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Introduction :Bitcoin and Cryptocurrencies

In this paper, we analyze the XRT advanced technology in the Ethereum Blockchain for online and offline combined services, XRT Foundation Services are considered the next revolutionary for enhancing blockchain applications and technologies.



Bitcoin (BTC) was the first cryptocurrency that was developed in 2009 by Satoshi Nakamoto, and was the first digital currency with a constant change in its variable value according to the amount of supply and demand in the market, which started at 1 cent in 2009 and today, worth thousands of dollars. Bitcoin and other Cryptocurrencies had some challenges in the online payment systems such as the Double spending, reverse payments, security, and anonymity. They succeeded in maintaining some aspects for users worldwide just like anonymity, fast transactions, low fees, and security. The most important aspect of Bitcoin is its transactions being processed through Blockchain Technology, which converts any transaction to a shape of block being verified among users or nodes in the network as it is decentralized. This allows many developers to cite alternative applications of Blockchain using digital tokens or assets in order to represent other assets or coins with the enhancement of financial transactions.

XRT Foundation intends to enhance the performance of transactions and applied application through the Ethereum smart contract, using enhanced ways in providing real applications and lifetime payments through the hashing algorithm for encryption/decryption to provide more secured transactions, lowering the transactions fees, and allowing users to fully depend on XRT Coins to do their real business in a safe and secured manner.

HISTORY

The Decentralized Digital Currency Concept has been under study for decades where there might be no authority in the middle of transactions, Bitcoin (as the first cryptocurrency) succeeds to provide anonymous transactions without exposing the identity of the sender or receiver, which led to a real practical way to provide security to users and anonymity control among the world.

- Anonymous Electronic Cash Protocols



The anonymous 1980s and 1990s electronic cash protocols were mostly dependable on a crypt-graphic primitive called Chaumian Blinding that provided new currencies with privacy control, however their underlying protocols failed to gain attraction because they were depending on a Centralized Authority.

- Money through Solving Puzzles



In 1998, Wei Dai's b-money succeeded to become the first proposal to introduce an innovation idea, which depends on creating money through solving computational puzzles and Decentralization, however that proposal did not actually show how a decentralized environment can be implemented.

- Reusable Proof of Work

In 2005, Hal Finney introduced a new concept of "reusable proofs of work," which is a whole system that uses combined ideas from b-money and Adam Back's computationally Hashcash puzzles in order to create a new concept for CryptoCurrency, however it failed shortly because it relied on trusted computing mechanism as a backend.

- Satoshi Nakamoto and Bitcoin

In 2009, Bitcoin as the first decentralized currency was implemented in practice by Satoshi Nakamoto that combined primitives to manage ownership of Bitcoins through public key cryptography with a hashing algorithm in order to keep track or blockchain of who owns coins, known as "proof of work".

- VitalikButerin and Ethereum

In late 2013, Ethereum, "which is another Cryptocurrency" was proposed by VitalikButerin, a cryptocurrency researcher and programmer. Development of Ethereum (ETH) was funded by an online crowdsale between July and August 2014. The system went live on 30 July 2015, with 11.9 million coins "premined" for the crowdsale. This accounts for approximately 13 percent of the total circulating supply. ETH started with price less than 1 dollar and today 1 ETH equals hundreds of dollars.

Ethereum Smart Contract

XRT Coins are designed through Ethereum Smart Contract which is a secured decentralized platform for applications that run exactly as programmed without any chance of fraud, censorship, or third-party interference. Ethereum allows developers to program their own smart contracts. It supports a broader set of computational instructions. Ethereum Smart contracts are able to:

Function as 'multi-signature' accounts, so that funds are spent only when a required percentage of people agree.

Manage agreements between users, say, if one buys insurance from another one. Provide utility to other contracts.

Store information about an application, such as domain, registration information or membership records.

Proof of Work and Proof of Stake

Proof of work (POW) provides a simple algorithm that allows network nodes to vote or verify some updates of the Bitcoin ledger and allows a free entry to this process to solve the problem of who gets to influence the consensus with preventing attacks. POW alternates a formal barrier to participation, such as each single node power in the verifying process is depending on the computing power that the node brings. After that, problem of huge power and electricity fees began to appear in order to continue working with the proof of work, which led to a new alternative approach called proof of stake.

Proof of Stake (POS) is an approach that works through calculating the weight of a node according to its currency staking or holding only, which means more power and electricity saving. These two approaches, proof of work and proof of stake can be used for any cryptocurrency.

Transactions

Each Transaction is being placed using a wallet (web wallet, Windows wallet, IOS Wallet, or Mobile Wallet) as a block in the Blockchain in order to be verified or voted among the nodes in the network, that is the Miners' work in the Proof of Work and Stakers' work in the Proof of stake.

Verifying Nodes

Transactions can be processed in less time depending on many people interested in mining and staking, allowing computers to verify nodes in the network so as to gain some profits, those verifying nodes make the network alive as long as there are active nodes in the peer to peer network.

Block Explorer

Anyone can check the Blockchain of any cryptocurrency "whether it is a separated challenging coin or even if it is a token created using a smart contract of another coin" and the number of blocks processed through the Block-Explorer. However, no one can know the exact owner or receiver of any transactions that provides privacy and anonymity for network users.

XRT: The X-factor

Foundation

XRT Foundation is a non-profit online food platform founded by two young and enthusiastic entrepreneurs 'MJ Paul' & 'Anil Kumar'. It seeks to be partnered with the big companies working in food sector, using its own Crypto currency named XRT.

It aims to solve the vital payment problems occurring in Food industry where the XRT coin will be the substitute of 'card n cash payments'.

Vision

The primary goal is to use Blockchain technology to solve the many inconvenience of the payment process in restaurants and other food stores like cafes and all, using our XRT platform. Through our XRT mobile app, we will be providing customers an instant & secure payment method solution using our XRT Token. Card payments will finally be hassle-free and the customers will become more comfortable while paying at a resto or anywhere else.

XRT Coin Design

- **XRT Coins API**

XRT Coin API allows developers to add XRT Coins as a local or global payment method. The Businesses working in the field of Food & Beverages are starting their co-operation with XRT Foundation to accept XRT Coins to achieve further steps for higher values. You are able to pay at restaurants and cafes or for services using XRT Coins that proves more reliability, success, higher value, and better future.

- **Security Algorithm**

XRT Engineers came out with the right decision of choosing the Ethereum Smart Contract as a secured Hashing Algorithm used in the token creation, as it is secured with digital Private Key Signatures that provide private and instant transactions module for XRT Coins, besides providing an advanced bonuses for members and holders to get advantages while buying XRT Coins with special bonuses and incentives in the ICO. Those advantages would support XRT Community as a supportive step towards holding XRT Coins in the safest ways online and offline.

- XRT Transactions Explorer

XRT Transactions are processed on the EthereumBlockchain which means you are able to explore the transactions of the XRT Coins any time to know more about the expanding traffic of transactions in the same moment they occur through ethplorer.io , etherscan.io , and many more with respect to the privacy of our users.

- XRT Double Spending Proof

Double-spending is a potential flaw in a Cryptocurrency scheme in which the same coin can be spent more than once. This is possible as a leak of security because each coin consists of a digital file that can be duplicated.

XRT Coin is created by the Ethereum system, which contains the NONCE that protects from the Double-Spending issue, in order to keep transaction related to an account in order, i.e. if there is a transaction with nonce 3 related to some accounts in the Tx-pool and some transactions with nonce 4 arrived then that transaction won't be mined until and unless transaction with nonce 3 is mined.

Problems in food industry



We generally face problems when we pay at a restaurant or anywhere else. For example, sometimes we are afraid of paying with a credit or debit card as there are chances of the theft of our card details like PIN or etc.

Credit card - affiliated payment processors while more secure, can be expensive for online retailers. Added to the expense is the lack of interface between processing systems. Resulting in, processing & payment delays, lost transactions and expensive fees. Even we face sometimes liquidity issues also.

It all results in the disreputation of the restros that's why the both owner & the customer are uncomfortable in this method. XRT Foundation has come in the existence to solve this issue.

XRT Solutions



XRT will be used as a payment mode in food industry as it is having some special features like:

- *It is more secure than a credit or debit card.
- *Minimum transaction fee.
- *No mediators as it is direct transferable from one to another.
- *Fully digitallised (with the help of mobile app on which XRT team is working).
- *No need to share private details like keys and all.
- *XRT is having a sufficient supply of 5 billion coins to feed it's requirements.

XRT Services

XRT Services and Crowd-Projects are considered as the back-bone of XRT coins, The main purposes of XRT Coins Issuance are demonstrating a real life applications with global usage for XRT users with the opportunity of contributing to XRT Projects in different fields. XRT Foundation offers some of the advanced products and services through the Global Decentralized Network based on the Blockchain Technology such as wallets, Global exchanges, mobile app, e-Bills, cryoto e-pay, XRT Advertising etc.

- **Wallets**

XRT Users are eligible to send and receive their XRT Coins through the XRT Ethereum Wallets on Mobiles, Tablets, PCs, and Laptops.

- Global Exchanges

XRT Coins could be exchanged into any other currency like \$,€, £, ¥ etc, and into any other cryptocurrency like BTC, ETH, BCC, LTC, etc, through different global exchanges.

This service is considered as a breakthrough in the cryptocurrency market that reveals a clear desire of the XRT Foundation to embrace the cryptocurrency market with stability and credibility as a fundamental element of its growth and user focus strategies.

- Staking

Proof of stake is a typical computer algorithm through which some cryptocurrencies achieve their distributed consensus. It is also a better alternative to the proof of work algorithm by achieving the same distributed consensus at a lower cost and in a more energy efficient way.

This provides dual benefits of securing the blockchain network as well as creating an opportunity for users to get incentives or dividends on their holdings

- Mobile App

XRT will launch a mobile app which will have very special features like:

1. Secure wallet
2. KYC compulsion for every user whether he is customer or owner.
2. Creating invoice on each transaction
3. Acceptable in multiple countries
4. Instant send and receive
5. Cash Backs and other special offers
6. Available for both Android and iOS



- e-Bills

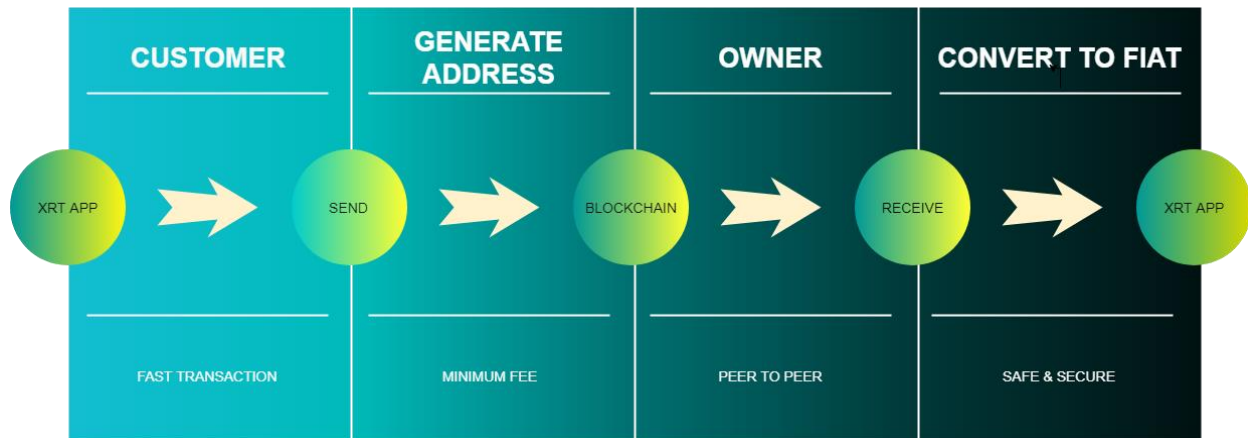
The electronic bills can be generated through our advanced mobile application when a customer pay at restaurants and cafes. The bills could be generated through calculating the total XRT paid by a customer to the owner which will include very special features like one can transaction time, date, amount, discounts, cash backs received owners name and wallet address.

- XRT Advertising

XRT Foundation aims to become a very popular platform which will be very beneficial for the restos owners to advertise thier restaurants, bars and cafes through our mobile app. It will create a history in the digital market. The common public will be able to see the starranking for the restos in their near location. The popularity and specialities of the restaurants can be read out through the special features given in the mobile app.

- XRT platform

We are coming with a very unique concept which will make the XRT very popular and usable in the digital as well as real world. We aim to become the largest food platform in all over Aisa. For this, we are making our platform flexible as much as possible by providing the all facilities suitable for digital payment. Even one can get the rewards and other benefits for holding XRTs in their wallets. We are working on such features which will become be beneficial for both customers and owners.



Use Cases

The concept of XRT Foundation is built around utility, ease-of-access, efficiency and privacy.

The app's simplistic and intuitive design allows all kinds of users to store, send and receive XRT Tokens.

XRT Foundation stands as a fully AML/KYC and MSB compliant product assuring a safe environment for all users. Some major use cases are detailed below:

- **Ease-of-Use**

All interactions with the exchange will be through the app which is designed to specifically cater to non-technical people, without encroaching on the quality of experience. The simple design is easy to understand and use. The goal is to offer the same experience to all people from all walks of life.

- Availability

Buying crypto in most countries is a lengthy and tiring process. Financial systems are not ready to move over to the blockchain just yet, primarily because a P2P network is contradictory to the existence of their profit-based institutions. XRT Foundation III will be available for download globally except some countries and users will have equal access to purchasing crypto tokens from everybody.

- Available in different markets

XRT Token will be available in different markets such as ethereum, doge etc. on various exchanges for the convenience of the customers.

- Fast & Secure

XRT is developed using ERC-20 protocol of ethereum blockchain. As we everyone knows it is the fastest and easiest medium for crypto transactios. It is more secure than conventional method of transactions such as banking. It's protocol is easier to understand and build. It uses P2P network protocol and doesn't involve the interaction of third parties which makes it secure than others.

Marketing

XRT Foundation, with its multi-faceted model, is a brand name. It is vital for the enabler to be recognized and trusted in the community and in order to do that, the focus must be in creating brand familiarization among the publics. XRT Foundation will make use of various avenues to maximize its potential outreach.

- Social Media Advertising

Social media is the frontline for any project or organization to interact with their communities and customers. XRT Foundation has been using its social media to keep the masses up to date with the development process, announcements, Airdrops and bounties, Twitter, Telegram, Facebook and Bitcointalk. Running social media ad campaigns tends to be more cost-effective than Google Ad so a large part of the marketing campaigns will be dedicated to social media, in the time leading up to full application launch.

- SEO and SEM

In order to generate traffic towards the website, blogs optimized for SEO will be shared sites frequented by users sharing interests in the crypto-space. Not only will these articles create traffic, they will discuss key informational topics as well. Paid advertising is also important to gain a steady flow traffic.

- Promoters

Promotional campaigns are extremely vital for XRT Foundation in the early stages of development. These campaigns focus on creating awareness by leveraging the target audiences of popular and reputed social promoters. The promoters help introduce your project to the masses & generally help build credibility for the brand, and they often use social media platforms to communicate with their audiences. This immediately grants XRT Foundation access to various markets around the world. Since the project is heavily invested in community building, users will be able to gain some rewards for inviting friends to join (referral bonus)

- Opportunity for other well growing projects

We know there is a very important role of a well growing companies especially when they are in it's early stage. Every good project is ready to get tie up with the other project if they understand its advantages. We as XRT Foundation offer various projects to join our platform. Becoming a part of XRT will also lead them to huge audience through our strong marketing strategies.

Team members

MJ PAUL (CEO & Founder)

He is the backbone of XRT Foundation. MJ has brilliant skills in marketing and economical field. He has completed his bachelor degree in Arts from Affiliated University in India. MJ has also worked with restaurants and analysed the problem related to money and came with XRT as the solution for food chain companies. In his personal life, he is kind hearted, caring, astonishing in thoughts, enthusiastic and considerate person. His ideal is "M.S. Dhoni" and follow the quote, "I don't regret anything in life. What doesn't kill you makes you stronger."

ANIL KUMAR (COO & Co-founder)

He is the nerve of XRT Foundation. He has the great convincing power, his ideas are always profitable. He started his career as an Event manager, then he switched in the field of Sales and Marketing in various Hotels and Resorts. He has 3 year of experience in Crypto currencies and related terms. He has completed his graduation in Bachelor of Arts field and also persuaded MBA degree in Marketing. His ideal is "Swami Vivekananda" and follow the quote, "Life gives you what you ask for."

SUMAN (Managing Director)

She is the Heart of XRT Foundation. She always aims to complete her target with perfect outcomes. Her level of enthusiasm is not comparable. Her skills of managing the project and overall work is outstanding. She joined the project after completing the graduation and currently working with us as an experienced managing director.

VIKAS J. (CMO)

He is a ground to earth kind of person. He believes in simplicity and perfection. He dreams of successful enterprenuer who believes in the betterment of every individual. His perfection is the key of achieving the targets. He has completed his bachelor degree in the field of Commerce. His strategies leads to achieve a huge target audience effectively.

SAGAR (CTO)

He is the architecture of XRT Foundation. He manages all the Research and Development work and aims to develop highly efficient applications. He is a man of perfection. He started his career in technical domain and gain various programming domains knowledge. He has completed his graduation in bachelor of technology from reputed University of India. He has expertise in his fields of work. His aim is to take the human race in the future of technology.

Partnerships

We are going to be partnered and tied up with 2000+ food organisations till 2020. We are working very hard to reach our partnership goal for the development of our XRT Foundation and for easily acceptance of XRT at many restaurants, bars and cafes. Moreover, the companies which are not related to food sector, will also be served at our XRT platform if they are suitable or beneficial for the future development of XRT Foundation.

Roadmap

2017

Q-4:

- * Project planning and market research
- * Tie up with technical experts and advisors
- * Analysing problems occurring in food industry
- * Study the whole infrastructure of crypto currencies and Blockchain

2018

Q-1:

- * Website deployment
- * Releasing Roadmap
- * Mobile app for Android
- * Releasing Whitepaper 1.0

Q-2:

- * Airdrop & Bounties
- * Marketing and promotional activities
- * Events and partnerships
- * Start Pre-sale and ICOs

Q-3:

- * Distribution of Airdrop and Bounties
- * Release of Whitepaper 2.0
- * Apply for listing on exchanges
- * Mobile app for iOS
- * End of ICO
- * Launching Windows and Linux wallet
- * Listing on domestic and overseas exchanges

Q-4:

- * Tie-up with food giants in Asia
- * Launching Mac wallet
- * Own restaurants and franchises
- * Business tour in Aisa for development of XRT Foundation
- * Advanced features in mobile application
- * Listing on more Exchanges

ICO

- The opportunity with XRT Token ICO

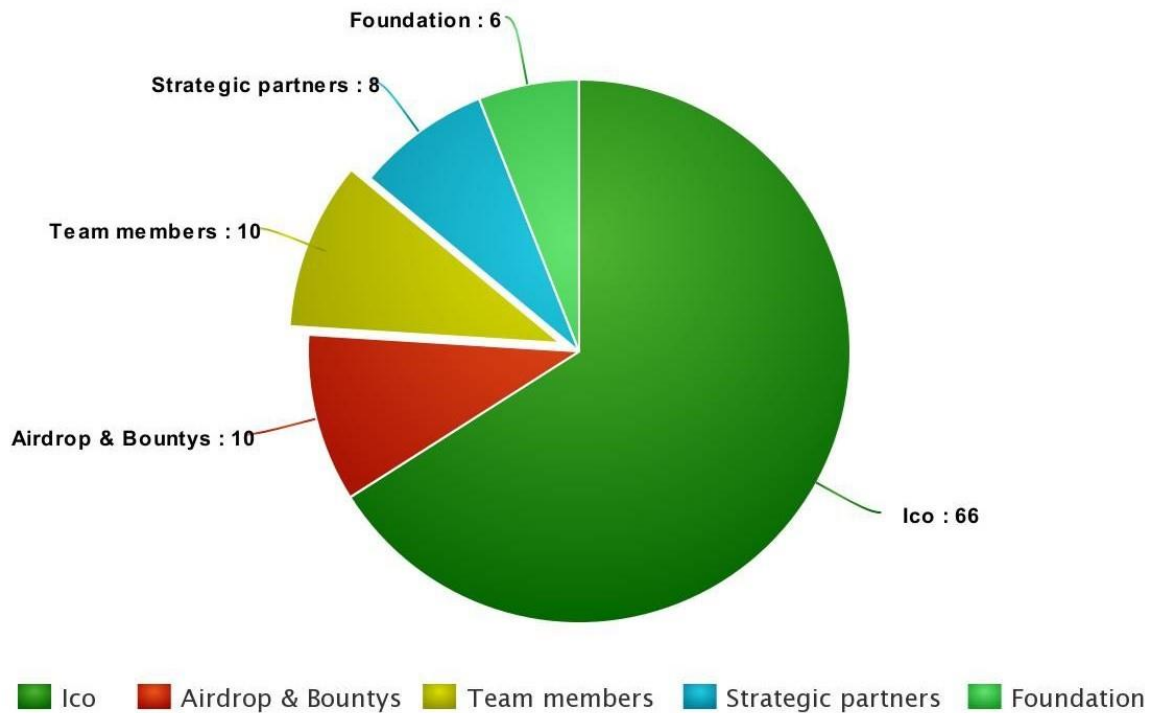
With the Cryptocurrency Market Capitalization exceeding 800 Billion USD, the XRT Token ICO will support funding the XRT Foundation to start the Road Map of XRT Foundation and expand faster in the Crypto Market. All funds raised in the ICO will be used for legalities, launching XRT projects, adding XRT Token to Global Exchanges, funding small businesses, supporting future researches, and attracting more merchants and partners.

- Purchasing methods

XRT Tokens can be purchased using Ethereum ETH, BitCoin BTC, LiteCoin LTC, and other payment methods through XRT Website.



- Allocation of coins



The number of XRT Tokens are limited to 500 Millions (500000000), only 66% Tokens will be available for the ICO, 10% for Airdrop and Bounties, 10% for Team members, 8% for Strategic Partners and the rest 6% for the development of Foundation.

- ICO Stages, schedule & Bonuses

XRT ICO occurs in 3 phases after the Pre sale, in each phase, you are eligible to buy early XRT Tokens with special bonuses than the next stage.

Here is the Sale summary Below for the XRT Tokens:

- Token Name: XRT
- Token Sale Amount: 330 Million XRT to the participants through token sale, 66% of the total supply of 500 Million XRT
- Token Sale: Two times (Pre-sale, Crowd sale)
- Funds accepted: ETH/BTC/DASH/LTC/BNB/XMR/DGB
- PLEASE PROVIDE ADDRESS OF ERC20 COMPATIBLE WALLETS. Recommended Wallets: MyEtherWallet, Mist, MetaMask (or ERC20 wallet)



- Wallets used in cryptocurrency exchanges are not allowed. The participants' cryptocurrency will be kept safe until all procedures are completed.
- If the amount to be raised is met before the end date, the token sale will be closed automatically.

Pre-sale

- ◆ Timeline of Pre sale : 2018.01.06. (00:01 GMT + 5:30) ~ 2018.30.06. (11:59 GMT + 5:30)
- ◆ Conversion Rate for XRT: 1 ETH = 10000+50% Bonus
- ◆ Minimum/Maximum Contribution Amount : 0.1 ~ 80 ETH
- ◆ Hard Cap : 150 Million XRT

Crowd sale

ICO Phase 1

- ◆ Timeline of Phase 1 : 2018.11.07. (00:01 GMT+ 5:30) ~ 2018.26.07. (11:59 GMT + 5:30)
- ◆ Conversion Rate for XRT: 1 ETH = 8000+30% Bonus
- ◆ Minimum/Maximum Contribution Amount : 0.1 ~ 80 ETH
- ◆ Hard Cap : 60 Million XRT

ICO Phase 2

- ◆ Timeline of 2nd Period: 2018.01.08. (00:01 GMT+ 5:30) ~ 2018.15.08 (11:59 GMT+ 5:30)
- ◆ Conversion Rate for XRT: 1 ETH = 6000+15% Bonus
- ◆ Minimum/Maximum Contribution Amount : 0.1 ~ 80 ETH
- ◆ Hard Cap : 60 Million XRT

ICO Phase 3 (Final)

- ◆ Timeline of 3rd Period: 2018.16.08 (00:01 GMT+ 5:30) ~ 2018.30.07. (11:59 GMT+ 5:30)
- ◆ Conversion Rate for XRT: 1 ETH = 4000+5% Bonus
- ◆ Minimum/Maximum Contribution Amount : 0.1 ~ 80 ETH
- ◆ Hard Cap : 60 Million XRT

Sale Policy for XRT Token

- Funds received and held in multi-signature wallets to accomplish each step in the Road Map.
- Remaining of XRT Tokens

Remaining coins will be properly distributed among rewards, Valuable Products Manufacturing, Future beneficial Projects, and partnerships, some in public safe stake holding and some global Exchanges to be exchanged on the long term.

- KYC / AML / Privacy Policy Statement Notice :
 - KYC / AML will be conducted after crowd-sales (the timeline will be announced during the Crowd sale period).
 - Token lock-up will be released after KYC / AML.
 - Return the Ethereum to the appropriate wallet address, excluding the 5% of fee to the participant who refused/neglected to proceed KYC / AML After 90 days of the end of Crowd sale.
 - If a country request KYC and AML, the personal information will be provided to the country.

- Token sale participant can request the review / the modification / the elimination of their personal information.

➤ Restriction XRT Token Token Sale Participation

XRT Foundation strongly suggests that residents of the US, China, Singapore and South Korea do the Legal Due Diligence before you participate in XRT sale event.

➤ Important Matter

- Token sale participants should be aware of matters of progress and check information provided by XRT Foundation.
- Transferred Ethereum will reverted to the investors by the XRT Foundation after 90 days of the end of crowdsale (only for participants who have not completed the KYC / AML process).

Listing on exchanges

Trust is the only key to success. There is a very important role of an exchange in the success of any coin. We, being the XRT Foundation will apply to the only authentic and secure exchanges because we don't want to get mixed with the unhealthy projects. Our priority will be the trusted exchanges having a very good volume on their platform.

Legal Consideration

XRT Foundation is establishing a platform which will be usable all over the world. Compliance with the laws and regulations of all jurisdictions is a prerequisite for XRT Foundation to be operational worldwide.

Compliance with Know Your Customer (KYC) and Anti Money Laundering (AML) regulations and all other relevant international and jurisdictional laws will be ensured by XRT Foundation. Comprehensive legal compliance will be achieved as per the country wise legal compliance implementation strategy. Countries with highest usage of the platform will be given higher priority compared to countries with low usage.

It is incumbent on all parties purchasing XRTs to comply with all relevant international and their jurisdiction's rules and regulations including but not limited to laws relating to cryptocurrencies, KYC and AML. Parties purchasing XRTs should consider these factors prior to purchasing any XRTs.

