

ICF NFT WG

Call 1

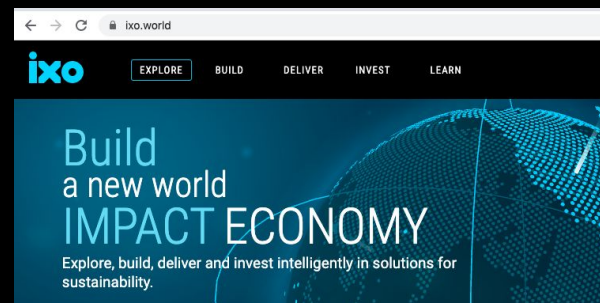
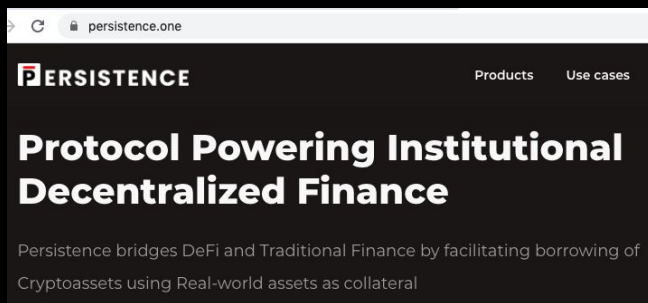


Welcome

Intro: collaboration between ICF, Persistence and ixo network



Speaker: Deepanshu Tripathi, CTO at Persistence



The Vision



Speaker: Billy Rennekamp, Grants Manager at Interchain Foundation
& founder of Clovers Network

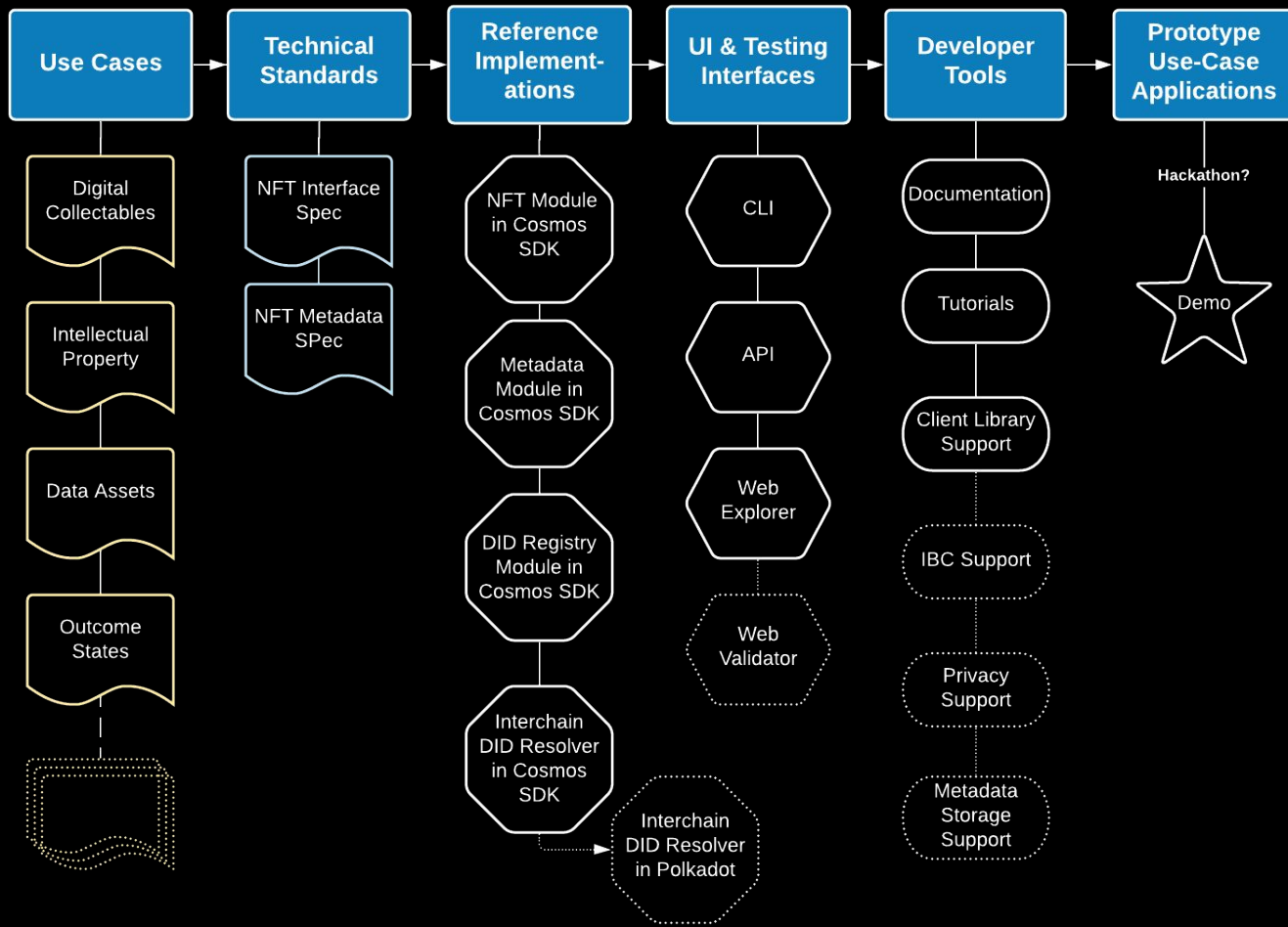
Semantic Internet Standards Fully interoperable NFT Standard
Tokenizing real-world resources
backward compatibility NFT URI (Uniform Resource Identifier)
Metadata RDF (Resource Description Framework) Client library support
Reference Implementations

Scope and Objectives



Speaker: Shaun Conway, founder of ixo foundation

Doc° & Tutorials Reference UI & Testing Interface
Build Community Consensus
Reference Use-Cases Technical Specifications
Reference Implementations Client library support
Prototype DApps



NFT Landscape



Speaker: Adrien Berthou, ixo foundation

Non-Ethereum: NFT Standards
are still nascent

- BinanceChain: BEP-7
- Ontology: OEP-5
- NULS: NRC-721
- EOS: Unico
- EOS: dGood
- ...

NFT Landscape

Ethereum: advanced standards
architected to various use-cases

- ERC721: Non-Fungible Token Standard
- ERC-1155: Multi Token Standard
- ERC-994: Delegated NFT Standard
- ERC-1410: Partially Fungible Token Standard
- ERC-809: Renting Standard for Rival, NFTs
- ERC-998: Composable NFT Standard
- ...

NFT Landscape

Example Usage of Ethereum NFT Standards

1/ ERC-721 creates an NFT for your house.

2/ ERC-809 creates a standard set of commands allowing you to rent said house.

3/ ERC-1201 tokenises this right, and in a practical sense, means the leaseholder could sub-lease your house, simply by exchanging the token.

“NTF Standards used as a tech stack”

NFT Landscape

NFT Metadata

Metadata to represent on-chain vs. off-chain → recommended on-chain

Metadata extension:

- optional for ERC-721 smart contracts
- only includes methods: name, symbol and tokenURI
- tokenURI method indicates metadata location (returns a public URL)

Metadata included is arbitrary to each project

NFT Landscape

It all started in 2017 with colored coins on the Bitcoin Network, then on Ethereum.

Estimated current NFT secondary market: \$2-3M per month











While most of the experiments in NFTs have been in collectibles and games, other use cases gradually are coming online as well:
Intellectual Property, Decentralized Naming Services, Ticketing Services...

NFT Landscape

← → ↻ nonfungible.com/market/history

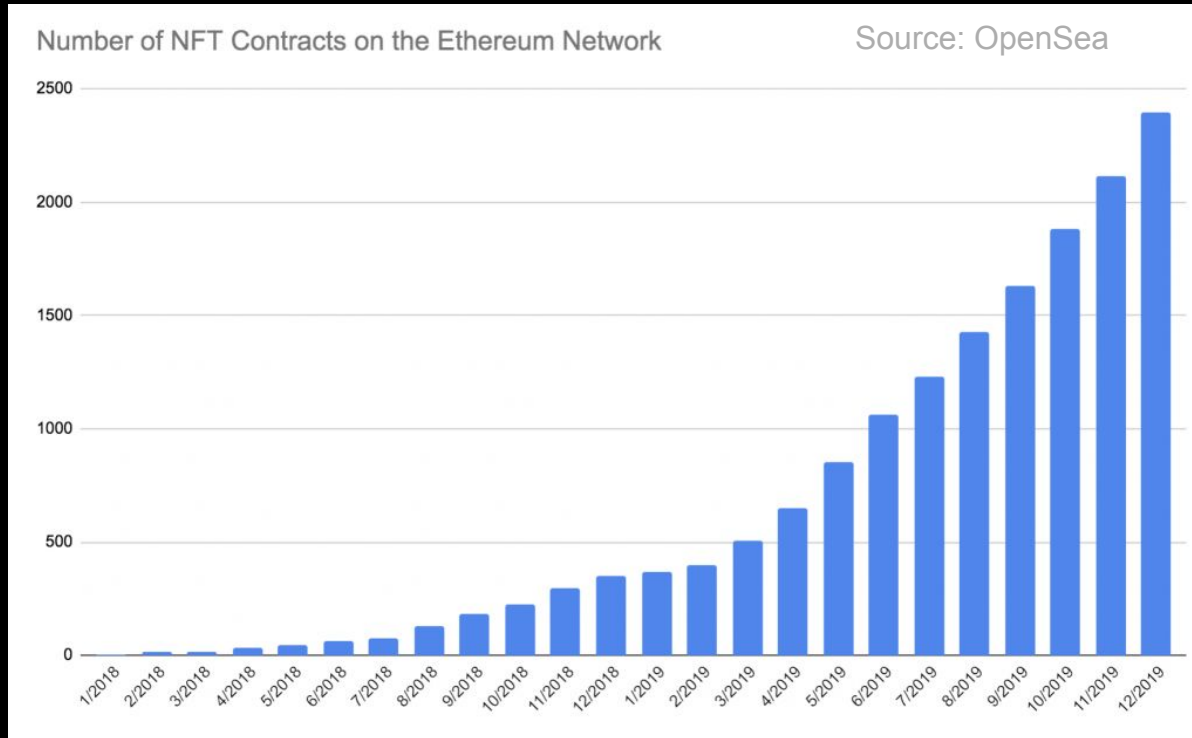
NonFungible 🔍 Search for NFT project

Home Market History Blog About us Advertise! Get Listed!

#		Name	Volume 7d (USD)	Last 7d sales	Volume all time (USD)	All time sales
8		CRYPTOKITTIES	\$30,607.71	1,680	\$37,219,024.33	2,801,169
5		DECENTRALAND	\$82,322.37	105	\$24,796,944.73	76,573
18		MYCRYPTOHEROES	\$6,915.98	57	\$4,872,445.91	54,478
19		GODS UNCHAINED	\$6,823.36	43	\$3,829,430.92	550,703
7		FOAM SIGNAL	\$33,702.43	24	\$3,320,265.04	2,275
4		SUPERRARE	\$98,404.56	130	\$2,361,045.48	9,659
2		ETHEREUM NAME SERVICE	\$122,170.68	4,023	\$2,219,347.68	64,914
10		CRYPTOVOXELS	\$19,412.23	35	\$2,116,698.13	6,345
1		SORARE	\$251,507.84	3,182	\$1,799,078.06	34,656
12		SOMNIUM SPACE	\$13,290.45	9	\$1,693,111.96	2,306

Previous Page 1 of 13 Next

NFT Landscape



NFT Landscape

	A	B	C	D
1	Spec. Field vs Ability	Category	Sub Category	Crypto Native?
2	Ability	Divisibility	Full vs fractionalized ownership	n/a
3		Time Limitation	Rent and Lend	n/a
4		"Pingback" protocol	Conditionally send notifications to creator/owner	n/a
5		Co-Dependency	Conditionally send notifications between two NFTs	n/a
6	Specialized Field	Gaming	Virtual Items and Currencies	yes
7		Gaming	Virtual Collectibles: cards, characters	yes
8		Art	Painting, Sculpture, Digital Art	no
9		Real Estate	Land, Property	no
10		Supply Chain	Food, Luxurious Goods	no
11		Intellectual Property	DRM, Patents	no
12		"Negative value" assets	Loans, burdens and other responsibilities	jein
13		Finance	TradFi - Traditional Finance	no
14		Finance	CeFi - Centralized Crypto Finance	jein
15		Finance	DeFi - Decentralized Finance	yes
16		Certifications	Academic credentials	no
17		Identification	Medical History, Education	no
18		Authentication	Non-Custodial Login, Reusable KYC	yes
19		Ticketing Systems	Music events, Sports events, Conferences	no
20		Domain Names	Blockchain Name Services	yes
21		Geolocation	Point Of Interests, Dynamic Location	yes
22		Sustainability	Claims, Impact Outcome	no
23		Sustainability	Carbon offsets/credits	no
24		Contractual Agreements		no
25		Revenue-share rights		no
26				

Lightning Presentations



Speaker 1: Jeffrey Hu, Director for Research at Irisnet



Speaker 2: Harm van den Dorpel, Co-Founder of Left Gallery



Speaker 3: Gregory Landua, Co-Founder of Regen Network



left gallery is an online gallery.
we sell files, such as screensavers, videos,
desktop applications, typefaces.
artificial scarcity of these editions is achieved
using blockchain technology. these files are
contemporary art and we feel deeply
integrated with the art world.

<https://left.gallery>

Documenting Canonical Use-cases



Speaker: Adrien Berthou, ixo foundation

According to the [Scope Of Work](#):

1/ Landscape Research

[existing standard + use case investigation](#)

2/ Reach Out to Cosmos Community, Crypto & non-Crypto Community

[members + reached out](#)

3/ Participatory Use Case Investigation

[interview calls + formular](#)

Further Topics



Speaker: Karthik Bupathi, Persistence

Working Group Membership: core vs public

Agenda For Future Calls [here](#)

Communication Tools: medium, discord, core group TG

Consider using tags on medium to drive traffic across projects?

Thank You

Thank you all for attending this call

Keep in touch on **Cosmos Discord**: channel “nft-and-metadata”

[Discord link](#)

Next Call: Sep. 18, 2020

 **PERSISTENCE**


INTERCHAIN
FOUNDATION

ixo