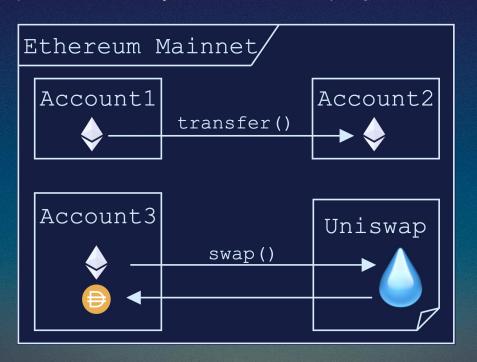




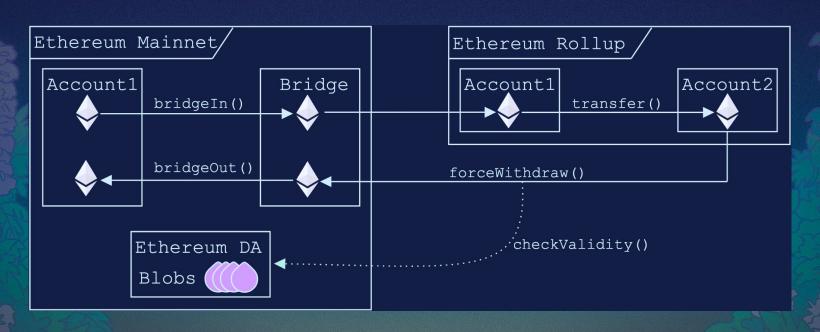
# Property rights of ETH on the L1.

Anyone can permissionlessly store, send, and program ETH, the native asset.



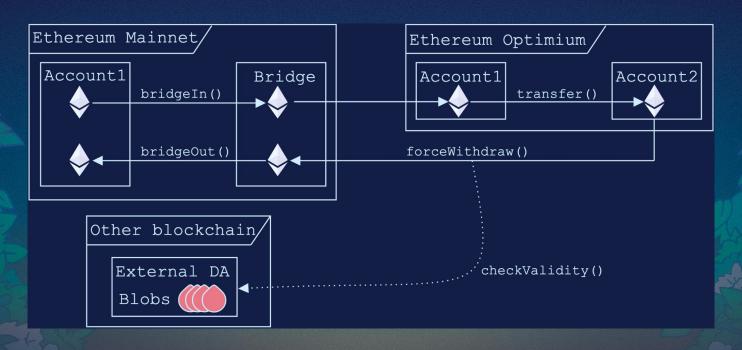
# Property rights of ETH on rollups.

Anyone can permissionlessly bridge ETH in and out of rollups.

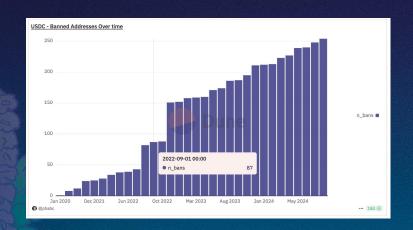


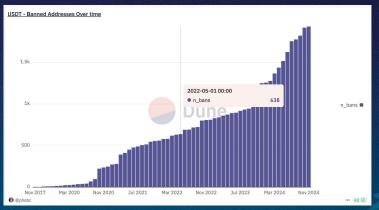
# Property rights of ETH on non-Ethereum DA L2s.

If the external DA layer is live, anyone can permissionlessly bridge ETH in and out.



# Aside: USD(C/T) have no property rights.





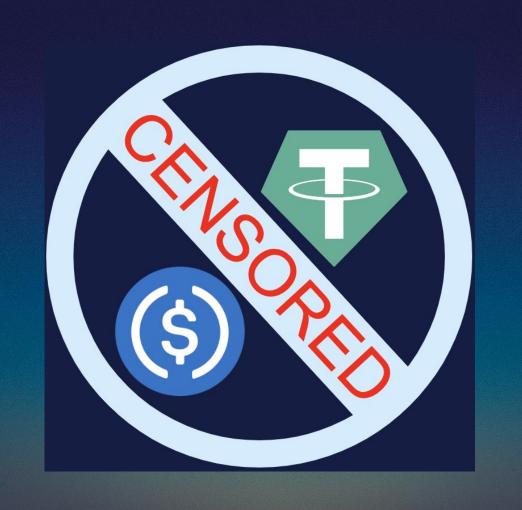
# Canadian authorities freeze financial assets for those involved in ongoing protests in Ottawa





By Aya Elamroussi, Holly Yan and Amir Vera, CNN

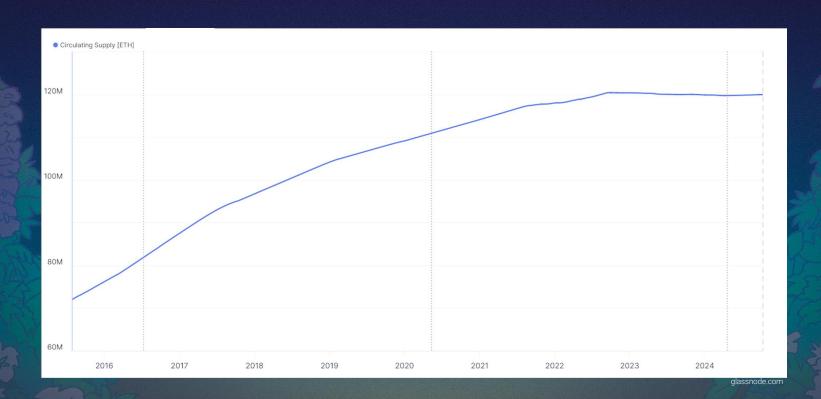
5 minute read · Updated 8:48 PM EST, Sun February 20, 2022



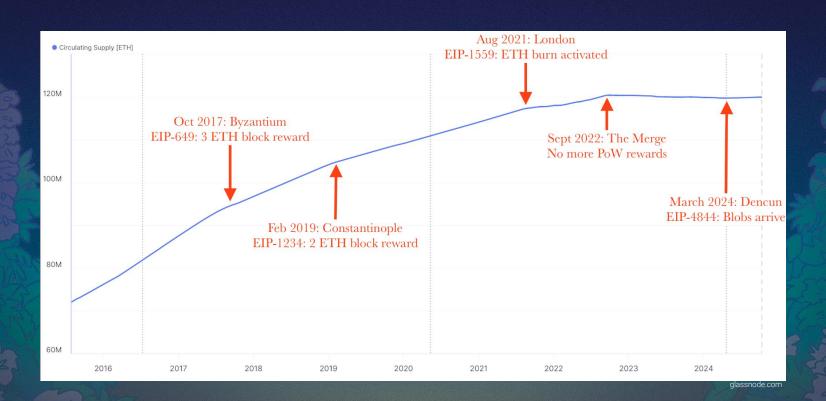




# A brief history of the ETH supply.



# A brief history of the ETH supply.



#### **Current ETH inflation.**

- > 120mm ETH Supply
- > 34mm ETH Staked (≈28%)
- > 3.25% Yield

- $\rightarrow$  34\*0.0325 = 1.10mm ETH per-year
- →  $1.1/120 \approx 0.9\%$  annual inflation

#### **Current SOL inflation.**

- ➤ 588mm SOL Supply
- ➤ 400mm SOL Staked (≈68%)
- > 7% Yield
- → 400\*0.07 = 28 mm SOL per year
- →  $28/588 \approx 4.7\%$  annual inflation
- → 5x higher than ETH inflation

#### **Current BTC inflation.**

- ➤ 19.78mm BTC Supply
- ➤ 3.125 BTC per-block
- > 52560 blocks per year
- → 164250/19.78mm ≈ 0.8% annual inflation
- → About the same as ETH inflation

## 21 million: the core promise & the fatal flaw.

#### 6. Incentive

By convention, the first transaction in a block is a special transaction that starts a new coin owned by the creator of the block. This adds an incentive for nodes to support the network, and provides a way to initially distribute coins into circulation, since there is no central authority to issue them. The steady addition of a constant of amount of new coins is analogous to gold miners expending resources to add gold to circulation. In our case, it is CPU time and electricity that is expended.

The incentive can also be funded with transaction fees. If the output value of a transaction is less than its input value, the difference is a transaction fee that is added to the incentive value of the block containing the transaction. Once a predetermined number of coins have entered circulation, the incentive can transition entirely to transaction fees and be completely inflation free.

### Instability of PoW with only transaction fees.





#### Burn from L1 transaction fees.

- Currently at 476k ETH per-year.
- Depends highly on market conditions.
- Absorbs large amounts of inflation (reminder: inflation is about 1mm ETH).



# Burn from blob fees (L2 usage).

- "DA layer with128 blobs/slot could support around 2 Ggas/s."
- ~95k transfers per-second
- ~6k swaps per-second

#### To fully offset the issuance:

- → 95k transfers per-second spend 0.001 dollars per-txn.
- → 6k swaps per-second spend about 0.015 dollars per-txn.
- → 336,384,000 blobs per year
- → \$10 blobs

### TL;DR. L2 transaction fees can stay low and burn a lot of ETH.



# The full picture

