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EIP Editor (Emeritus) | Herder-In-Chief @EthCatHerders





WTF is an EIP?



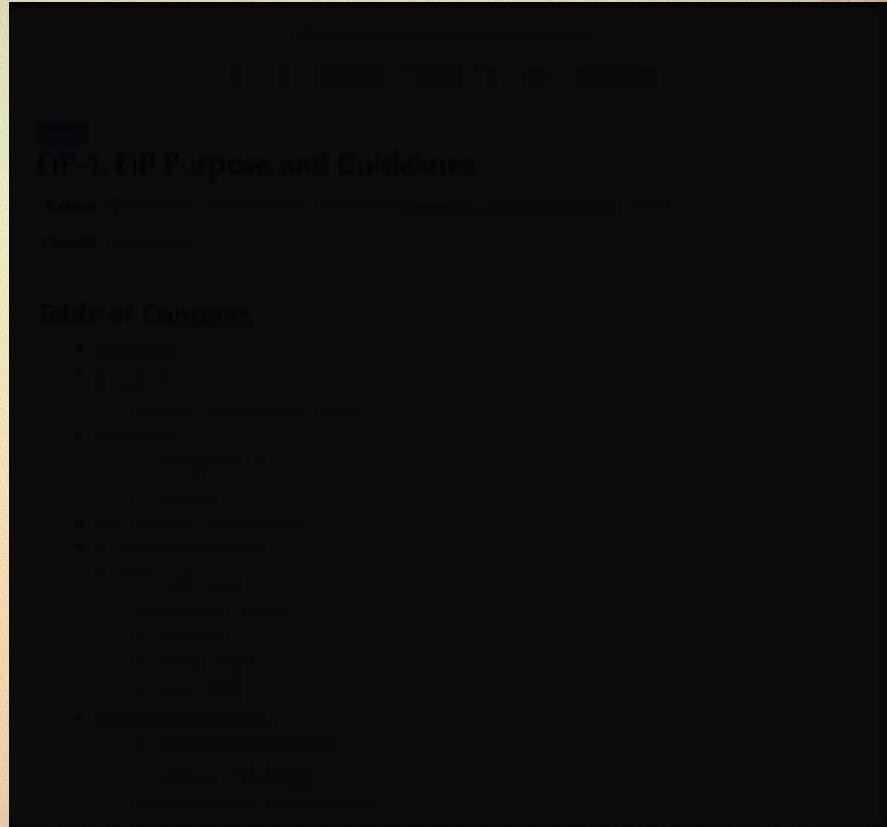


EIP stands for Ethereum Improvement Proposal. An EIP is a **design document** providing **information to the Ethereum community** , or **describing a new feature for Ethereum or its processes or environment.**



EIPs are a major component of Ethereum's neato decentralized governance!

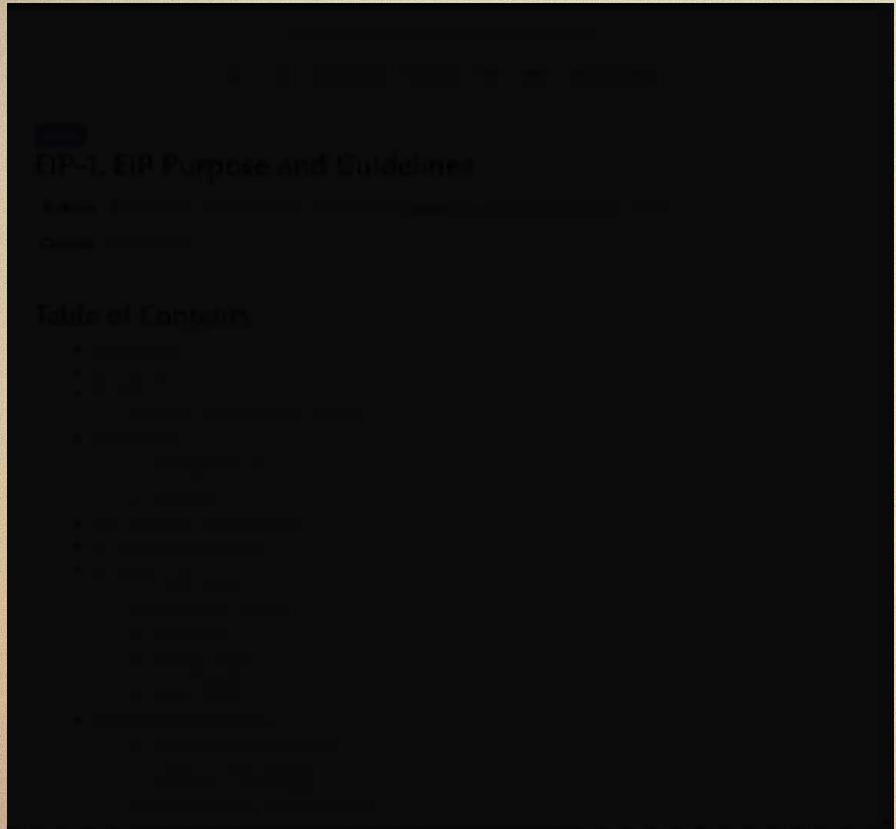
EIP-1 describes the types of EIPs and how to write an EIP. It is long and most people find it boring so I put it on the left here and it has filters so the kids from TikTok will find it cool and not get distracted by this talk and one day become EIP editors.





History of EIPs





History!

- ★ Started in 2015 after an announcement at Devcon1.
- ★ Based off of BIPs (Bitcoin Improvement Proposals) that was based off of PIPs (Python Improvement Proposals).
- ★ EIP-1 written by Martin Becze and then heavily re-written by me a year later.
 - Not many EIPs written in the first year so Martin and I tweaked EIP-1 in late 2016/early 2017 after discussions at Devcon 2.



EIP-779: Hardfork Meta: DAO Fork

Authors Casey Detrio (@cdetrio)

Created 2017-11-26

Requires EIP-606



Abstract

This documents the changes included in the hard fork named "DAO Fork". Unlike other hard forks, the DAO Fork did not change the protocol; all EVM opcodes, transaction format, block structure, and so on remained the same. Rather, the DAO Fork was an "irregular state change" that transferred ether balances from a list of accounts ("child DAO" contracts) into a specified account (the "WithdrawDAO" contract).

Specification

- Codename: DAO Fork
- Activation:
 - Block == 1,920,000 on Mainnet

See references [1] and [2] for the original, full specification. It is summarized here for convenience.

At block 1880000, the following accounts are encoded into a list [L](#):

- The DAO ([0xbbb9bc244d798123fde783fcc1c72d3bb8c189413](#))
- its extraBalance ([0x807640a13483f8ac783c557fcdf27be11ea4ac7a](#))
- all children of the DAO creator ([0x4a574510c7014e4ae985403536074abe582adfc8](#))
- and the extraBalance of each child

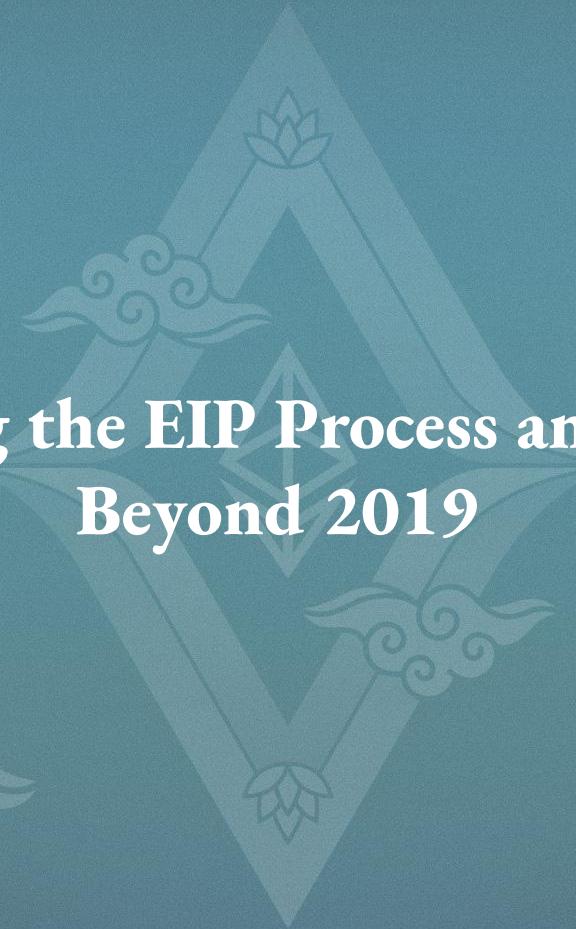
► Reference list L

At the beginning of block 1920000, all ether throughout all accounts in [L](#) will be transferred to a contract deployed at [0xbf4ed7b27f1d666546e30d74d50d173d20bca754](#). The contract was created from the following Solidity code (compiler version [v0.3.5-2016-07-01-48238c9](#)):

```
// Deployed on mainnet at 0xbf4ed7b27f1d666546e30d74d50d173d20bca754

contract DAO {
    function balanceOf(address addr) returns (uint);
    function transferFrom(address from, address to, uint balance) returns (bool);
    uint public totalSupply;
}
```





Understanding the EIP Process and Evolution Beyond 2019



Understanding EIPs, N/w Upgrade and evolution beyond...



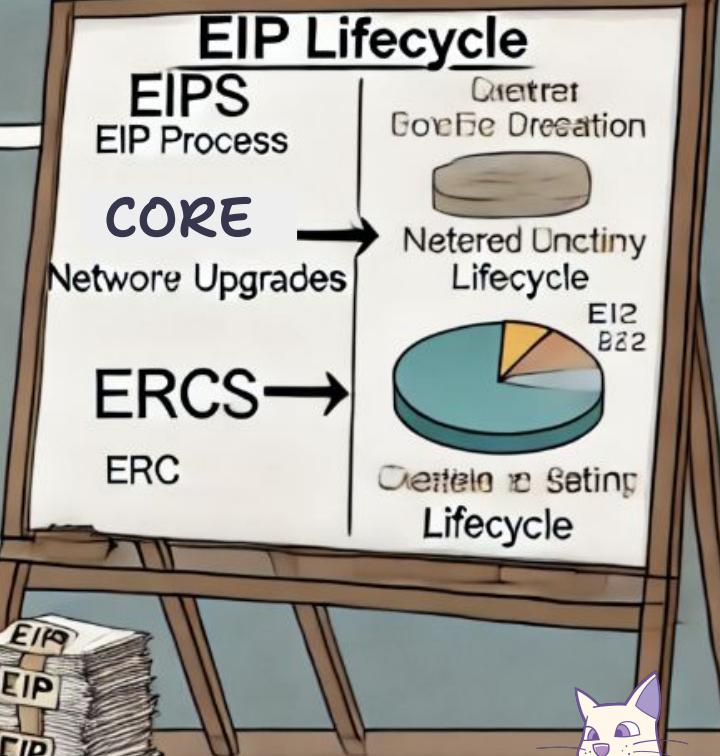
I understand the
Network Upgrade
Process!



I just wanted
to be included
in a proposal!



Include my
EIP in n/w
upgrade



Proposals to streamline Ethereum Network Upgrade



Stagnant Meta

EIP-233: Formal process of hard forks

Authors Alex Beregszaszi (@axic)

Created 2017-03-23

**Marc
h
2017**

EEP-5: Ethereum Hardfork Process - request for collaboration

Magicians Primordial Soup ethereum-roadmap, hardfork, roadmap, eep



schdn

Dec 2018

**Dec
2018**

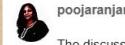
II Closed Create EIPsForHardfork.md #1929
Changes from 1 commit ▾ File filter ▾ Conversations ▾ Jump to ▾

67 EIPsForHardfork.md

```
2 + EIP: <to be assigned>
3 + Title: Formal process of selection of EIPs for hardforks (Meta EIP#)
4 + Author: Pooja Ranjan (@poojaranjan)
5 + Discussions-to: <URL>
6 + Status: WIP
7 + Type: Meta
8 + Created: 2019-04-09
9 + Requires : EIP 233
10 + ---
```

Proposal of a formal process of selection of EIPs for hardforks (Meta EIP#)

EIPs



poojaranjan

2 Apr 2019

The discussion started around March 2017 when Alex Beregszaszi (@axic) proposed Meta EIP 233: Formal process of hard forks to describe the formal process of preparing and activating hard forks.

**Apr
2019**

Trains, Planes and Network Upgrades by Danno Ferrin & Tim Beiko (Devcon)

devcon v

EIP-Centric Forking

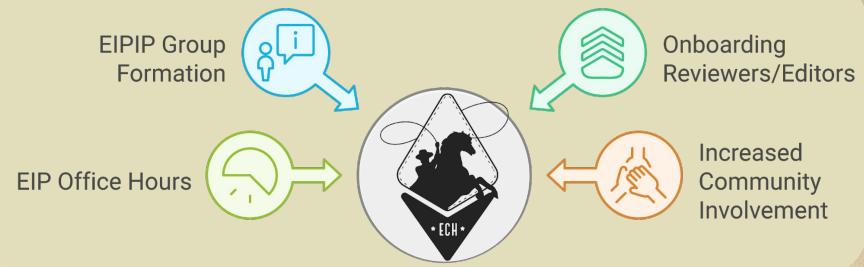
Osaka, JP October 8-11, 2019 Watch on YouTube

James Hancock

Process to name an upgrade was decided.

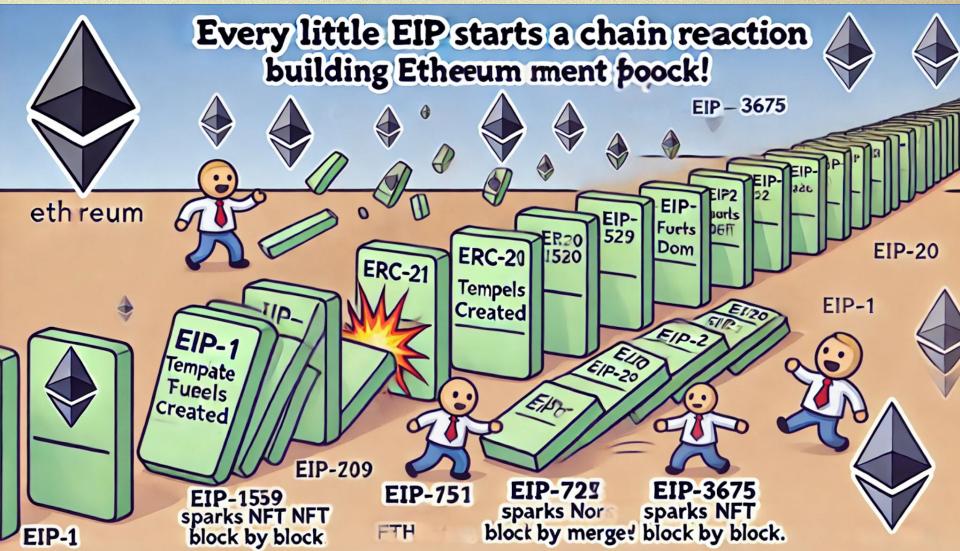
The rise of EthCatHerders

Bring the **minimum amount of order** that chaos needs **to move Ethereum forward** !



- Ethereum Network Upgrade coordination
- Documentation of upgrade postmortem
- **Decoupling of EIP standardization & n/w upgrade process**
- Communication with infrastructure providers & the community

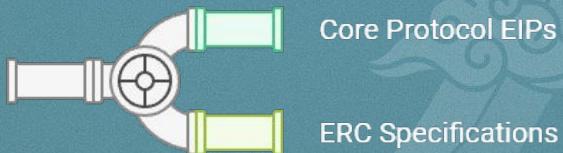
EIPs Shaping Ethereum



EIPs Shaping Ethereum

EIP-5069: EIP Editor Handbook

EIP-7329 Proposal

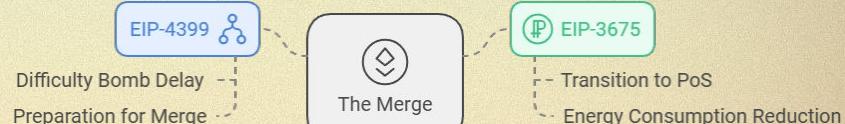


EIP-7587: Reserve Precompile Address Range for RIPs

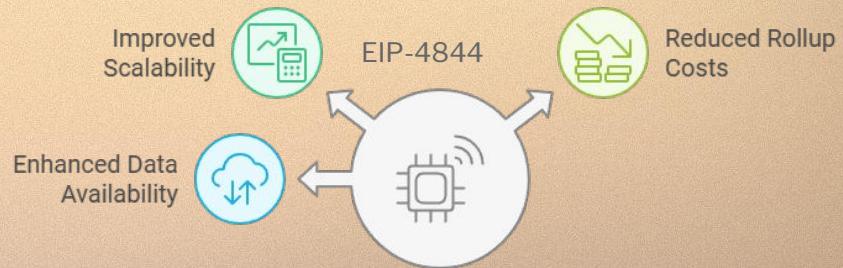
EIP-7723: Network Upgrade Inclusion Process Stages



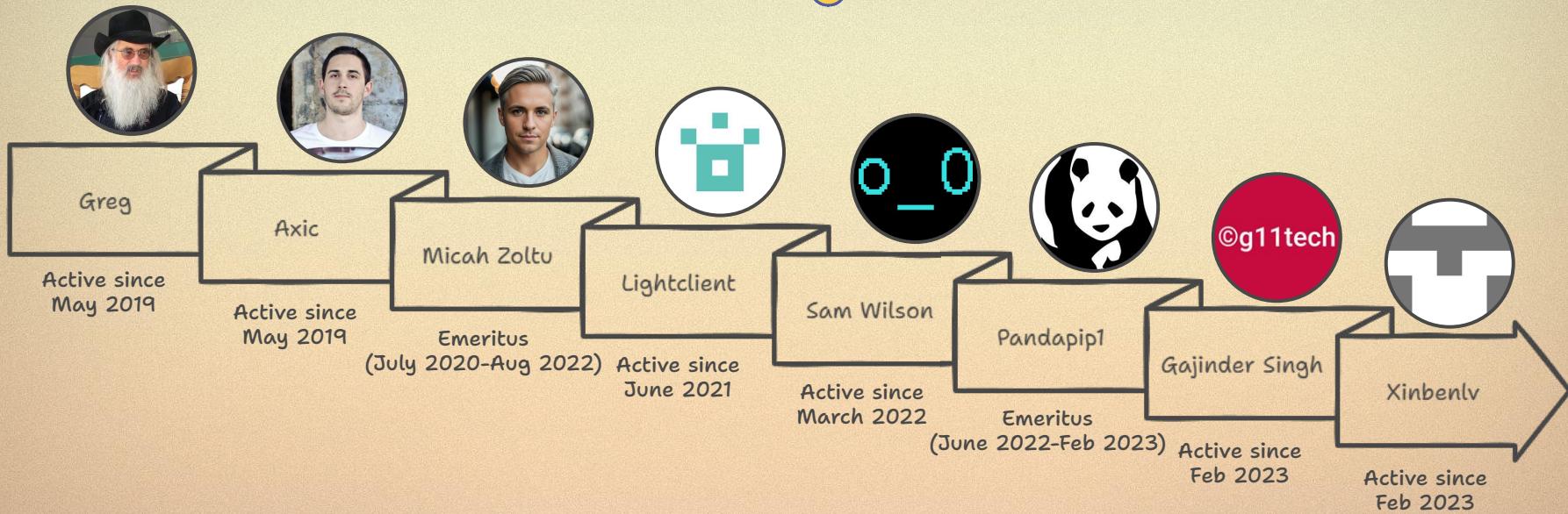
EIP-2982: Serenity Phase 0



EIP-4895: Beacon chain push withdrawals as operations



EIP Editors since 2019



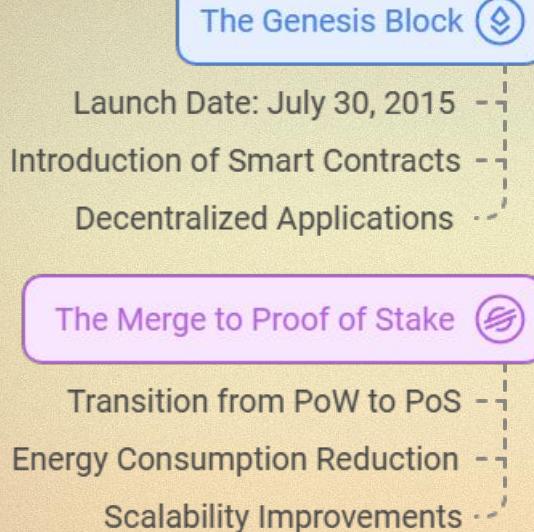


"Magical Moments in EIP History"





Key Events in Ethereum's History



The DAO and Hard Fork

- The DAO Hack
- Community Vote
- Creation of ETH and ETC

The Rise of DeFi

- DeFi Explosion
- Key Projects: Uniswap, MakerDAO, Compound
- Decentralized Trading, Lending, Borrowing

EIP-4844: Proto-Danksharding

- Efficient Data Availability Layer
- Reduced Transaction Costs
- Enhanced Speed and Affordability





Did you know?

Including a "**Security Considerations**" section in a proposal has been mandatory since December 2019.

"**Review**" status was added, and **Network Upgrade Process** decoupled in November 2020.

"Fellowship of Ethereum Magicians" is the only accepted link to proposal's discussion since Nov 2021.

Advice against "**External Link**" added to EIP-1 in March 2022, later formalized as EIP-5757 in September 2022.

EIP "**Sequential Numbering**" was adopted in August 2023, two years after disallowing GitHub Issues.

Ethereum Execution Specification Tests (EEST) is added to allowed resources to EIP-1 in 2024.

Source: GitHub updates to EIP-1



Fun Facts

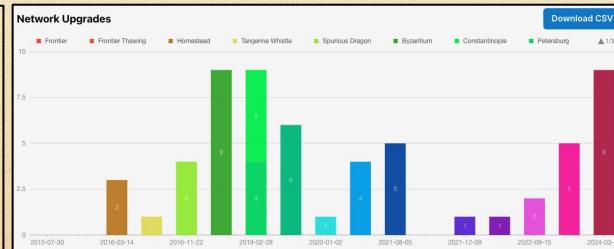


Less than **25%** of EIPs reach Final status.

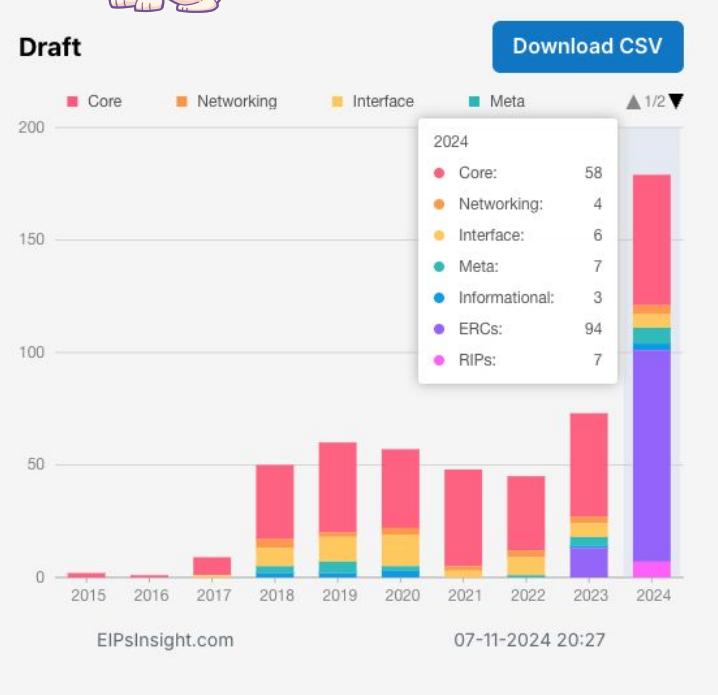


Ethereum Mainnet has deployed **64** Core EIPs.

Max EIPs deployed with an upgrade are **9** in Byzantium & Dencun upgrade.



Max Ethereum Proposal merged as Draft in **2024** where about **52%** are ERCs.



Data Source: <https://eipsinsight.com>

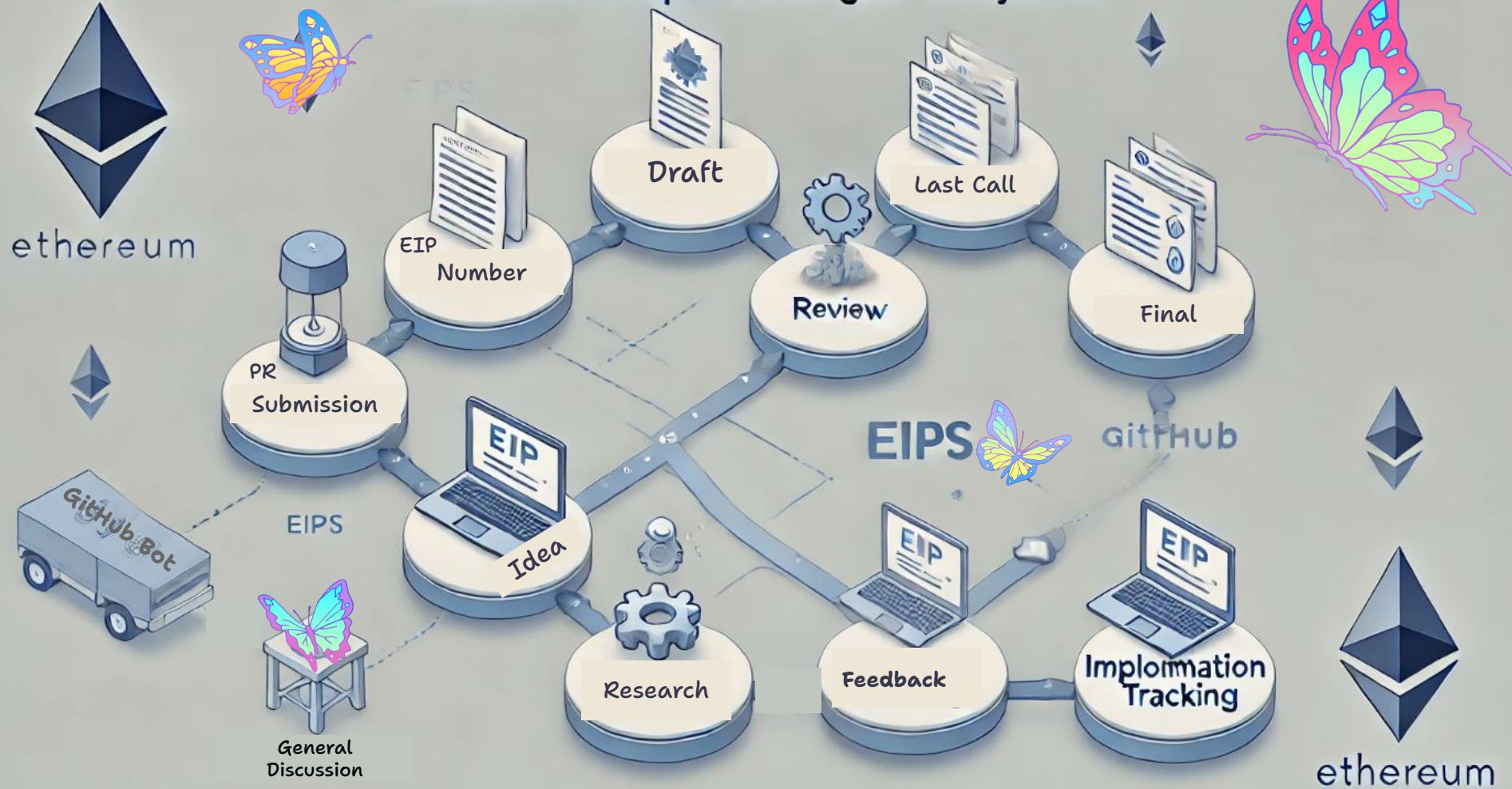




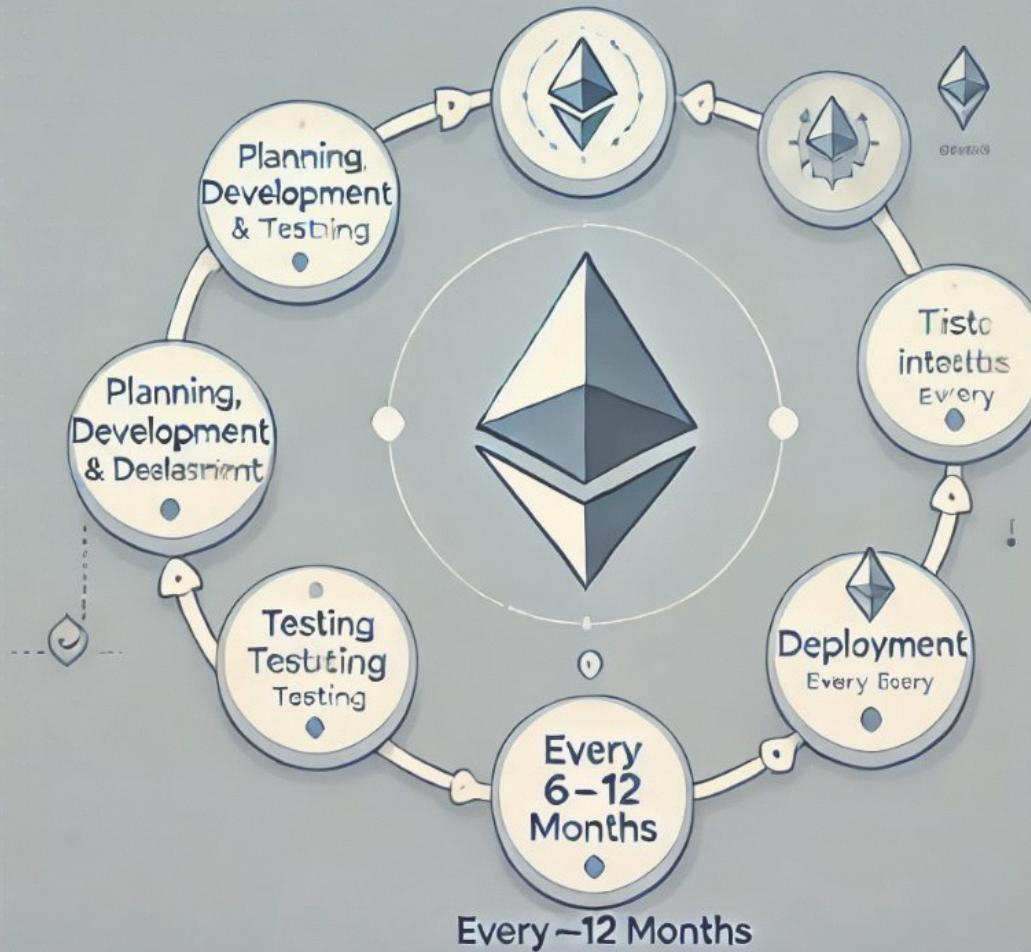
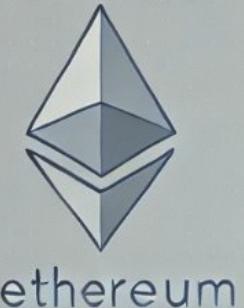
End Game



An Automated Proposal Management System



Predictable Upgrade Cadence



ethereum



A better process for a brighter Ethereum!





Thank you!

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VP, Polygon Labs

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