

CERTICOS

WHITE PAPER

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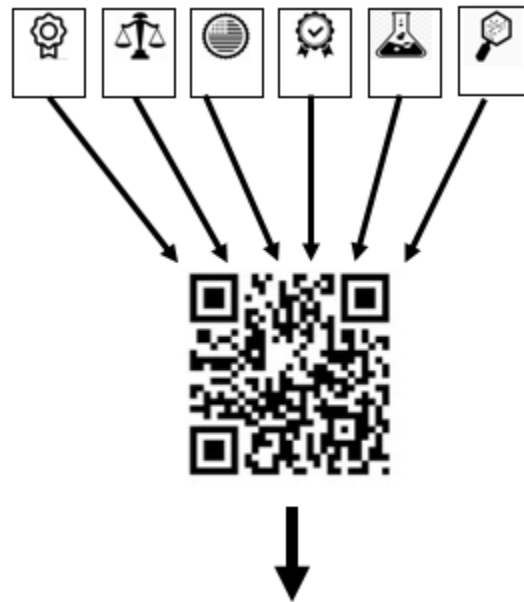
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Summary

Certicos (ICO: CERT) is a certification and authentication repository that helps prevent counterfeits, encourages conformance to customer requirements, and provides authentication of contracts, durable goods, components, and services. *Certicos* is the first integrated supply chain document sharing system writeable to the blockchain by suppliers (Creators); and readable by customers (Approvers). Additionally, *Certicos* allows third party Inspectors (Authenticators) to disposition documents for approval to industry standards. *Certicos* allows customers to make contracts, receipts, or approval documents as well; allowing easy access to review documents through encryption using an Application Programming Interface (API) to electronically certify documents thereby eliminating blue ink.



<https://certicos.io/000634rtjkla2nhe9i8u>



1.Introduction

1.1 Current State of Certification Documents

Presently, when a supplier is required to produce documentation that certifies their product, they either attempt to locate a sample on the Internet and re-create in a word processing program, use a packing slip, or create something themselves. We are all familiar with a Certificate of Conformance from some type of template on the internet that looks sub-par. The supplier normally prints it out and attaches it to their shipping documents, or creates a PDF and emails it to the customer. After sending it off, the supplier then most likely saves it and forgets about it on the company server, a filing box, or employees' hard drive. Fast forward, when the customer can't find or does not receive the certifying requested documentation; the customer must contact the supplier and the process is repeated again (i.e., wash-rinse-repeat). The actual discombobulated process to create, transmit, and store certificate documents undercuts the certification they are intended to represent.

An example may be a bearing manufacturer that has a five (5) year grease shelf life. A Certification of Limited Warranty based on the grease shelf life would likely be appropriate advising the customer that re-certification is required if not used. Another use case could be requirements of Material Certifications assuring stoichiometry of raw material components; or, lifesaving medical treatments with an expiration date. In most cases, there is no central shared repository presently that can be relied upon to hold the certifications or self-authenticate the documents by time stamping them.

Imagine being asked as a supply chain manager to furnish a Certificate of Authenticity from five (5) years ago to a customer and not being able to find it; or, what about a supplier unable providing a Certificate of Origin facing accusations of non-conformance by supplying parts where the country of origin is in dispute because of a latent defect that showed inferior materials were used not to a specific standard. Do you accept the seller's word that the Certificate of Authenticity provided is authentic?

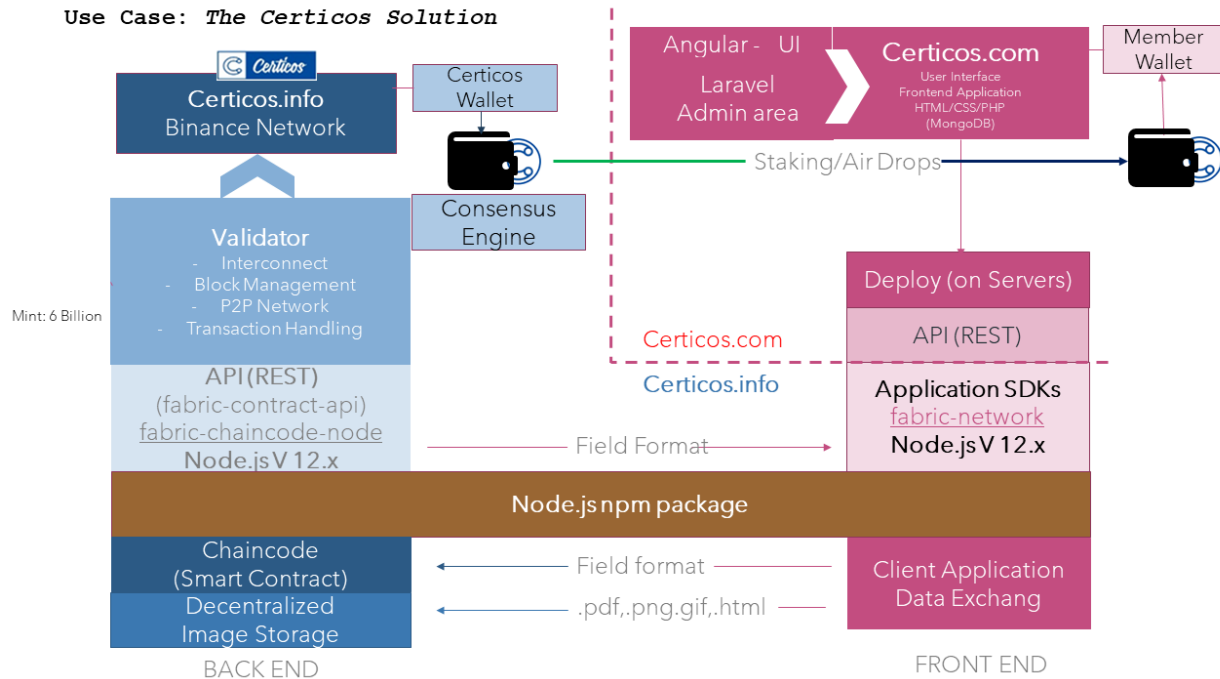
This is the current state of certification documents and just a few instances that customers and suppliers must deal with on these types of legacy documents that are not normally held within supplier quality systems, integrated MRP systems, or carry over from manufacturers on durable goods in the open market.

1.2 Contracts and Approval Documents

Contracts can now be prepared, initialed, and signed without having a subscription to an online service between parties and saved on the blockchain. An example could be a Service Contract with Milestone Payments, or an Auto Shop sending in a repair bill for signature. Probably the largest example would be Real Estate documents submitted for initializing and signature. By utilizing Certicos and becoming a member, parties can become verified and know they are sending documents to the correct user without interference because all members are certified/verified through KYC technology.



1.3 The Certicos Platform Advantage



The *Certicos* platform will allow members a cloud-based IOT (Internet of Things) interface with a decentralized storage repository that is secured with block chain encryption. Certifying documentation is generated directly on the *Certicos* IOT website electronically by the supplier (Creator) with permission-based access granted to the customer (Approver) to review or print all in one place. No more searching or recreating blue ink documentation because the original will have the certified block chain time stamp and encryption data input affixed with private or public access. Also, no monthly subscriptions; instead *Certicos* is a *pay-as-you-go* platform using the native Crypto Currency Binance Smart Chain BEP20 token called CERT in your Crypto Wallet to pay for the services you need when you need them.

With an IOT App secured internet interface, a Creator will generate the documents in their *Certicos* membership account with their trademark logos; and, the Approver, the party receiving the document, will read from their similarly membership account. Membership sign-up will include a KYC Verification Process free of charge for the basic membership. The Creators will pay a gas fee to make transactions within the service for creating and submitting documents.

To assure that the certification documents created are intended to go to a specific Approver, the Creator will have the ability to provide a separately generated *Certicos* number (CERTID) to give to any other parties to access the documents. This can be in the form of a QR Code that has an embedded hyperlink to



the file's location. If this separate code is lost, by either the supplier or customer, they may simply log in and retrieve; like retrieving a lost password. If both parties were intended to have access to the certifying document files; they both can re-establish access. Additional parties must receive permission from either the Creator or the Approver to get access to the documents. This is important in cases of Customer (Approver) pass-through documentation or reselling components. As a result, a pedigree record is created. All this linked by a QR Code or alpha numeric encryption generated by *Certicos* supplied to the parties either placed on shipping documents, or sent by email. The *Certicos* number will be embedded as the document between the parties in the Blockchain hash that will be recorded.

Components or goods can be traced by part number, date, supplier, customer, or even drawing number (if applicable). Whatever authenticating fields the Creator and Approver agree to and should be listed inside the certifying documents creating a searchable field.

By supplying a list of certifying documents and not sending those on unsecured internet email applications or worrying about file size issues; *Certicos* guarantees the authenticity of the document that the Creator originally created for the Approver. This additionally compliments smart contracts used on multiple platforms within a blockchain such as on the Ethereum (ETH) network by creating evidentiary discoverable documents that are self-certified by their time stamping to support such contracts in case of any disputes between the parties.

Additionally, as suppliers begin to integrate to supply chain tracking platforms, *Certicos* can provide supporting evidence of sub-tier suppliers and their certifications that should complement any supply chain tracking and time stamping contemporaneously with the products movement.

1.4 Certification Templates

Certicos will have standard certification document formats available. These template certification documents are supplied by *Certicos*; or, the Creator may upload their own template. So, the Creator may create their own custom Certificate on *Certicos*; or, upload their own document. Additionally, the Creator may use templates and pay Contributors to use their documents in the Marketplace.

1.3 Contributor Certifications and Documentation

Certicos will provide some baseline option documents to allow members to either use as is, edit, or create their own. *Certicos* cannot provide templates for all the documents made on the platform in all the countries in the world; so, *Certicos* will allow third party Contributors to create certifications of documents in their language and area of expertise. This will allow a marketplace of certifications and documents being created and sold by Contributors for a CERT fee from Creators. This results in a whole new way of compensating the creators on the *Certicos* network.



2. How Certicos Works

2.1 Membership and Roles

Certicos does not require a monthly subscription, but instead has plans that are essentially space savings for metadata of the final pdf document that the users can download free of charge. *Certicos* encourages members to purchase tokens which will have value on multiple Cryptocurrency Centralized Exchanges in the future when it is open for Buy/Sell trade.

Certicos Users assume all three roles in their file to interact with the service. Some examples are below.

CREATOR: A Creator could be a Seller, a Buyer, an Author, a Lawyer, or a Realtor. The Creator definition is limitless but can be succinctly considered the initiator of the document or certifications used on *Certicos*. The Creator will open and fund an account purchasing CERTICOS and placing them in their Crypto Wallet. The Creator can upload their own documents, use *Certicos* templates, or utilize a Contributor. Each created certification or document will have a CERTICOS cost similar to a 'gas fee' to submit the created document. After a document has the completed sign-offs and is considered to be closed, the Creator will be the party that submits the final document to storage and the Blockchain. A Creator can make a document and not use an Approver or any other role and save to the Blockchain solo as well.

APPROVER: The Approver either receives documents from the Creator (with or without Authenticator being utilized) and Approves those documents or holds them for information only. An Approver can Approve with comments and it will be up to the Creator to review and implement those comments for a resubmittal. An Approver and Creator can amend the document and go back and forth confirming as many times as required before actually approving which then stores the document and writes it to the Blockchain. A Creator can also be an Approver and send the document to themselves for a solo Approval.

AUTHENTICATOR: The Authenticator is a third party that offers their services to approve the certification or document. Authenticators will pay a small usage fee when a document is used. By advertising their skills as either an Inspector, Appraiser, Validator, Code Approvers, or Auditors; an Authenticator's involvement will allow them to charge for their services either inside the *Certicos* system in CERTICOS or in other matter of payments to either the Creator or the Approver for their specific skill set.

CONTRIBUTOR: The Contributor essentially sells their templates to Creators to be used in the *Certicos* Marketplace. This can be in the form of Certifications in different languages or countries with formatting or wording in terminology specific to their business or skill set. This can be a bill of sale for an automobile, property documents, or even a legal document. *Certicos* will set up a marketplace for Contributors to sell their document designs, or other members can contact them and have custom documents made to specific to their need.



2.2 Certification of Members and Sign-In Authentication

Certicos future plans will perform ID Verification utilizing a respected 3rd party verifying agency to assure KYC is secure. It is critical on Certicos that members have confidence that 'you are you'. Certicos will offer a limited time free sign-up access, and then there after charge a small one-time account set up fee (as required) for all members. The process is unique as the member signs in; receives an email and then clicks a link that lets them directly into their dashboard.

2.3 Industries Supported by Certicos

Certifications can be used in several industries. As an example, a food manufacturer may produce a CERTICOS proving that they are GMO-Free; an aircraft part manufacturer may produce a CERTICOS regarding the material content of a component; or a hotel may produce a CERTICOS showing that they meet a specific hospitality requirement. The use of certifying a product or service authenticates that product or service is endless.

Advertising	Media, Brand Identity, Promotion, Media Planning
Agriculture Industry	Traditional Agriculture, Terrace Farming, Slash & Burn
Aircraft Industry	Manufacturing, Repair and Overhauled, Flight Services
Automotive Industry	Manufacturing, Parts Supply, Repair Services, Verifications
Construction Industry	Building Construction, Heavy Engineering, Landscaping, Trades, Architecture, Interior designs, Materials
Creative Industries	Art, Performance Art, Crafts, Music, Film & Entertainment, Design, Fashion, Culture
Education	Talents, Knowledge & Intelligence, Exhibits
Entertainment Industries	Media, Sports, Attractions, Museums, Cultural Events, Performance Arts, Video Games, Music
Finance	Financial Management, Financial Analysis, Financial Metrics, Risk Management, Assets
Green Industry	Manufacturing, Services, Energy, Farming, Transport, Forestry
Hospitality Industry	Lodging, Food & Beverage, Recreation, Entertainment, Health & Sports, Travel, Tourism
Information Industry	Software, Media, Consulting, Business Process Outsourcing, Professional Services, Research & Development, Data Services
Information Technology	Computing, Coding, Algorithms, Automation, Business Software, Cloud Computing, Artificial Intelligence, Hardware, Platforms, System Integrators, Robotics
Infrastructure	Business Infrastructure, Critical Infrastructure, Data Infrastructure, Digital Infrastructure, Public Infrastructure, Network Infrastructure
Medical	Medicines, Equipment, Providers, Hospital Services, Pharmaceuticals, in-patient services
Space	Space Industry, Components
Telecom	Equipment, Managed Services



2.3 Electronic Transferring Certification Documents

In its simplest form, Company A creates a certification document (Creator) uploads it to *Certicos* and then provides the document to Company B (Approver). Company B may in turn become a Creator and pass that same document unchanged to Company C. Permissions are granted by the original Creator (*in this case, Company A*). When creating the certifying document the Approver will be given the option to allow the Approver to transfer the document or re-issue the document.

The *Certicos* Blockchain records the transaction in the general ledger and the number of tokens (CERTICOS) of the transaction. Only the Reader can open the certification as it was assigned by the Creator specific to their own CERTICOS# unless permissions are granted. Certicos will also have the option to be 'Open' which means that the documents are public to all or a certain amount of Certicos Members.

2.4 Certicos Pricing and CERTICOS Tokens

Certicos is intended to be an affordable service with a minimum transaction fee to encourage use of Certicos and blockchain technology. Unlike the majority of other Document Approval and Storage Systems, Certicos does not charge a re-occurring membership fee. Instead, members will have an option to pay a single usage fee for each transaction; or, they can purchase CERTICOS Tokens which is a BEP20 Smart Contract Token on the Binance Network. The CERTICOS can be used at a discount instead of using.

The eSignature Document Market is dominated by DocuSign which has a 8.33 B Market Cap (at this writing) and controls about 55% of the eSignature Market*; but let's not forget Adobe which also has entered the eSignature arena and has a Market Cap of 271.9B Market Cap that controls about 12% of the market. There is at least 20 more eSignature Document Companies making up the remainder (PandaDoc \$1B, Formstack \$425M, HelloSign \$230M, ReadySign \$1.6B, GetAccept \$30M(?), SignIn \$5.5B, Zoho \$1.0B, SignEasy(unknown)).

Here is an example of the present Market Condition with all the Web2.0 participants; along with where Certicos would like to land after one (1) year after entering the market.

Technology	Domains	Market Share
DocuSign	19,856	56.00%
Adobe Sign	4,381	12.36%
Smartwaiver	3,406	9.61%
SignRequest	2,681	7.56%
HelloSign	1,270	3.58%
SignNow	993	2.80%
RightSignature	744	2.10%
PandaDoc	610	1.72%





Scrive	217	0.61%
MyLiveSignature	159	0.45%
Sertifi	148	0.42%
RPost	136	0.38%
OptiSigns	105	0.30%
eversign	102	0.29%
Signaturit	68	0.19%
eSign Genie	67	0.19%
Nitro	62	0.17%
Signable	56	0.16%
Omnivex	54	0.15%
Legalsign	44	0.12%

Certicos does not have Venture Capital Money, Certicos has over 12,000 Wallet Holders, and a Telegram Community of 16k Members. Certicos aims to service the Global Community.

currency on the website for transactions. Certicos expects to have the CERTICOS Token listed on a number of Centralized exchanges.

3. Examples of a CERTICOS transaction

What does *Certicos* do as it relates to Supply Chain?

Certicos allows customers easy access to review documents through an encrypted QR code link to electronically certified documents thereby eliminating blue ink. *Certicos* membership and permissions allow access to certifications for a specific product or shipment from a supplier or their sub-suppliers.



Invoice Number	Ship Date	Exporter	Export Country	Transport	
4789897522	Sept 4, 2020	W2 Logistics	India	Air	
Country of Manufacture	Country of Origin	Country of Manufacture	Country of Origin	City	
August 28, 2020	FTT Canton	USA	California	Irwin	
Part	Serial Number	Part Description	QTY	Est Value USD	Export Code
APD-88395	1371-9043	APD 88 Way Connector	45	6,780	8536.68.4020
APD-88391	1384-8793	APD 88 Way High Power Connector	35	1,645	8536.68.4020
APD-183-A2	N/A	APD 4 Way	12	1,454	8536.68.0000
Total			92	8,879	

Declaration by the Chamber of Commerce
 It is hereby certified on the basis of correct papers on file that the declarations of the exporter is correct.
 City of Irvine, Chamber of Commerce
 This information is based on the information supplied by the Chamber of Commerce for the Exporter's Declaration and user has been a member of the Chamber of Commerce for the past 10 years.

Exporter Declaration
 The undersigned hereby declares that the above details are correct that all the goods were produced in the United States of America, and that they comply with the origin requirements specified for goods exported to India.



Example 1: An Aircraft Engine Valve Part

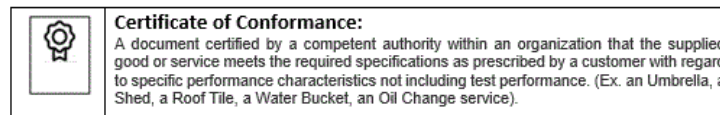
Trans Aero is a manufacturer of jet engine valves that it sells to commercial aircraft manufacturers and airlines for repair. Aero Jet purchases the Trans Aero valve to be placed in their Mega Jet Engine. That Mega Jet Engine is sold to Banding Aerospace as an OEM that it places on its BA373 Aircraft; and, Trans Midwest Airlines purchases those aircraft. Trans Aero valves are also purchased directly by Midwest Airlines for repair and overhaul of the AeroJet Mega Engines after 2,000 flight hours.

Banding Aerospace in making their BA373 Aircraft, and to assure that they are receiving conforming, not counterfeit components in compliance with their specifications request Certificates of Conformance, and Certificates of Origin on all components used by Aerojet in their Mega Engines. Specifically, because it is considered a critical part, Banding ask that Material Certifications are also supplied of all jet engine valves. This would include Trans Aero's jet engine valve.

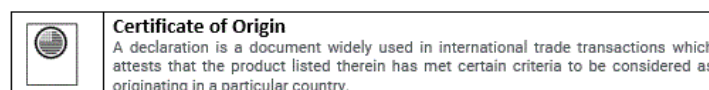
Tran Aero can supply this by becoming a Member of Certicos along with Banding Aerospace and submit the Certificates of Conformance, Certificates of Origin, and Material Certifications.

SOLUTION

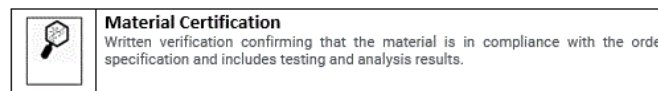
- (1) Certificate of Conformance: Trans Aero may want to include a third-party certifier providing certification on the valve timing actuators. That Third Party Certifier, also a Certicos member, would receive the documentation and Approve or Reject thereby endorsing conformance of a certain feature of the Trans Aero valve.



- (2) Certificate of Origin: Trans Aero can contact their local Chamber of Commerce, which will also needS to be a member of Certicos to endorse their Certificate of Origin.



- (3) Material Certifications: As a result of past counterfeit concerns, it is industry standard to produce material certifications on the type of alloys used in the valves. Subsequently, Trans Aero requires material certifications and provides that evidence to their customers as proof that the correct alloys are being utilized in their valve builds.





Example 2: An Art Dealer and a famous painting

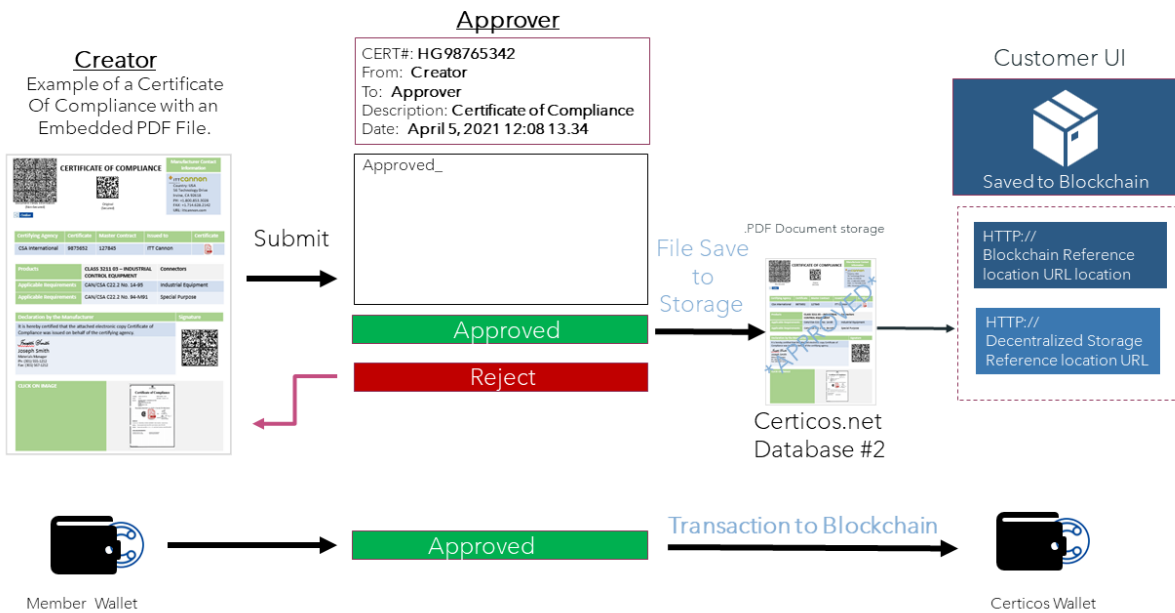
Pierre Trieljo is a famous artist that recently passed away. His paintings post mortem have become very popular and copied. Marcos Sonno was a childhood friend of Pierre’s and was given a painting in 1997 from Pierre himself. The painting is signed in Pierre’s signature as well as a piece of note paper that Pierre taped to the back of the painting written in Spanish stating that the painting was for his good friend Marcos.

After Pierre’s death, Marcos realizing that the painting may be very valuable brought it to an art dealer in his city. The art dealer told him if the painting is really a Pierre Trieljo original it is worth \$250,000 USD. Marcos told the dealer if that was the case he would like to sell the painting and asked the art dealer if he would help him.

The art dealer held the painting in the store and went online to find the eminent expert of Pierre Trieljo paintings. After contacting the Trieljo expert, he took pictures and got permission from Marcos to send the painting the Trieljo expert to authenticate. The Trieljo expert received the painting, and after meticulous examination determined that the painting was a Pierre Trieljo original and agreed to create a Certificate of Authenticity for the painting.

4. How a CERTICOS Token works

How does Certicos Work?





4. Certicos Tokenomics

CERTICOS are the native token used on the Certicos network. The initial minting will be for 500 million CERTICOS issued with the BEP20 Smart Contract on the Binance Network. The Maximum number of minted CERTICOS will be 700 million.

More information is on our Website on our Tokenomics page.