🏛️ GovDAO

Decentralized Governance on Gno.land

What is a DAO?

DAO = **D**ecentralized **A**utonomous **O**rganization

- **No central authority**

- **Members vote** on **Proposal**

- Manual execution through **Smart contracts**

Two Types:

- **Permissioned** - Only invited members can participate

- **Permissionless** - Anyone can join and vote through public procedure

🌐 What is GovDAO?

GovDAO is the **Governance DAO of Gno.land**

It is a **permissioned** DAO with **3 tiers** optional based voting Built with a **proxy pattern** for upgradeability and safety

How it works:

1. 📝 DAO's members submit **proposals** through the proxy

2. 🗳️ Members **vote** based on their tier privileges

3. 🚀 Approved proposals can be executed with **supermajority** (66%)

- All voters must have **registered namespaces**

🏗️ Three-Tier Membership System

Tier-based voting is optional - depends on proposal's filter configuration

T1	**T2**	**T3**
Highest Tier	**Mid Tier**	**Base Tier**
Vote on Everything	Vote on T2 & T3	Vote on T3 Only

Tier assignment and invitation points is determined at genesis

🔄 GovDAO Flow: Creation & Voting

```
┌────────────────────┐      ┌─────────────────┐      ┌─────────────────┐          ◇
│ 👤 Member Creates   │ ───► │ r/gov/dao Proxy │ ───► │ r/gov/dao/v3/impl│ ───►   Voting Setup
│    Proposal         │      └─────────────────┘      └─────────────────┘          ◇
└────────────────────┘
```

```
                          ◇
   ┌──────────┐    Supermajority Reached?    YES ≥ 66%    ┌──────────────────┐   Manual trigger   ┌──────────────────┐
   │ 📦 Voting │ ◄──                                        │ ✅ Proposal Passed│ ───────────────►  │ ⚡ Execute Proposal│
   └──────────┘    ◄── Not yet                              └──────────────────┘                   └──────────────────┘
                          ◇         NO ≥ 66%    ┌──────────────────┐
                                                 │ ❌ Proposal Denied│
                                                 └──────────────────┘
```
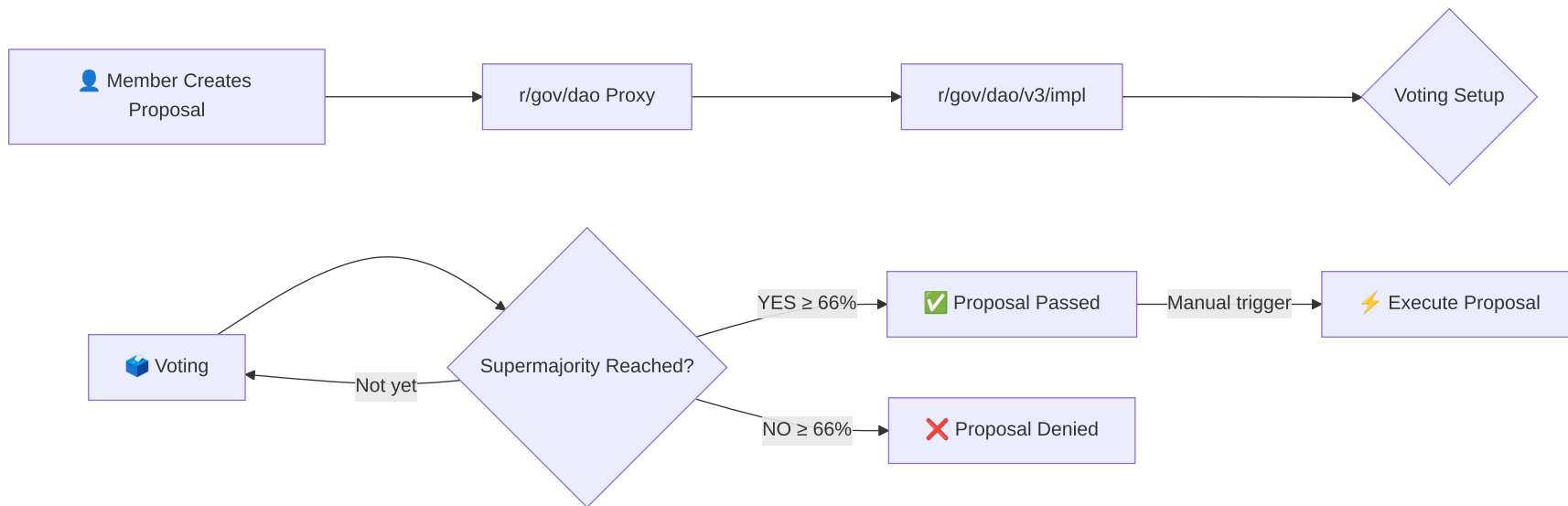
📝 How to Create a Proposal
Step 1: Prepare Your Executor

```go
// Simple Executor - basic execution
executor := dao.NewSimpleExecutor(
    func(realm) error {
        // Your code to execute if proposal passes
        return nil
    },
    "Description of what this will do",
)

// OR Safe Executor - only allowed DAOs can execute (Not usable in v3)
safeExecutor := dao.NewSafeExecutor(executor)
```

📝 How to Create a Proposal

Step 2: Create the Request

```go
// Basic request
request := dao.NewProposalRequest(
    "Proposal Title",
    "Detailed description ... ",
    executor,
)

// OR with filter (for tier-based voting)
request := dao.NewProposalRequestWithFilter(
    "Add T1 Member",
    "Proposal to add new T1 member ... ",
    executor,
    FilterByTier{Tier: memberstore.T1}, // Only T1 can vote
)
```

📝 How to Create a Proposal
Step 3: Submit (Members Only!)

```go
proposalID, err := dao.CreateProposal(request)
```

🗳️ How to Vote on a Proposal

Find the proposal ID & submit your vote:

```
// Simple CLI voting
dao.MustVoteOnProposalSimple(proposalID, "YES") // or "NO", "ABSTAIN"
```

```
# Example gnokey command:
gnokey maketx call \
  -pkgpath "gno.land/r/gov/dao" \
  -func "MustVoteOnProposalSimple" \
  -args "123" \
  -args "YES" \
  -gas-fee "1000000ugnot" \
  -gas-wanted "2000000" \
  -broadcast \
  -chainid "staging" \
  -remote "https://rpc.test9.testnets.gno.land:443" \
  yourkeyname
```

🗳️ How to Vote on a Proposal
Requirements:

- Must be a member

- Must have a namespace (identity)

- Your tier must be allowed for this proposal

- One vote per member

- Proposal must still be open

🎯 What can GovDAO vote on?

- Treasury Operations

- Member Management

- Protocol Parameters

- Governance Rules

- System Configuration

💡 Execution Through Proposals

Any programmable action within Gno can be voted on!

Example: Treasury Payment

```go
executor := dao.NewSafeExecutor(
    dao.NewSimpleExecutor(
        func(cur realm) error {
            return treasury.Send(cross, treasury.Payment{
                BankerID: "coins",
                To: "g1developer...",
                Amount: "1000000ugnot",
                Memo: "Development grant",
            })
        },
        "Pay developer 1000 GNOT",
    ),
)
```

🌍 DAOs in Blockchain

Examples:

- **The DAO (2016)** - First major experiment on Ethereum

- **MakerDAO** - Decentralized finance and stablecoin governance

- **Uniswap DAO** - Decentralized exchange governance