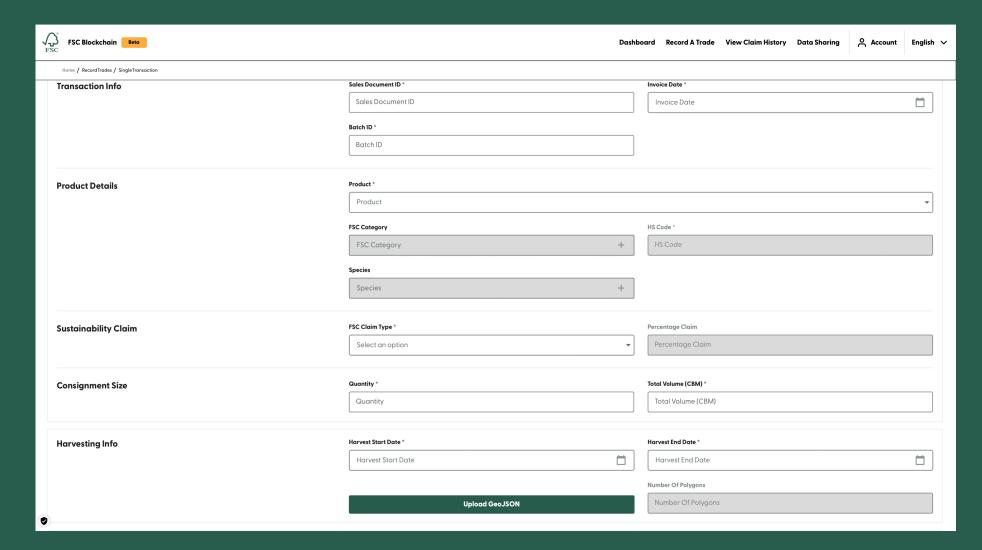






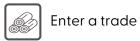
UPLOAD
ATTACHMENTS AND
DATA

Add attachments and additional data fields to an individual trade.



How does a trade get verified on FSC Blockchain?





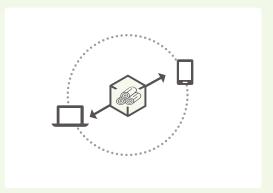


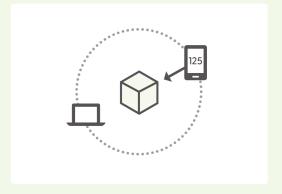
Trade appears on both partners records



The counterparty enters the volume to confirm









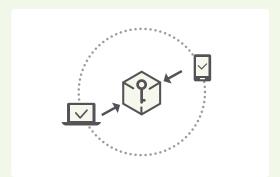
If volumes match, the transaction is matched



The block is added to the blockchain



The volume now appears with both partners







When is a trade matched?

Trading parties must agree on the following:

- FSC licence codes
- Invoice date
- Product category
- Species composition
- Quantity (either volume or weight, within a small margin of error)

If either of these does not match, the transaction will not be written to the blockchain as a matched claim but remain "unmatched"

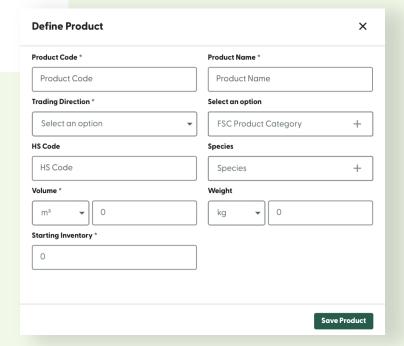
Setting up FSC Blockchain





Configure products

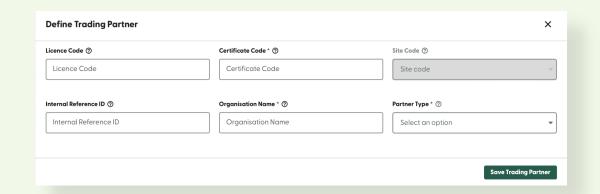
Set up your products and their variations.





Configure trading partners

Connect to your trading partners and invite them to join blockchain.





How can certificate holders upload data to FSC Blockchain?





Direct Entry

- Individual transactions recorded directly on the FSC Blockchain via the application website.
- User-friendly and accessible
- Mainly aimed at micro companies or companies occasional trade of FSC.



Bulk Uploads

- Bulk uploads of claims using spreadsheets
- Can cover multiple transactions over a specific period.
- Efficient for managing large volumes of data and periodic uploads.
- Expected to be the widest used method in the beginning.



API Integration

- Integration of FSC into own systems using an Application Programming Interface (API).
- Automates the data transfer in both directions.
- Will require IT investments from certificate holders in setup.
- APIs will be provided by FSC for the most commonly used platforms in key regions.

Blockchain: data confidentiality v transparency



Sensitive Commercial Data

A COMPANY'S SUPPLIERS AND TRANSACTION VOLUMES ARE HIGHLY SENSITIVE COMMERCIAL DATA

 Such data may also be subject to regulation where it might impinge upon stock prices

Encryption & Selective Decryption

ALL DATA ENCRYPTED AT POINT OF UPLOAD

- Data owner controls what data can be shared and with whom
- Customers can request access
- Rules system (like email sorting rules) allows for flexibility & precision
- Data sharing can be revoked at any time
- Even FSC will not have access to transaction data



Blockchain: data sharing flexibility











CHOOSE WHAT TO SHARE

- Supplier Identity
- Origin Data
- Attached
 Documents by category
- Risk Assessments & Mitigating Actions

CHOOSE BASIS OF SHARING

- Per Transaction
- Per Customer

CHOOSE RIGHTS GRANTED

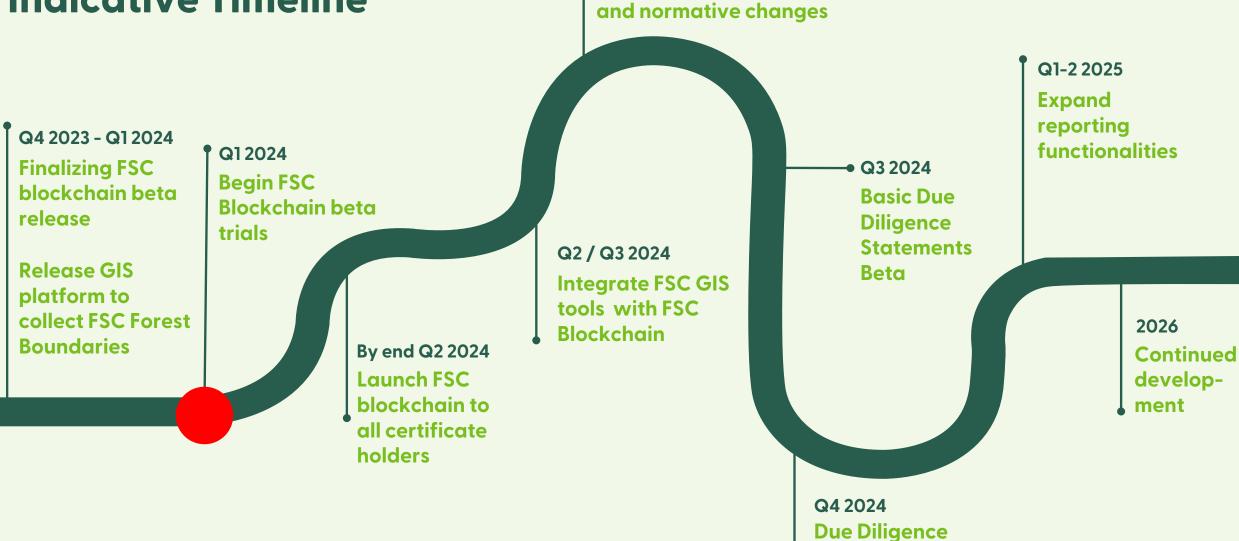
- Requester can see data, but cannot share with others
- Requester can see data, and onward share with their customers without your pre-approval

CHOOSE PERIOD COVERED

- One transaction only
- All transactions within a defined period of time
- All transactions to date
- All future transactions

FSC Blockchain Indicative Timeline





Start Q3 2024

Release of FSC regulatory module

Statements feature

released



Beta Trials – informing the future of FSC Blockchain





Invitation from companies already in the trials

Current trial participants may invite up to 3 partners each.



Sign up for priority access

Indicate your interest via our online form on fsc.org/blockchain

(Find the link in question 12 in the FAQ)







RECURRING WEBINARS

Interactive live webinars provide real-time insights and expert answers to bring you up to speed with blockchain applications and updates.

GUIDANCE AND TRAINING MATERIALS

Training programs and comprehensive guides ensure you have the knowledge and skills to navigate FSC blockchain confidently

DEDICATED HELPDESK

Our dedicated helpdesk ready to assist users with technical or operational queries they may encounter.



Benefits of using FSC Blockchain



STATUS OF CERTIFICATION

Automatic verification of certification status of suppliers & their certificate scope.



AUTOMATED COC REPORTING

FSC Blockchain will create reports on

- Volume summary
- Species list
- Product group list



ATTACHING LEGALITY DOCS

Users can attach and share critical documents, such as harvesting permits, to ensure they travel with the consignment data.



EASY DATA SHARING

FSC blockchain makes it easy to share data, e.g. harvesting location, with your downstream trading partners.



ALL DUE DILIGENCE DATA IN ONE PLACE

Everything you need to demonstrate due diligence collected together in one system.



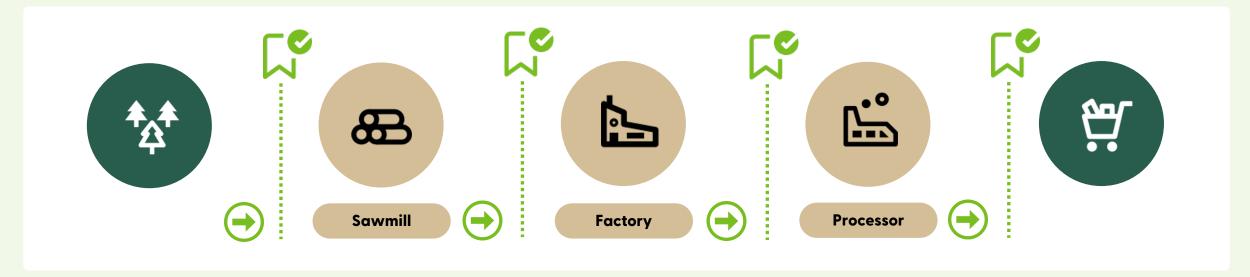




fsc.org/blockchain

Summary of what will FSC Blockchain does





- ✓ Licence Holders enter their purchases and sales of FSC-certified products
- ✓ Products are automatically checked against certificate scope and validity
- ✓ Transactions are matched against entries made by the counterparty – when a match is achieved the transaction is written to the Blockchain

- ✓ All data stored is encrypted decryption keys provided to downstream customers based on rules set by the supplier
- ✓ Data analytics and reporting available to all participants, simpler CoC auditing
- ✓ Linked to Digital Audit Reports & Risk Assessments, it will provide core data for EUDR Due Diligence reporting

The upcoming FSC Digital landscape



FSC Due Diligence Reporting System

Synthesized **Due Diligence Statements** combining forest data from all sources contributing to a product



FSC Blockchain to connect

forest data to intermediate & final products

- Tracking product from one CH to the next
- Automated onboarding and analytics for CHs
- Materials accounting on processing batches
- Managing data sharing









Species Data

Data Warehouse

System under development / roll

Existing system to be upgraded

Geolocation

Harvesting Plot data captured in FSC Blockchain

GIS Platform will manage forest boundary data, including, optionally, cadastral data on legal land parcels

Digital Audit Reports

Including new CW DDS
Digital Audit Reports will
provide consistent forest
data across FSC certified
forests & Controlled Wood
source forests

Risk Assessment Library

Library with spatial visualization of new risk assessments managed as a data product

Unified Risk Assessment Framework so that CHs can understand and visualize the deforestation risks present in their supply chains



Thank you



Forest Stewardship Council® FSC® International











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www.fsc.org