

# AND THE REAL WORLD

For a long time, numerous blockchain projects have

## ended in failure, mainly due to the fact that the linking

**Project Introduction** 

approach (e.g. QR codes, RFIDs, etc.) between blockchain data and real objects are easy to be forged, and the high difficulty to achieve high accuracy of the original data before uploading it to the blockchain. In order to meet this challenge, Prof. Cheng Xi'en and computer vision experts from Fudan University jointly developed the smart forensic apparatus, through which a microscopic fingerprint image of the physical surface enlarged by N (N≥180) times is captured and uploaded to the IPFS for storage, and then collected by the identity authenticated public chain account and converted into the NFT. When verifying the fingerprints, the identity of the issuer is confirmed first, and then a microscopic image of the real object in the same location with the same magnification is captured and compared with the. NFT fingerprint image through artificial intelligence algorithm, so as to link the trillion assets in real world to the blockchain world.

### time. However, when it comes to accessing information off-chain, it is often relies on specific tools, known as

## predicators. These predicators are usually provided by

hacking or manipulation, undermining the accuracy of the raw data on the chain. If the accuracy of the raw data cannot be ensured, the use of blockchain technology will be meaningless, which is also one of the main problems of the failure of some previous blockchain projects. Traditional blockchain data to track real object is mainly realized by means of QR code, barcode, and RFID, which are easy to be forged. This makes it difficult to guarantee the real object linking to the blockchain data not replaced or forged.

generated on the chain regardless of the location and

are vulnerable to

institutions, which

Solution Product [Smart Forensic Appratus]

times (N ≥ 180) for

of the object.

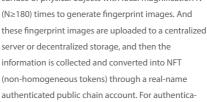


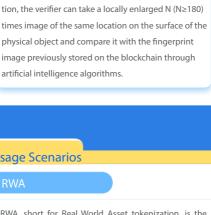
### DNA Passport is an online-offline identity authorization dApp

Non-destructive magnification of N

micro-photography of local details

that allows users to collect various identity proofs called





### use, etc.) of an interest in (bonds) into digital tokens. This allows assets to be stored and transferred without the need for a central institution, with the value

problem of RWA's inability to enforce offline clearing through smart contracts. Create physical digital assets in the meta-universe that

### meta-universe, we can circulate and trade them in the digital world, while maintaining their authenticity and

warehouses realized through digital technology, smart forensics authentication and blockchain technology, allowing goods to be stored, managed and traded in a virtual environment without the need for actual physical warehousing. The concept is designed to improve global trade efficiency and reduce logistics costs, combined with blockchain to ensure transaction transparency and security. The virtual bonded warehouse creates flexible trade options, simplifies trade processes, facilitates the development of the global digital economy, and is a next-generation standard that China Customs is leading the advancement of.

solve the problem of information isolation, the lack of transparency and other issues. We applied a unique DNA Network technology that combines physical closure and non-falsifiable labels with fingerprint data verification, to provide buyers with enhanced security and to ensure that items are not tampered or damaged. Advantages [Artificial intelligence algorithm] Prof. Cheng Xi'en developed an artificial intelligen ice co algorithm in conjunction with computer vision experts from Fudan University. The algorithm training requires a great deal of time and scientific researches, (Decentralization) It literally authorize each user instead of centralized

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The project was launched in 2017, and the R&D process overcame three key challenges in 2018, including target selection, identity extraction and identification technology, etc. The development of smart apparatus was completed in 2019, and the development of F, B and C series was completed in 2020, and compatibility

Our Team xienCh Founder, CEO PhD, Associate Professor, Master Supervisor, engaged in the research and application of machine vision,

> big data and blockchain technology. He is committed to the applied research and practice of

[wenliu] Co-founder, CTO In 2016, he focused on the blockchain industry, as the founder of Star CloudShang blockchain company, and developed public chains, digital wallets, smart contracts, blockchain exchanges and blockchain basic tools, and has

the development of DID system of DNA.PassPort, as well as the development of multi-chain payment system and its front-end functions. We will expand the system compatibility toward a more broad products in the future, such as watches, bags and other products! Meanwhile, in 2024, we will start the promotion of the

real object NFT.

### [binhuang] Co-founder, COO He has been committed to the research and development of artificial intelligence and blockchain technology, and has developed

blockchain framework and commercial application projects for

**Problems** The core advantage of the blockchain is its trust mechanism, which allows you to trust the

# centralized

## based on the Ceramic Network The smart forensic appratus can take images of the surface of physical objects with local magnification N

# **Usage Scenarios** RWA, short for Real World Asset tokenization, is the

## projected to the blockchain for transaction. The market for tokenized assets is expected to reach \$16 trillion by 2030, according to a report by Boston Consulting Group. DNA Network focuses on NFT tokenization of real-world tangible assets such as luxuries (jewelries, watches, bags, etc.), artwork (antiques, paintings, stamps, ceramics), and memorabilia (Yu-Gi-Oh! decks,

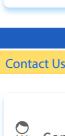
## represent physical existence through the authentication of smart forensics apparatus. The scope includes digitized artwork, luxury goods, souvenirs, etc. By projecting digital existence of physical assets in the value. This provides users with the opportunity to experience and interact with physical assets in a virtual

## Based on the DNA blockchain service, combined with the smart forensic Internet of Things (IoT) technology, e can build a collaborative alliance consisting of manufacturers, warehouses, logistics providers and customers, the tracks from the production, distribution, and logistics to the customer are credibly recorded, to



RoadMap





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Pop Marts, Disney memorabilia, etc.). It solves the Physical assets in the real world, such as artwork, luxury goods, and souvenirs, are transformed into irreplaceable digital tokens (NFTs) through blockchain technology. This enables these physical assets to have uniqueness in the digital realm while retaining their physical presence and value in the real world. The emergence of physical NFTs expands the scope of digital assets, provides value support for digital assets, and offers new ways to collect, trade and prove ownership of real objects.

process of converting the value of tangible asset (real estate, high-value commodities, works of art) or intangible asset (ownership, right to income, right to

## environment, while creating new digital economic and cultural ecosystems. Virtual bonded warehouses are simulated bonded

The traditional market is undergoing rejuvenation and digital transformation, with high-net-worth Generation Z participants dominating art investments, showing a preference for personalization and digitalization. Digital transformation encompasses not only the traditional business of investment, collecting, trading and exhibition, but also emerging businesses such as appraisal and evaluation and financial derivatives services based on digital technology. DNA Network continues to drive innovation and the digital revolution, presenting the traditional market with unprecedented opportunities to redefine the high-value product experience, shaping credibility, brand stickiness, and loyalty, while preserving the brand's authenticity and

# organization to upload on the

blockchain, and the users are responsible for their own [Addressing practical issues] Help industries efficiently and safely with different practical problems such as

anti-counterfeiting, circulation,





