

TECH TALK

Blockchain Explained

Ledgers, blocks and real use cases beyond crypto

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DATE
2026

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Image



A shared record that no single party controls.

Why it matters

Overview

- A blockchain is a ledger copied across many computers
- New records are grouped into blocks and linked
- Tampering is hard because every copy must agree
- Uses include supply chains, certificates and payments

KEY IDEA

Not every problem needs a blockchain — a database is often enough.

How it works



Transact

A user submits a transaction



Validate

Nodes check it against rules



Block

Valid transactions form a block



Chain

Block is linked and shared

Core components

01

Ledger

Append-only shared record.

02

Consensus

How nodes agree on the truth.

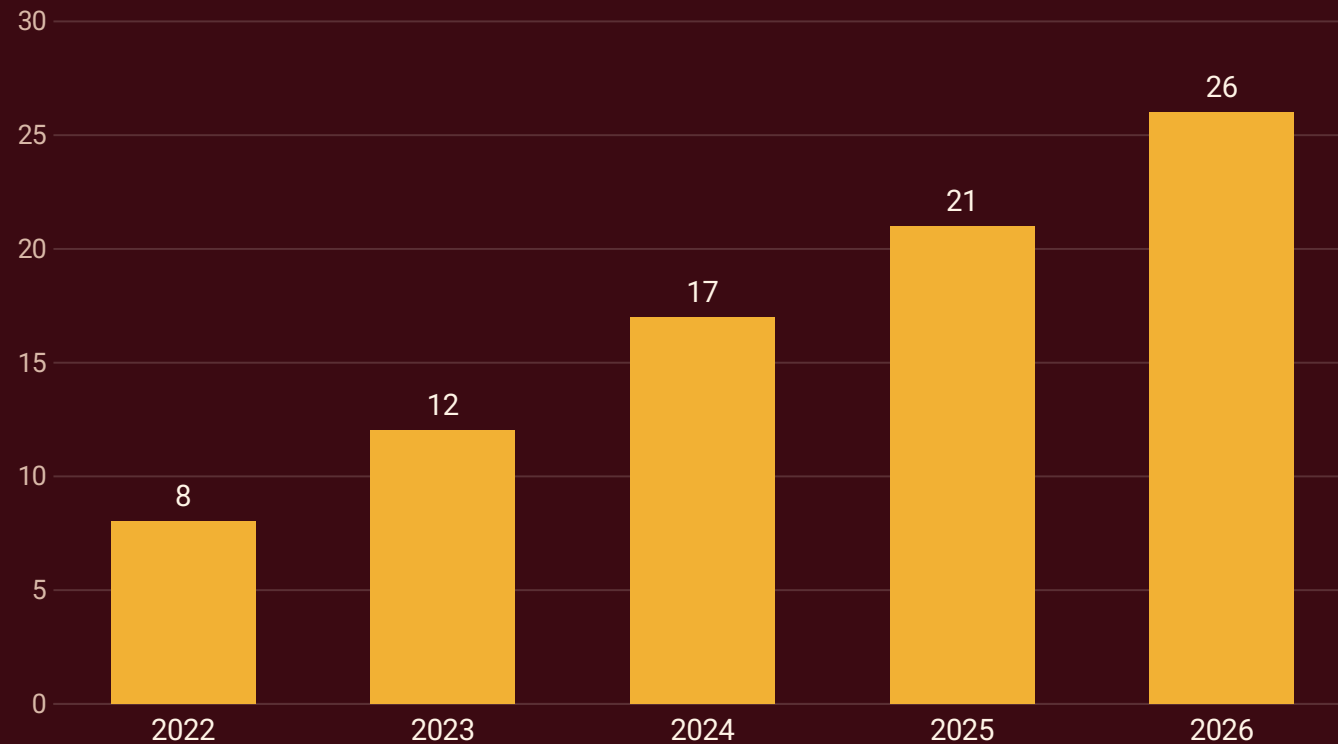
03

Smart contracts

Code that runs on the chain.

TRENDS

Adoption over time



Adoption keeps rising as tools mature (sample data).

Sample data for illustration — replace with your own figures.

APPLICATIONS

Use cases



Image 1

Certificates

Tamper-proof degrees



Image 2

Supply chain

Track goods end to end



Image 3

Land records

Transparent ownership

Benefits and risks

Benefits

- Tamper-evident records
- No single point of control
- Transparent audit trail

vs

Risks

- Energy and cost concerns
- Hard to fix mistakes
- Regulation still evolving

Best practices

01

Start small

Pilot one use case.

02

Mind privacy

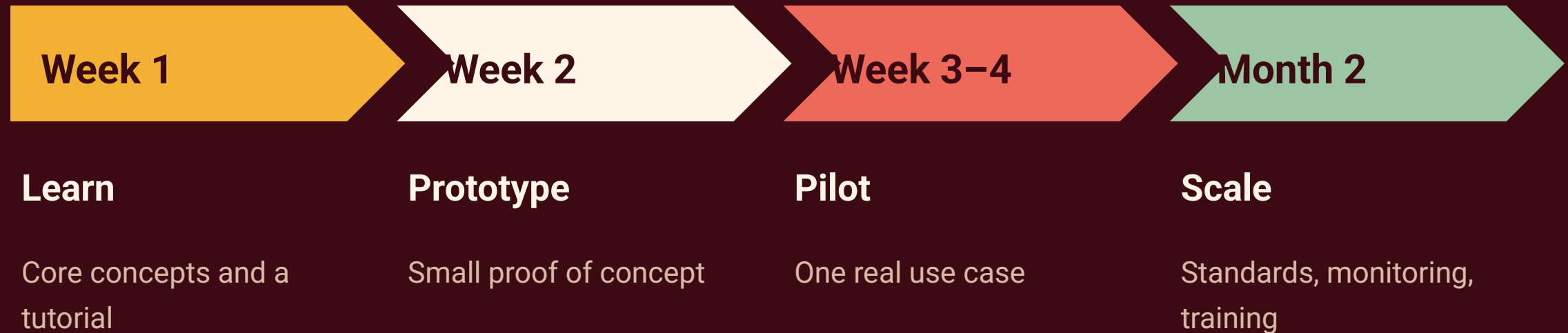
Keep personal data off-chain.

03

Plan governance

Who decides upgrades?

Getting started roadmap





Questions?

Thanks for your time.

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