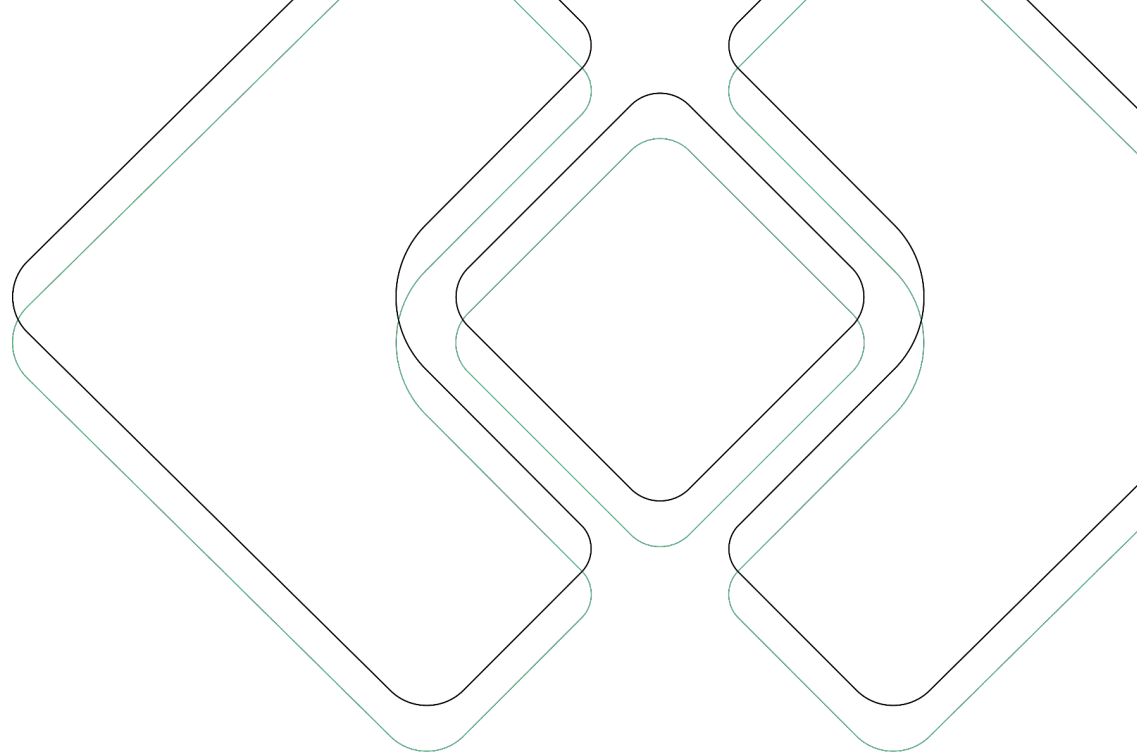


27th of April 2022



# Web3 scaling in the wild

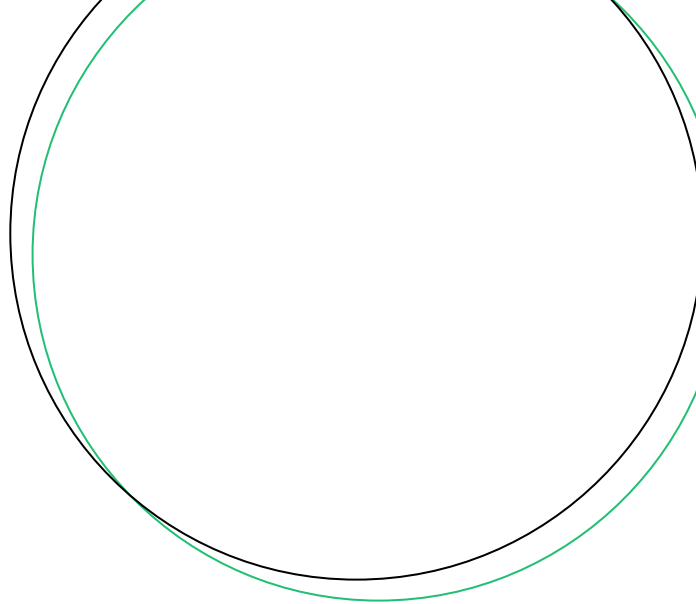
How crypto products serve the mass market?



# Przemek Kowalczyk

Co-founder & CPO of Ramp

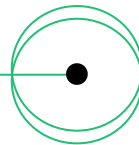
Building **Ramp** since 2017,  
Web3 expert and enthusiast, physics graduate.



Get in touch



# About Ramp



Around since 2017, Ramp was founded by Przemek Kowalczyk and Szymon Sypniewicz, and since then has quickly become one of the biggest and fastest growing Polish startups, with the last valuation exceeding 1 billion PLN (\$300M).

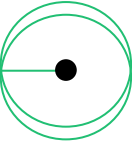
- ✓ Offices in Warsaw, London, Wrocław and Miami
- ✓ UK & US Regulated
- ✓ +160 ppl on the team
- ✓ Over 200 partners
- ✓ 1 M Users

We exist to empower everyone to participate in open networks.



# Why we need scaling?

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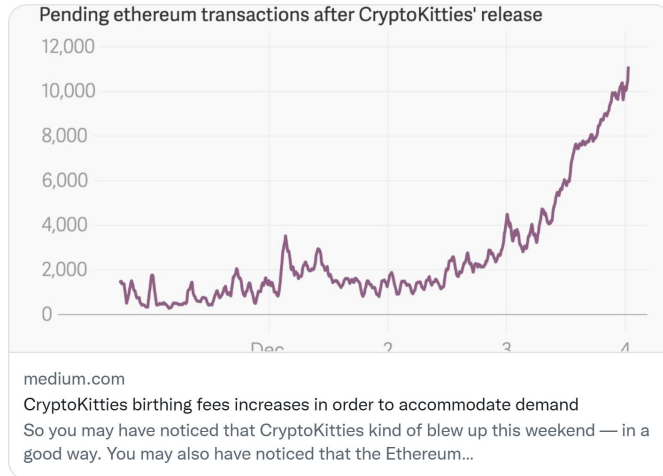
# Why we need scaling?

## Example 1: CryptoKitties frenzy



🔥🔥🔥 DUE TO CONGESTION ON THE NETWORK WE ARE INCREASING THE BIRTHING FEE FROM 0.002 ETH --> 0.015 ETH. WE HOPE THIS WILL ALLOW MORE KITTENS TO BE BORN ON TIME AS THERE HAVE BEEN SIGNIFICANT DELAYS 🔥🔥🔥

DETAILS:



- Very congested network in 2017
- Price-hike to manage the load
- Price-capped volume

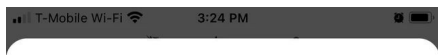
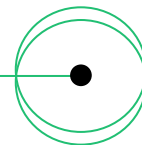
More:

<https://medium.com/cryptokitties/cryptokitties-birthing-fees-increases-in-order-to-accommodate-demand-acc314fcadf5>



# Why we need scaling?

## Example 2: Uniswap airdrop



app.uniswap.org

Ethereum

Unknown Method

### 0.27 ETH

\$1028.59



Account 1 (0xCC82...7c49)

Balance: \$1220.49 (0.32037 ETH)

Estimated gas fee

\$102.50 [0.026905 ETH](#)

Likely in < 30 seconds

Max fee: 0.037557 ETH

Total

\$1,131.09 [0.296905 ETH](#)

Max amount: 0.307557 ETH

[View Data](#)

Reject

Confirm

Ethereum: Hourly Transaction Fees (USD)



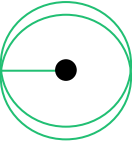
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glassnode



# Why we need scaling?

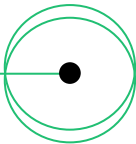
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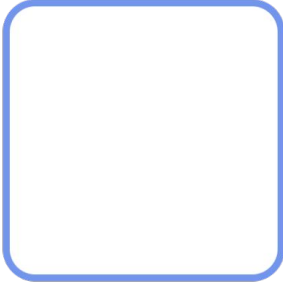
- Congested network
- Delayed transactions
- High costs
- Not deterministic behaviour,  
i.e. you don't know if transaction is going to go through
- Limited storage



# Scaling options



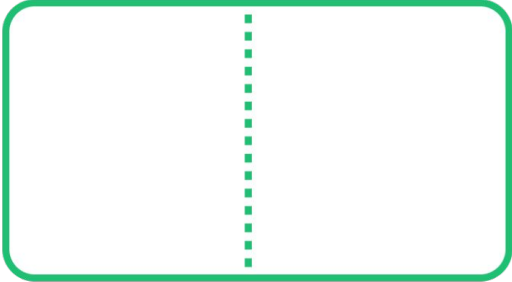
Mainnet / L1



**Custom chains**



**Sidechains**



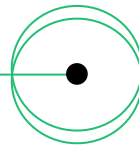
Siloed L2

**L2**





# Dapper



## Dapper Labs

Crypto games studio



## CryptoKitties

- > Most-famous crypto NFT collectible game
- > Stayed on Ethereum mainnet



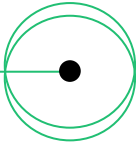
- > Created new chains - flow - for new games

Mainnet / L1



Custom chain





## Axie Infinity

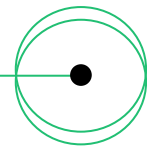
Ethereum based crypto collectible play-to-earn NFT game



Mainnet / L1

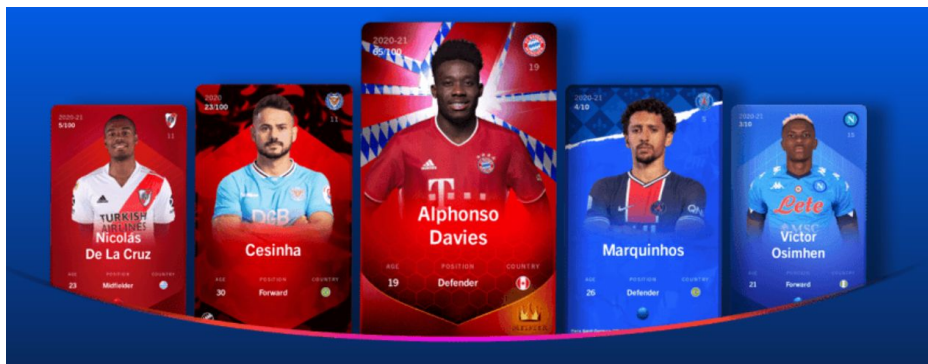


Sidechain



## Sorare

Ethereum based crypto collectible  
fantasy-football NFT game

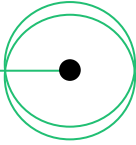


Mainnet / L1



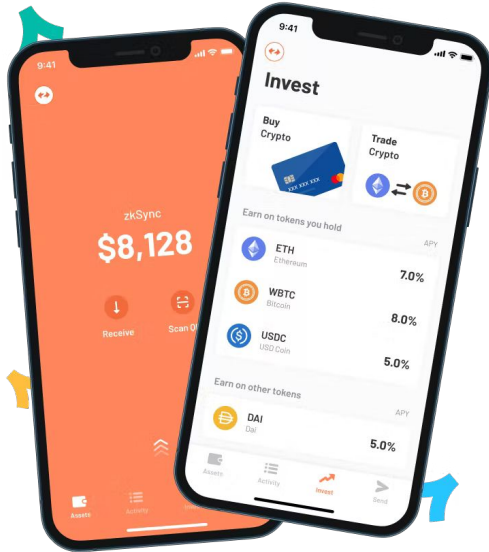
Siloed L2

L2



## Argent

Ethereum based crypto wallet targeted at mass-market



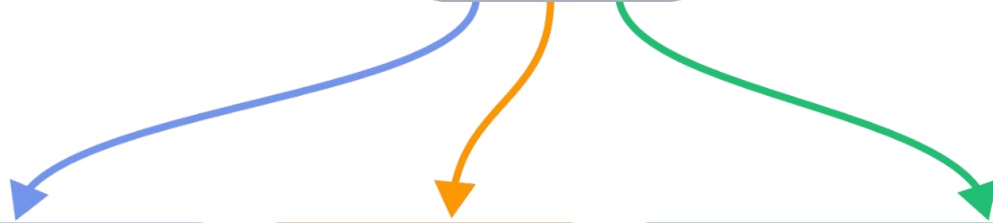
Mainnet / L1



Siloed L2

L2

# Mainnet / L1



Custom chain



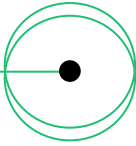
Sidechain



Siloed L2

L2

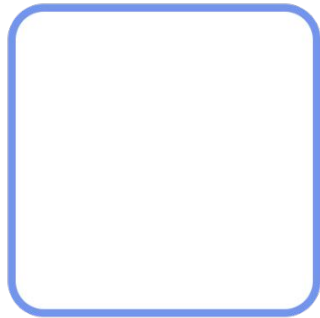
# Resources



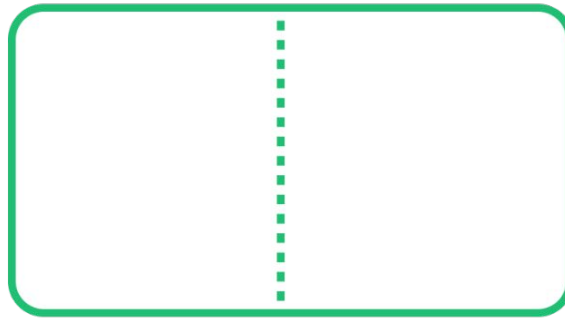
EASY TO IMPLEMENT



TIME NEEDED

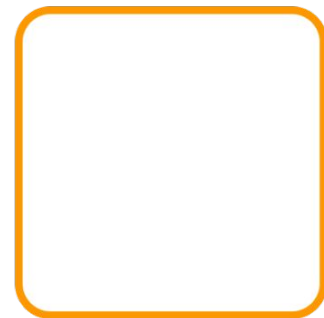


Custom chain



Siloed L2

L2



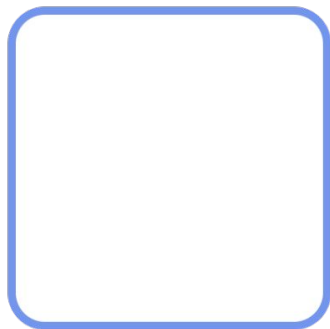
Sidechain



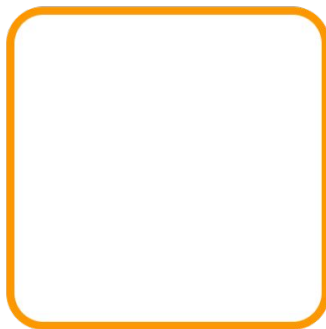
# Control

COMPOSABILITY

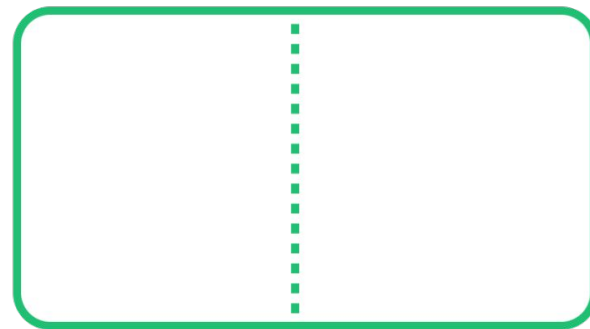
CONTROL



Custom chains

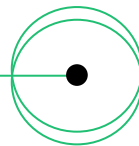


Sidechains



Siloed L2

L2



- 1. Big projects cannot operate only on L1**
- 2. Scaling options are mature enough to use**
- 3. Pick the best solution for your project**





# Thank you!

