



# Red Date Introduction & Products

2023

# Red Date Tech Introduction



## Red Date Tech

**Red Date Technology Co., Ltd.** is a technology company headquartered in Hong Kong that is dedicated to building next-generation Public IT System infrastructures for internet communications, digital economies, and metaverses.

### Investors:



1

Red Date Tech is the architect of BSN and is responsible for BSN's R&D and daily operation and maintenance. Red Date owns 100% of BSN IP rights.

2

Red Date Tech is responsible for the formulation and execution of BSN's international development strategy.

3

Red Date Tech is a member of the Singapore-based BSN Foundation, which governs the BSN Spartan Network.

# Today's Blockchain Challenges



Blockchain development, deployment, and management is expensive and complicated



Blockchains typically run separately on different servers or clouds



Many different underlying structures and frameworks create incompatibility



Experienced blockchain developers in short supply



## What is BSN?

The **Blockchain-based Service Network (“BSN”)** is a cross-cloud, cross-portal, cross-framework global infrastructure network used to deploy and operate all types of blockchain applications.

The BSN infrastructure offers three types of data center management software to enable traditional clouds, data centers, or intranets to build dedicated system-level blockchain environments for applications, operating systems, and tools. Simply put, we integrate a new type of virtual data center into physical data centers so they can manage all blockchain operations in a more efficient, independent, and well-organized way.

# BSN Governance

International	In China
<p data-bbox="394 691 1110 739"><b>BSN Foundation (Singapore)</b></p>	<p data-bbox="1416 691 2181 739"><b>BSN Development Association</b></p>
<p data-bbox="257 943 1245 1046"><b>Other stakeholders to be announced in 2023</b></p> <p data-bbox="555 1072 917 1146"> Red Date Tech</p>	<p data-bbox="1442 932 1765 1001"> 国家信息中心 State Information Center</p> <p data-bbox="1844 932 2168 996"> China Mobile</p> <p data-bbox="1442 1082 1765 1132"> China UnionPay</p> <p data-bbox="1844 1072 2211 1139"> Red Date Tech</p>

# BSN Ecosystem and Partners

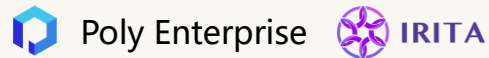
## Permissioned Blockchains



## Permissionless Blockchains



## Interchain



## Cloud Service Providers



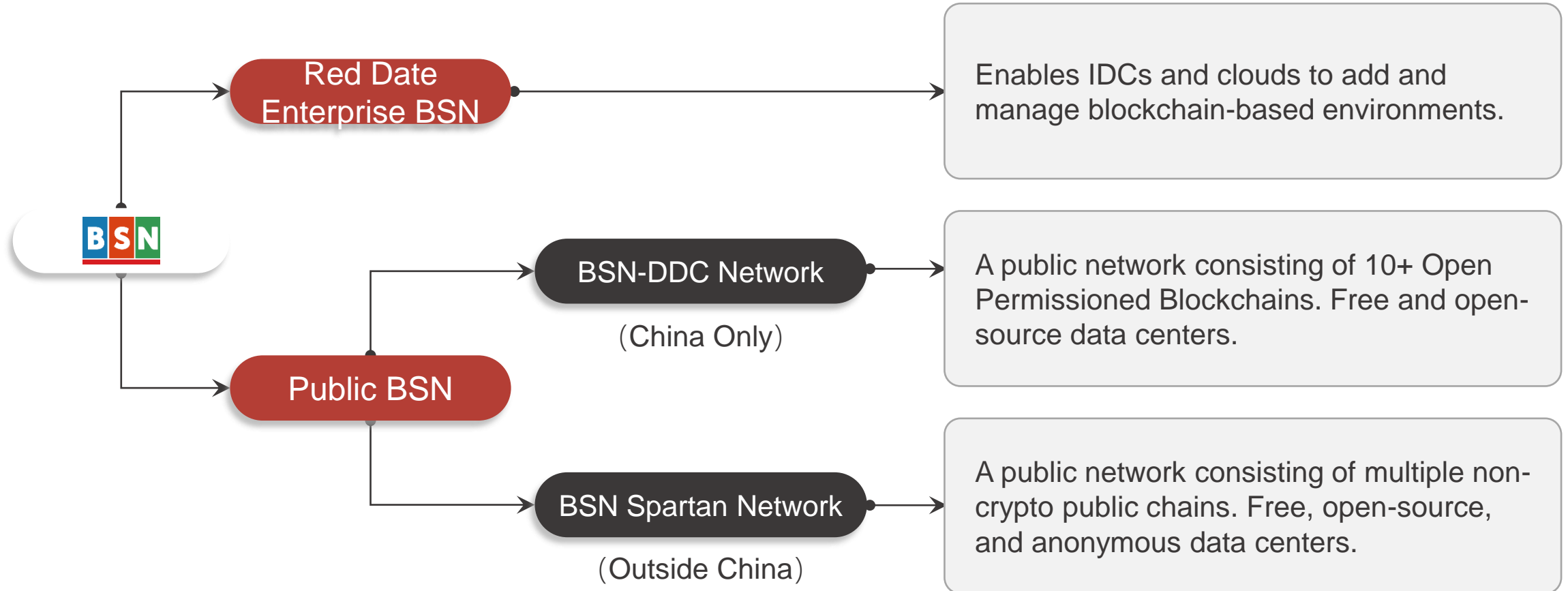
## Technical Partners



## BSN Founders



# BSN Technology Stacks



# BSN Use Cases

Dozens of applications developed and operating on BSN across a range of industries



**Copyright Protection**



**Procurement**



**E-Government**



**Asset Digitalization**



**Supply Chain Finance**



**Supply Chain Management**



**Internet of Things**



**Contract Management**



**Digital Evidence**



**Agricultural Product Traceability**



**Healthcare**



**Non-Profit**

The background features a grayscale, semi-transparent image of a dense urban skyline with numerous skyscrapers. Overlaid on this is a network of glowing white lines and nodes, suggesting a digital or blockchain network. The lines are curved and connect various points across the frame, creating a sense of connectivity and data flow.

# **Open Permissioned Blockchain & BSN-DDC Network**



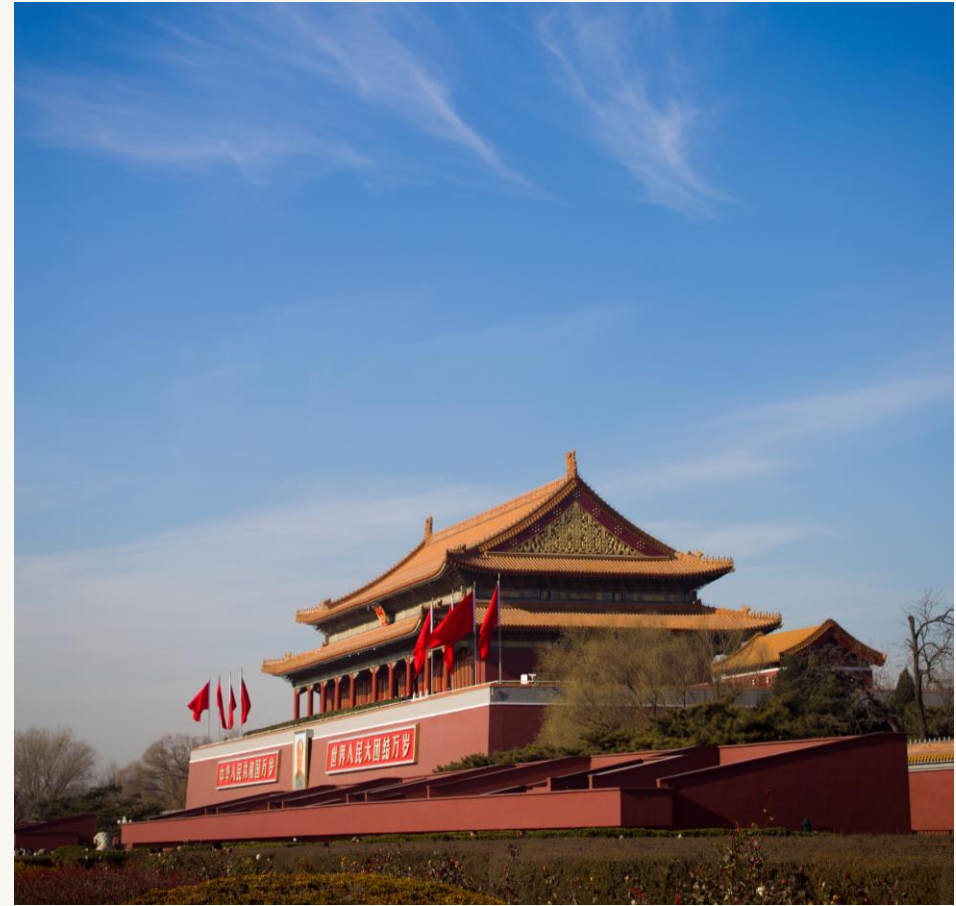
# China is Backing Blockchain Development

## Chinese President Xi Jinping

**Underscored the important role of blockchain technology in the new round of technological innovation and industrial transformation, urging more efforts to quicken development in the sector.**

*“We must take blockchain as an important breakthrough for independent innovation of core technologies, (we must) clarify the main direction, increase investment, focus on a number of key core technologies, and accelerate the development of blockchain technology and industrial innovation.”*

*- Oct .2019*



# Chinese Government Regulations Don't Permit Operating Permissionless Chains

## 01 Cryptocurrencies

Since 2017, the PRC government has banned providing financial services related to cryptocurrencies, even indirect transactions.

## 02 Initial Coin Offerings

Since 2017, the PRC government has banned ICOs and cracked down on illegal financing and fraud in the ICO market.

## 03 Crypto Exchange

China banned China's Crypto exchange and blocked overseas exchanges from providing services to investors in China via the internet.

## 04 Mining

In 2021, the China State Council Financial Stability Committee vowed to crack down on cryptocurrency mining and trading.

### 2013 - Fall

China bans banks from handling bitcoin transactions.

### 2017 - Spring

China investigating market manipulation and money laundering through bitcoin.

### 2017 - Fall

China bans initial coin offerings (ICOs). Crypto exchanges are banned in China.

### 2021 - Spring

China ban crypto mining. The government bans financial institutions and payment companies from providing crypto-related services.

### 2021 - Fall

All cryptocurrency-related transactions are illegal.

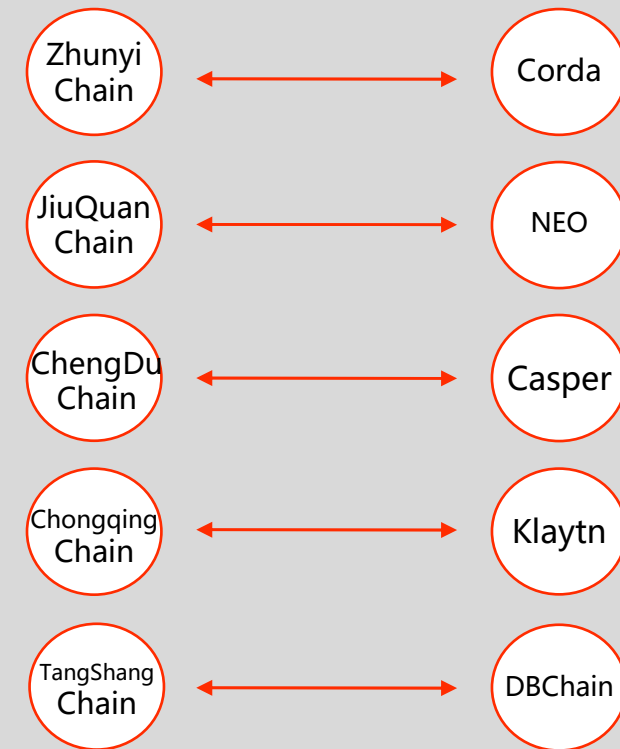
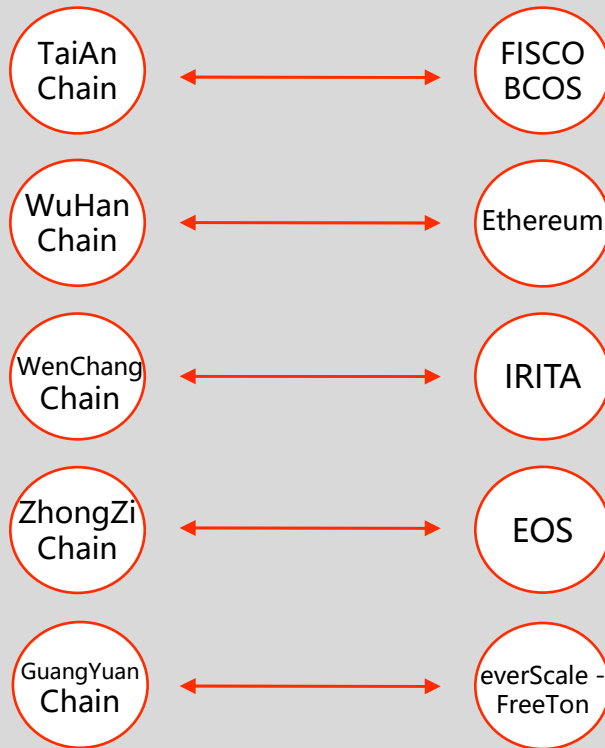
# Open Permissioned Blockchains - Examples

Open Permissioned Blockchain

Powered by

Open Permissioned Blockchain

Powered by





# **Distributed Digital Certificate (DDC) China NFT Infrastructure**

# BSN-Distributed Digital Certificate Network




## BSN Introduces NFT Infrastructure Platform in China

The platform uses open permissioned chains to comply with Chinese regulations that discourage public blockchains.

By Eliza Gkritsi · Jan 25, 2022 at 1:00 a.m. UTC · Updated Jan 25, 2022 at 1:00 a.m. UTC



 ERHAN KAHRAMAN

JAN 13, 2022

## China aims to separate NFTs from crypto via new blockchain infrastructure



Tech / Policy

## China to create own NFT industry based on state-backed blockchain infrastructure, main developer says

- The BSN-Distributed Digital Certificate does not support crypto-transacted NFTs, and will allow businesses and individuals to build apps and portals to manage tokens
- The new infrastructure has the potential to disrupt the current industry, having already attracted more than 20 partners

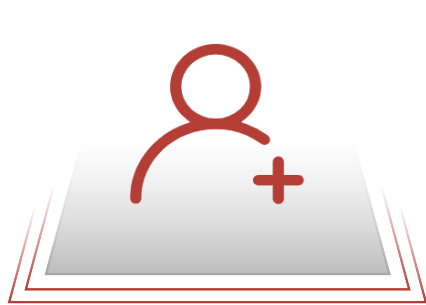
**BSN-Distributed Digital Certificate (DDC) Network** is a sub-network deployed on BSN China that **supports NFTs technology compliant with Chinese regulations**. BSN-DDC does not support crypto-transacted NFTs. Instead, it uses more than **10 open permissioned chains** to comply with Chinese laws and allow businesses and individuals to mint and pay with fiat currency.

**Open Permissioned Blockchains** are localized and forked versions of their permissionless counterparts with modifications to replace crypto gas fees with fiat currency and permissioned control over node deployment in China.

OPB Chains include **Ethereum-based** Wuhan Chain, **Cosmos-based** IRISnet Wenchang Chain, **Corda-based** Zunyi Chain, **EOS-based** Zhongyi Chain, **FISCO BCOS-based** Tai'an Chain, **Neo-based** Jiuquan Chain, **Casper-based** ChengDu Chain, **FreeTon-based** Guangyuan Chain, and more.

# BSN-DDC Network

Launched on Jan 25<sup>th</sup>, 2022; by end of Dec, the BSN-DDC Network has achieved:



Registered Platforms

**1500+**



Daily Transactions

**1 million+**



Total Wallets

**35 million+**



BSN Official DDCs

**5 million+**

# BSN-DDC Use Case- La Prairie

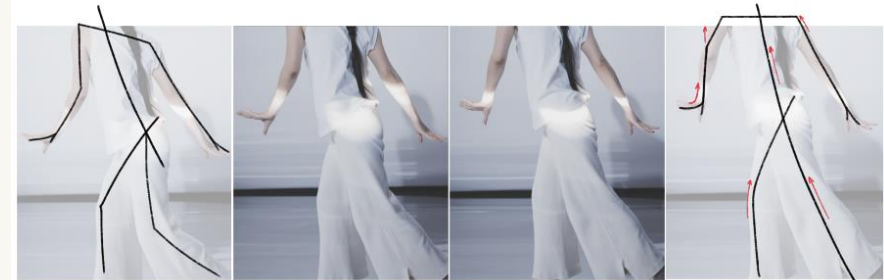
La Prairie launched a marketing campaign in Hainan airport using our BSN-DDC network (WenChang Chain). Circle Square was commissioned to head spearhead this O2O customer experience from pre-trip to post-trip. The DDC series came as a gift with purchase and customers also had engagements at the physical pop-up store when retrieving the actual DDCs. The participants were also invited to take part in the Carbon Neutralisation Programme to offset their personal carbon footprint.



Connecting offline and online customer experience through BSN-DDC network

## The Illuminated Wish

DANCING GESTURE OPTIONS



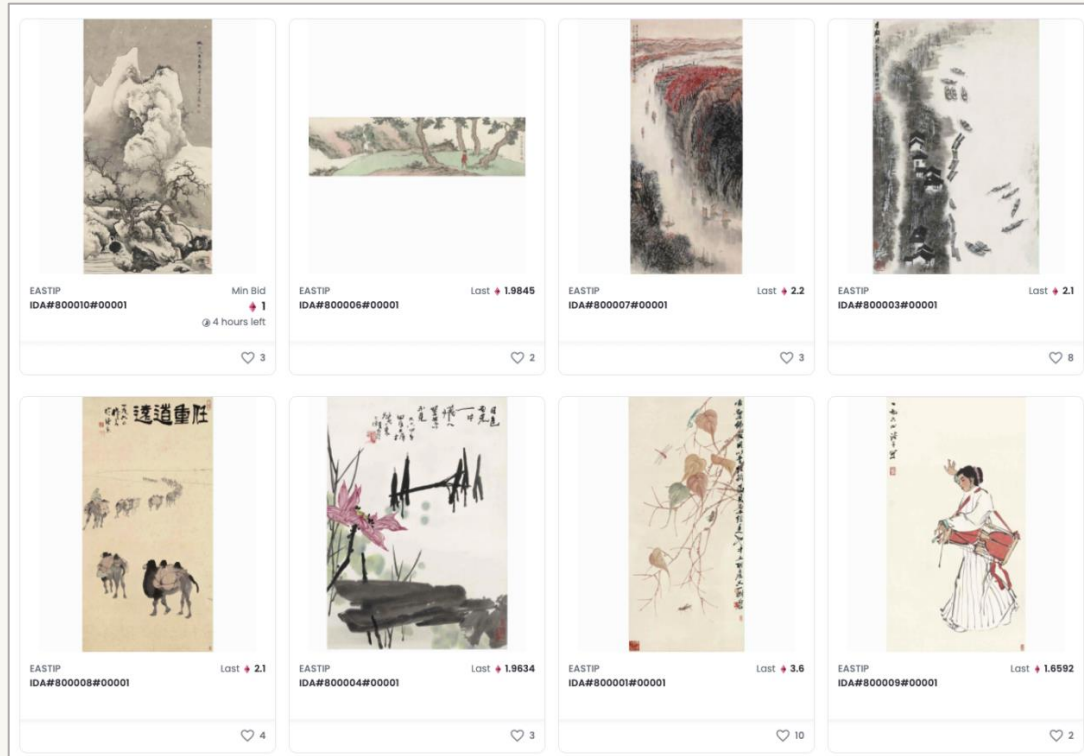
### DANCE GESTURE 1: SUSTAINABLE FUTURE

01: 17: 20 : 20 - 01: 17: 24 : 12

Starting with legs bent and arms stretched out to the hip, the dancer lifts her body upwards to bring her arms inwards and up to her chest, with one arm in front and the other behind her back.



# Distributed Digital Certificate Use Case



**NFTs on China's BSN migrate to OpenSea marketplace via BSN cross-chain and cross-border solution**

## Integrated Digital Art (IDA) Registration Service Platform

The organization selected artwork with high cultural and artistic value for limited reproduction. Wenchang Chain (powered by Cosmos) issues a unique digital artwork ownership credential with the assigned reproduction number. It guarantees the uniqueness and authenticity of the **NFT** with multi-dimensional data modeling, privacy protection, and interoperability. Allows overseas owners of artwork to transfer NFTs across different global blockchain networks.

- The transfer was made across four blockchains: WenChang Chain and IRITA Hub — both on BSN — and public chains IRIS Hub (IRISnet) and Ethereum.
- WenChang Chain is one of the first BSN Open Permissioned Blockchains (OPBs).
- Developed by Bianjie, the Shanghai-based development team behind IRISnet, and powered by Cosmos.



# BSN-DDC Use Case- 2022 Winter Olympics



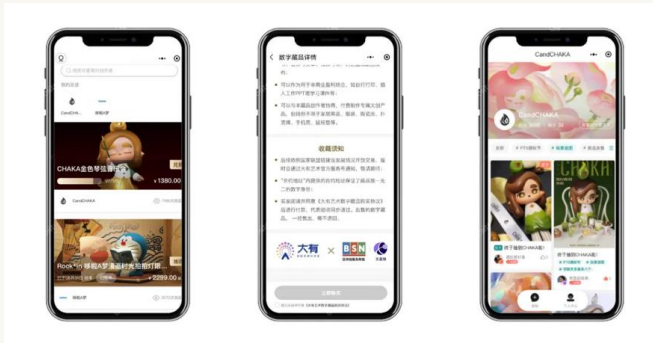
The Chinese National Culture Digital Library project was launched in April 2020. During the Spring Festival of the Year of the Tiger, the Chinese National Culture Digital Library launched a series of digital art certificate DAC titled ink Panda to welcome the Winter Olympics. The DIGITAL Art certificate DAC was launched on the BSN-DDCs WenChang Chain in 2022 during the Winter Olympics. They are a set of DDCs to commemorate the arts and culture in combination of promoting digital art.

# BSN-DDC Use Case- Wine Metaverse



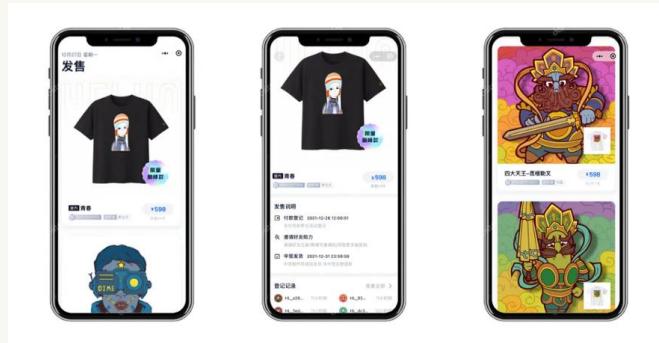
First ever metaverse globally launched on BSN-DDC's WenChang Chain in 2022. It created a platform of wine culture for wine shops and pubs to engage their clients in the Metaverse for hosting events in the Metaverse. With the immersive experience and online content communication, various activities are more flexible and diversified regardless of time zone differences. Created new business opportunities to the entire wine ecosystem. Promoting wine makers to commemorate digital collections of collectable wines. Live auction of wine can be done at the Metaverse as well to solve the authenticity issue that wine maker has been facing.

# BSN-DDC Use Cases



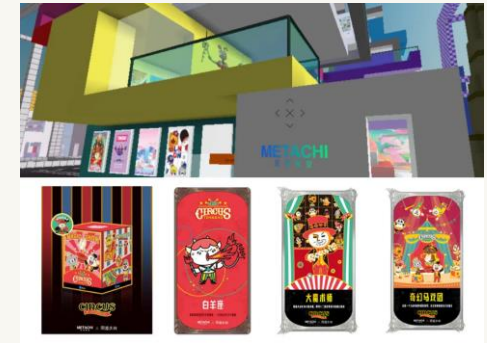
## Dayou Art

NFT artwork space connects creators and users, enables cloud transactions and artwork digitization using WenChang Chain's robust SDK and NFT technology, and innovates crossover models for traditional businesses and brands to extend the vitality and lifespan of artworks.



## Heluo App

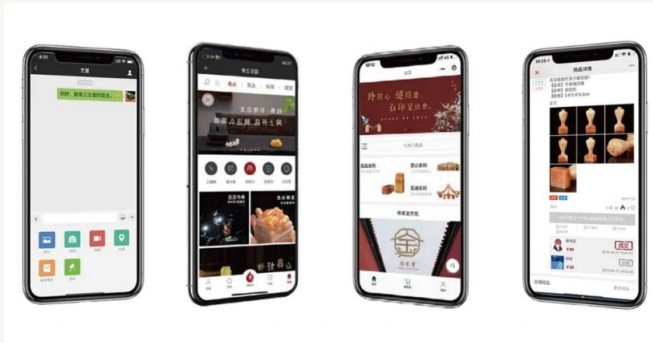
Heluo is a collection and trading platform for digital artwork based on the collectible resources on WeiPaiTang (an e-commerce platform for Chinese antique paintings). The app provides features, such as exclusively customized peripherals, a dynamic ecosystem with multiple interactions, and other features.



## METACHI

NFT brokerage & service platform that provides digital artwork solutions for intellectual property and cultural icons based on the NFT technology focuses on increasing the impact of artwork NFTs.

# BSN-DDC Use Cases



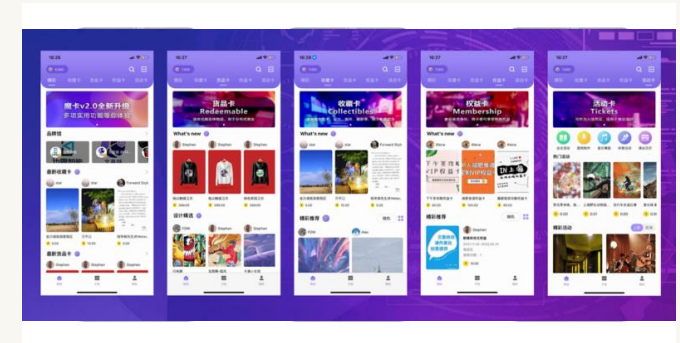
## Yiguanjia

Cloud service provider focuses on developing and implementing digitalization solutions for the culture & art industry and promoting traditional Chinese crafts & artworks using blockchain technologies.



## Yiqi NFT

A decentralized NFT platform & ecosystem for the Metaverse allows creators to upload and sell their artworks, with integrated experiences in NFT creation, collection, and trading and developing an exclusive Chinese NFT operation model.



## Moka NFT Platform & App

Focuses on NFT-powered e-commerce for pan-entertainment and lifestyle industries, allowing creative individuals and merchants to create, manage, and build a decentralized creative economy in web 3.0.

# Fee Structure


	DDC OPB Chain	DDC Gas Fee	BSN-DDC (Gas excluded)
DDC network pricing is based on gas fee incurred when processing smart contract and minting fee for each BSN DDC	Tai'An Chain (FISCO BCOS)	RMB0.05	RMB1/Mint RMB0.3/Transfer or Deletion
	WuHan Chain (Ethereum)	RMB0.05	
	WenChang Chain (IRITA)	RMB0.05	
	ZhongYi Chain (EOS)	RMB0.05	
	GuangYuan Chain (EverScale/FreeTon)	RMB0.05	
	ZhunYi Chain (Corda)	RMB0.05	
	JiuQuan Chain (Neo)	RMB0.05	
	ChengDu Chain (Casper)	RMB0.05	
	TangShang Chain (DBChain)	RMB0.05	
	ChongQing Chain (Klaytn)	RMB0.05	

# BSN-DDC Network vs. other Players in China

	BSN-DDC Network	Other Network
<b>Diversity</b>	Supports 10-15 different blockchain network Provides infrastructure only and not involved with operating or managing DDC/NFT. Non-competing	Only supports their own individual blockchain
<b>Neutrality</b>	Since all DDC chains are forks of public chains, all smart contracts and DDCs are completely transparent	Have own NFT marketplace and hence directly compete with other platforms
<b>Transparency</b>	The open consortium chains of the DDC network is based on open source	Poor transparency and only a limited interface. They control all data within their own chain.
<b>Open Source</b>	Low and standardized cost: minting fee of 1 RMB and transfer and deletion fee of 30 cents RMB and 5 cents RMB for gas fees	Vast majority of NFTs are not based on open source or limited open source as with smart contracts
<b>Low Cost</b>		Cost is high and unpredictable with profit sharing per project anywhere from 20% to 50%


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