

**TAL
TECH**

NFT MARKETPLACE PLATFORM DEVELOPMENT ON ELROND BLOCKCHAIN

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STRUCTURE

- Abstract
- Introduction
 - Problem (inefficient blockchain platforms on market)
 - Blockchain generations
 - Elrond specifics (latest, third generation)
 - Solution: NFT Marketplace on Elrond for community
- Background
 - Borderless NFT art, marketplaces, existing solutions
- Work methodology and methodology
 - Team, Git, Github, Team communication
 - Solution: frontend, backend, infrastructure, CMS
- Business model
- Analysis: Transactions, efficiency, costs
- Summary
- Acknowledgements

BLOCKCHAIN EFFICIENCY

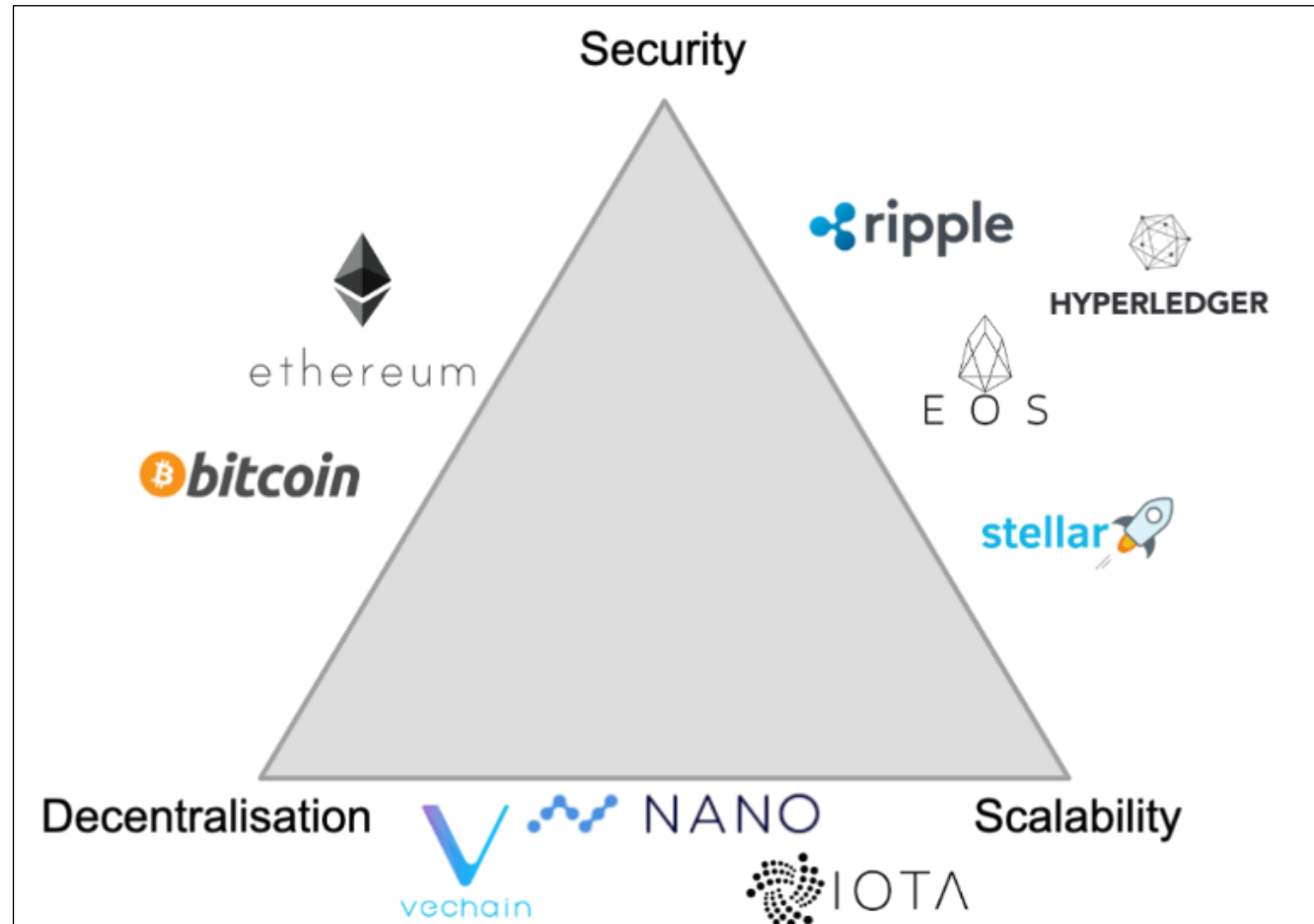
Comparison of Annual Economic Costs

	Gross Yearly Cost
Gold Mining	USD\$105 billion
Gold Recycling	USD\$40 billion
Paper Currency & Minting	USD\$28 billion
Banking System Electricity Use	USD\$63.8 billion
Banking System (All Expenses)	USD\$1870 billion
Bitcoin Mining	USD\$0.79 billion

Comparison of Annual Environmental Costs

	Energy Used (GJ)	Tonnes CO ₂ Produced
Gold Mining	475 million	54 million
Gold Recycling	25 million	4 million
Paper Currency & Minting	39.6 million	6.7 million
Banking System	2340 million	390 million
Bitcoin Mining	3.6 million	0.6 million

BLOCKCHAIN TRILEMMA



ELROND

Important achievements:

- First live blockchain architecture with state sharding
- 15,000 TPS(scales > 100kTPS), 6s latency, \$0.001/tx
- Maia App: buy, store, earn, pay EGLD, BTC, ETH, BNB
- Smart Contracts, Staking & Delegation, Tokens
- Validated through multiple audits from Trial of Bits & others

FEES

Your key figures

Number of transactions / day

Transaction volume / day in \$

Calculate

Your transaction costs

Technology	cost / day	cost / month	cost / year
Elrond blockchain	0.07 \$	2.15 \$	26.10 \$
Credit cards (Visa / Mastercard)	195.50 \$	5,865.00 \$	71,357.50 \$
Paypal	436.50 \$	13,095.00 \$	159,322.50 \$
Amazon	436.50 \$	13,095.00 \$	159,322.50 \$
Klarna	495.00 \$	14,850.00 \$	180,675.00 \$
WePay	436.50 \$	13,095.00 \$	159,322.50 \$
WooCommerce	436.50 \$	13,095.00 \$	159,322.50 \$

Your savings

Elrond compared to...	per day	per month	per year
Credit cards (Visa / Mastercard)	195.43 \$	5,862.85 \$	71,331.40 \$
Paypal	436.43 \$	13,092.85 \$	159,296.40 \$
Amazon	436.43 \$	13,092.85 \$	159,296.40 \$
Klarna	494.93 \$	14,847.85 \$	180,648.90 \$
WePay	436.43 \$	13,092.85 \$	159,296.40 \$
WooCommerce	436.43 \$	13,092.85 \$	159,296.40 \$

Sign in

How to sell

繁 | 簡




CHRISTIE'SAuctionsPrivate SalesLocationsDepartmentsStoriesServices

Search by lot or keyword

COVID-19 Important notice


< 25 Feb - 11 Mar 2021 | Online Auction 20447 Beeple | The First 5000 Days

< Prev Lot 1 Next >



+

7 More



*

Beeple (b. 1981)

EVERYDAYS: THE FIRST 5000 DAYS

Price Realised

USD 69,346,250

Estimate unknown

Closed: 11 Mar 2021

Save

Share

MARKET

Top five NFT marketplaces by value

NFT marketplace	Volume since launch
OpenSea	\$10.35 billion
Axie Infinity	\$3.06 billion
CryptoPunks	\$1.59 billion
NBA Top Shot	\$726.55 million
Solanart	\$518.23 million

Source: Dapp Radar

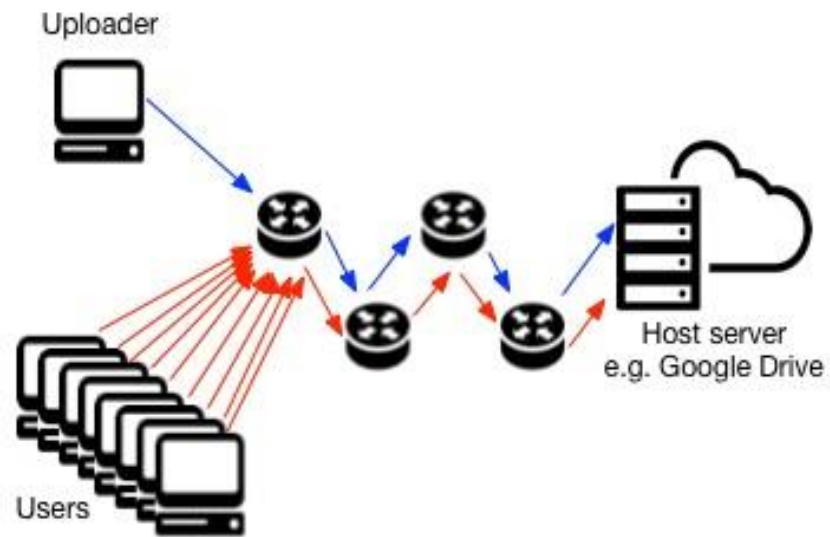
MARKET

Top five NFT marketplaces with the most traders

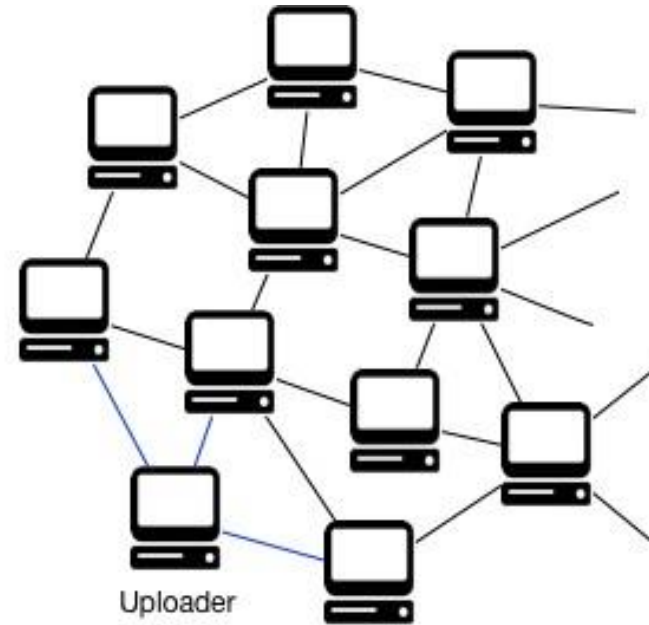
NFT marketplace	Number of traders
Axie Infinity	1.1 million
AtomicMarket	793,514
OpenSea	637,296
NBA Top Shot	473,451
Solanart	134,544

Source: Dapp Radar

IPFS



(a) Centralized system



(b) IPFS

Search items, collections, and accounts

Explore


Stats

Resources

Create

115

Bored Ape Yacht Club



#3547

Owned by [ApelovesApe](#) 20.5K views 115 favorites

Sale ends December 23, 2021 at 11:50pm EET

Current price

85 (\$343,774.00)

Price History

All Time

All Time Avg. Price

20.58

Description

Created by [BoredApeYachtClub](#)

Properties

About Bored Ape Yacht Club

Item Activity

Filter

Sales

Transfers

Clear All


Event	Price	From	To	Date
Transfer		C5IA4I	ApelovesApe	3 days ago
Sale	59.99	C5IA4I	ApelovesApe	3 days ago
Transfer		maxnaut	C5IA4I	5 days ago
Sale	0.75	maxnaut	C5IA4I	5 days ago
Transfer		Coco_Bear	maxnaut	7 months ago



Republic Realm
@joinrepublic_re



Congrats to the new owner of The Metaflower NFT Super Mega Yacht on making metaverse NFT history. This auction marks the highest price paid for a [@TheSandboxGame](#) NFT asset at 149 ETH (\$650,000), and an exciting time for every member of the Fantasy Community.



The Metaflower Super Mega Yacht

Owned by [The_Fantasy_Collectio...](#) 2.0K views 52 favorites

Highest offer

149 (\$649,853.07)

[Make offer](#)

Price History

Listings

Offers

Price	USD Price	Floor difference	Expiration	From
149 WETH	\$649,853.07	2708990.9% above	In 7 days	35DOCA

Created by [The_Fantasy_Collectio...](#)

Description

2:19 AM · 24 нояб. 2021 г. · Twitter Web App

COMPETITION

MOON

Login

ElrondDucks

QUACK-101e02

Manage / Sell


Volume traded
198.39 EGLD

Sale ATH
5.70 EGLD

On sale
105

Sort by: ⚙️ New ^

Anon




QUACK-101e02

Duck #2237

0.8 (229.16 \$)

Buy now

Anon




QUACK-101e02

Duck #882

1 (286.45 \$)

Buy now

Anon



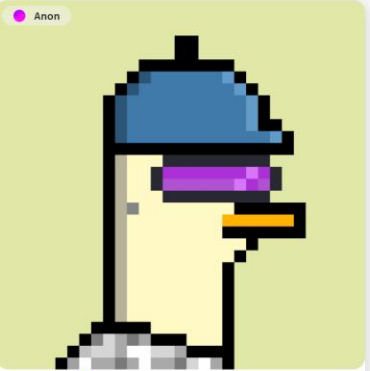
QUACK-101e02

Duck #2787

1.2 (343.74 \$)

Buy now

Anon




QUACK-101e02

Duck #2799


3.99 (1142.94 \$)

Buy now

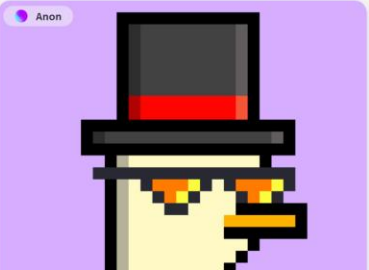
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Anon



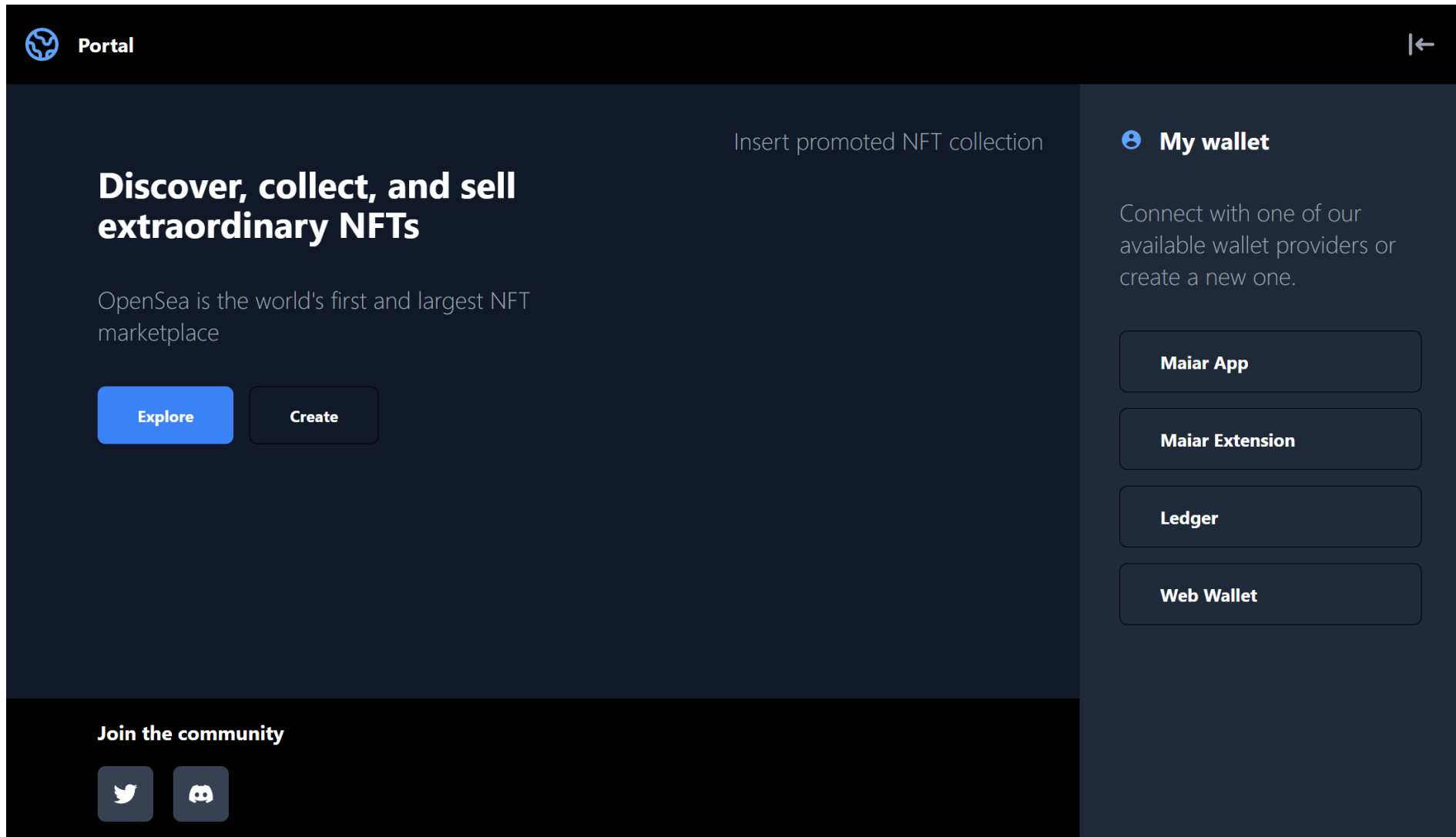
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Anon



PROTOTYPE



**TAL
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TALLINN UNIVERSITY OF TECHNOLOGY

TALTECH.EE/EN