

# Web3 Development Report

Q3'2022: Ethereum Ecosystem and Beyond



# The Big Picture

Prices down, **devs up.**

Despite Ethereum decreasing 70% in price, developer activity increased by over 40%.

\*As measured by verified smart contract deployments

# Q3'22 was the biggest for devs, ever

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**Ethereum SDK  
installs/week**  
+178% Y/Y



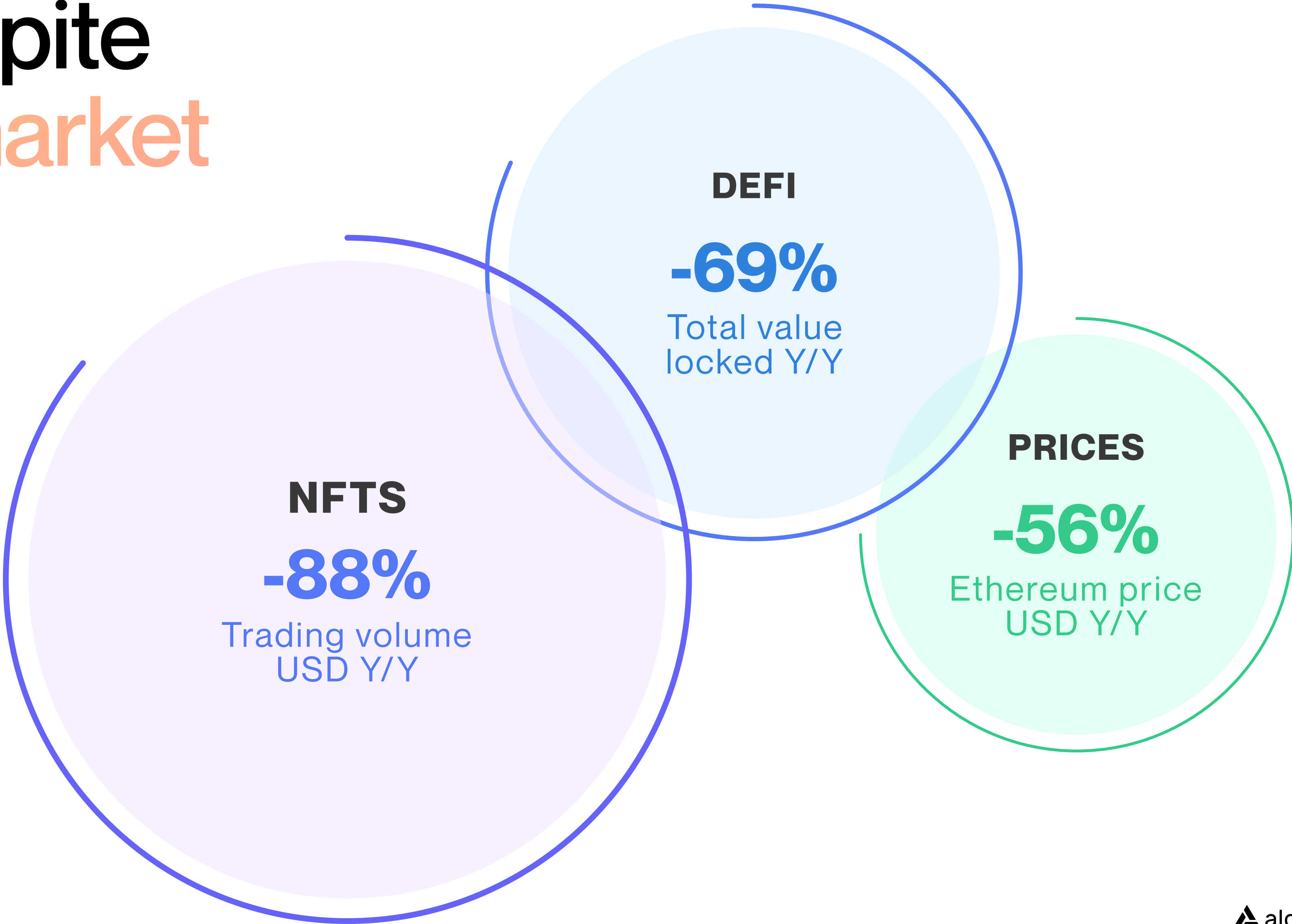
**Smart  
contracts (verified)  
/month**  
+160% Y/Y



**dapps**  
(12x since 2018)

# This is despite the bear market

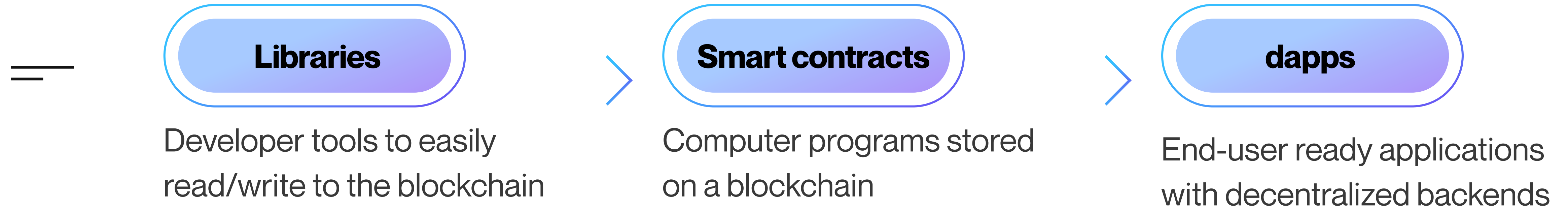
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# Approach

# 3 ways to measure developer activity



These 3 indicators show us if devs are **building**, **deploying**, and **growing**

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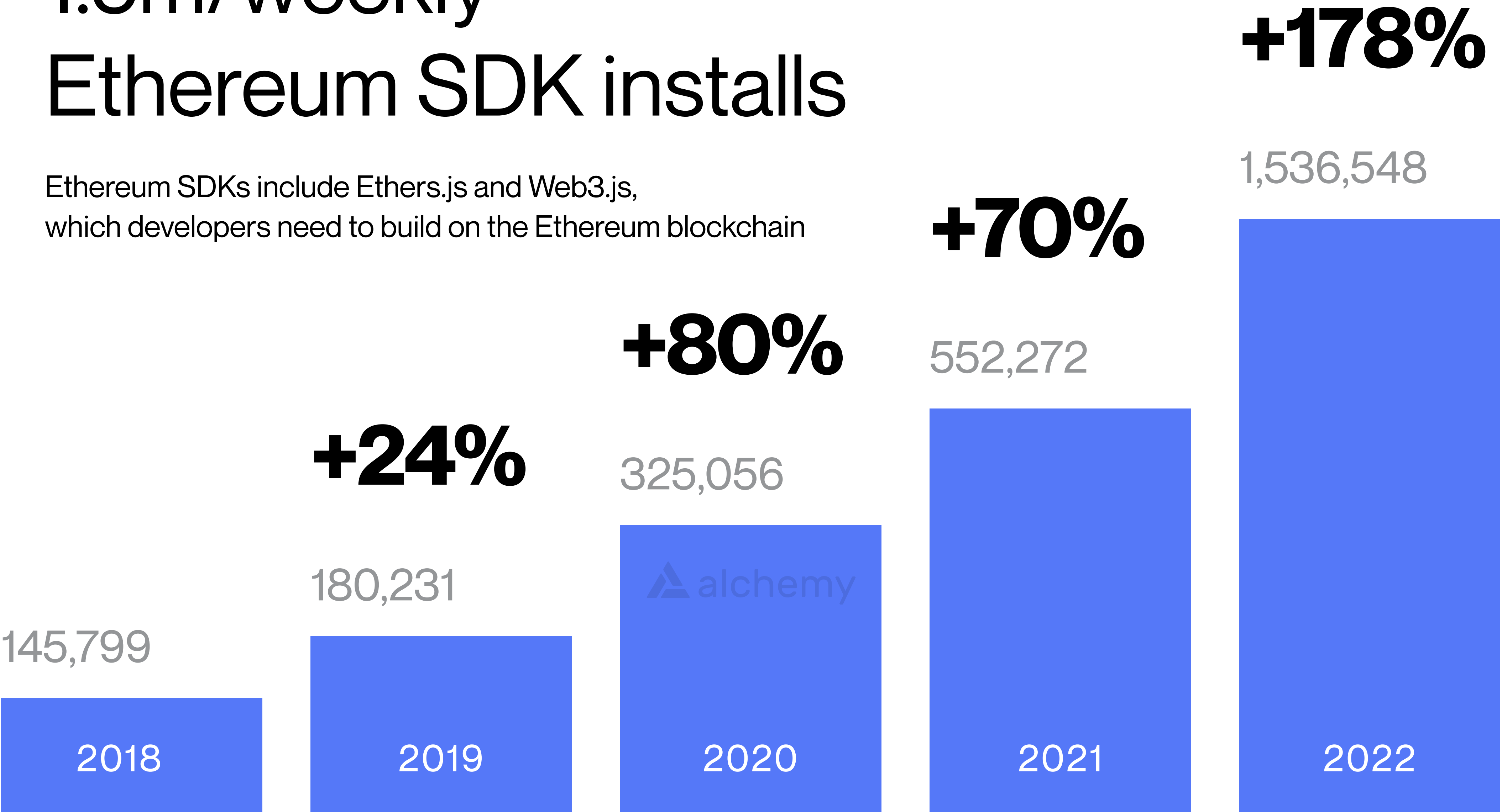
# Ethereum Libraries

Libraries are up and to the right

# 1.5m/weekly Ethereum SDK installs

Ethereum SDKs include Ethers.js and Web3.js,  
which developers need to build on the Ethereum blockchain

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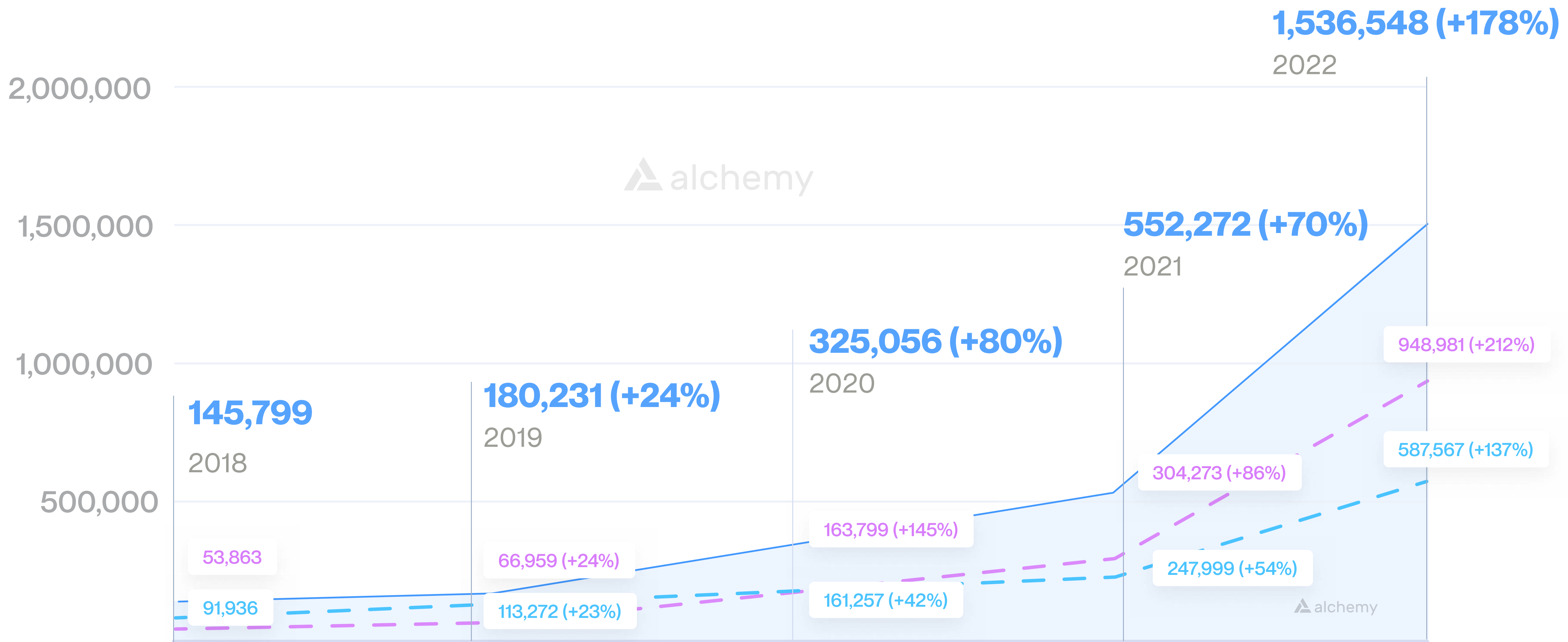




# Weekly downloads

Ethers.js, Web3.js, and Combined

Ethers.js      Web3.js      Total

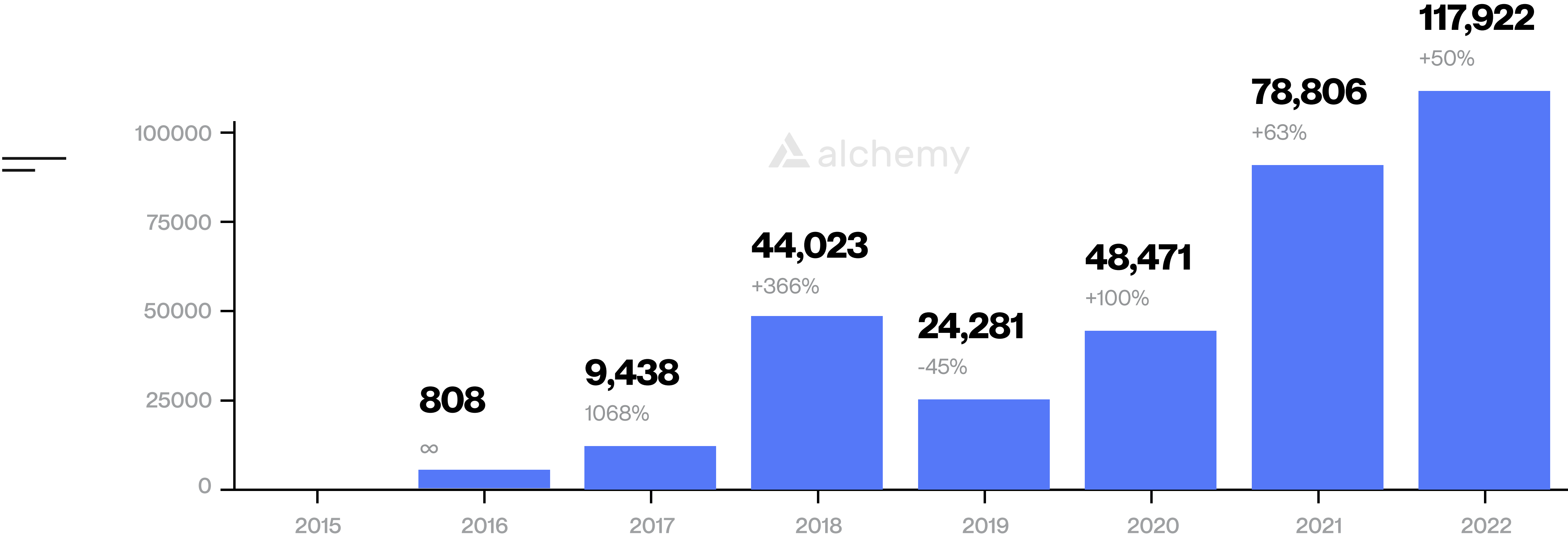


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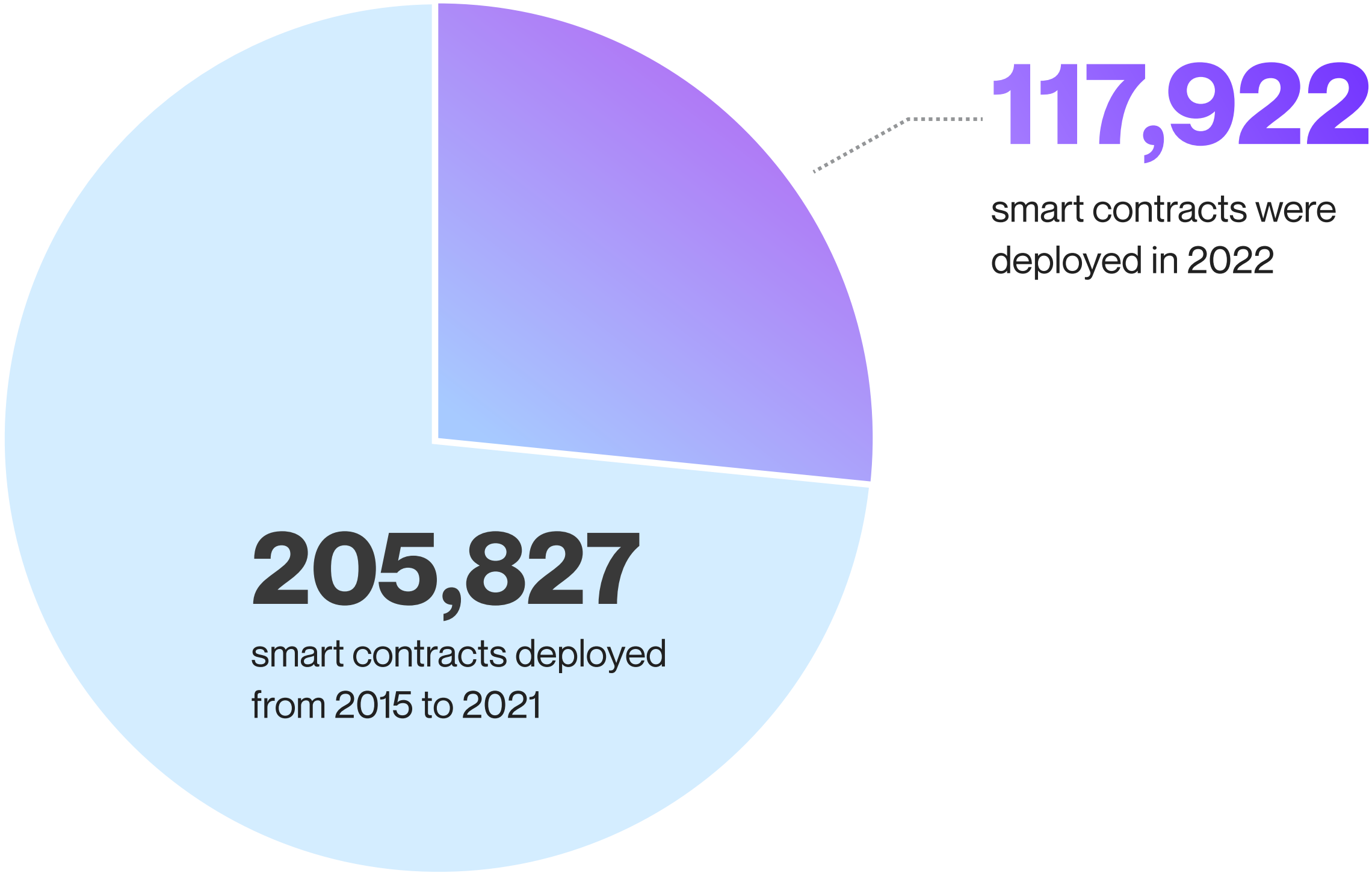
# Smart Contracts

Smart contracts are up and to the right

# Verified smart contract deployments are up more than 50% in 2022



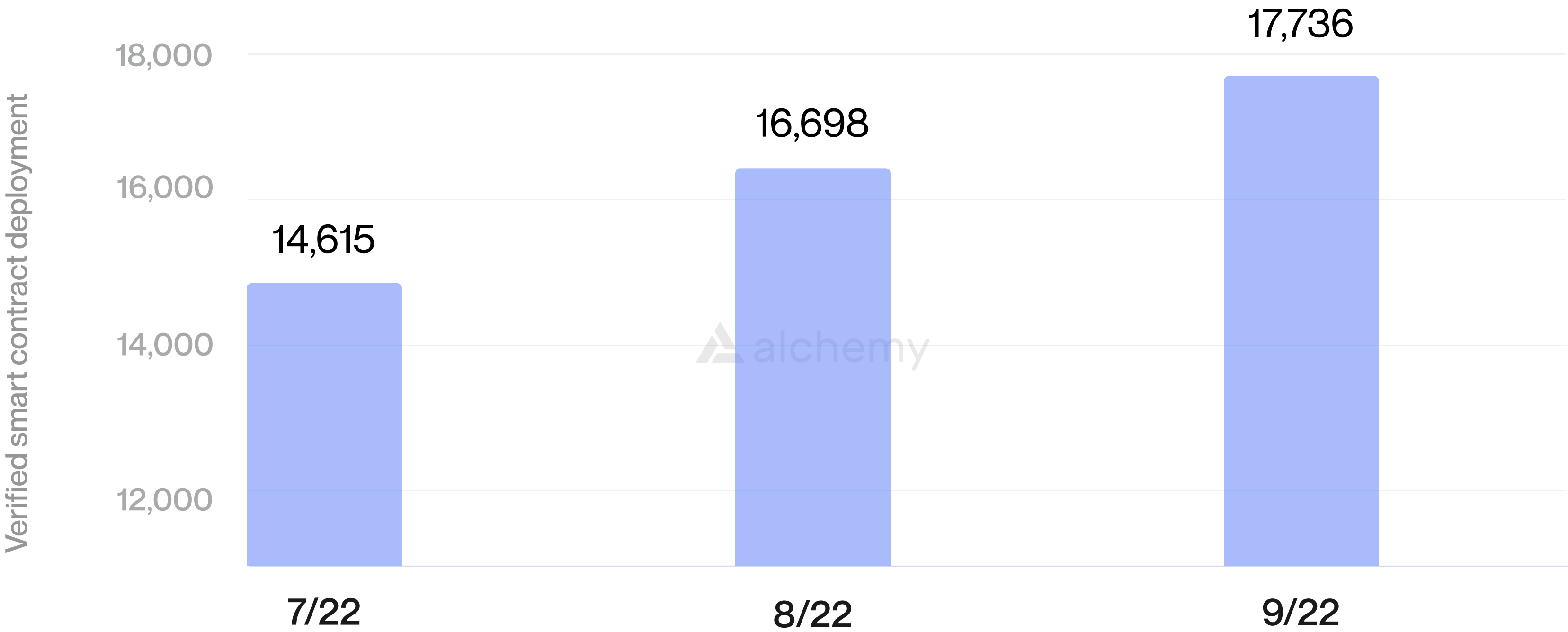
Verified smart contracts were used for measurement of production applications.  
The number of total contracts deployed is more than 10X larger.



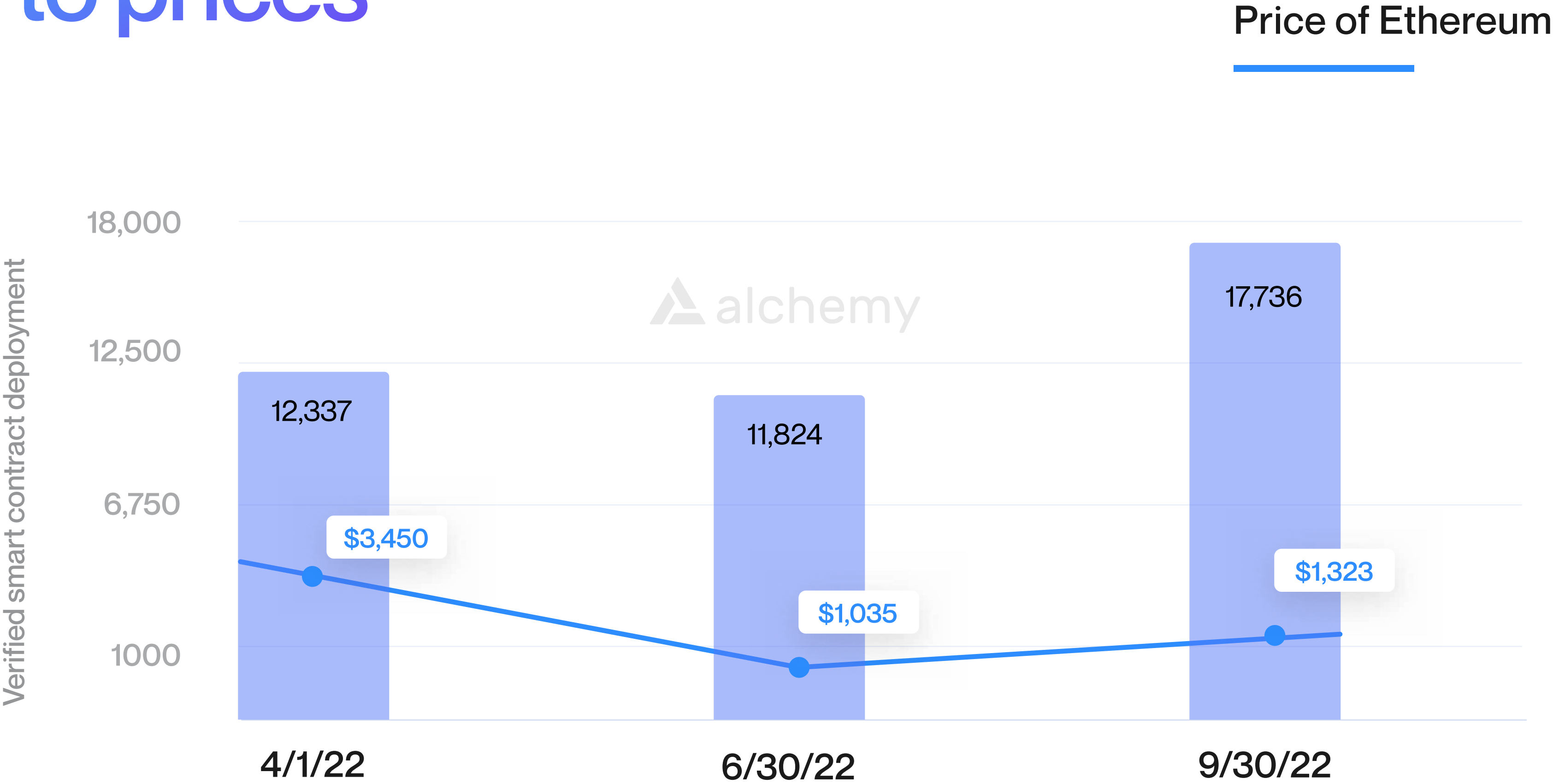
**36%** of all verified smart contracts were deployed just this year, **making 2022 the biggest year ever**

# Monthly verified smart contracts up 2.6x Y/Y

 New monthly all time highs (ATHs) consistently set



# Smart contracts not tied to prices



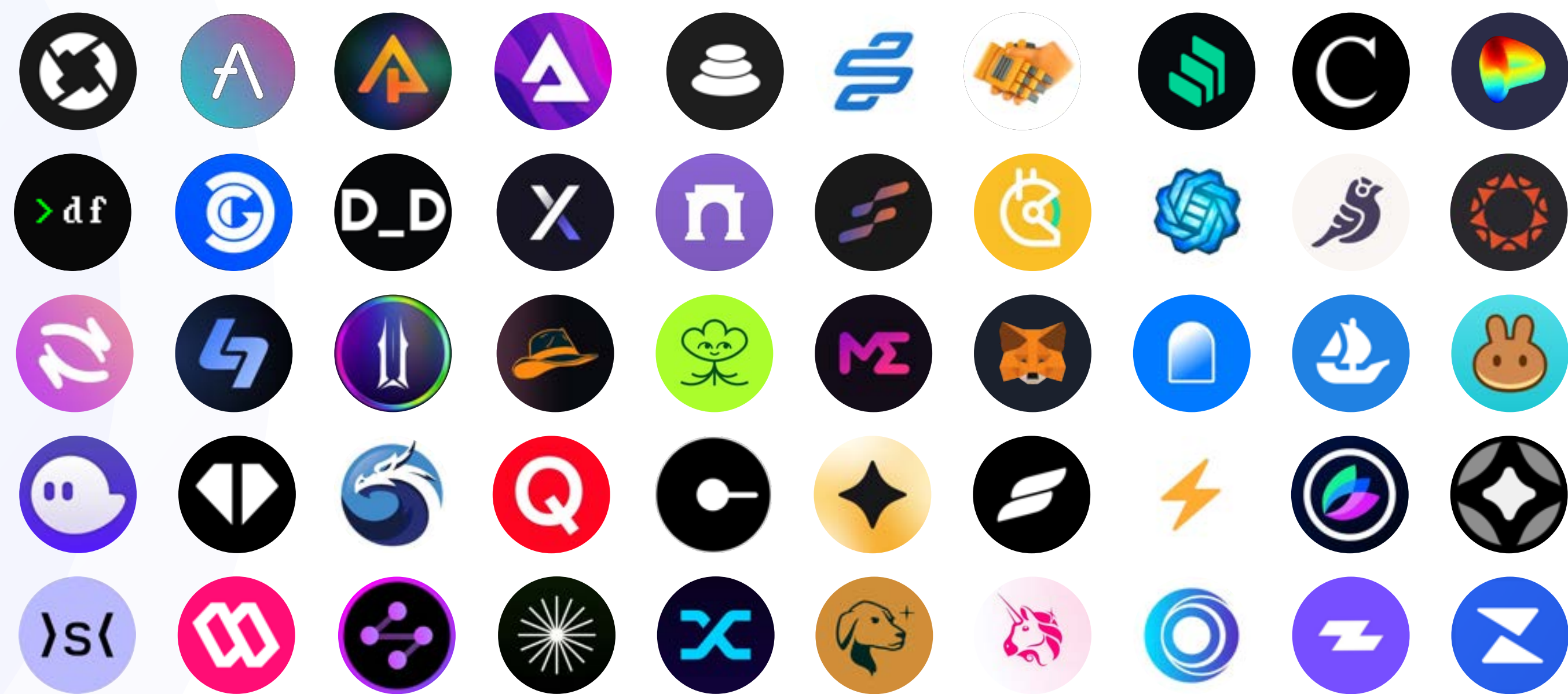
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dapps

dapps are up and to the right



# More than 12,000 dapps and growing



Ox, Aave, Apex, Audius, Balancer, Coherent, CollabLand, Compound, Context, Curve, Dark Forest, Decentral Games, DeveloperDAO, dydx, Farcaster, Fractal, Gitcoin, Gods Unchained, Goldfinch, Helius, Hop, Hyperspace, Illuvium, JonesDAO, Lens, Magic Eden, Metamask, Mirror, OpenSea, Pancake Swap, Phantom, Royal, Quickswap, Quix, Safe, Showtime, Slingshot Finance, Snapshot, Solanart, Stargate Finance, Sudoswap, Sweat, Synapse, Syndicate, Synthetix, Tally, Uniswap, x2y2, Zapper, Zerion



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# Beyond Ethereum

Polygon, Optimism, Arbitrum, and Solana



= 335%

growth in active  
developer teams YTD

804%

growth in active  
developer teams Y/Y

153%

growth in API  
consumption YTD



Arbitrum

= 516%

growth in active  
developer teams YTD

795%

growth in active  
developer teams Y/Y

121%

growth in API  
consumption YTD

**OP Optimism**

**= >10000%**

growth in active  
developer teams YTD

**>10000%**

growth in active  
developer teams Y/Y

**>460%**

growth in API  
consumption YTD



= >1000%

growth in active  
developer teams YTD

>1000%

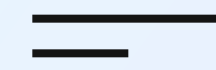
growth in active  
developer teams Y/Y

>500%

growth in API  
consumption YTD



# Additional Alchemy data



## **2x** Archive requests YTD

suggesting more developers are leveraging historical chain data

## **10x** Enhanced API requests YTD

confirming expansions from core node APIs to more advanced infrastructure across DeFi, DAOs, and gaming

## **10x** NFT API requests YTD

suggesting more use of NFTs in user-facing products and analytics

## **+16k** signups in <1 week

for Alchemy University, the new platform for learning how to build in web3

# Data infrastructure is growing



Chainlink

**500+** projects

**4.2B** on-chain data points



The Graph

**500+** subgraphs

**560B** queries



Alchemy

**Billions** of data  
requests YTD

suggesting developers are actively building  
dapps with diverse use cases

# Social infrastructure is growing



ENS

**545,948+** owners



Lens Protocol

**86,500+** owners



Farcaster

**164,000** casts by 3,405  
all-time casters



# Wallet and DeFi infrastructure is growing



WalletConnect

**46,250** weekly installs  
+13% Y/Y



RainbowKit

**26,359** weekly installs  
launched 2022



Uniswap v3 SDK

**27,841** weekly installs  
+280% Y/Y

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# Methodology

# Methodology

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This report strives to provide an accurate and useful representation of web3 development. The following sources were used for data collection purposes: Etherscan (verified smart contracts), DappRadar (dapp count), Github and NPM JS (SDK installations and metadata), CoinMarketCap (token prices), and the Internet Archive (fetching historical versions of aforementioned pages to provide timestamped data sources). web3 Javascript library weekly downloads were used as a proxy for developer activity here. This metric is helpful but imperfect due to the ability for the library to be downloaded multiple times by the same user intentionally or unintentionally. However, it provides one signal for directional guidance. Additionally, the growth of various blockchains on Alchemy is purely relative; certain chains are significantly larger as measured by active teams and daily requests.

# Thank you to the report's sources

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Developer Activity: Alchemy

Smart Contracts and Programs: Etherscan and Solscan

Market and Prices: DappRadar, Defi Pulse, CoinMarketCap, Dune

SDKs: Github and NPM

Historical Web Pages: Internet Archive

# Disclaimer

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In addition to providing information based on our internal sources, this report contains statistical data and estimates that are based on public information. You should not give undue weight to such data or estimates as we have not verified them.

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**THANK YOU**