

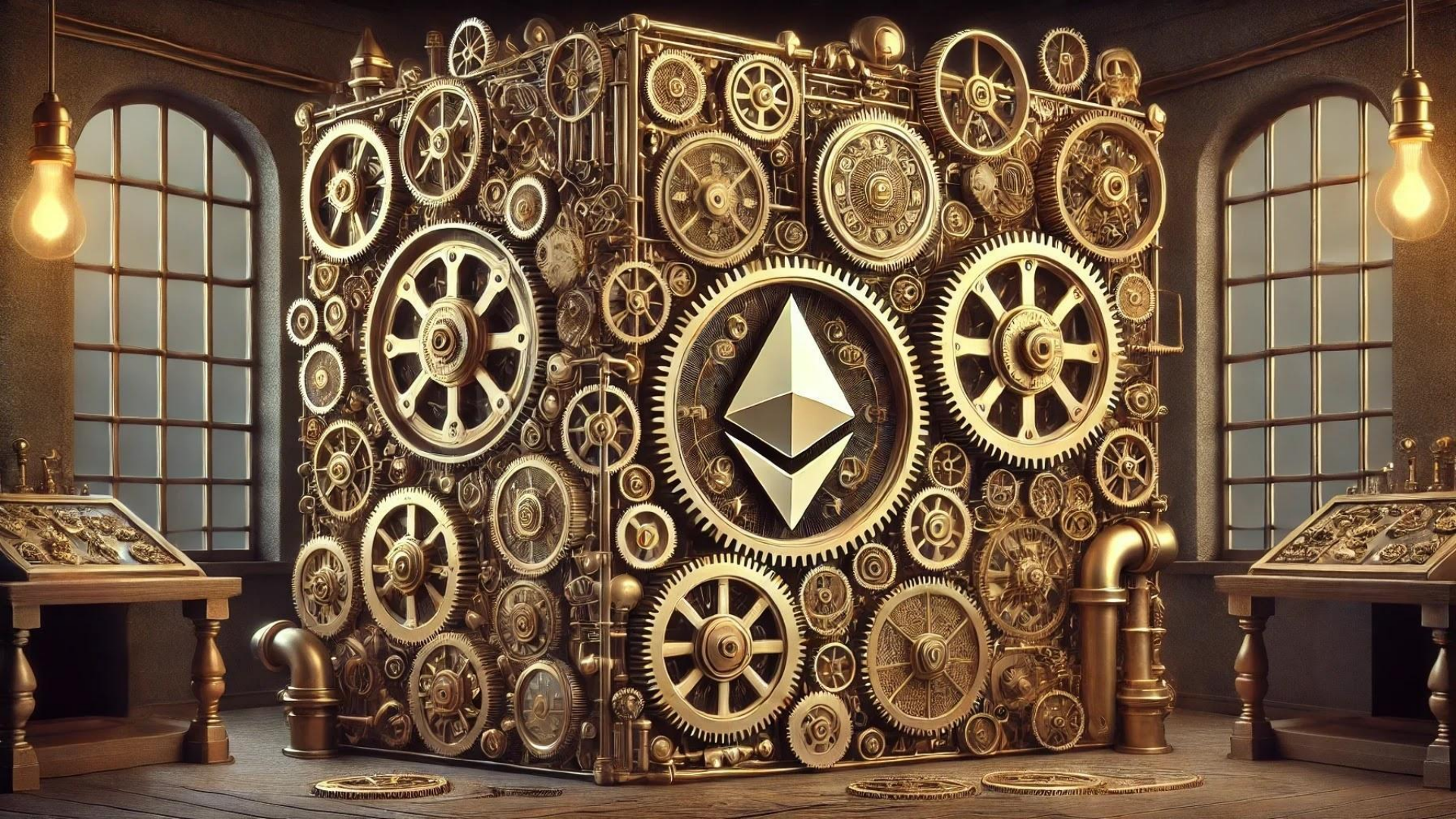
# From Nanoseconds to Decades

The Timescales of Ethereum

Jannik Luhn









# 12 s

Slot





# 2 s

Block propagation



# 250 ms

Transaction propagation



# 100 ms

Network Ping



# 100 ms

Block execution



# 1 ms

Attestation validation





# 100 $\mu$ s

Transaction execution



# 50 $\mu$ s

Signature check



# 350 ns

Hash

The background features a large green gear on the left side and a climbing plant with green leaves and small white flowers on the right side. The text is centered in the middle of the image.

# 10 ns

Single unit of gas





# 12 s

Slot



# 6.4 min

Epoch



# 12.8 min

Finality



# **30 min**

Emergency response





# 2 days

Node syncing



# 2 weeks

AllCoreDevs meetings

also: soon™



# **1 year**

Hard fork



# **2 years**

EIP inclusion





# 2 years

Devcons





# 10 years

Long term features



# 100 years

Ethereum?