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# Approaching Infinity:

## Governance, and the case for experimentation

By Brett Sun 

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# Approaching Infinity:

## Governance, and the case for experimentation

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Or perhaps better put,

Let's throw things on the wall...  
and see what sticks

(And why we want that)



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# So what am I going to talk about?

“Micro” (intra-network) governance, e.g.

*Communities*  
**NOT** blockchains



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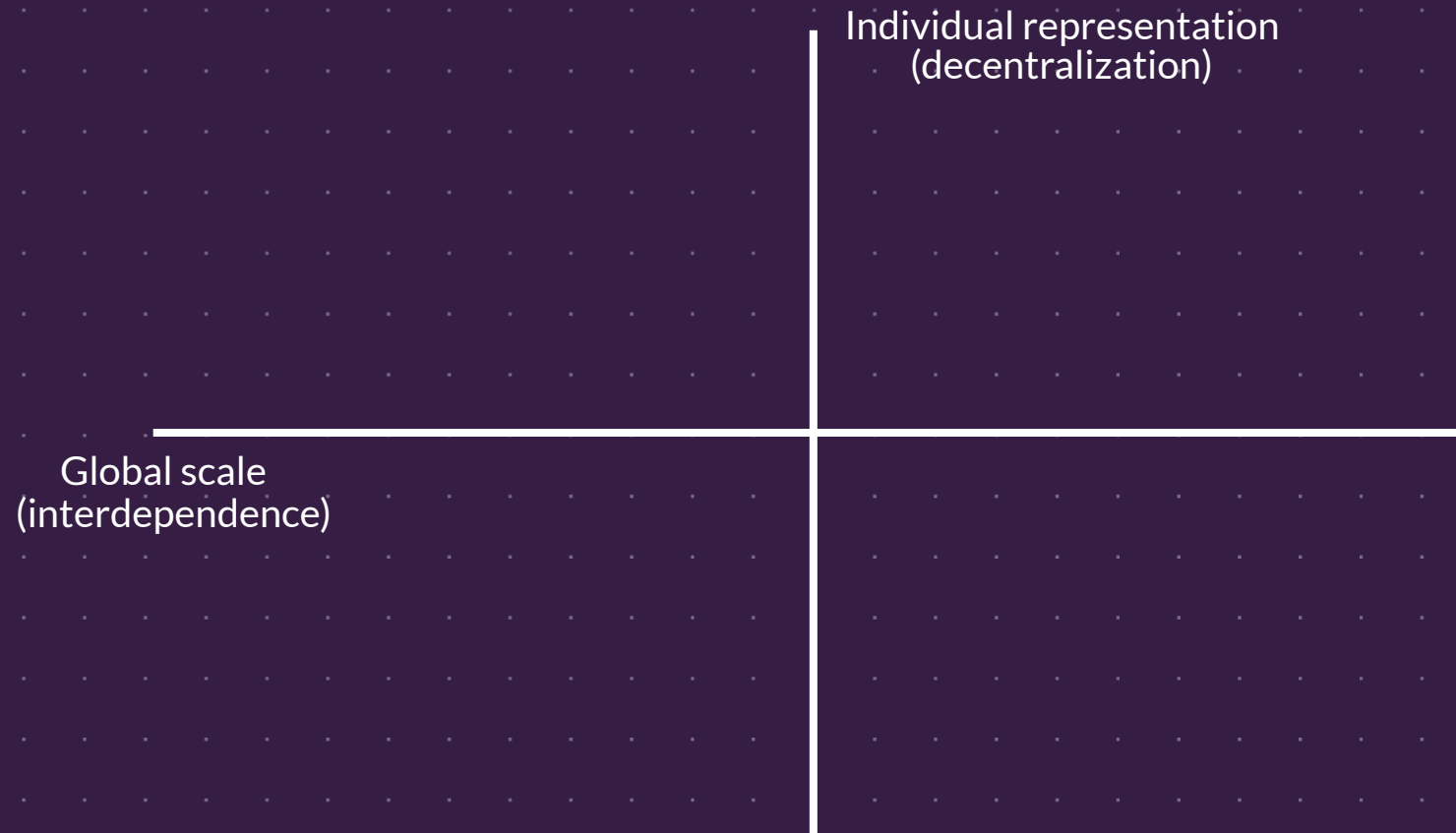
The most successful projects will be  
*communities*, not startups



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# A brief history of governance

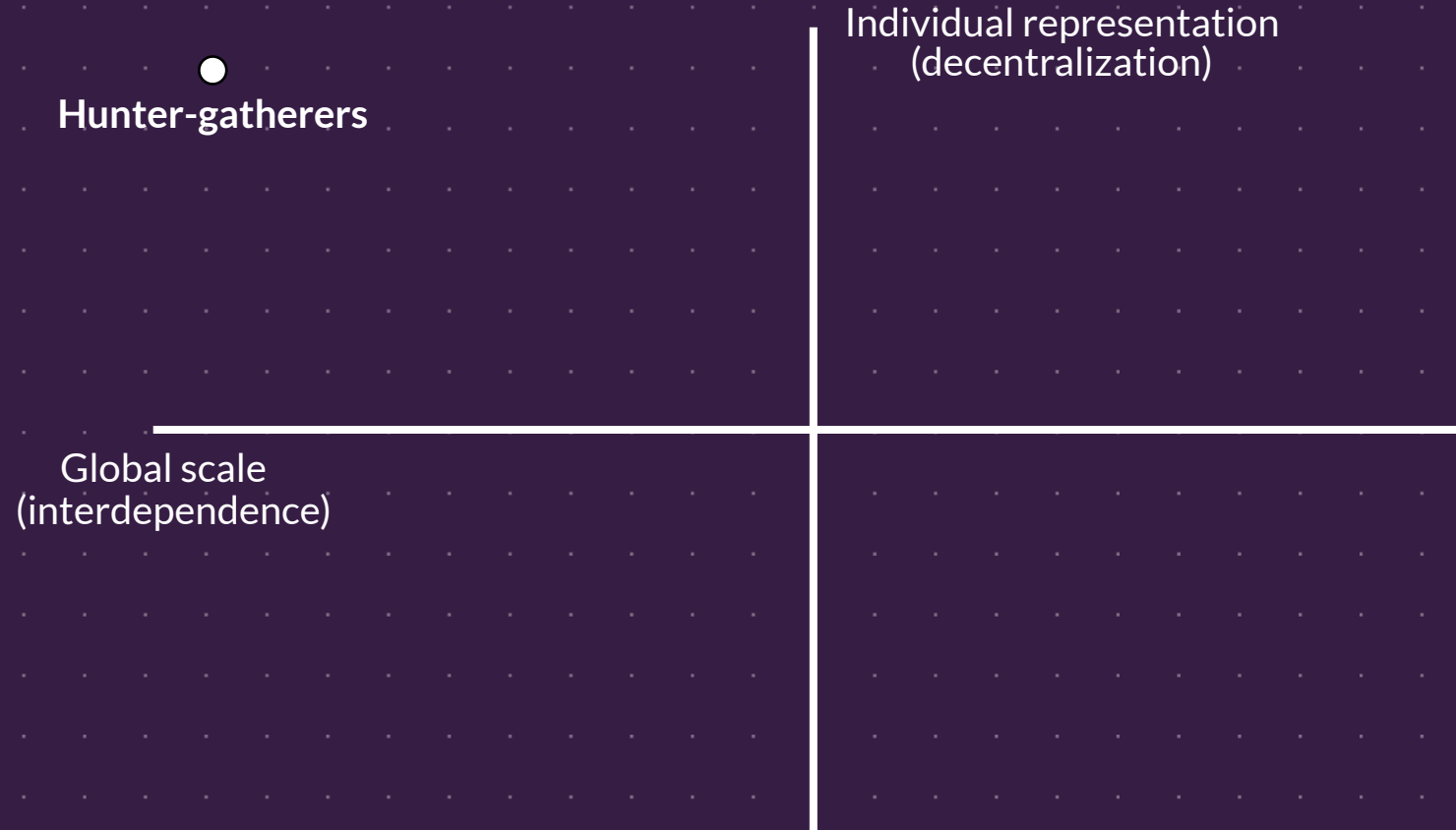


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# A brief history of governance



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# A brief history of governance



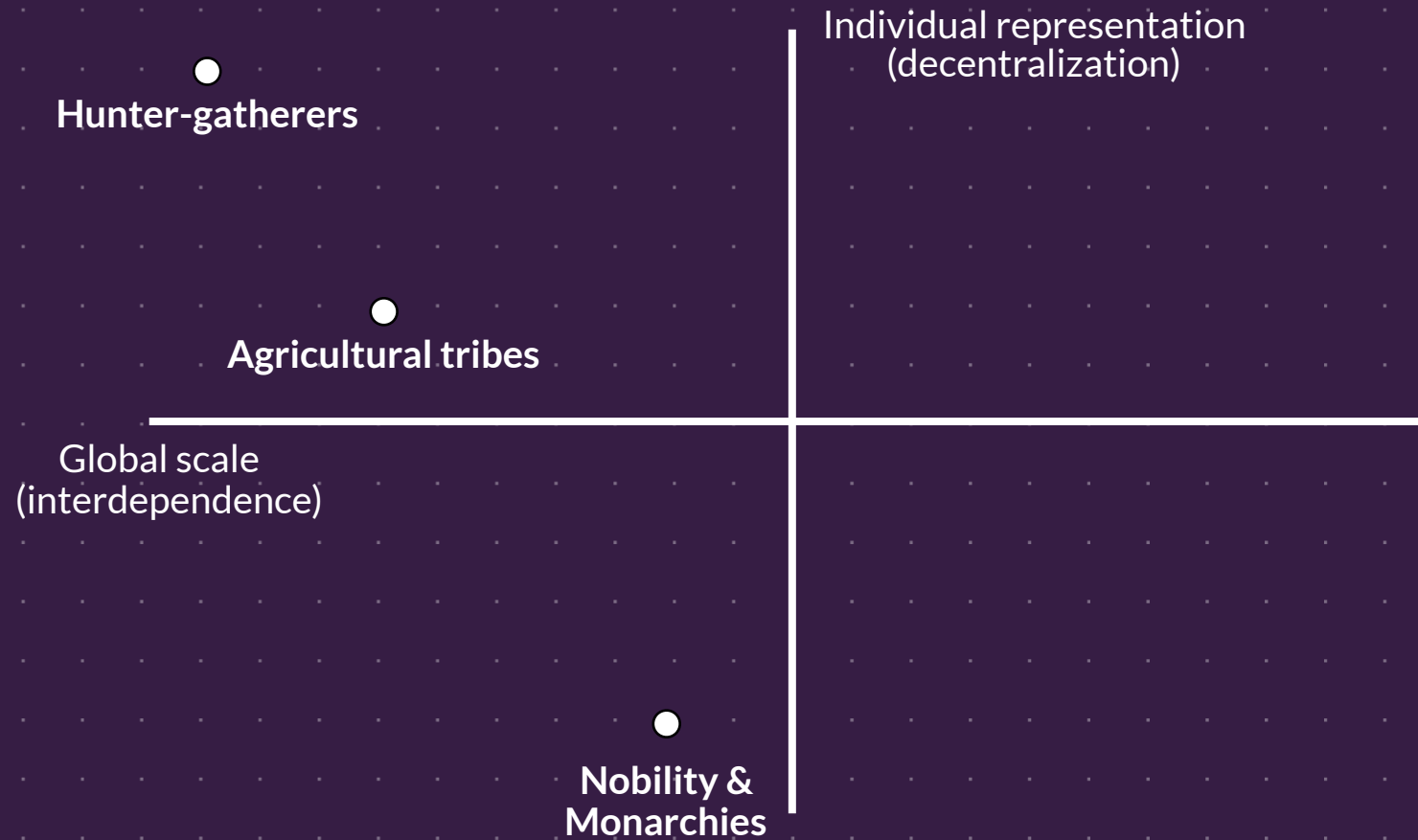
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# A brief history of governance

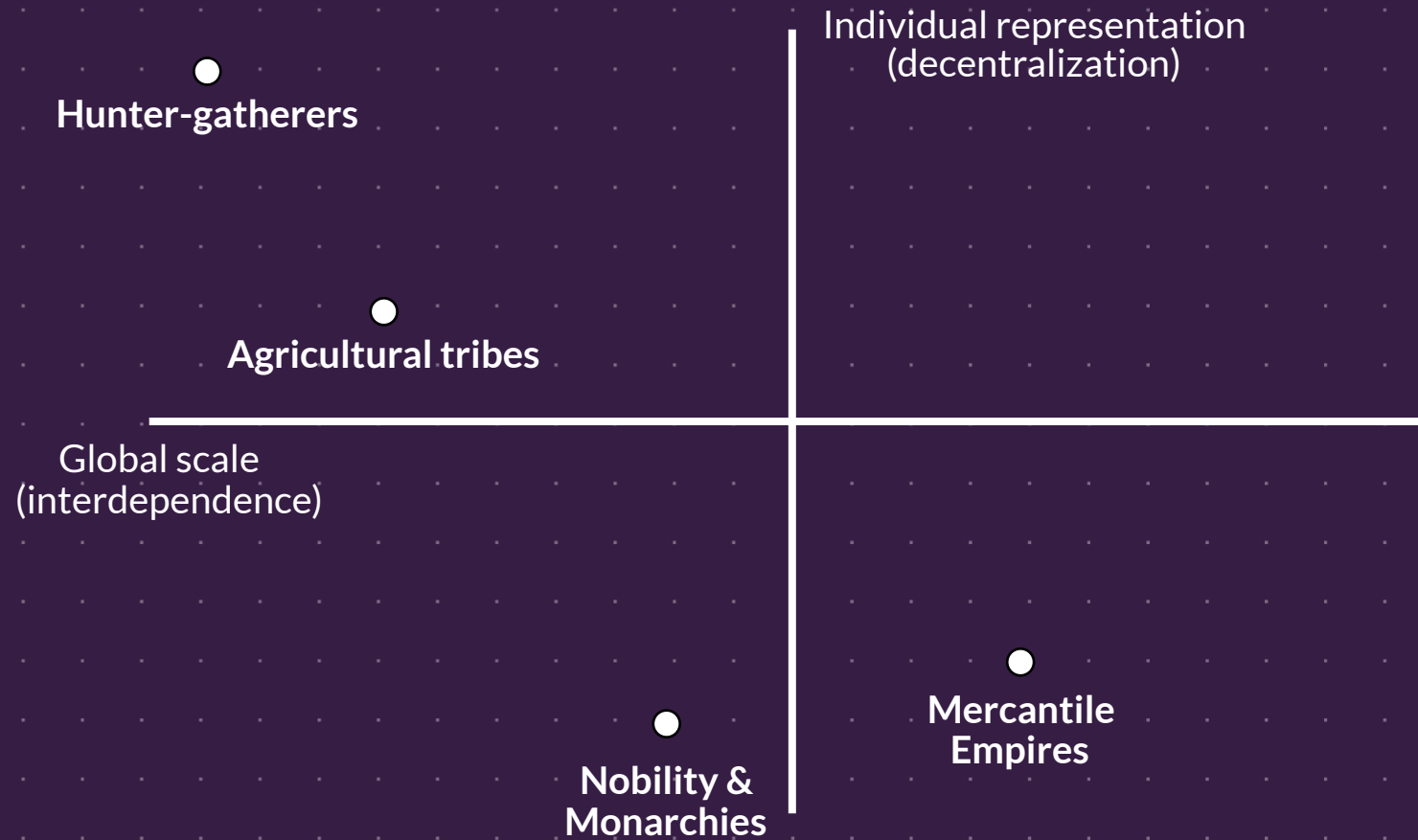


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# A brief history of governance

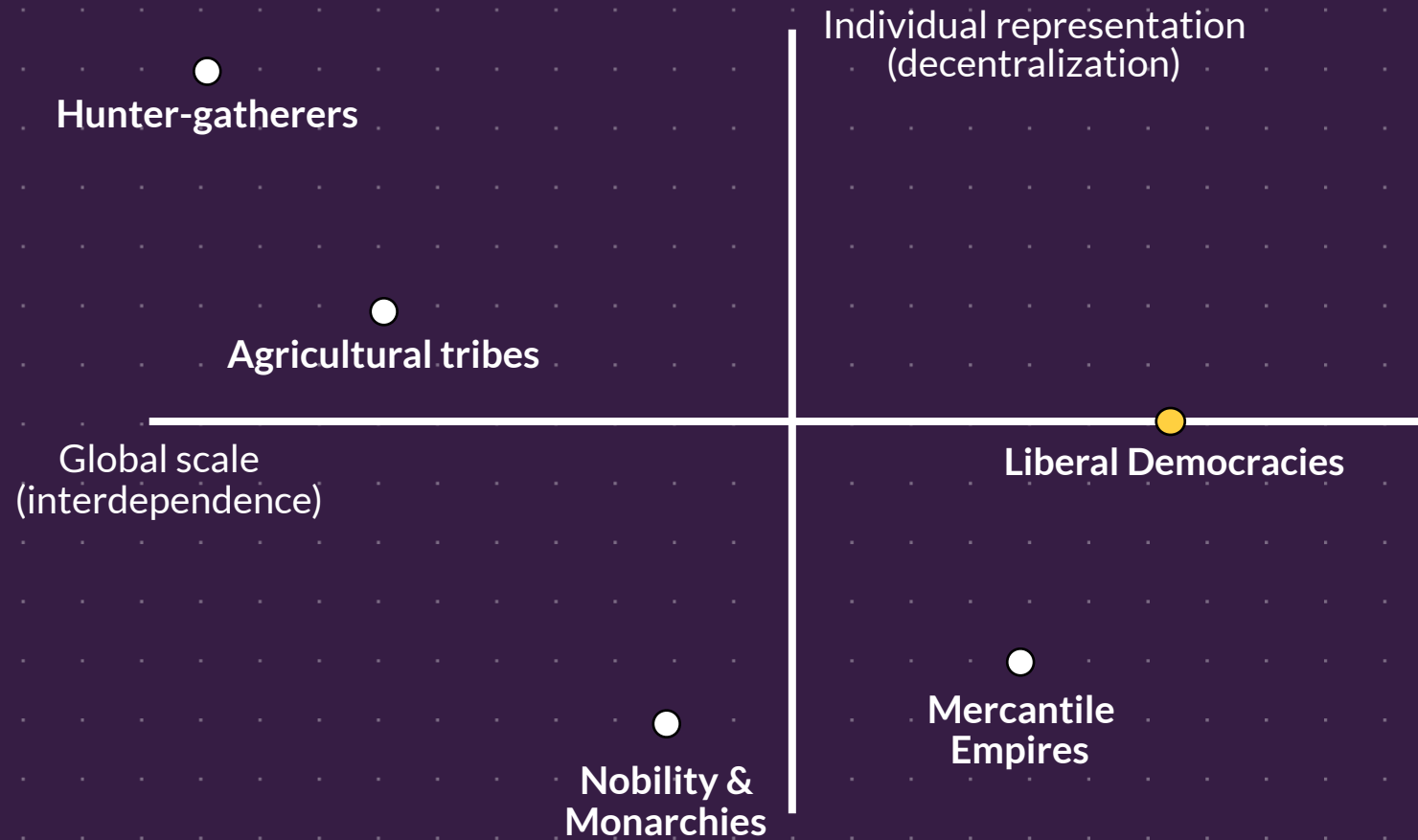


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# A brief history of governance



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# Well, what's the point?



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“Centralized system[s] will necessarily need people who are not directly exposed to the cost of errors”

Nassim Taleb,  
Skin in the Game



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“Computers and networks are cheap...  
computer science secures money  
*[and scales society]* far better than  
accountants, police, *[politicians,]* and  
lawyers”

Nick Szabo,  
Money, blockchains,  
and social scalability



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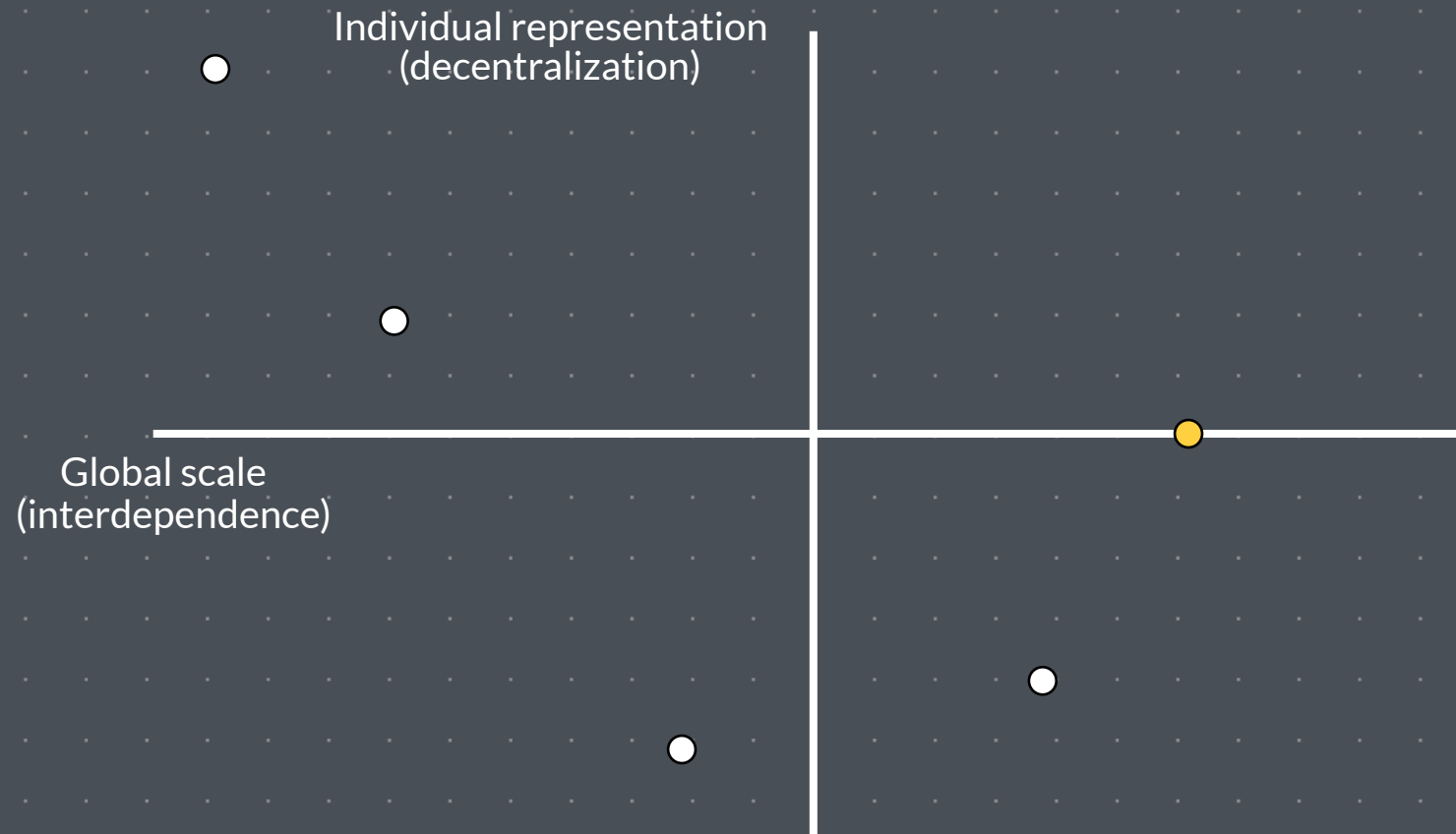
**Do you really want to trust those  
without skin in the game to maximize  
your community's ability to socially  
scale?**

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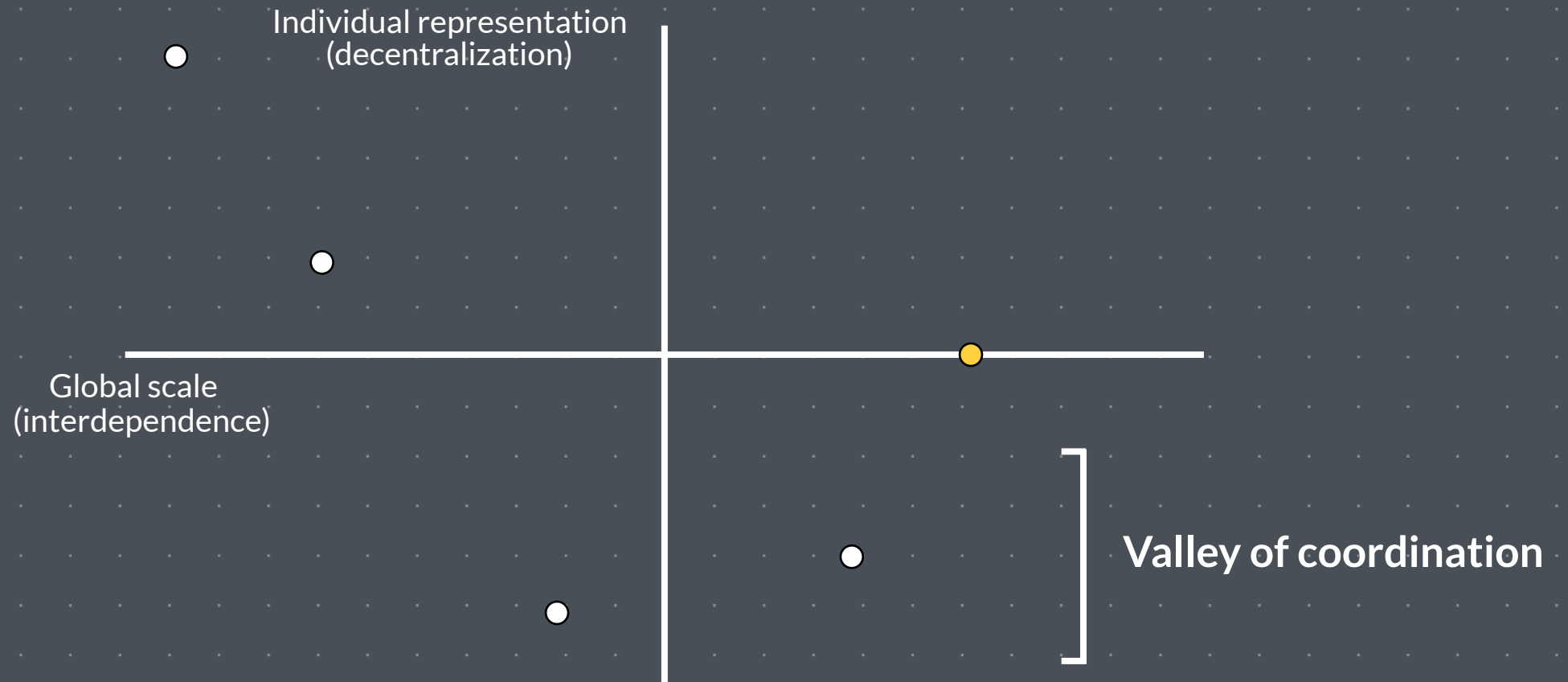


# The future of governance

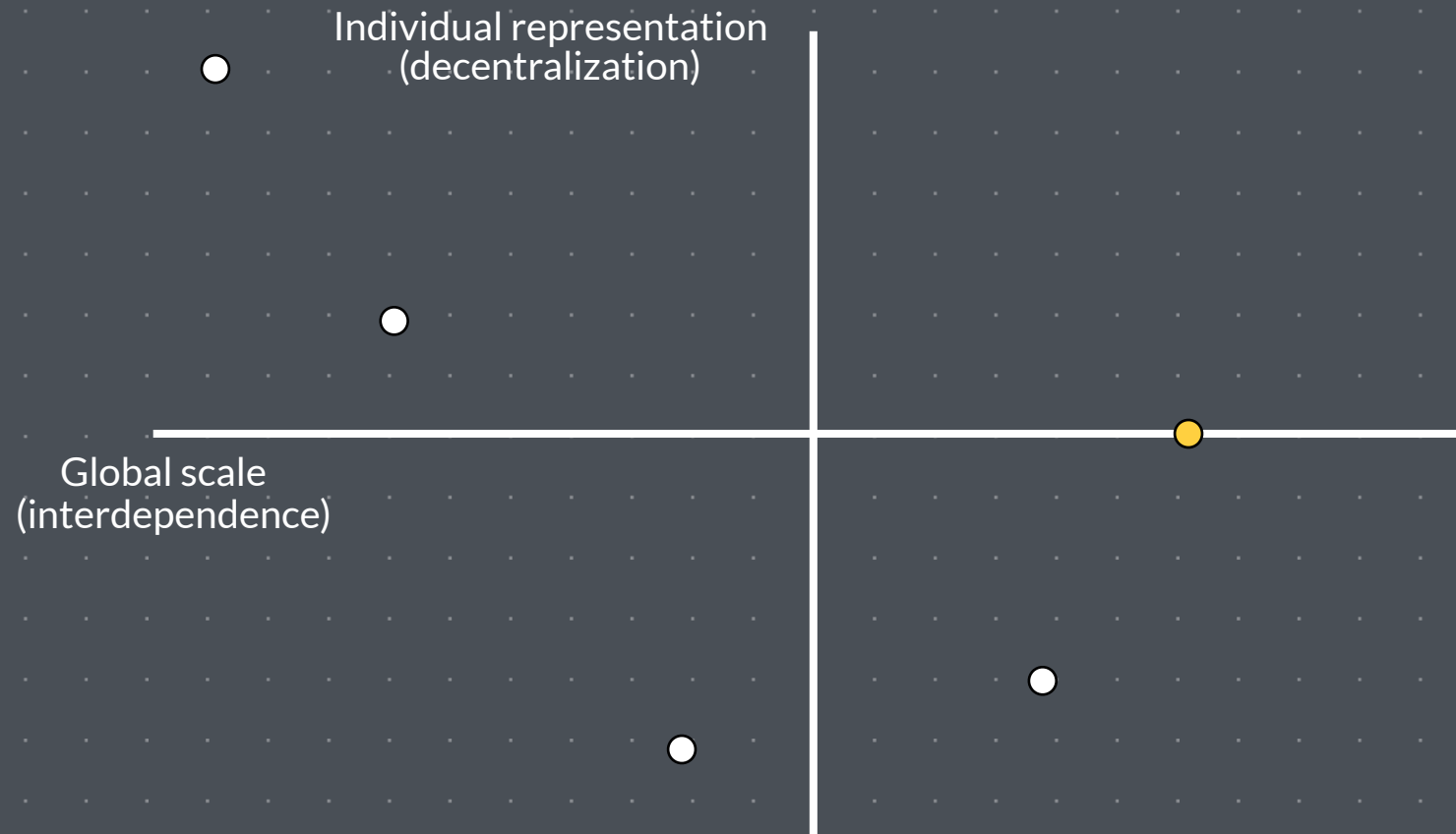




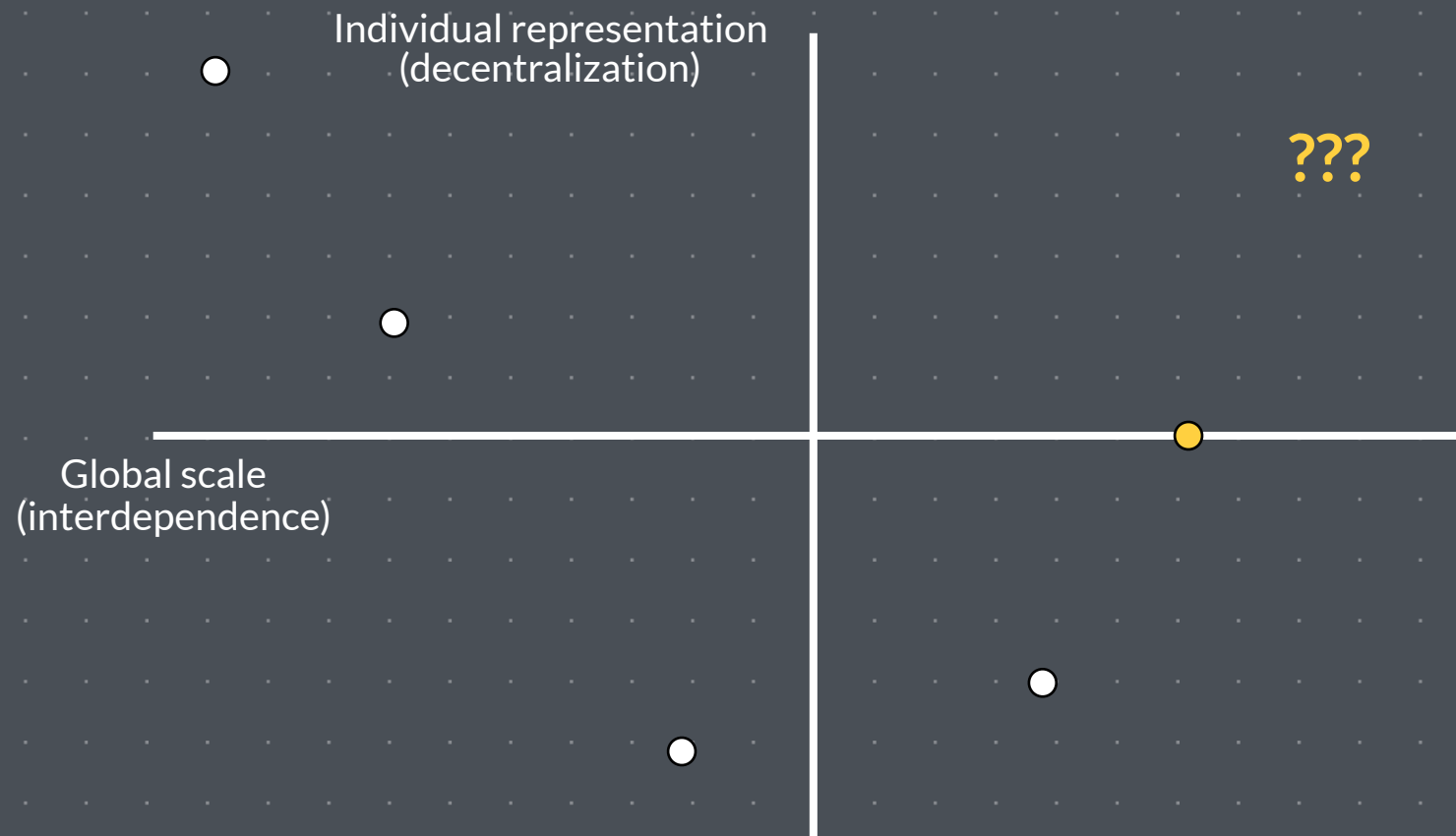
# The future of governance



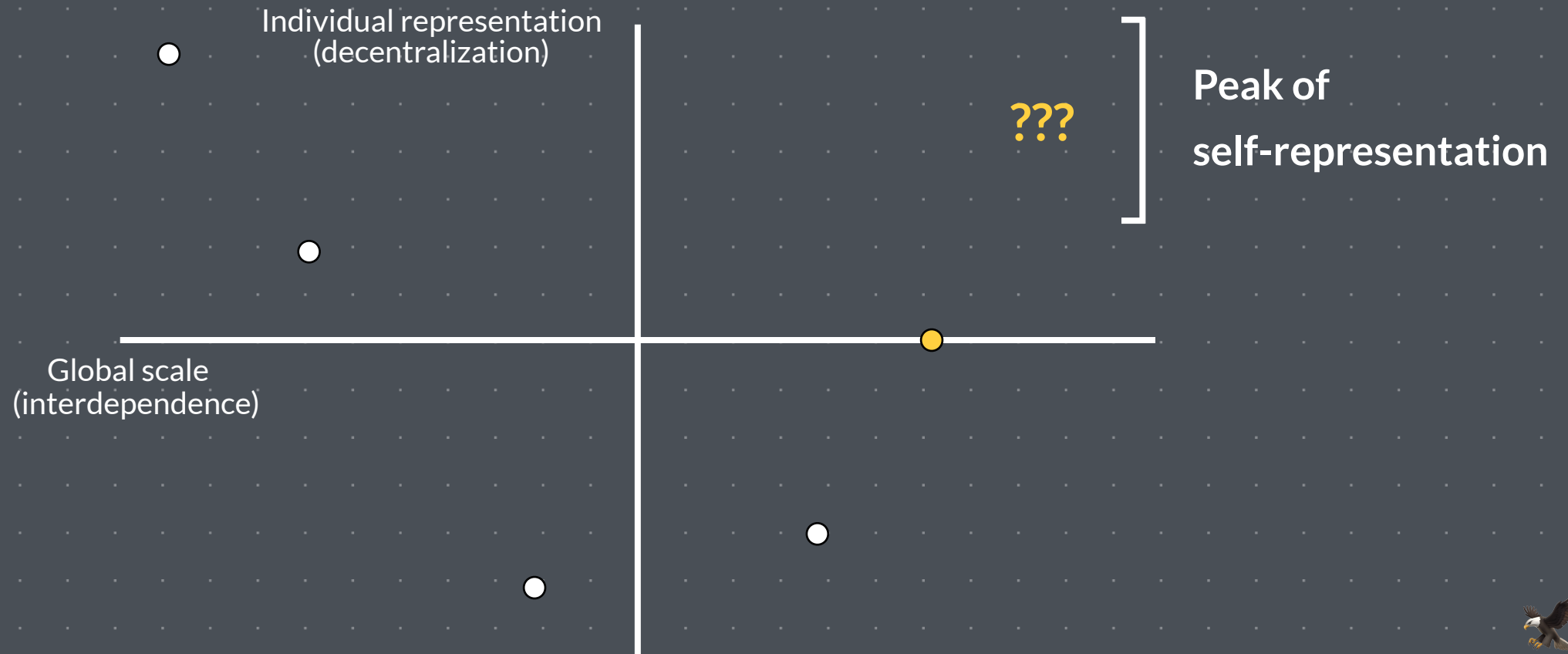
# The future of governance



# The future of governance



# The future of governance



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# Governance can be experimented with *at the speed of software*

(let's throw things on the wall and see what sticks)

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ARAGON

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```
aragonOS> launch_3.0
```

# A framework for programming governance

[github.com/aragon/aragonOS](https://github.com/aragon/aragonOS)

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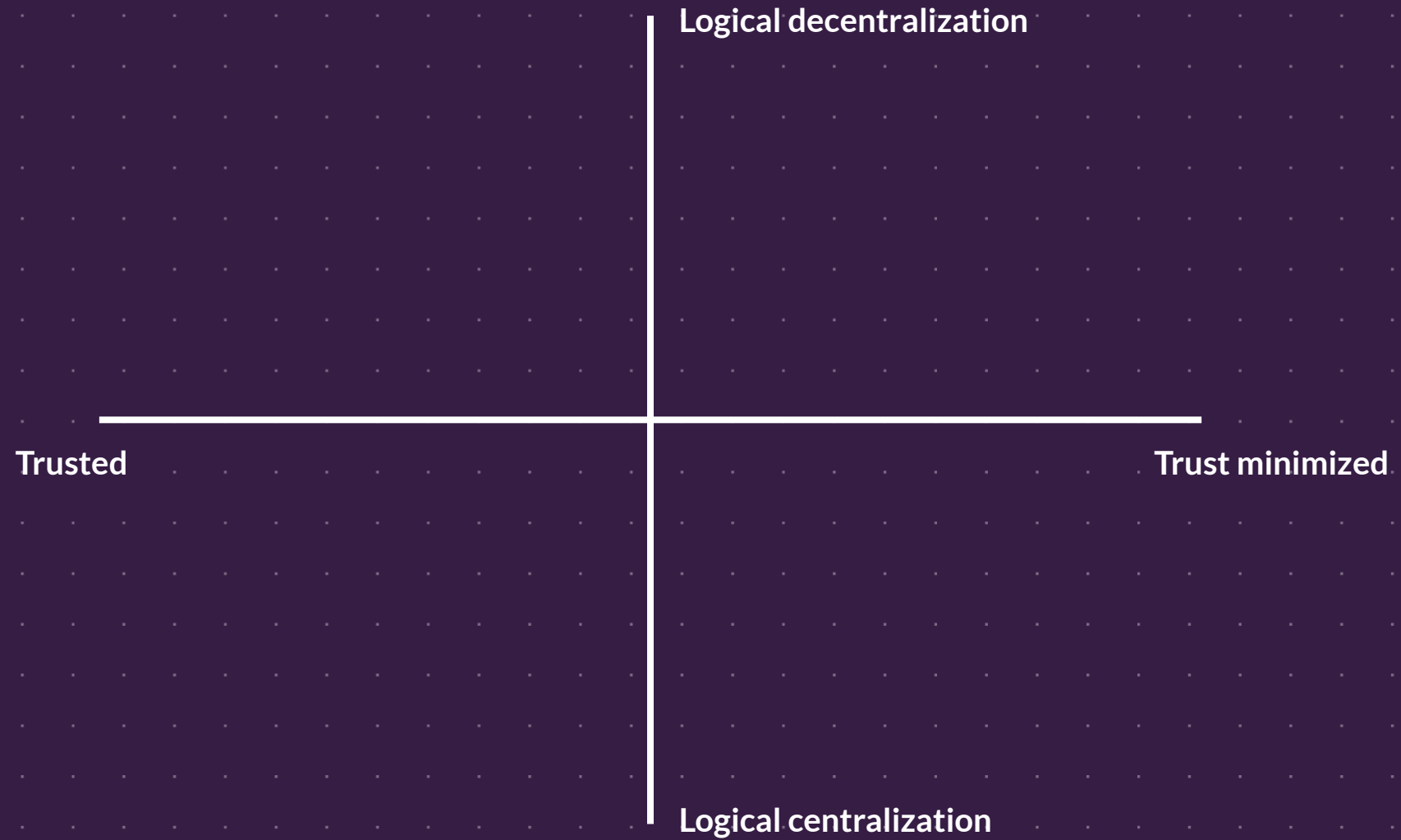


# Core design tenets

1. Primitives-focused
2. Default to opt-in
3. Interchangeable, malleable components







# Let's make some governance happen!



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# Access Control List (ACL)

```
1 interface IACL {  
2     function initialize(address permissionsCreator) external;  
3     function hasPermission(  
4         address who,  
5         address where,  
6         bytes32 what  
7     ) external view returns (bool);  
8  
9     /* Non-interface suggestions for implementations:  
10  
11     function createPermission(address who, address where, bytes32 what) external;  
12     function grantPermission(address who, address where, bytes32 what) external;  
13     function revokePermission(address who, address where, bytes32 what) external;  
14     */  
15 }
```

Interface: <https://github.com/aragon/aragonOS/blob/dev/contracts/acl/IACL.sol>

Implementation: <https://github.com/aragon/aragonOS/blob/dev/contracts/acl/ACL.sol>



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# Make me a DAO

```
1 contract DAOFactory {  
2     function newDAO(address root) public returns (Kernel) {  
3         Kernel dao = new Kernel();  
4         dao.initialize(root); // Assume this also creates an ACL for the DAO  
5         return dao;  
6     }  
7 }
```

Factory: <https://github.com/aragon/aragonOS/blob/dev/contracts/factory/DAOFactory.sol>



And sprinkle on some (light) governance...

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```

1- contract DAOFactory {
2-     function newDAO(address root) public returns (Kernel) {
3-         Kernel dao = new Kernel();
4-         dao.initialize(root); // Assume this also creates an ACL for the DAO
5-
6-         ACL acl = ACL(dao.acl());
7-
8-         Vault vault = Vault(dao.newAppInstance("vault"));
9-         Voting voting = Voting(dao.newAppInstance("voting"));
10        Finance finance = Finance(dao.newAppInstance("finance"));
11        TokenManager tokenManager = TokenManager(dao.newAppInstance("token-manager"));
12
13        acl.createPermission(finance, vault, vault.TRANSFER_ROLE());
14        acl.createPermission(voting, finance, finance.CREATE_PAYMENTS_ROLE());
15        acl.createPermission(voting, finance, finance.EXECUTE_PAYMENTS_ROLE());
16        acl.createPermission(voting, tokenManager, tokenManager.MINT_ROLE());
17        acl.createPermission(voting, tokenManager, tokenManager.ASSIGN_ROLE());
18
19        return dao;
20    }
21 }

```



# Goodies

- Program upgradability
- Package management

(which are inherently *software governance* questions)



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# Join us

## Aragon Labs, Aragon Nest

Token Curated Registries, Liquid Voting

(We're hiring)

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# Come find us



Brett  
@sohkai

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# Come find us



Tatu  
@smokyish

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# Come find us



John  
@lightcoin

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**Thank you**  
(and let's go experiment!)



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