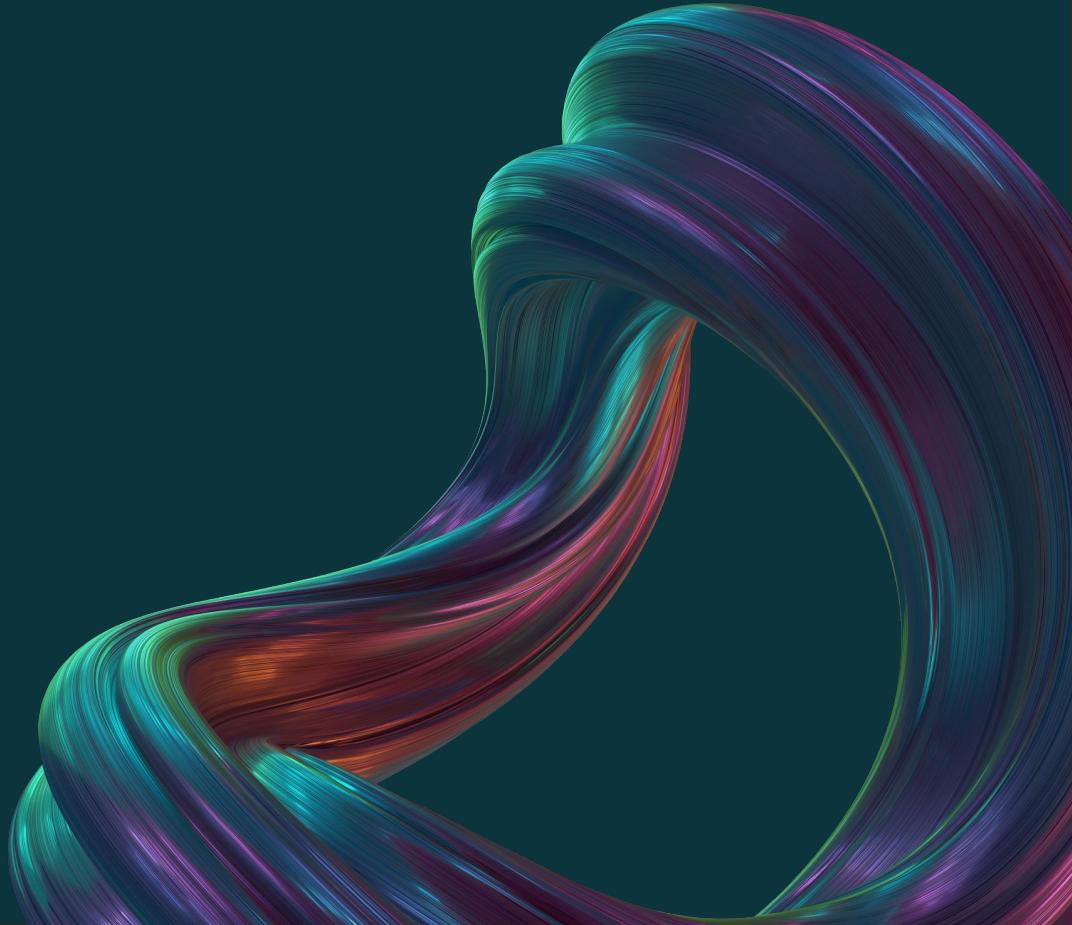




# Ecosystem Report

Q4 and Annual 2021



“

2021 was quite a year for Zilliqa. We fired on all cylinders – achieving milestone after milestone, from our booming DeFi ecosystem to laying the foundation for a solid creator economy, not to mention Metapolis. This is a testament to everyone's efforts and a sign of things to come. But we haven't reached anywhere close to our peak yet!

Each team was invaluable to the success we've seen. The platform and Scilla conducted numerous upgrades, eyeing constant improvement and network excellence, which in turn helped the growth team leverage these technical USPs in their outreach and when building custom tokenomics for partners. Marketing and sales continued to expand our visibility using a multi-channel approach - dev outreach, community, social media, news, placements, and thought leadership content, just to name a few.

**So let us take this opportunity to celebrate, learn and recharge for 2022.**

2022 will be characterised by '**creative growth**' – marrying the tech we're solidifying thanks to new standards, with the exciting possibilities we're seeing in the metaverse and NFT domain. Our expanding leadership and team will join hands with our supportive community to take Zilliqans (and many others!) on an exciting ride. I see us going from strength to strength to achieve everything we've envisioned and promised – and more.

**Dr. Ben Livshits, CEO, Zilliqa**



# SECTIONS

- 2021: Milestones
  - Stepping up technology
  - Empowering decentralised finance
  - Reimagining entertainment
  - Forging inclusivity
- ZIL as an asset
- Ecosystem Development
  - Market Infrastructure growth
  - Community growth
- Network usage
- Token trading activities



# ANNUAL MILESTONES

## Stepping Up the Technology

### Mainnet Upgrades

In 2021, we released 10 new versions of Zilliqa's core protocol. We improved the network's robustness, networking reliability and memory optimisation.

Additionally, we introduced new data structures and APIs which enabled us to build ZilBridge.

### New NFT standard

We've all witnessed the NFT market explosion in 2021. At Zilliqa, we introduced a new NFT standard, ZRC-6. This new standard enables new functionalities such as conditional royalty, dynamic royalty and royalty DAO.

Additionally, we have introduce batch operations for minting, burning and transfers. These can save time and improve gas efficiency.



# ANNUAL MILESTONES

## Empowering Decentralised Finance

### ZilBridge

The much anticipated ZilBridge went live on Zilliqa's mainnet in September 2021. It is a milestone for Zilliqa and unlocks numerous opportunities in Zilliqa's DeFi ecosystem development in the future. To date, more than US\$60M of ETH assets have been bridged over to the Zilliqa mainnet and a volume exceeding US\$94.7M<sup>1</sup> was transacted by the end of 2021.

### Pillar Protocol

Pillar Protocol was officially launched during Q3 2021. As one of the first few lending protocols built on Zilliqa, Pillar is governed by gZIL, the governance token built for Zilliqa. It enables users to borrow by depositing ZRC assets approved by gZIL holders as collateral. As of end of 2021, Pillar Protocol has approximately US\$441K of collateral locked in over 270 vaults.

**Notes:** 1. Estimation only.

**Reference:** BlockBorg, ZilStream, Pillar Protocol.



# ANNUAL MILESTONES

## Reimagining Entertainment & Engagement in the Creator Economy

### NFT Projects & Marketplaces

Throughout 2021, various NFT collection projects and marketplaces were launched on Zilliqa, including DeMons, The Bear Market, ZilDuck, Unicute, Okimoto, Token Traxx and Arky.

According to Arky, there were 30 NFT collection projects built on Zilliqa with a total trading volume of around ZIL 3.84M<sup>1</sup> in 2021. The Bear Market has been the most popular NFT collection on Zilliqa in 2021 with a trading volume of ZIL 1.66M.

### Creators & Fans

We have developed a plethora of platforms for digital art creators, collectors and fans over the past year. In June 2021 we launched ZILStars, a marketplace for football stars NFTs. More than US\$2.65M<sup>2</sup> worth of ZILStars NFTs were transacted in the resale market in 2021. In December, XCAD Network, the leading influencer tokenisation platform, launched the XCAD DEX on Zilliqa and attracted over US\$40M of liquidity by mid-January 2022.

Gaming and esports will form a core part of our partnerships outreach and Metropolis engagement in 2022.

**Notes:** 1. Data adjusted to reflect the total trading volume until 7th Jan 2022. 2. Estimated through the transaction records on ZILStars website.

**Reference:** Arky. ZILStars. ZilStream.



# ANNUAL MILESTONES

Platform compatibility and interoperability

## ERC-20 Token Swap Re-enabled by Cross-chain bridge

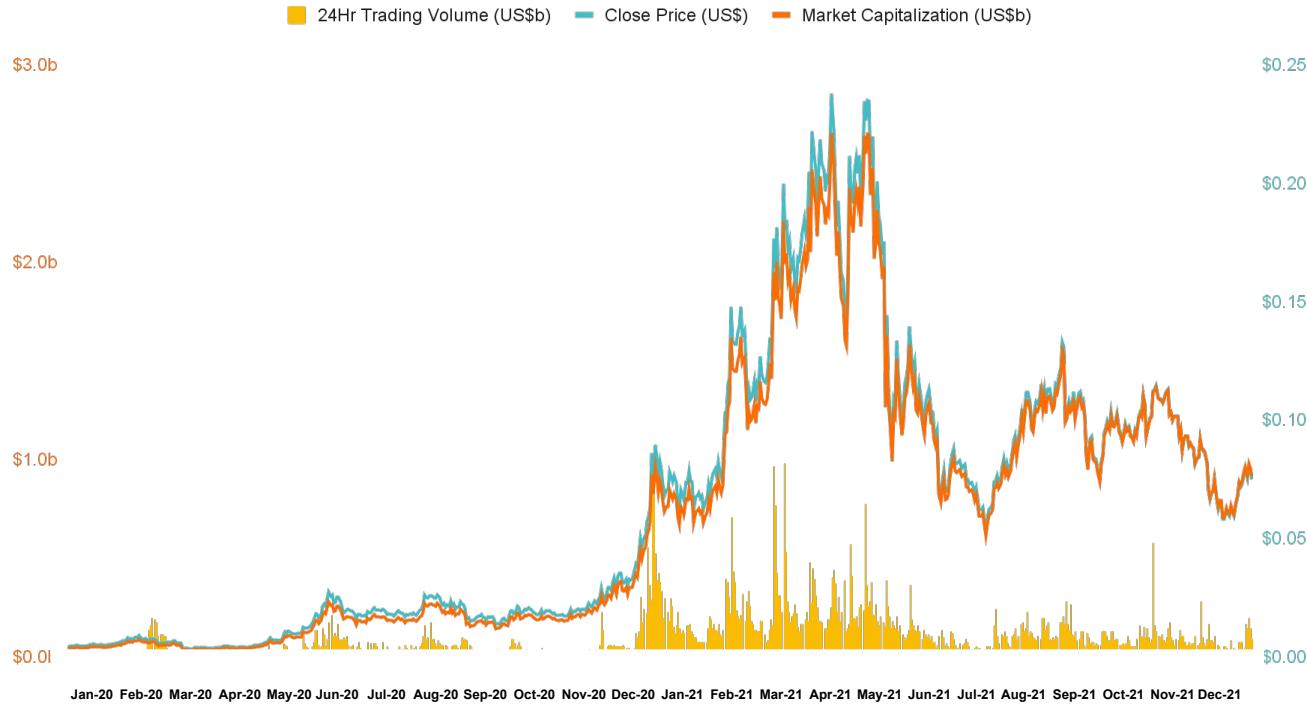
Back in February 2020, we concluded the token swap from ERC-20 to native mainnet ZIL. About 213M interim tokens were left unswapped.

With the cross-chain bridge, we devised a new mechanism which has re-enabled the token swap, allowing token holders a second chance at swapping their token into native mainnet ZIL. To date, around an additional of 47M interim ERC-20 ZIL has been swapped and burnt.



# ZIL AS AN ASSET

Compared to 2020, ZIL token's 2021 annual average price, market capitalisation and 24H trading volume grew by 5.7x, 6.4x and 1.8x, respectively.



**Note:** "\$" means "US\$".  
**Reference:** CoinMarketCap.

# ZIL AS AN ASSET

ZIL has been able to consistently outperform the benchmark cryptocurrencies in 2021. The annual average of 24H trading volume growth of ZIL in 2021 was 4.3x versus that of BTC and 2.0x that of ETH.

Performance Metrics	ZIL	BTC	ETH
2021 VS 2020			
Annual Ave. Price Growth (%)	574%	327%	803%
Annual Ave. Market Capitalisation Growth (%)	638%	334%	842%
Annual Ave. 24H Trading Volume Growth (%)	184%	42.8%	91.5%



## NFT

Marketplace	Dr.Death's Redemption	The Perfect NFT
Mintable	Dope Crew Friends	Soulful Saint
Token Traxx	Elements of Zilliqa	NFT Natalie
Zilliqa Marketplace	Space Monsters	Zillicons
Arky	Soul Ape	ScarPunk
OkiMoto	Movie Legends	Zilmorphs
Collection	Music Stars	Wallet
Unicutes	Oasis of Amazing Creatures	Sparda Wallet
Demons	MAD M	dApp
ZILDuck	The Dirty Mind	NFT Traders
Elons	ZilSmoothies	Zilliqa Royale
The Bear Market	8 Bit Richards	Marketing
Greenbeanz	ZilShrooms	The NFT Magazine
Envizion	ZIL SNEKS	

## Others

dApp	Firestack	Gitcoin	Interoperability	Marketing
Carbon Proofs	Brightree	Singapore Blockchain Association	Crypto APIs	SocialPay
PackagePortal	Human Protocol	OpenNodes	Chainlink	Zilds
Zeydra	Aqilliz	ACCESS	PolyNetwork	E-Commerce
Coral Reef	Blockchain Solutions	Asosiasi Blockchain Indonesia (ABI)	Compliance	Crypto Merch
SoundArio	zil-cli	ZIHive	Unblock Analysis	Yoda
Hybridverse	Tora (TEEX)	Learn Blockchain	Notabene	Cryptocart
Review Capital	Education	Learn Scilla	Chain Security	Travala
Consult Crypto	Tribe	HASHADEMY	Torus	Shopping.io
MyMessage	Blockchained India	CryptoCoinsCoach	Magic	SDK
Blockchain Solutions	Kerala Academy	DID	ChainSecurity	Vanilla Scilla
Blizchain	Ivan On Tech	Unstoppable Domains	QuantStamp	Composite IDE
SeaCabbie	NUM Cambodia	TyronDID	Treasure	Data Timestamp
Multi-sig wallet	Republic Polytechnic Singapore	Moonlight	Elliptic	

## DeFi

DEX	Zilliqa Bridge Button	unMineable	Stablecoin
Swicheo	Unifees	Comining	Mambo
ZilSwap	Carbon	CloPool	Chocolate Stablecoin
Zyro	PancakeSwap	Insurance	Yield
	Cerchia	Everstake	Milky BabyStable
Uniswap	DAO	Autofarm	gZIL
ViperSwap	Pillar Protocol	Mustpool	
Bolt	DxSALE	Hey Affie	
Incognito	Mining Pool	ZillBridge	
Gary	Ezil	Rustpool	Launchpad
Shark	Unstoppable Domains	Token Talks	ZILO
Token Talks	QuantStamp	ZILALL CFT	K1Pool
ZILALL CFT	Composite IDE		Okipad

## Finance

Wallet	MATH Wallet	Blockchain ETL	CommX	Defillama	Invopay	WazirX	MEXC
Zeeves	Uphold Wallet	LongHash	Hg Exchange	Dapp.com	NowPayments	TokoCrypto	OKCoin
CCTip	MoonPay	Ashlar	Lumiere	CryptoSlam	Stablecoin	Bithumb	AscendEX
Frontier	Fiat-Gateway	Messari	Propine	Blockborg	RupiahToken	Bittrex	BKEX
Moonlet	Xanpool	LunarCRUSH	Access	Vulkania	zUSDT	Crypto.com	FMPFW
Zhip	Transak	Hillrise Group	Statistics Tracker	Liquidity & Lending	XSGD	SwapZone	Custody
ZilPay	CoinHako	House of Chimera	Viewbase	Wintermute	Exchange	SwapSwap	Onchain Custodian
Zillet	CEX	Explorer	Dapp-Review	FXCH	Binance	Changely	Copper
Ledger	Trading Tool	Viewblock	Zilgraph	Genesis	KuCoin	FTX Exchange	Investment
EQUAL	Coinrule	minerstat	Staking Rewards	DV Trading	OKEx	7B Crypto	Zilliqa Capital
Trust Wallet	Hummingbot	MiningPoolStats	Blockspot	Payment	Huobi	BitYard	Valkyrie Investment Inc
Atomic Wallet	Research	Devex	Crypto Fees	Xfers	Bitfinex	Demex	Bridged Asset
Button Wallet	Flipside Crypto	Tokemization	ZILWatch	MugglePay	Indodax	ByBit	zWBTC
Guarda Wallet	Emanthan Research	HydraX	ZILStream	StraitsX	Upbit	LCX	zETH

## Metaverse

Developer	Chand Network
	Zilliqa
Platform	Zilliota
	Metapolis
DEX	Cososwap

## Esports

Ninjas in Pyjamas
RRQ

## Gaming

dApp	RoboUniCats
	Zillottery
Platform	RedChillies
	DragonZIL
DEX	ZilChess
	zilFlip
Developer	Heroes of Lowehelm
	Hashewap
Marketplace	BattleMechs
	ZAME

## Creators &amp; Fans

Platform	Xcademy
	UFFS
dApp	ZilWall
	Pele Network
DEX	XCAD DEX
	ZilStars



# MARKET INFRASTRUCTURE GROWTH: NEW LISTINGS Q4

As of end of 2021, ZIL and selected ZRC tokens are available on 45 major exchanges, wallets and crypto-fiat gateways. Besides ZIL, the recently launched LUNR token has been listed on 4 more exchanges during Q4 2021, as listed below:



Launch of the ZIL Trust and a dedicated staking node



ZIL staking on Binance



ZIL listed on ByBit



ZIL listed on Bityard



ZIL listed on LCX



Lunr listed on MEXC



Lunr listed on OKCoin



Lunr listed on AscendEX



Lunr listed on BKEX

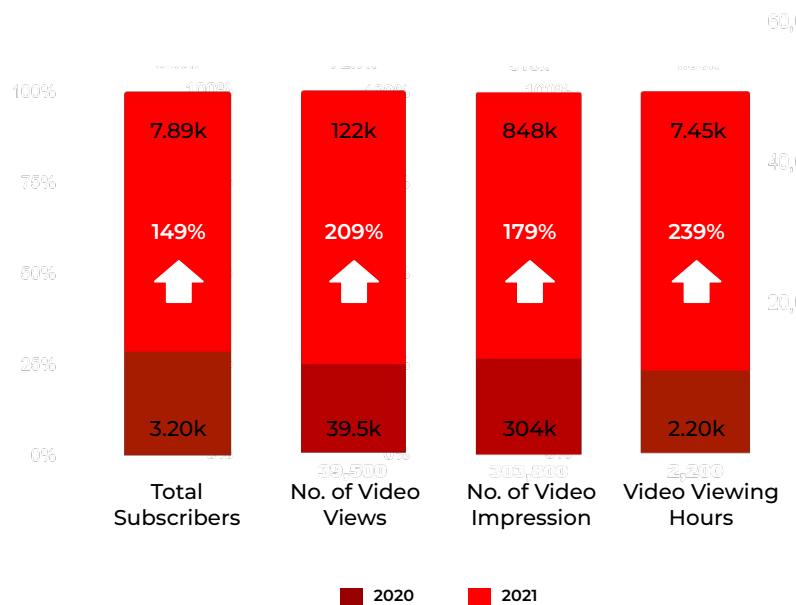




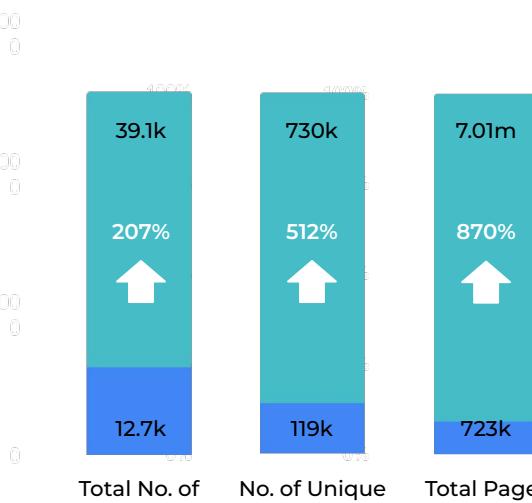
# COMMUNITY GROWTH: MAJOR PLATFORMS

Over the past year, the Zilliqa community and engagement activity on major social media platforms have more than doubled in comparison to 2020.

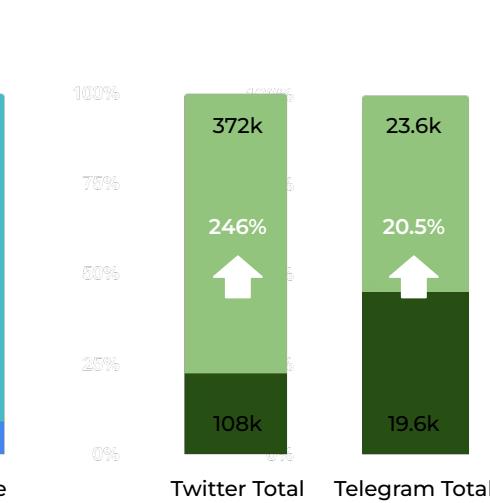
**Total YouTube Channel Subscribers and Viewing Activities in 2021 VS 2020**



**Total SubReddit Users & Views in 2021 VS 2020**



**Total Twitter & Telegram Subscribers by the End of 2021 VS 2020**



# COMMUNITY GROWTH: TELEGRAM-BASED ZEEVES

Zeeves, the reward and engagement tool created for the Zilliqa community on Telegram, processed ZIL2.52m (US\$290k) in 2021.

## User Activity Statistics Annual 2021

**2.52M ZIL**

Transacted in  
Total

**6.22K**

No of  
Transactions

**7.30K**

Total Registered  
Users

**18.1**

Average  
DAU

## User Activity Statistics Q4 2021

**590K ZIL**

Transacted in  
Total  
+20.2% VS Q3 2021

**973**

No of  
Transactions  
+6.26x VS Q3 2021

**2.44K**

Newly Registered  
Users  
+6.34x VS Q3 2021

**81.5**

Average  
DAU  
+2.48x VS Q3 2021



# COMMUNITY GROWTH: NEW PROJECT HIGHLIGHTS Q4

115 live projects were built on Zilliqa by the end of 2021. 10 more exciting new blockchain projects featuring DeFi, NFT and gaming have only just launched in Q4 2021:



HeyAlfie is a smart dashboard for crypto users to manage, invest and borrow digital assets all in one place.



Tyron SSI Protocol is a self-sovereign identity protocol that enables users to create digital identities that keep control over their data.



Ignite DAO is a legal DAO product that allows community members to help govern the DAO & earn profits using governance token gZIL.



ØKIMOTO is an NFT marketplace, exchange and launchpad built on Zilliqa.



Token Traxx is an NFT platform built on Zilliqa for musicians to create, curate and collect music NFT pieces.



EnviZion is a panda-themed NFT collection series and metaverse built on Zilliqa.



Dr Death's Redemption is a skeleton-themed NFT collection series built on Zilliqa.



Zame is a hunter-killer submarine hunting game built on Zilliqa.



Beanterra is a turn-based tactics NFT Play-To-Earn game built on Zilliqa and Ethereum with a focus on sustainability.



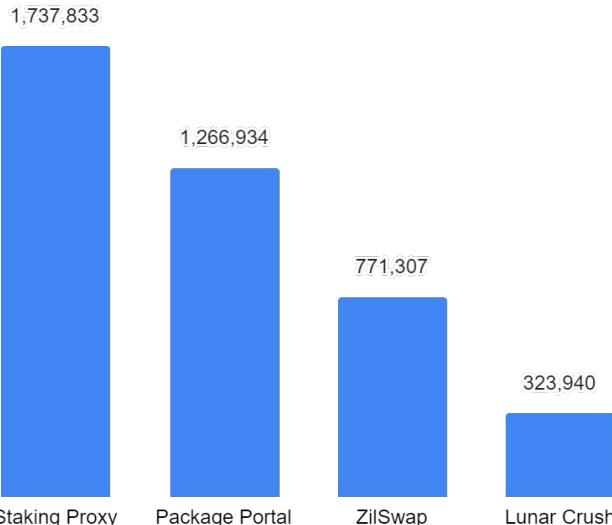
ZilAds offers community-based paid advertising and marketing campaigns to the Zilliqa ecosystem.



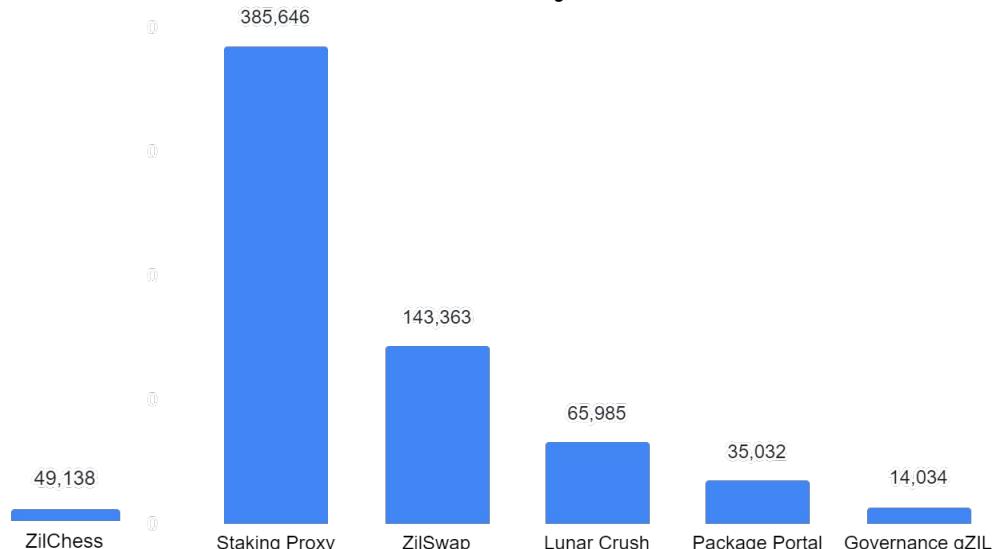
# COMMUNITY GROWTH: DAPP USAGE

Other than the seed node staking application (Zillion) and ZilSwap, ZRC dApps such as Package Portal, Lunar CRUSH and ZilChess gained popularity during 2021.

**Top 5 dApps by Cumulative Number of Transactions  
by the End of 2021**



**Top 5 dApps by Cumulative Number of Unique Users  
by the End of 2021**



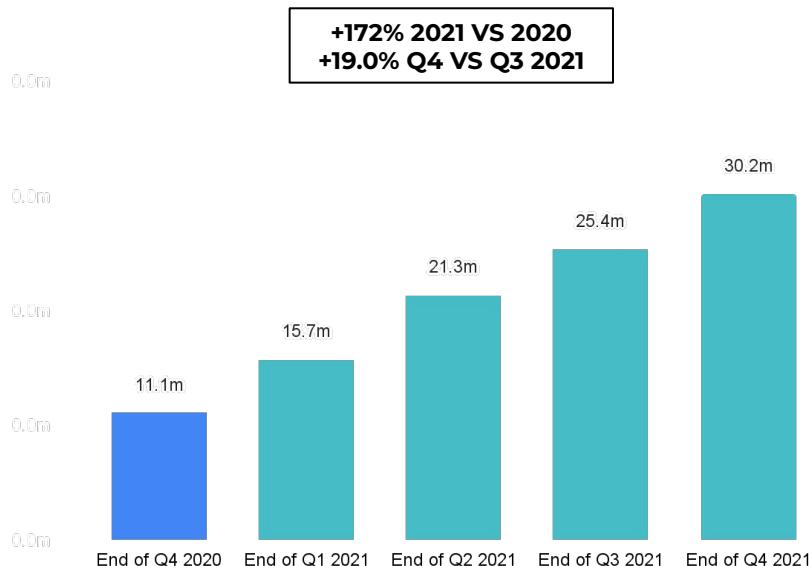
*Reference: BlockBorg.*



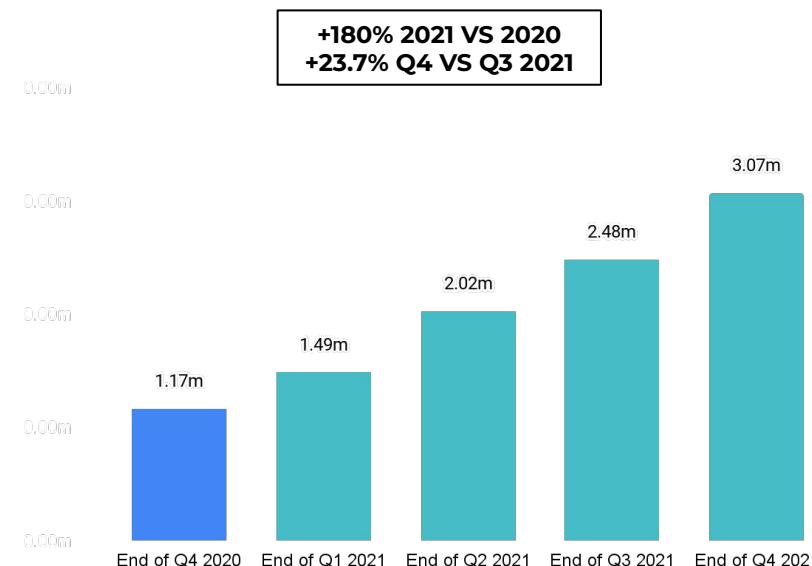
# NETWORK USAGE: TRANSACTION & ADDRESS GROWTH

Since the launch of mainnet in 2019, the Zilliqa network has processed more than 30M transactions. Over 3M wallet addresses were created by the end of 2021, a 172% and 180% increase respectively compared with 2020.

**Cumulative Number of Transactions  
by the End of Each Quarter  
Q4 2020 to Q4 2021**



**Cumulative Number of ZIL Addresses  
by the End of Each Quarter  
Q4 2020 to Q4 2021**



Reference: [Viewblock](#).

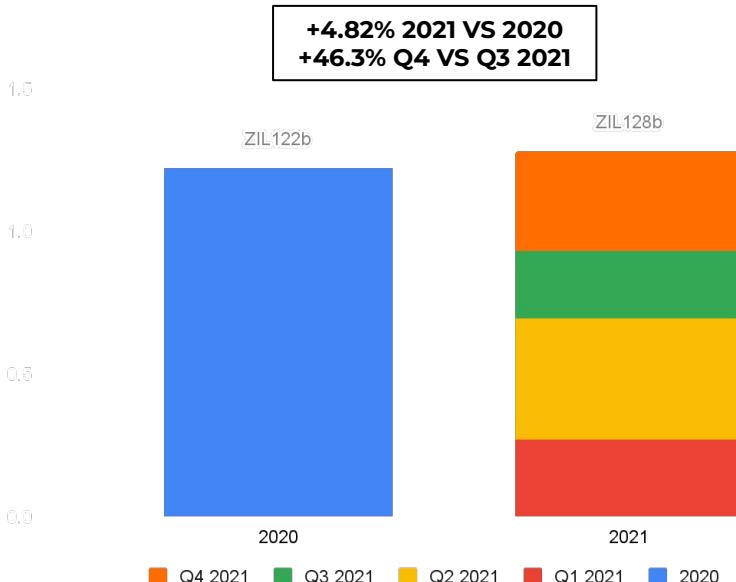




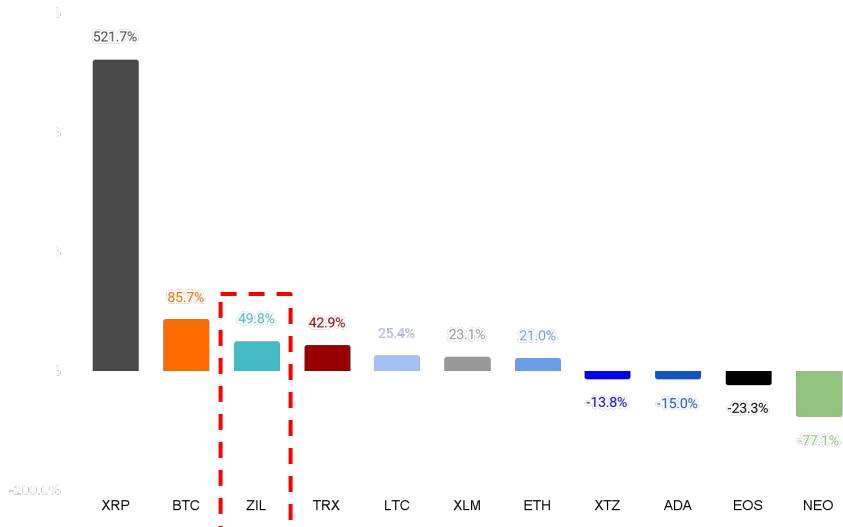
# NETWORK USAGE: ON-CHAIN VOLUME

The total on-chain volume in 2021 reached ZIL128B (US\$14.3b<sup>1</sup>), representing a 4.82% increase compared with 2020's on-chain volume. ZIL is ranked in the top 3 with a 49.8% growth in average monthly on-chain volume in Q4 vs Q3 2021.

Total On-Chain Volume in 2021 and 2020



Percentage Growth of Average Monthly On-Chain Volume<sup>2</sup> of Major Chains in Q4 VS Q3 2021



**Notes:** 1: Converted to USD using the average daily closing ZIL price in 2021. 2: Computed using on-chain transaction volume in USD.

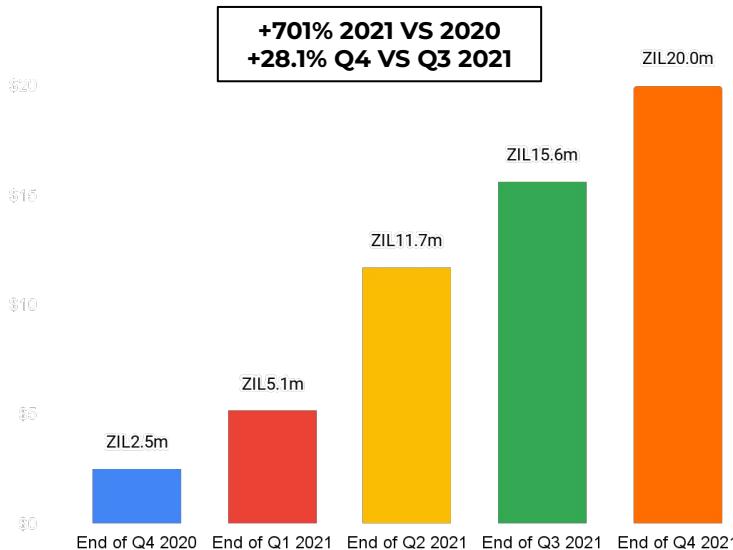
**Reference:** Viewblock. CoinMarketCap. CoinMetrics.



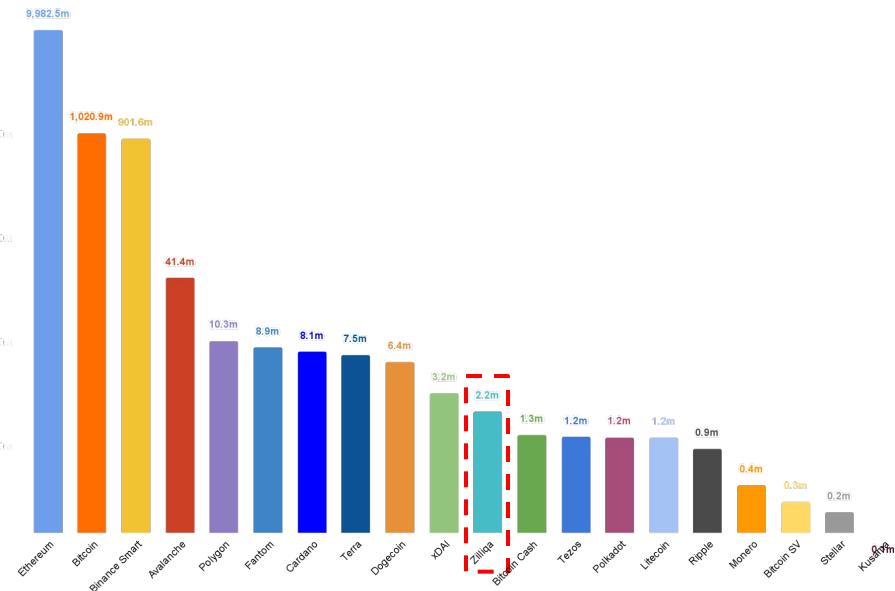
# NETWORK USAGE: ZIL BURNT

As of end of 2021, 20.0m of ZIL (US\$2.15M<sup>1</sup>) has been burnt. ZIL is ranked among the top 11 by the total transaction fees in 2021 among the layer ones listed on [CryptoFees.info](#).

**Cumulative ZIL Burnt  
by the End of Each Quarter  
Q4 2020 to Q4 2021**



**Total Transaction Fees in 2021 of Selected Layer 1 Protocols (US\$m)**



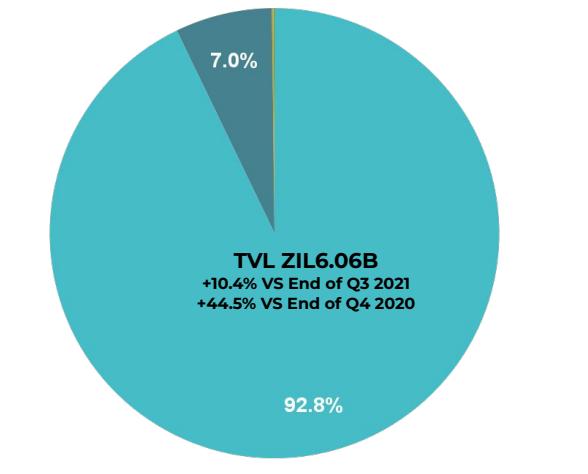
**Notes:** 1. Converted to USD using the average daily closing ZIL price of each respective month in 2021.

**Reference:** [Viewblock](#). [CoinMarketCap](#). [CoinMetrics](#). [CryptoFees.info](#).

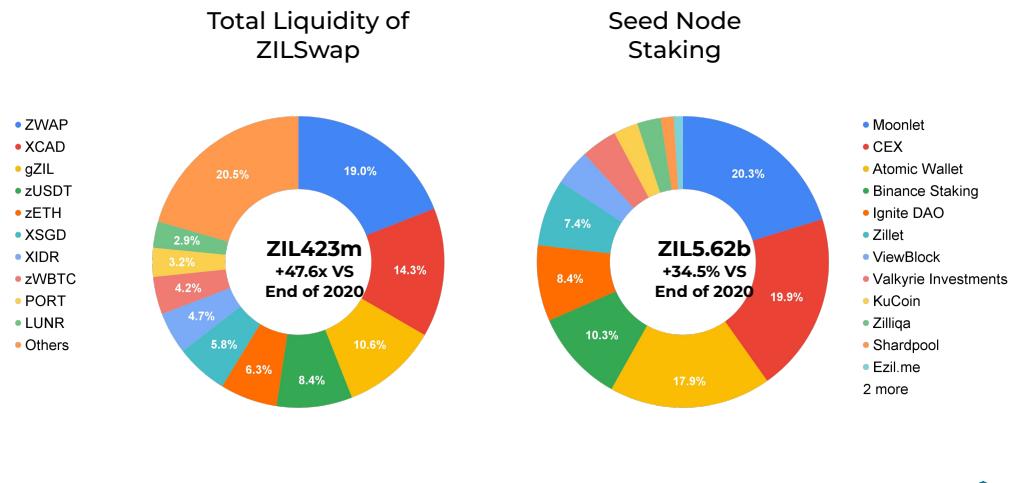
# NETWORK USAGE: ZIL LOCKED IN DEFI

By the end of 2021, a total of ZIL6.06B (US\$382M)<sup>1</sup> has been locked in DeFi applications, representing 49.5% of the total circulating supply and a growth of 10.4% when compared with that by the end of Q3 2021. The total amount of ZIL staked increased by 14.6% during Q4 2021 and reached ZIL5.62B (US\$355M)<sup>1</sup>.

**Total Amount of ZIL Locked in DeFi and Breakdown by the End of Q4 2021**



**Breakdown of ZIL Locked in ZILSwap and Staking by the End of Q4 2021**



**Notes:** 1. Data retrieved on 7th January 2022. Therefore, the ZIL amount is converted to USD using the daily closing ZIL price on 7th January 2022. ZIL 1 = US\$0.06314.

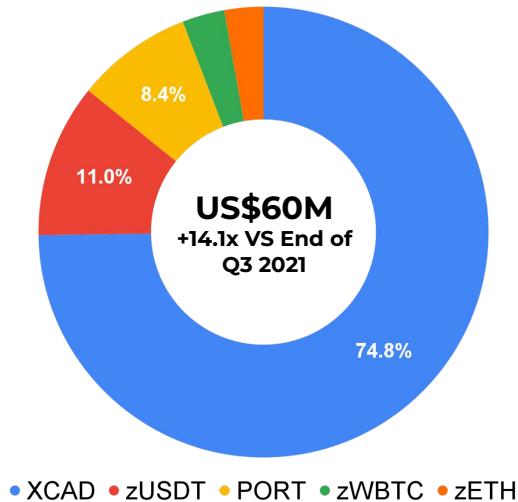
**Reference:** Viewblock. CoinMarketCap. ZilStream. PancakeSwap. Uniswap. Pillar Protocol.



# NETWORK USAGE: BRIDGED ASSETS

Over US\$60M<sup>1</sup> worth of ETH assets was bridged to the Zilliqa mainnet by the end of 2021.

**Breakdown of the Value of Bridged ETH Assets  
by the End of Q4 2021**



**Notes:** 1. Data retrieved on 10th January 2022 around 1pm SGT..

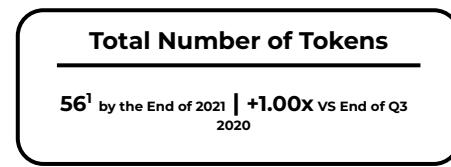
**Reference:** ZilStream. BlockBorg.





# TOKEN TRADING ACTIVITIES

By end of 2021, ZILswap had 56<sup>1</sup> ZRC tokens listed with a total market cap exceeding US\$457M<sup>1</sup> and a total trading volume of ZIL12.1B (US\$1.44b). Out of the 11 new tokens launched in Q4 2021, SWTH, dXCAD and LUNR made it to the top 10 of all ZRC tokens, with a combined market cap of over US\$87M<sup>1</sup>.



## TOP 10 ZRC TOKENS<sup>2</sup> HIGHLIGHTS



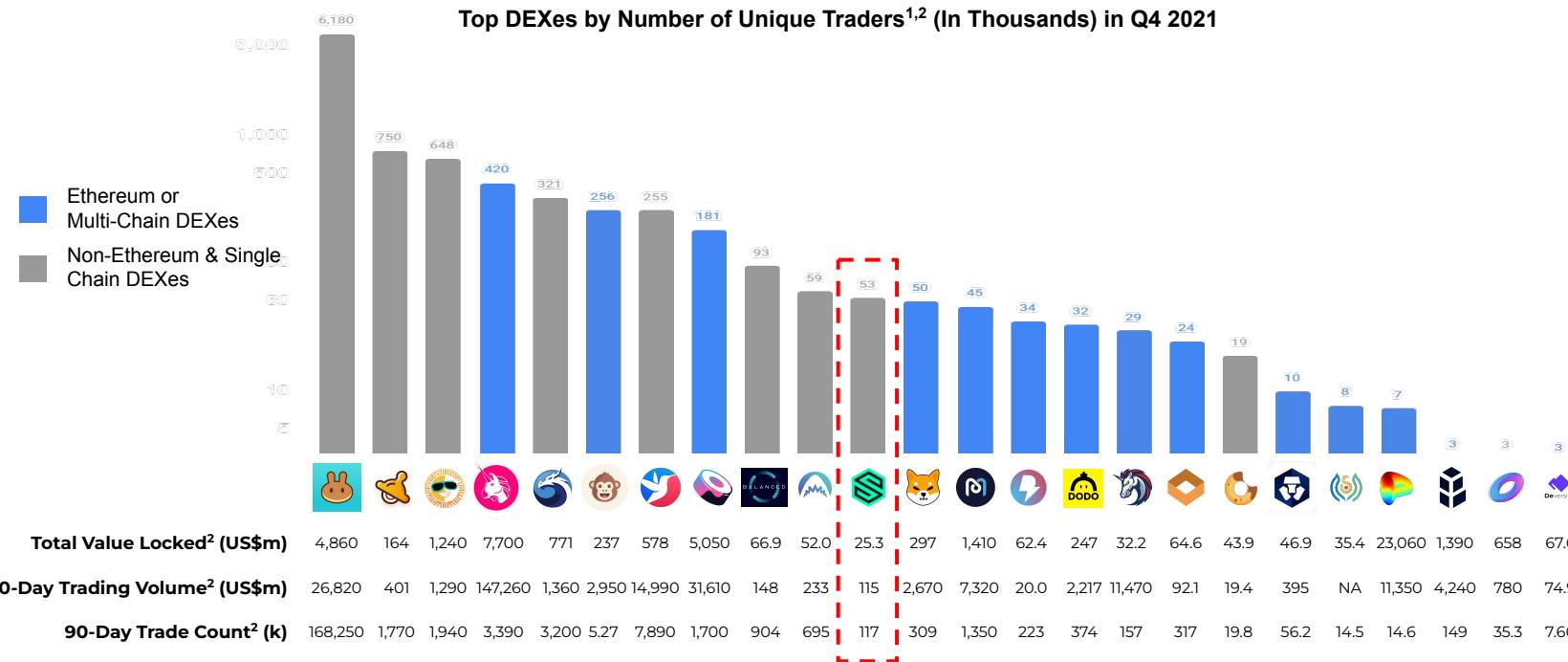
	ZRC Token	Price <sup>1</sup> (US\$)	Market Cap <sup>1</sup> (US\$m)	24H Trading Vol <sup>1</sup> (US\$k)
1	XCAD	6.85	116	835
2	XSGD	0.75	96.4	163
3	SWTH	0.03	59.1	152
4	PORT	8.89	26.9	198
5	gZIL	44.1	24.7	159
6	dXCAD	531	14.7	1,670
7	Lunr	1.29	13.6	22.3
8	zUSDT	1.02	6.61	367
9	ZWAP	19.5	6.23	188
10	CARB	1.64	6.16	64.4

**Notes:** 1. Data retrieved on 10th January 2022 around 1pm SGT. 2. The top 10 ZRC tokens by market cap as of 10th January 2022: XCAD, XSGD, SWTH, PORT, gZIL, dXCAD, Lunr, zUSDT, ZWAP, CARB.

**Reference:** ZilStream. BlockBorg.

# TOKEN TRADING ACTIVITIES: DEX COMPARISON

ZILSwap was among the top 11 DEXes by number of unique traders in Q4 2021.



**Notes:** 1. Including DEXes with retrievable 90-day unique trader count only. 2. Retrieved on 11th January, 2022. Therefore the data covers Q4 2021.

**Reference:** Defi Llama. Dapps.com.



# Thanks.

[www.zilliqa.com](http://www.zilliqa.com)

