

# L30: Distribution and Vesting

## Module D: Tokenomics

Blockchain & Cryptocurrency

December 2025

- Understand token allocation categories and their purposes
- Analyze vesting schedules and cliff periods
- Evaluate the impact of unlock events on token price
- Apply distribution analysis to real projects
- Case Study: Solana token unlocks

# Token Distribution Overview

**Definition:** The initial allocation of tokens among different stakeholder groups.

## Common Allocation Categories:

- Team and Founders
- Early Investors (Seed, Series A/B/C)
- Advisors
- Community Sale (ICO/IEO/IDO)
- Ecosystem Development
- Liquidity Provision
- Foundation/Treasury
- Airdrops

**Goal:** Balance early supporter rewards with long-term community alignment.

# Typical Allocation Breakdown

## Example Distribution (Healthy Project):

Category	Percentage
Team & Founders	15-20%
Investors (VCs)	15-25%
Community Sale	10-20%
Ecosystem & Development	20-30%
Liquidity & Market Making	5-10%
Foundation/Treasury	10-15%
Advisors	2-5%

**Red Flag:** Team + Investors  $\geq$  50% indicates high centralization risk.

**Purpose:** Incentivize long-term commitment and alignment.

## Best Practices:

- Allocation: 15-20% of total supply
- Vesting: 4 years minimum
- Cliff: 1 year (no tokens until 12 months)
- Linear unlock after cliff

## Why Long Vesting?

- Prevents “pump and dump” by insiders
- Demonstrates commitment to project
- Aligns incentives with long-term success
- Builds trust with community

**Example:** Team gets 20M tokens, 1-year cliff, then 416,667 tokens/month for 48 months.

## Typical Investment Rounds:

Round	Allocation	Price	Vesting
Seed	5-10%	Lowest	2-3 years
Series A	5-10%	Low	18-24 months
Series B	5-10%	Medium	12-18 months
Public Sale	10-15%	Highest	0-6 months

## Key Considerations:

- Earlier investors = longer vesting
- Discount compensates for higher risk
- Too many investors = fragmented governance
- VC unlock events can cause price pressure

## 1. ICO (Initial Coin Offering) - 2017 Era

- Direct token sale to public
- Minimal regulation (historically)
- High risk, many scams

## 2. IEO (Initial Exchange Offering)

- Conducted on centralized exchange
- Exchange vets project (some due diligence)
- More trusted than ICO

## 3. IDO (Initial DEX Offering)

- Launch on decentralized exchange
- Immediate liquidity
- Lower barriers, but high volatility

## 4. Fair Launch

- No pre-sale or VC rounds
- Everyone buys at same price
- Example: Yearn Finance (YFI)

# Ecosystem and Development Fund

**Purpose:** Fund long-term growth and sustainability.

**Uses:**

- Developer grants
- Bug bounties
- Marketing and partnerships
- Liquidity incentives
- Research and development
- Educational initiatives

**Governance:**

- Controlled by foundation or DAO
- Transparent spending reports
- Community voting on large allocations

**Typical Allocation:** 20-30% of total supply.

# What is Vesting?

**Definition:** A schedule that controls when token holders can access their allocated tokens.

## Key Terms:

- **Cliff Period:** Initial waiting period before any tokens unlock
- **Vesting Period:** Total duration until all tokens are unlocked
- **Linear Vesting:** Equal amounts unlock at regular intervals
- **Unlock Event:** Specific date when tokens become transferable

## Example:

- Total allocation: 1,000,000 tokens
- Cliff: 12 months (0 tokens unlocked)
- Vesting: 48 months total
- After cliff: 27,778 tokens unlock per month for 36 months

## 1. Linear Vesting

- Equal amounts released each period
- Most common and predictable
- Example: 1/48th per month for 4 years

## 2. Stepped Vesting

- Larger chunks at specific milestones
- Example: 25% per year for 4 years

## 3. Accelerated Vesting

- Faster unlock at beginning
- Risky: encourages early selling

## 4. Reverse Vesting (Back-loaded)

- More tokens unlock later
- Stronger long-term alignment
- Rare in practice

# Cliff Periods

**Purpose:** Ensure minimum commitment before any tokens unlock.

## Typical Cliff Durations:

- Team: 12 months
- Investors: 6-12 months
- Advisors: 6 months
- Community: Often 0 (immediate unlock)

## Why Use Cliffs?

- Prevents immediate dumping
- Tests commitment of team/advisors
- Provides time for project to mature
- Reduces initial circulating supply

**Investor Perspective:** Cliffs protect against early team departures.

**Definition:** Dates when large amounts of vested tokens become tradable.

## Market Impact:

- Increase circulating supply
- Potential selling pressure
- Price often drops before/during unlock
- Market anticipates and prices in

## Types of Unlocks:

- ① **Cliff Unlocks:** Large one-time release
- ② **Linear Unlocks:** Continuous monthly/daily releases
- ③ **TGE (Token Generation Event):** Initial launch unlocks

**Tracking:** Use tools like Token Unlocks, Messari, CoinGecko to monitor upcoming events.

# Case Study: Solana (SOL) Unlocks

## Background:

- Total supply: 500M SOL (inflating to 700M by 2030)
- Major unlocks from 2021-2025
- Massive VC backing (a16z, Multicoin, etc.)

## Key Unlock Events:

- **Jan 2023:** 13.8M SOL unlocked (seed investors)
- **Mar 2023:** 17.8M SOL unlocked (early investors)
- **Ongoing:** Monthly validator/foundation unlocks

## Price Impact:

- SOL price dropped 15-20% around major unlocks
- Market frontrun events (selling days before)
- Long-term recovery as adoption grew

# Solana Distribution Breakdown

## Initial Allocation (2020):

Category	Percentage
Community & Ecosystem	38.9%
Team	12.5%
Foundation	10.5%
Seed Sale	15.9%
Founding Sale	5.1%
Validator Sale	5.1%
Strategic Sale	1.8%
Public Auction	1.6%
CoinList Sale	1.3%

## Observations:

- Insiders (team + investors): 35%
- Long vesting helped manage dilution

## Strategies to Mitigate Selling Pressure:

### ① Staking Incentives

- Offer high yields to lock unlocked tokens
- Example: Solana staking 7% APY

### ② Gradual Unlocks

- Daily/monthly instead of quarterly
- Smooths supply shock

### ③ Lockup Extensions

- Voluntary additional vesting
- Bonus tokens for extended locks

### ④ Strong Fundamentals

- Demand growth offsets supply increase
- Usage-driven value accrual

# Airdrops as Distribution

**Definition:** Free distribution of tokens to users based on specific criteria.

## Common Airdrop Types:

- **Retroactive:** Reward past users (Uniswap UNI)
- **Holder Airdrop:** To existing token holders
- **Task-based:** Complete specific actions
- **Governance:** For DAO participation

## Benefits:

- Bootstrap community
- Decentralize ownership
- Reward early adopters
- Generate buzz and awareness

## Risks:

- Airdrop hunters (not genuine users)
- Immediate selling pressure
- Sybil attacks (multiple wallets)

# Famous Airdrop: Uniswap (UNI)

## September 2020 Airdrop:

- 400 UNI per address that used Uniswap before Sept 1, 2020
- 250,000 addresses eligible
- Total airdropped: 150M UNI (15% of supply)
- Value at claim: \$1,200 per user

## Impact:

- Instant governance decentralization
- Massive publicity and user growth
- Many users held long-term (strong community)
- Set standard for future DeFi airdrops

**Key Insight:** Retroactive airdrops reward genuine users, not speculators.

## Why Transparency Matters:

- Builds trust with community
- Allows informed investment decisions
- Prevents surprise dilution
- Demonstrates professionalism

## Best Practices:

- Publish detailed vesting schedule
- On-chain vesting contracts (immutable)
- Real-time unlock tracking dashboards
- Regular updates from foundation

## Tools:

- Token Unlocks ([tokenunlocks.app](https://tokenunlocks.app))
- Messari ([messari.io/asset/\[token\]/profile](https://messari.io/asset/[token]/profile))
- Project documentation (tokenomics page)

## Warning Signs:

### ① Excessive Insider Allocation

- Team + VCs  $\geq$  50%

### ② Short or No Vesting

- Team vesting  $<$  2 years
- No cliff period

### ③ Opaque Distribution

- No published allocation details
- Unknown wallet holders

### ④ Unrealistic Promises

- Guaranteed high yields from unlocked tokens

### ⑤ Centralized Control

- Foundation holds  $\geq 30\%$  indefinitely

# Analyzing a Project's Distribution

## Step-by-Step Checklist:

- ① Find tokenomics documentation (website, whitepaper)
- ② Identify total supply and initial circulating supply
- ③ Review allocation percentages by category
- ④ Check vesting schedules (duration, cliffs)
- ⑤ Look up upcoming unlock events
- ⑥ Verify on-chain vesting contracts
- ⑦ Calculate potential dilution over time
- ⑧ Compare to industry benchmarks

## Questions to Ask:

- How much supply is locked vs. circulating?
- When are the next major unlocks?
- Are insiders incentivized to hold long-term?

# 2024 Trend: Points Programs (Pre-Token Distribution)

## What are Points?

- Off-chain loyalty system tracking user activity
- Converted to tokens at future TGE (Token Generation Event)
- Replaced traditional airdrops as primary distribution mechanism

## How Points Work:

- ① Protocol tracks user actions (deposits, trades, referrals)
- ② Users accumulate “points” proportional to activity
- ③ At TGE, points convert to tokens based on total points issued
- ④ Conversion ratio unknown until announcement

## Examples (2024):

- **EigenLayer**: Points for restaking, major airdrop anticipation
- **Blast**: Points + Gold for L2 deposits, high-profile launch
- **Ethena**: Points for USDe staking, converted to ENA token

**Criticism:** Opaque, favors whales, mercenary capital, unclear value

## Key Takeaways:

- Token distribution determines ownership concentration
- Healthy projects: Team + VCs | 40%, long vesting (3-4 years)
- Cliff periods prevent immediate insider selling
- Unlock events create predictable selling pressure
- 2024 Trend: Points programs replacing traditional airdrops
- Transparency in vesting builds trust
- Always check Token Unlocks before investing

**Next Lecture:** Token Classification and Valuation - Regulatory frameworks and how to value tokens.

## Questions for Reflection

- ① Why do early investors typically have longer vesting than public sale participants?
- ② How did Solana's unlock events impact its price trajectory?
- ③ What are the pros and cons of retroactive airdrops vs. task-based airdrops?
- ④ How can a project mitigate selling pressure during major unlocks?
- ⑤ What vesting schedule would you design for a new token launch?