



SCALING
THE COMMONS
TO RE-PRIORITIZE
PEOPLE AND THE PLANET



WHY ARE THE COMMONS IMPORTANT?

wicked problems
can only be solved together

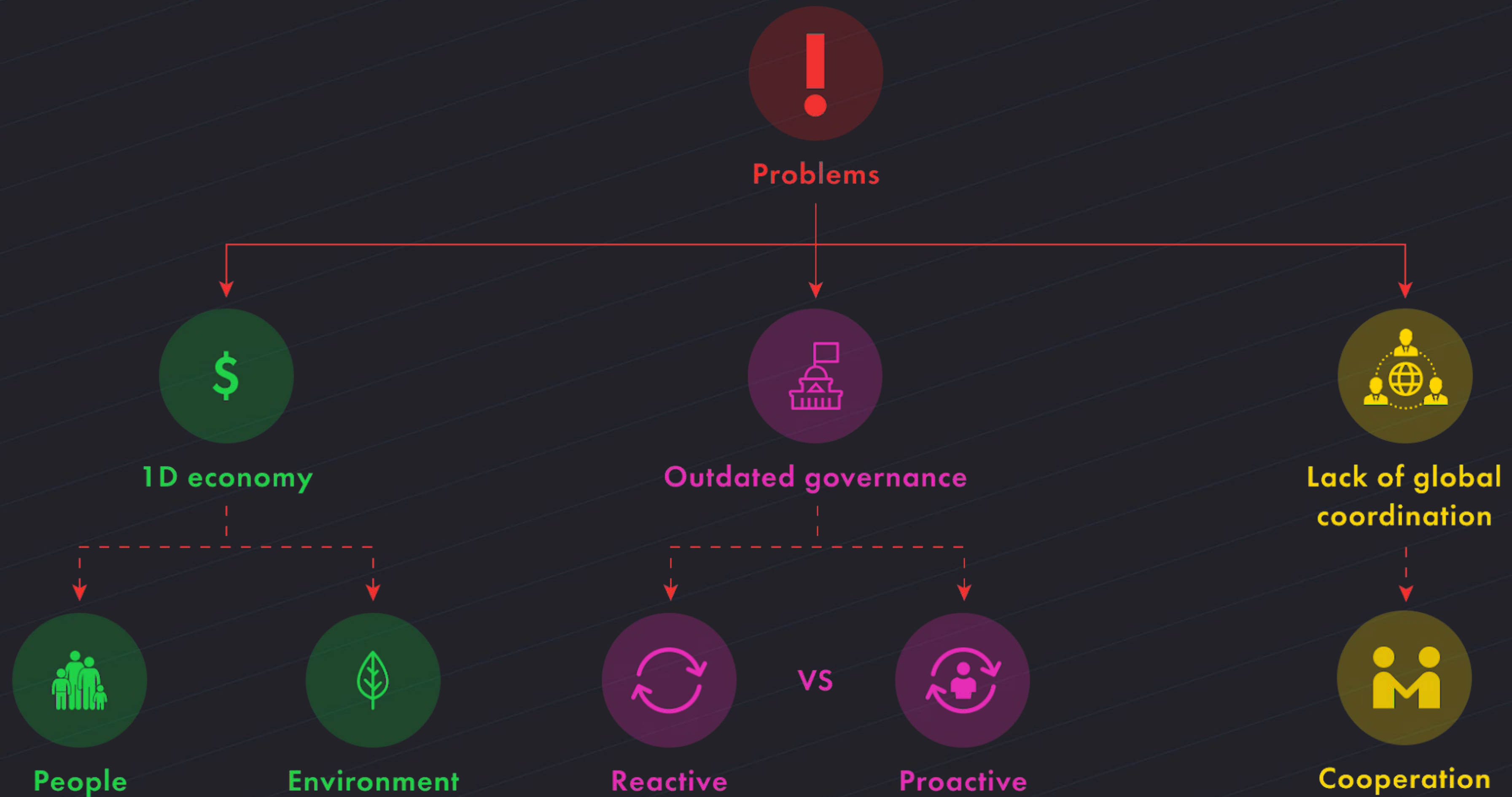
- Climate change
- Resource depletion
- Global social unrest



what's wrong
with our current approach?

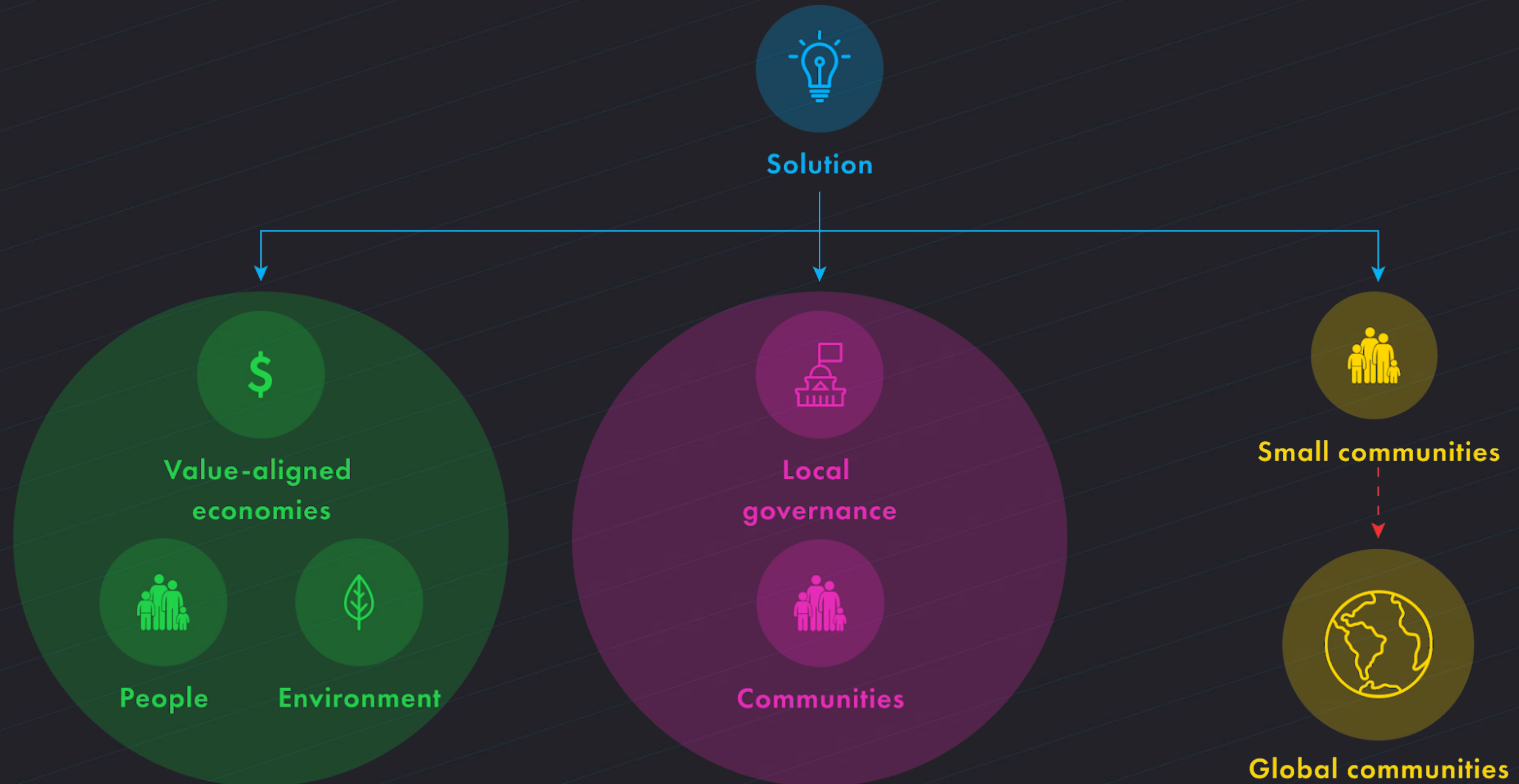


MARKETS & STATES WON'T SAVE US





SOLUTION: RE-ALIGNING INCENTIVES WITH THE COMMONS

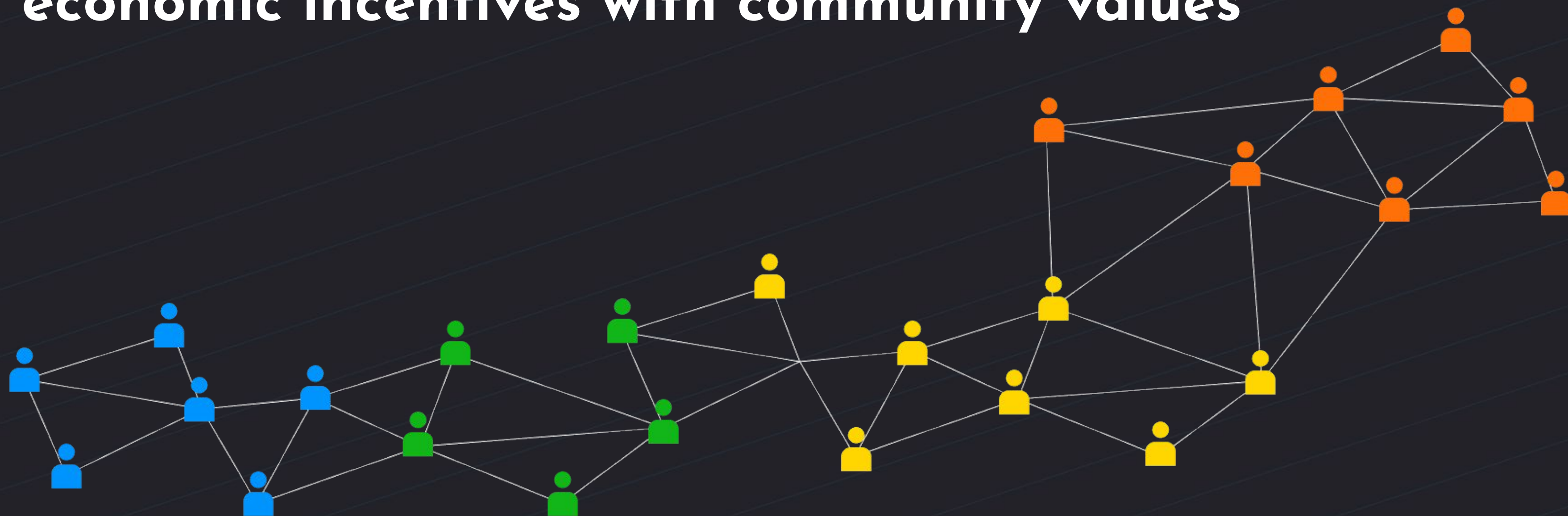




SCALING TRUST USING BLOCKCHAIN

new opportunity for global trust networks

align economic incentives with community values



THE COMMONS STACK: SCALING THE COMMONS



a library of open source blockchain tools
that enable purpose-driven communities
to **raise and allocate funding,**
make decisions and measure impact



A TECH STACK FOR THE COMMONS



Governance tools



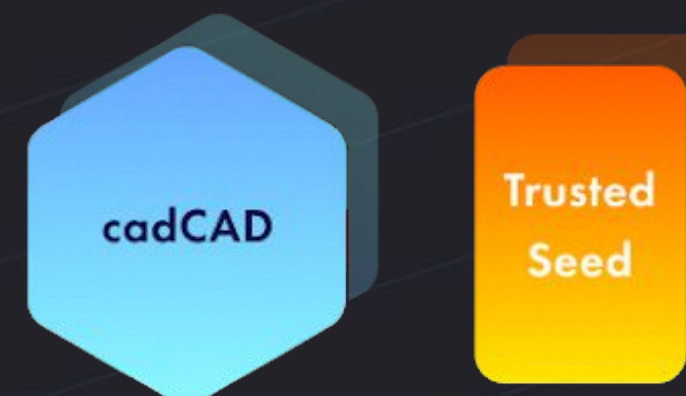
Funding tools



Proposal tools



Analytics tools



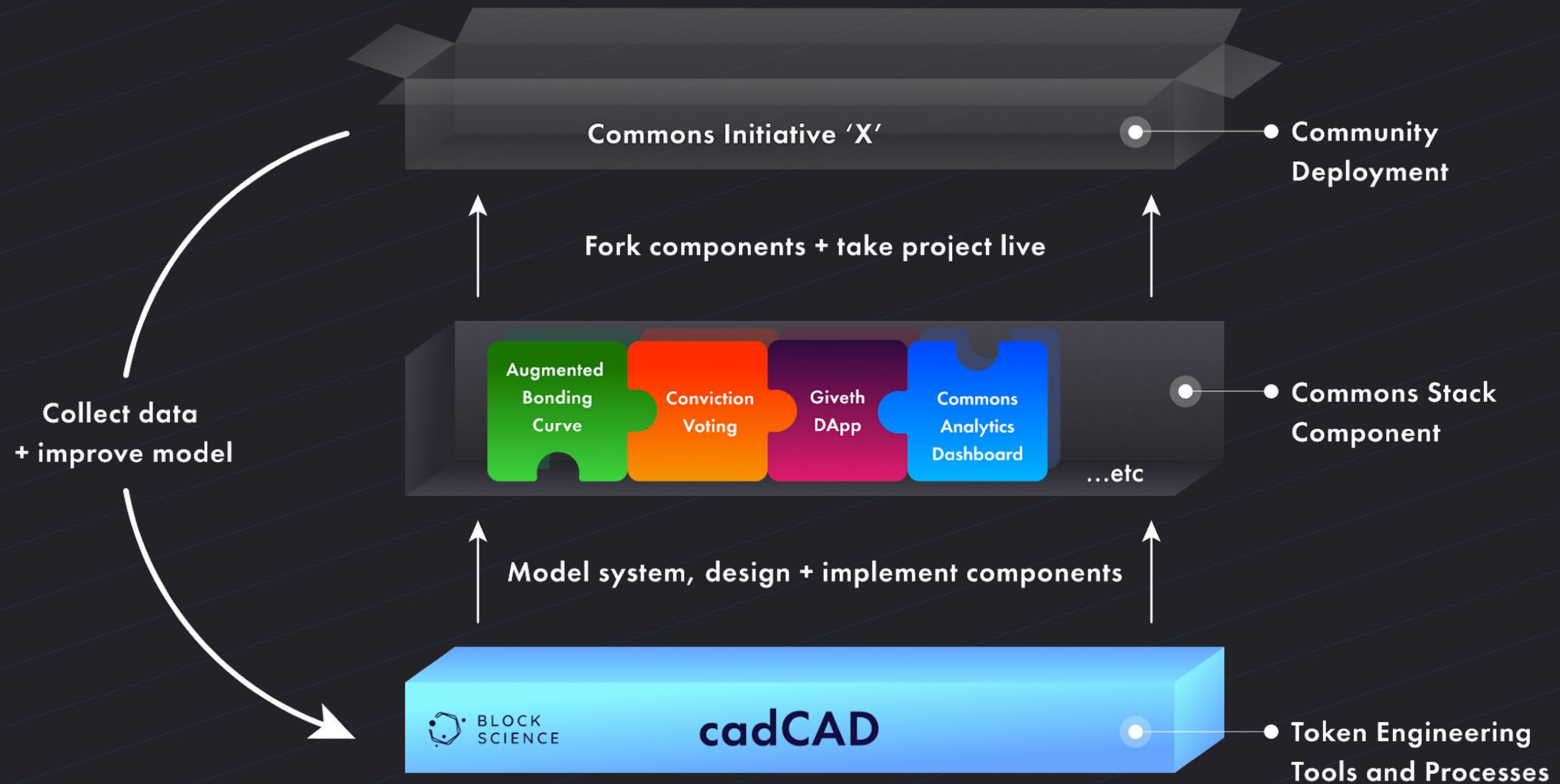
Initialization tools



TOWARDS A 'MINIMUM VIABLE COMMONS'



A TOKEN ENGINEERING FOUNDATION





COMPLEX SYSTEM DESIGN CAN BE... WELL, COMPLEX!

math

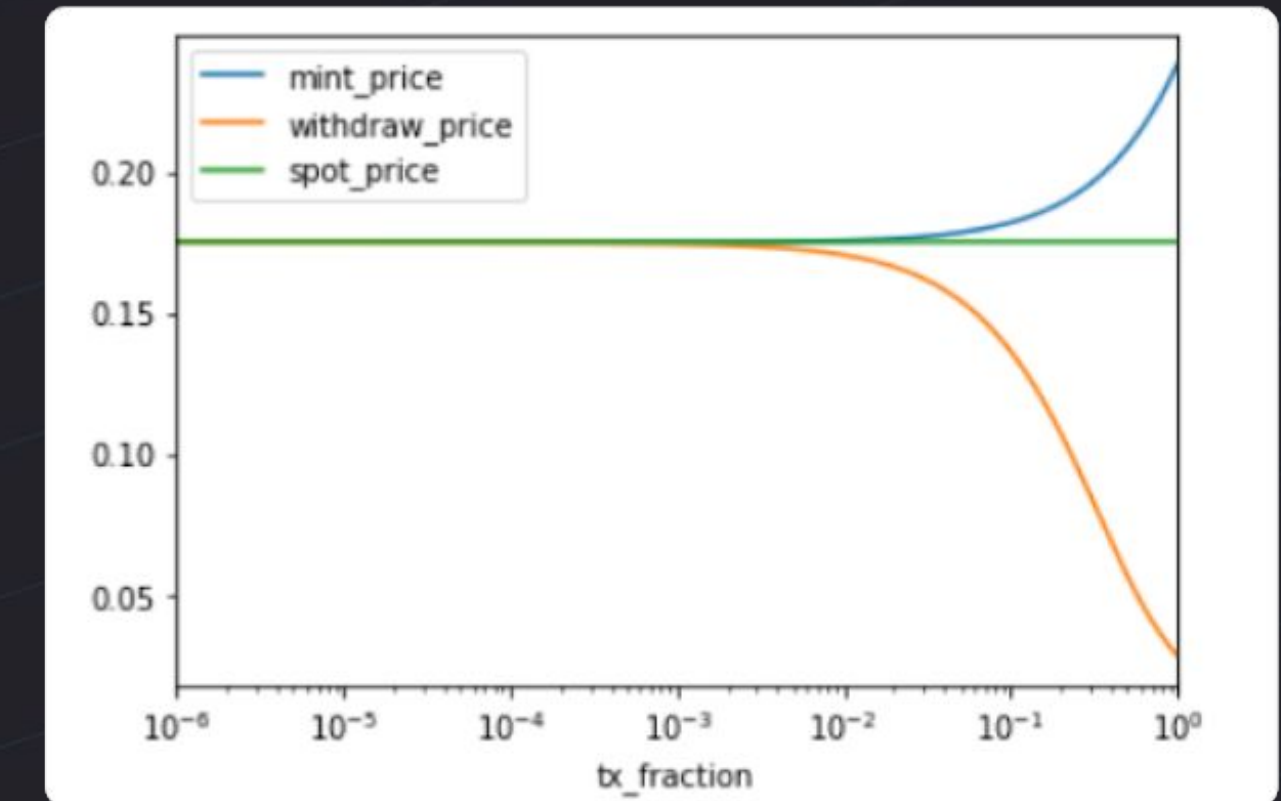
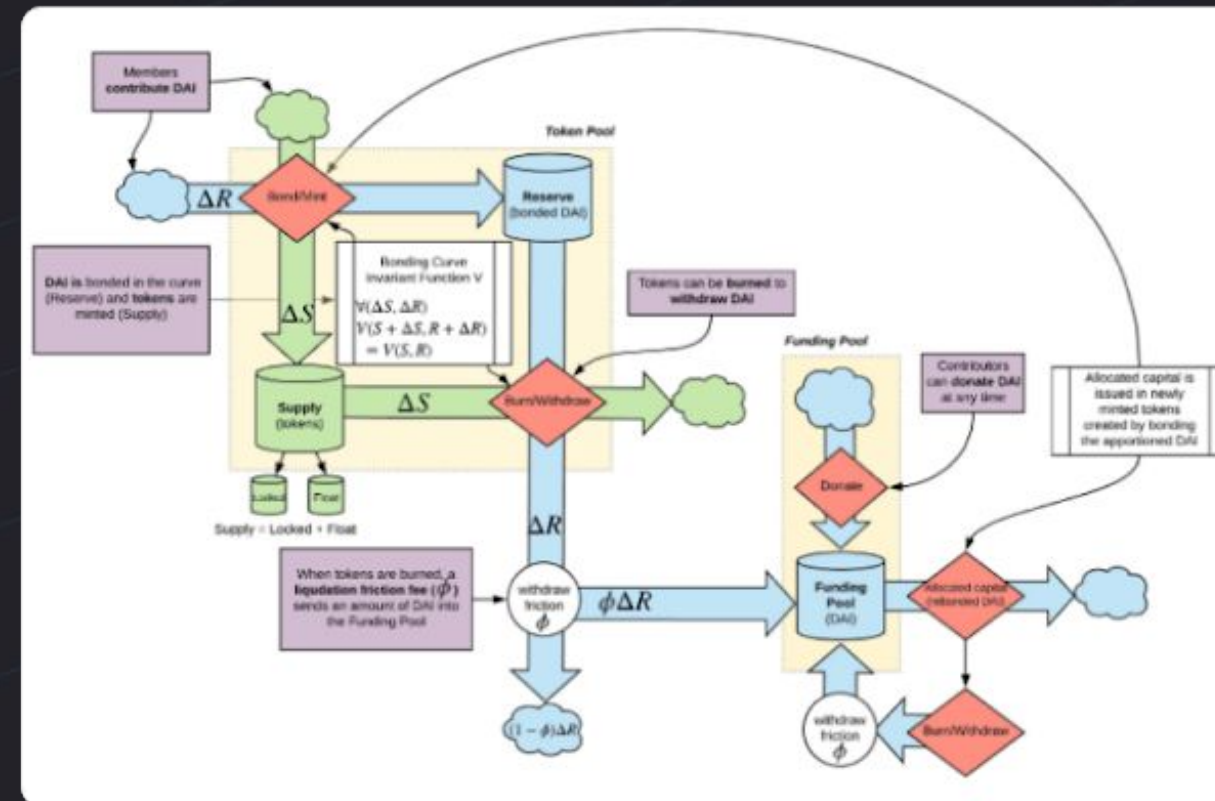
model

simulate

Invariant Preserving Deposit-to-Mint

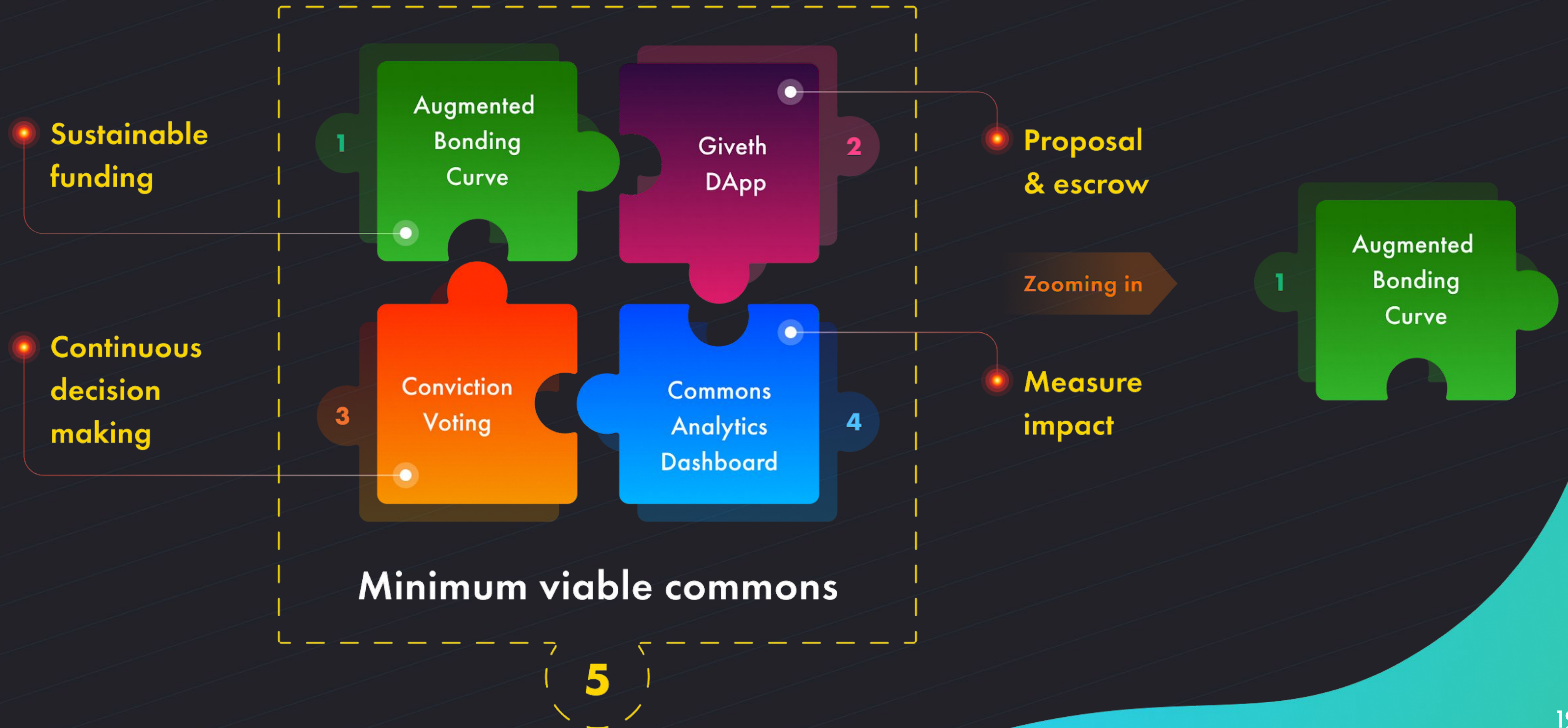
- Deposit ΔR x dai
- Conservation equation: $V(R + \Delta R, S + \Delta S) = \frac{(S + \Delta S)^\kappa}{R + \Delta R} = V_0$
- Derived Mint equation: $\Delta S = \text{mint}(\Delta R; (R, S)) = \sqrt[\kappa]{V_0(R + \Delta R)} - S$
- Realized Price is: $\bar{P}(\Delta R) = \frac{\Delta R}{\Delta S} = \frac{\Delta R}{\sqrt[\kappa]{V_0(R + \Delta R)} - \sqrt[\kappa]{V_0(R)}} \rightarrow \left(\frac{\partial S(R)}{\partial R}\right)^{-1}$ as $\Delta R \rightarrow 0$
- The limiting price is the spot price:

$$\lim_{\Delta R \rightarrow 0} \bar{P}(\Delta R) = \left(\frac{\partial S(R)}{\partial R}\right)^{-1} = \left(\frac{V_0^{1/\kappa} \cdot R^{1/\kappa - 1}}{\kappa}\right)^{-1} = \frac{\kappa R^{1 - 1/\kappa}}{V_0^{1/\kappa}} = \frac{\kappa R^{(\kappa - 1)/\kappa}}{V_0^{1/\kappa}} = P(R)$$





ZOOMING IN: ITERATION 1





THE AUGMENTED BONDING CURVE (ABC)

provides sustainable funding for your project or community

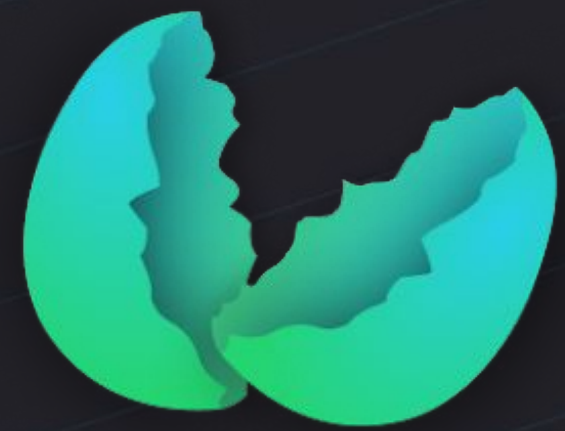


THE AUGMENTED BONDING CURVE (ABC)

provides sustainable funding for your project or community

an ABC has two phases

- Hatch phase: initialization period
 - Open phase: live to public



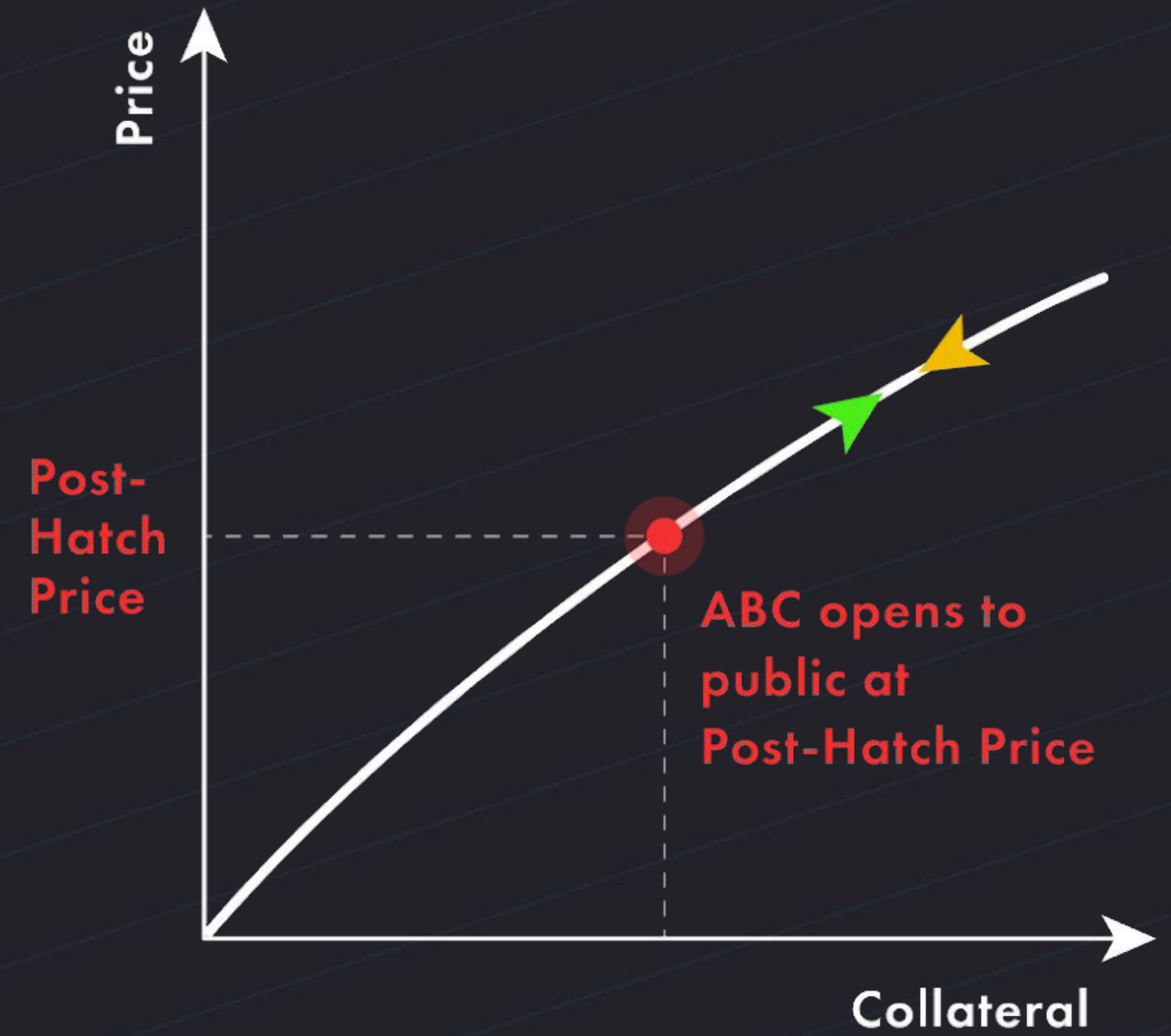
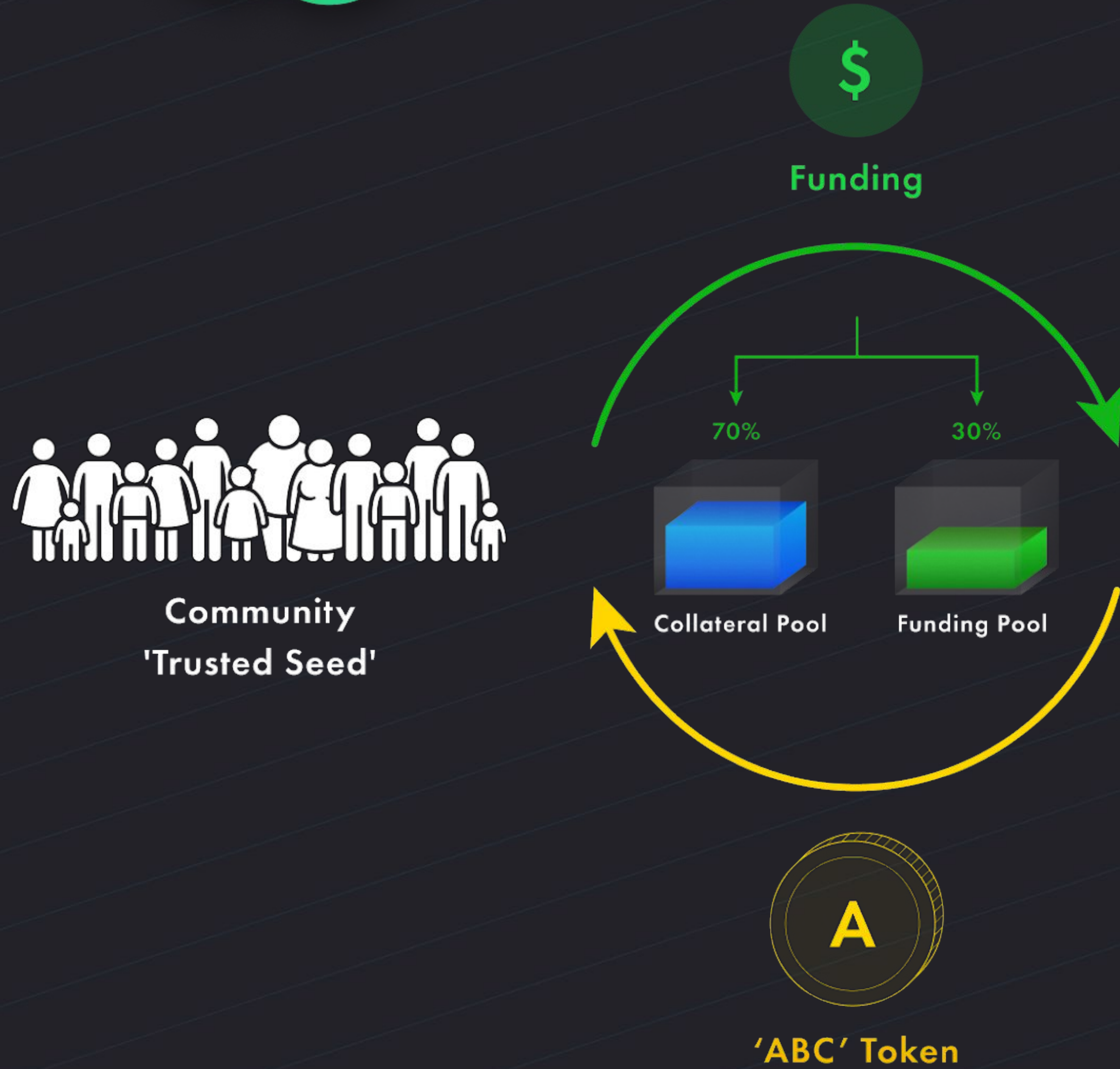
ABC: HATCH PHASE

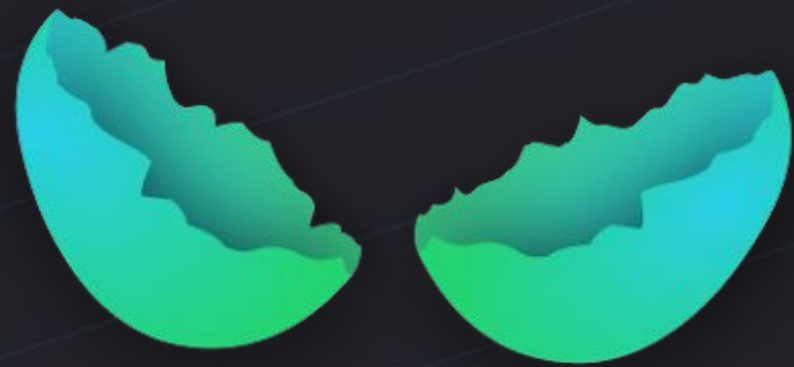


**a community 'crowdfund' to initialize the
Funding & Collateral Pools**

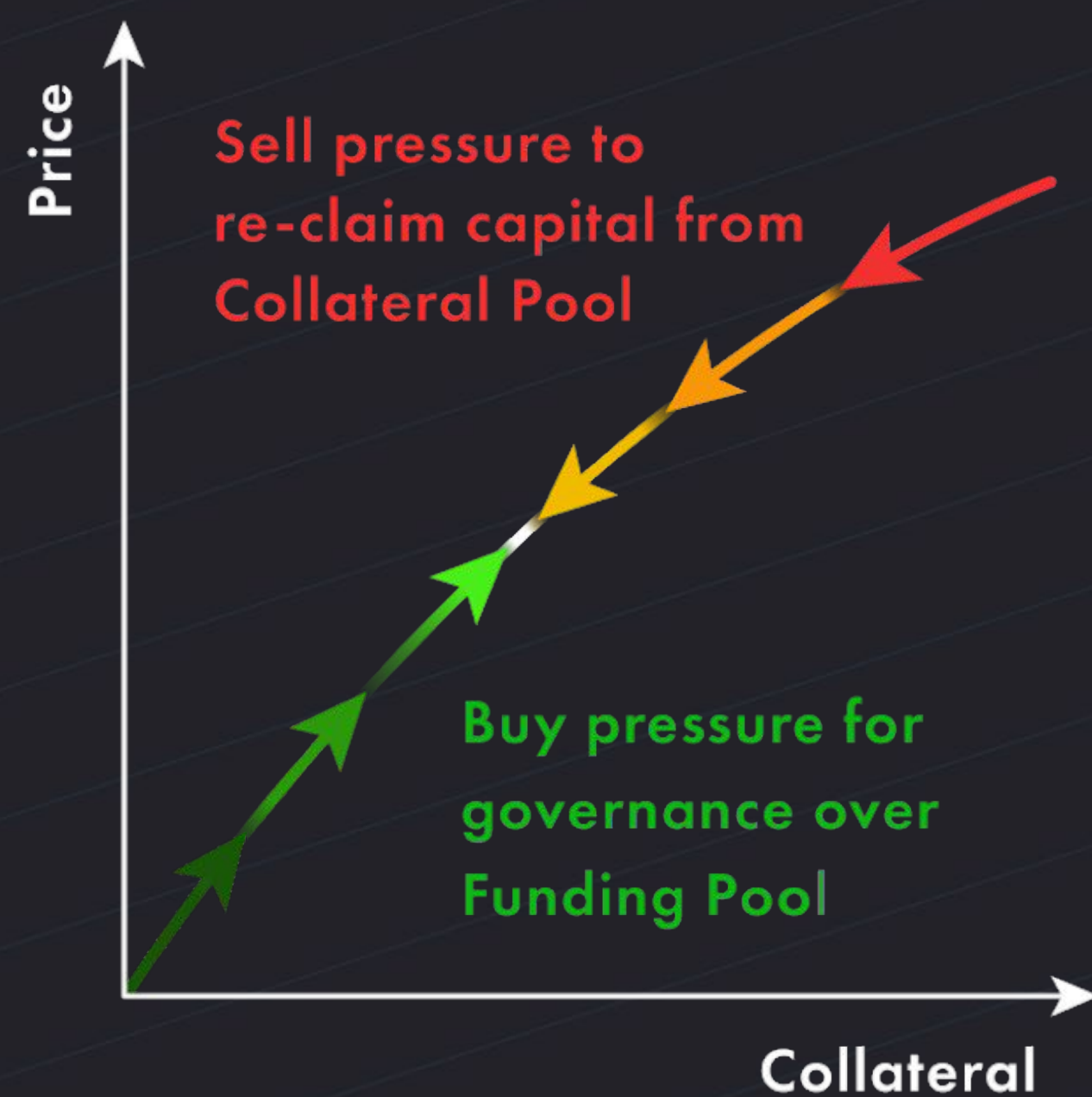


ABC: HATCH PHASE

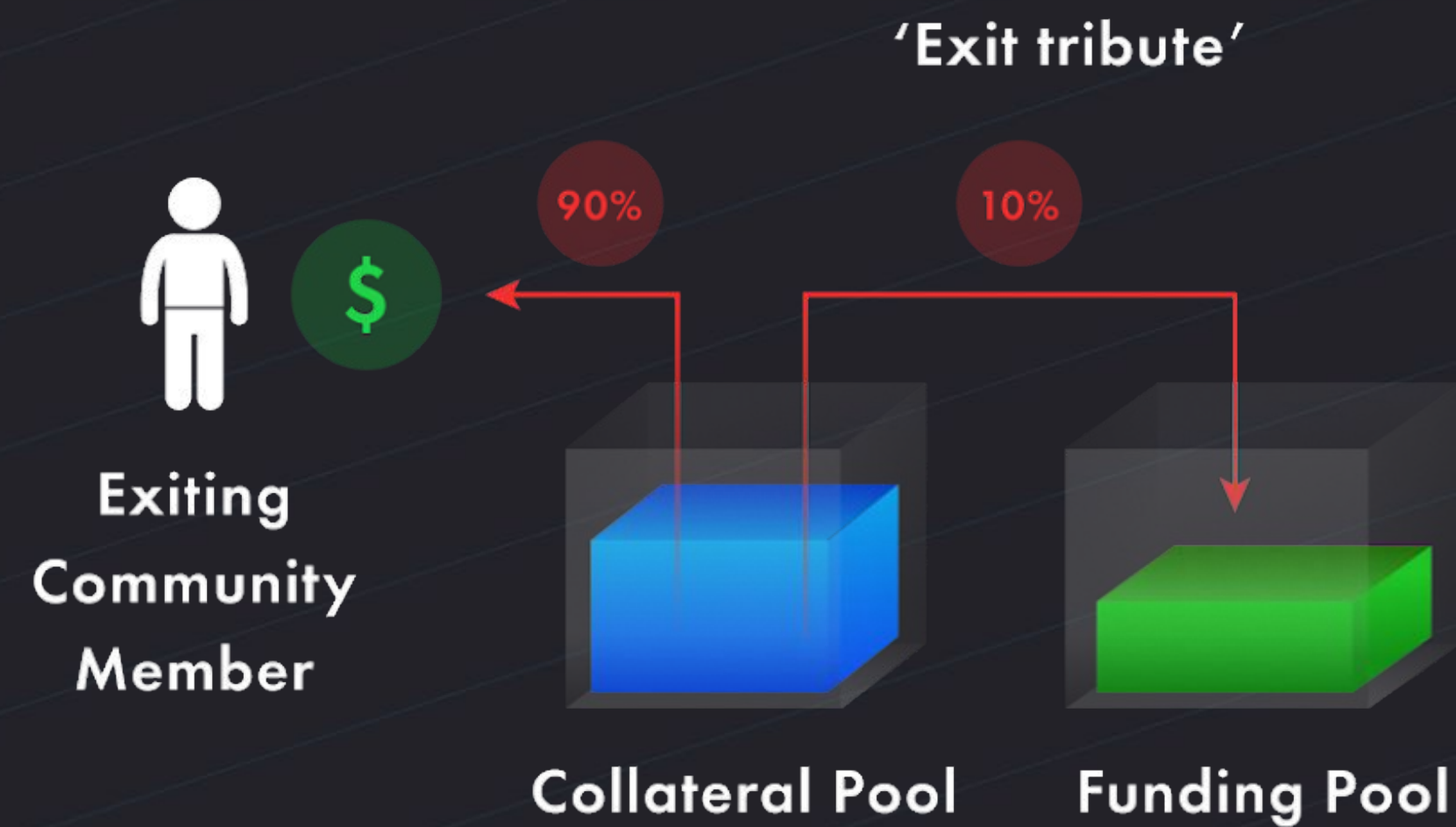




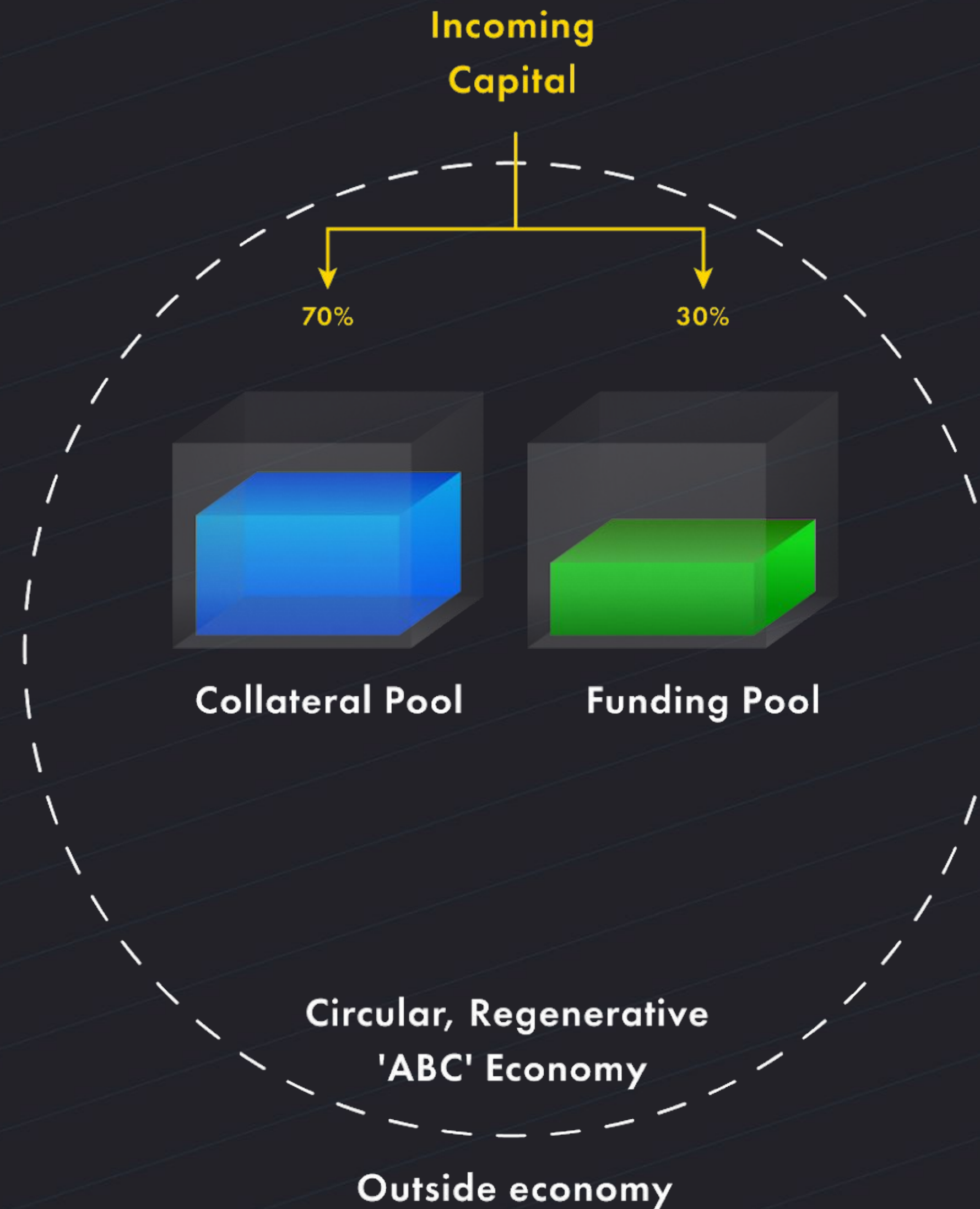
ABC: OPEN PHASE



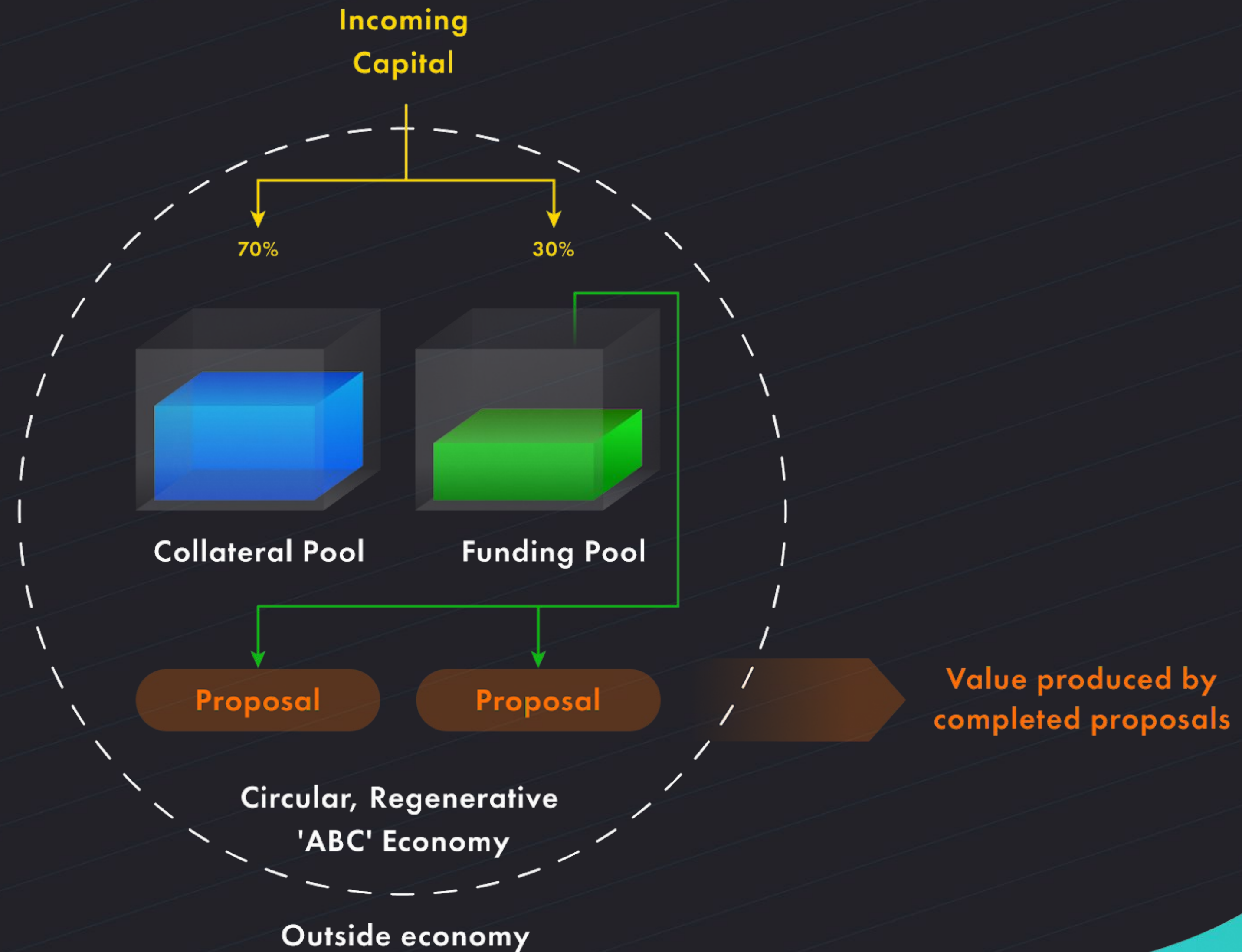
Volatility =
Continuous Funding



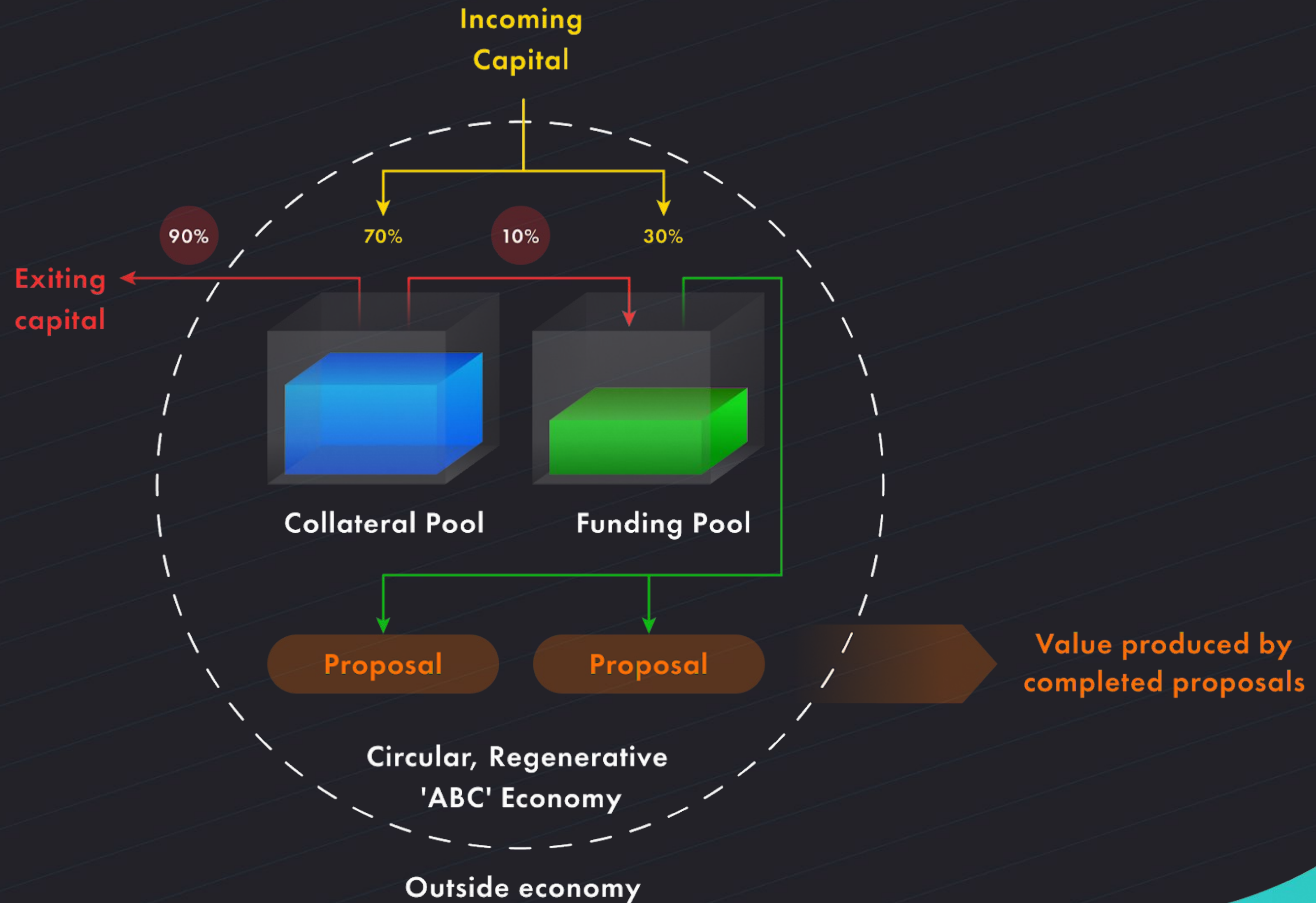
ABC RECAP: CIRCULAR, REGENERATIVE ECONOMIES



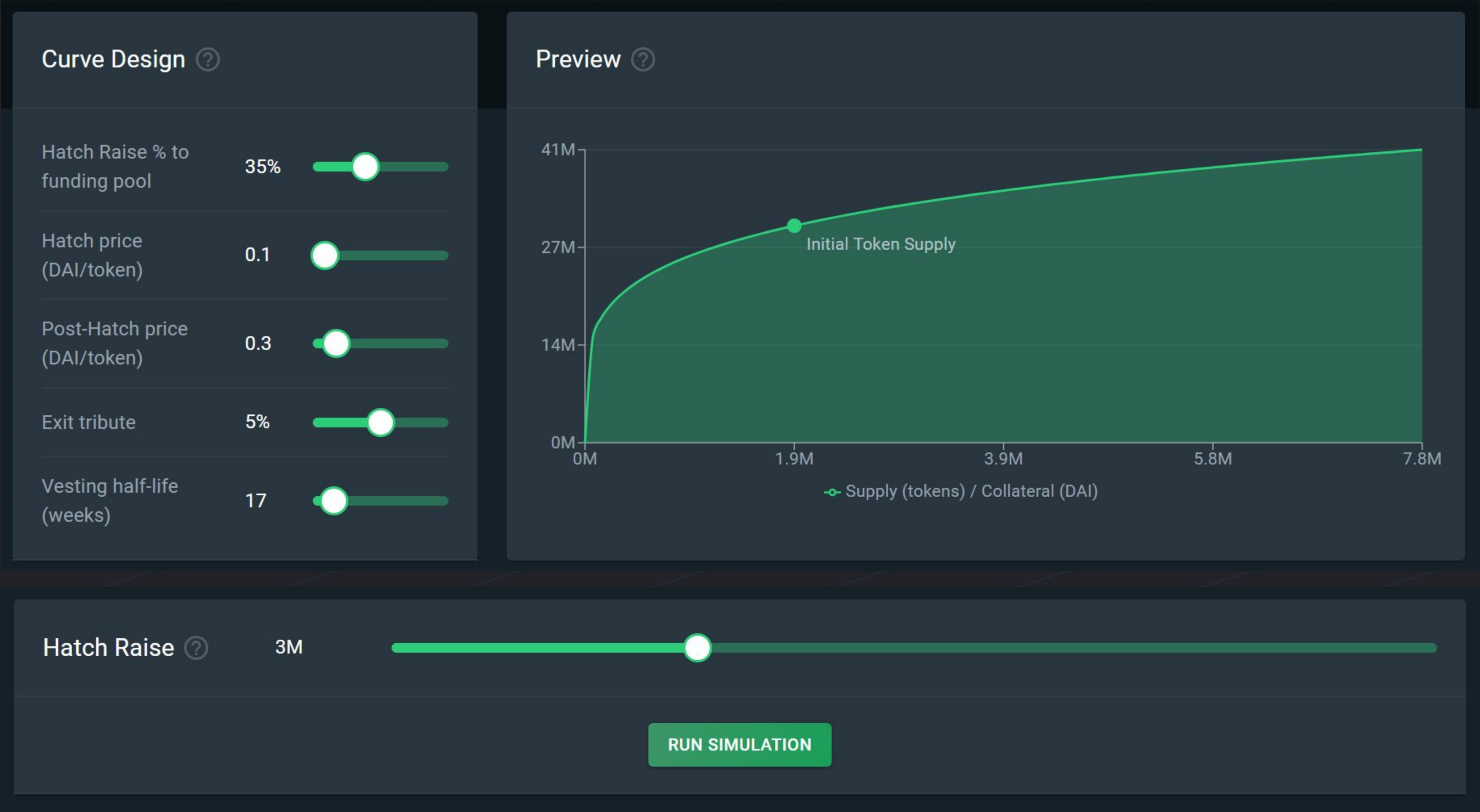
ABC RECAP: CIRCULAR, REGENERATIVE ECONOMIES



ABC RECAP: CIRCULAR, REGENERATIVE ECONOMIES



ABC DEMO SIMULATION



ABC DEMO SIMULATION



Simulation ?



Results ?

Collateral pool balance	6,970,000 DAI
Median slippage	0.027 % Avg tx size 1,839 DAI
Funds generated from Raise Hatch	1,050,000 DAI
Funds generated from exit tributes	893,000 DAI From 13507 exit txs
Total funds raised for your community	1,940,000 DAI

ABC DEMO SIMULATION



abcdemo.commonstack.org

ECOSYSTEM FUNDING DAOS



MolochDAO: ETH 2.0, MetaCartel: UX & more      



DAO communities need sustainable funding!



UPGRADING ECOSYSTEM FUNDING DAOS

more challenges to tackle

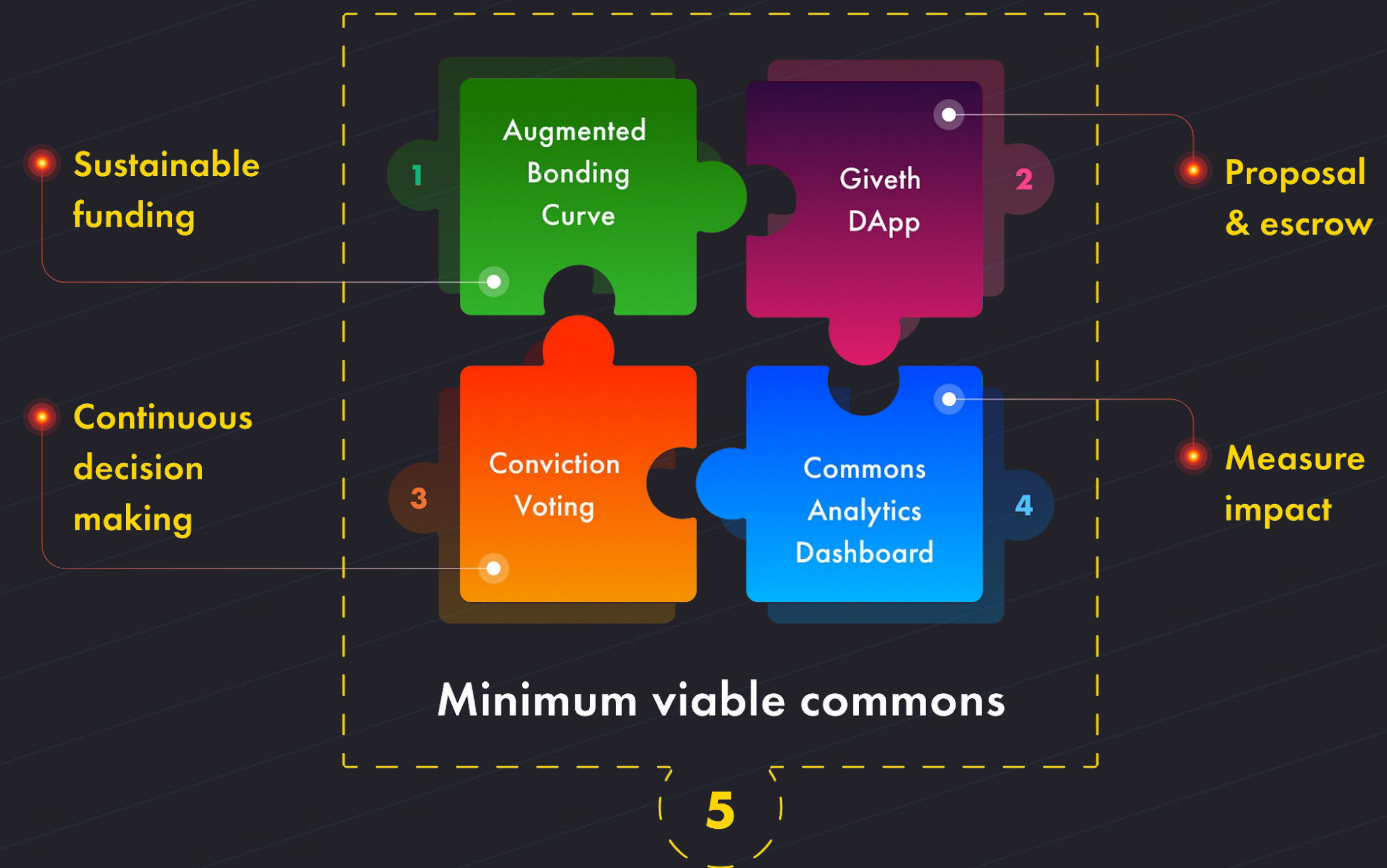
- **accountability of funds**
- **on-chain voting**
- **lack of impact measurement**



UPGRADING ECOSYSTEM FUNDING DAOS

more challenges to tackle

- accountability of funds
- on-chain voting
- lack of impact measurement



TOKEN ENGINEERING R&D IS A COMMONS TOO



a community invitation to launch a **NEW** Ecosystem Funding DAO...

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a community invitation to launch a **NEW** Ecosystem Funding DAO...

THE TOKEN ENGINEERING COMMONS



OUR FUNDRAISE ROADMAP

Iteration	Component Focus	Fundraising Required
1	Augmented Bonding Curve	984,000 Dai
2	Giveth DApp Integration	796k Dai
3	Conviction Voting	1,170k Dai
4	Analytics Dashboard	820k Dai
5	Minimum Viable Commons	3,150k Dai
	TOTAL	6,920k Dai

DEDICATED, EXPERIENCED TEAM



Griff Green



Michael Zargham



Bernd Lapp



Jeff Emmett



Max Semenchuk



Stefaan Ponnet



Lorelei Loie



Kris Decoodt

TOP TOKEN ENGINEERING ADVISORS



Simon de la Rouviere



Eden Dhaliwal



Jordi Baylina



Trent McConaghy



Luke Duncan



Patrick Storchenegger



Raphael Bauman



Abbey Titcomb

JOIN OUR GROWING COMMUNITY & CONTRIBUTE!



**help us help you
realign our economies
to re-prioritize people & the planet**

commonsstack.org/apply



ONE MORE
THING...



ONE MORE THING...

We are open sourcing cadCAD ... TODAY

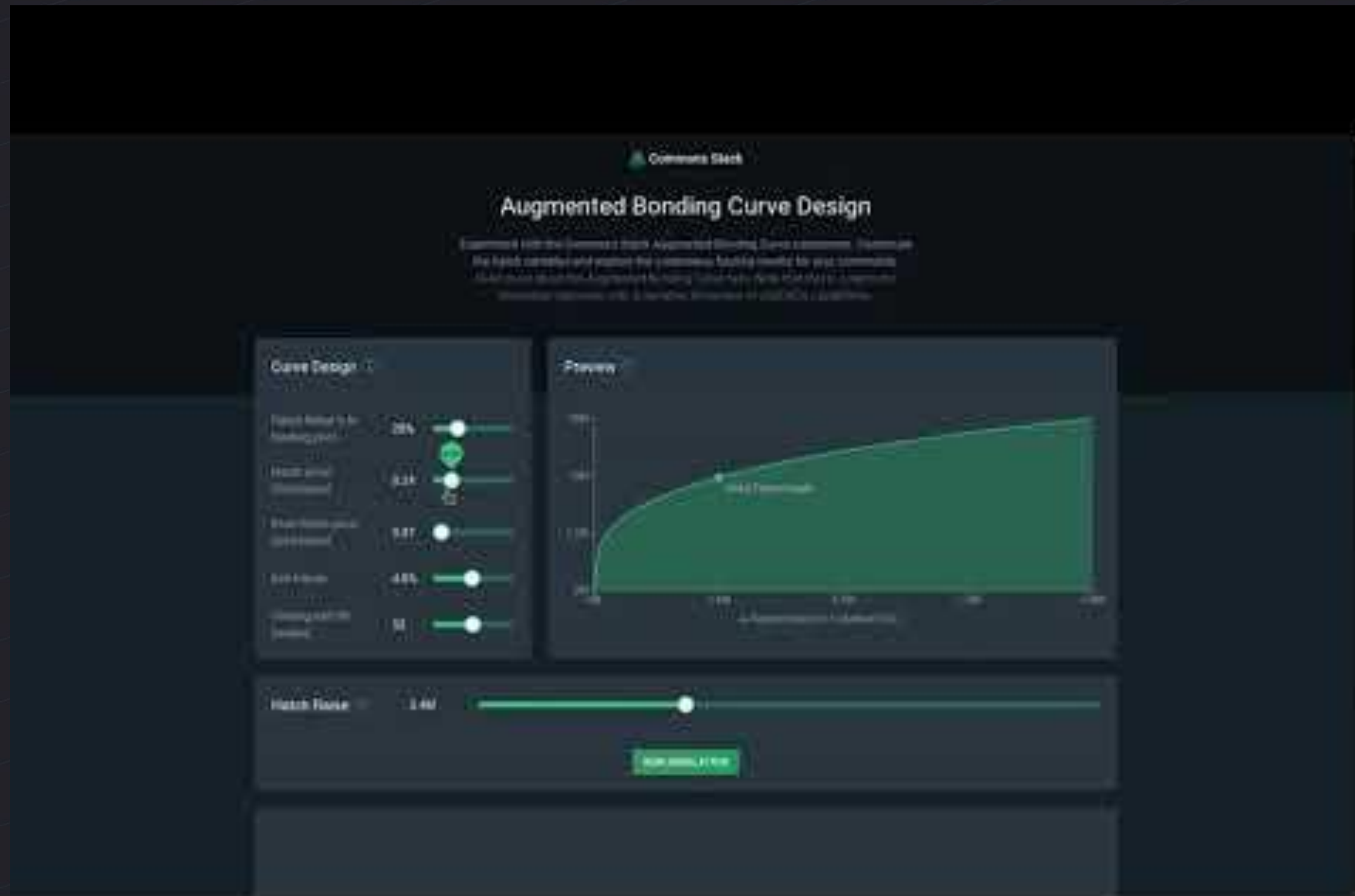
Go play & have fun! github.com/BlockScience/cadCAD



MORE INFO

- Website: commonsstack.org
- [Introducing the Commons Stack](#) article
- Join us on Telegram: t.me/CommonsStack
- Follow us on Twitter: [@commonsstack](https://twitter.com/commonsstack)
- Check out our GitHub: [Commons-Stack](https://github.com/Commons-Stack)

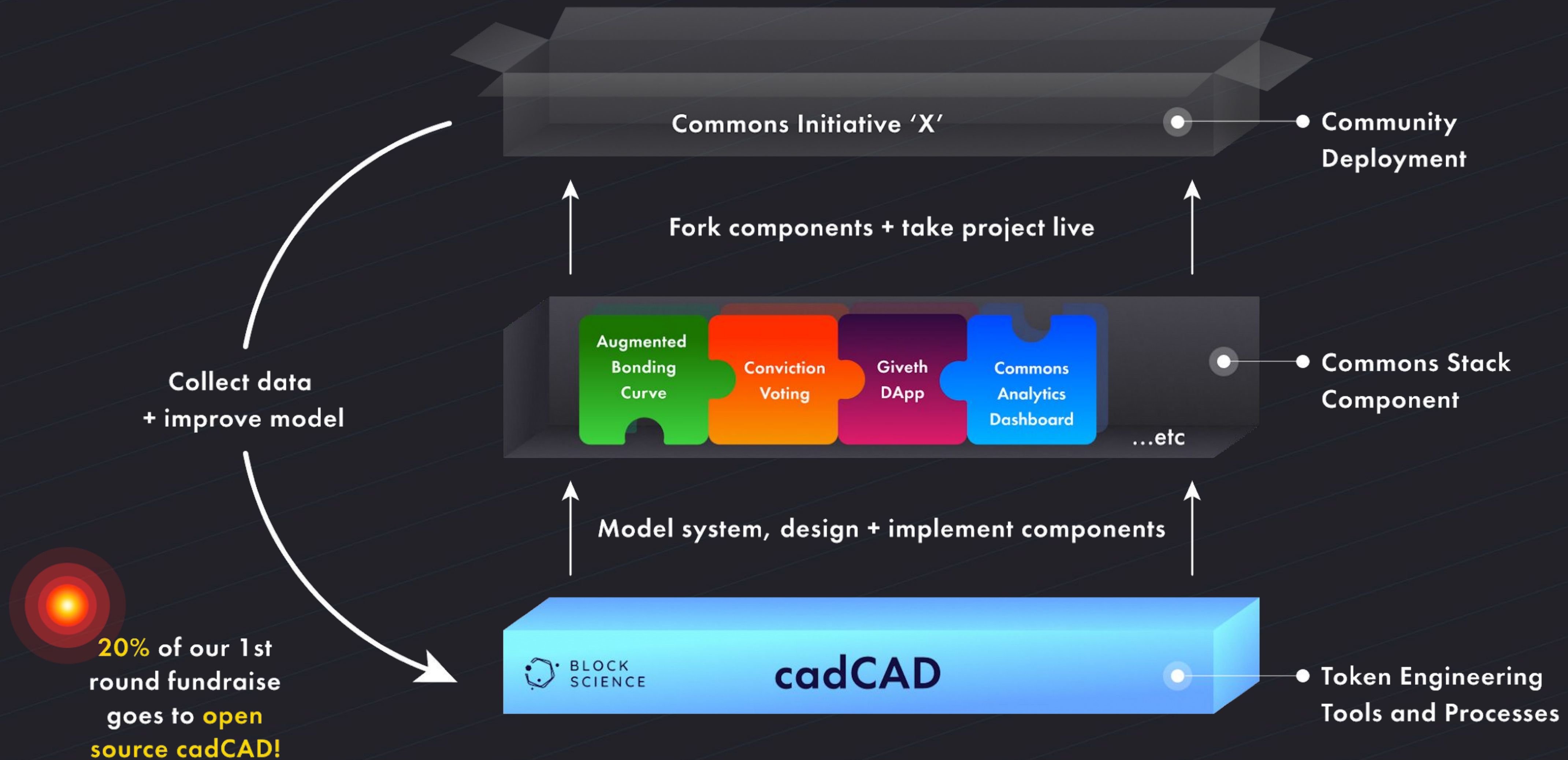
ABC DEMO SIMULATION



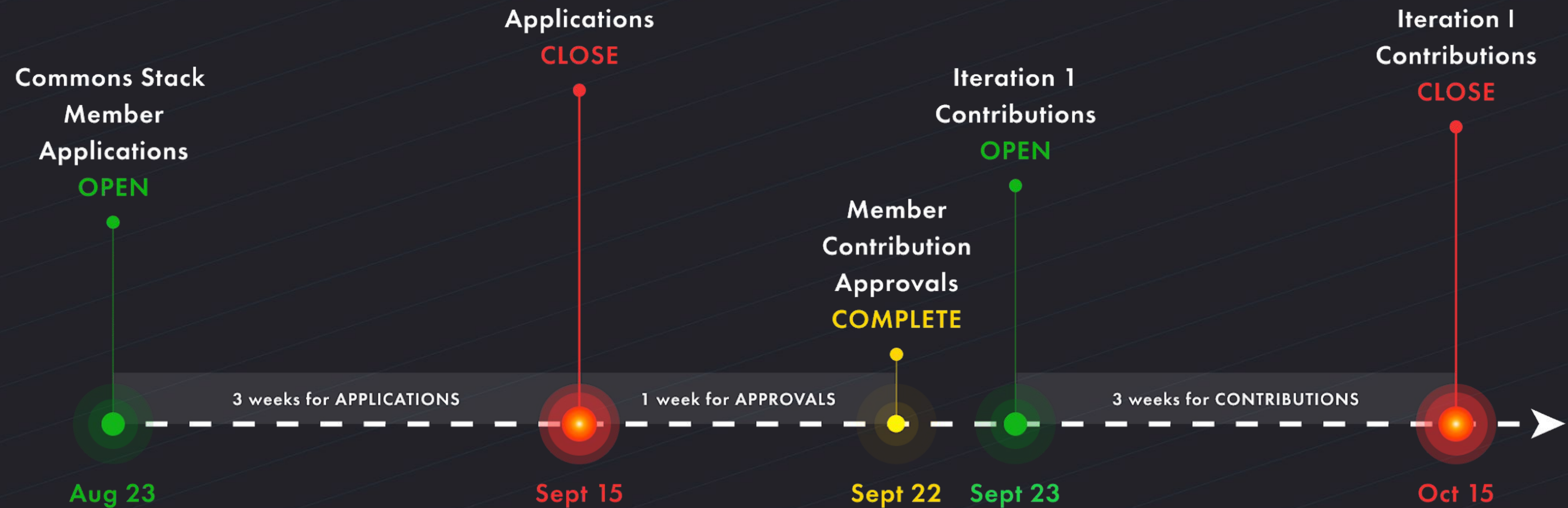
demo

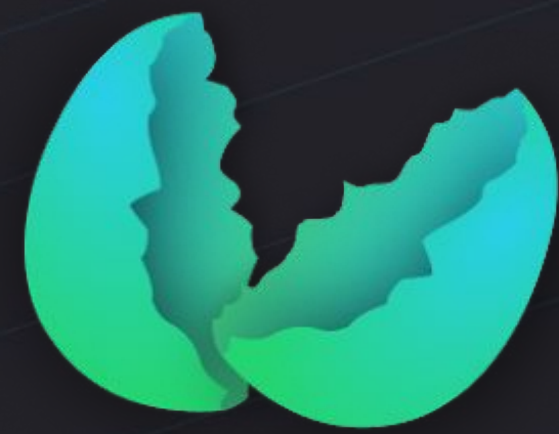


A TOKEN ENGINEERING FOUNDATION

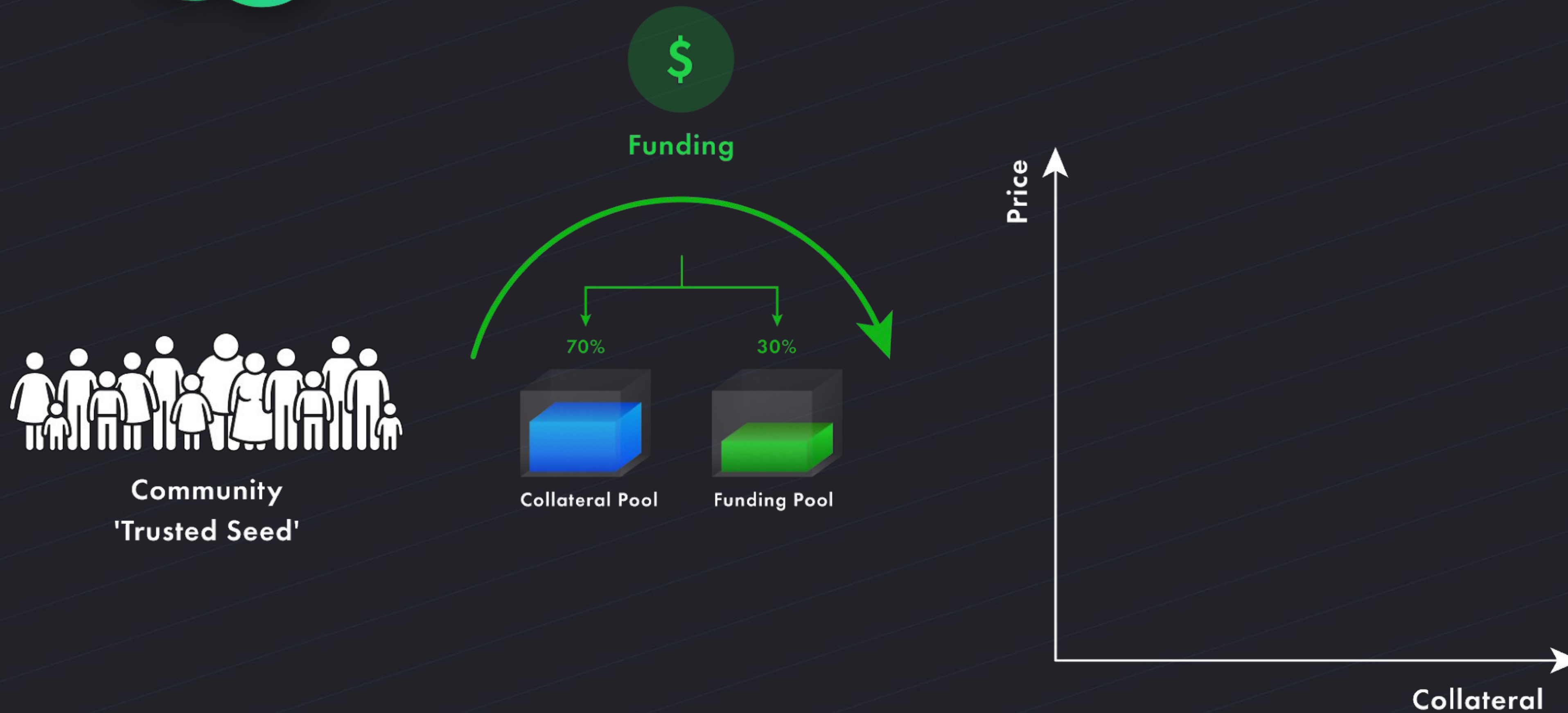


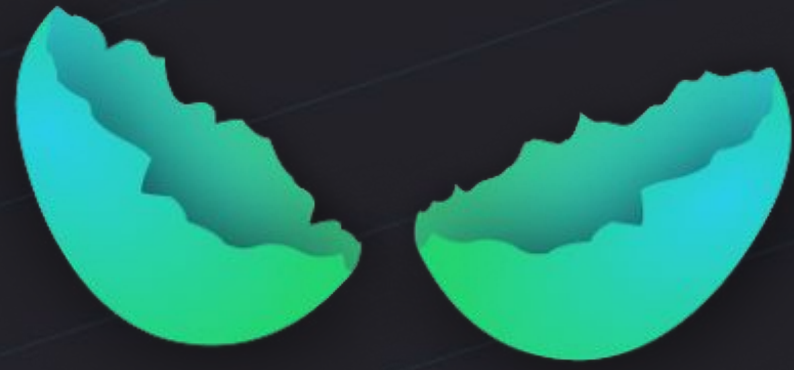
COMMONS STACK FUNDRAISE TIMELINE





ABC: HATCH PHASE



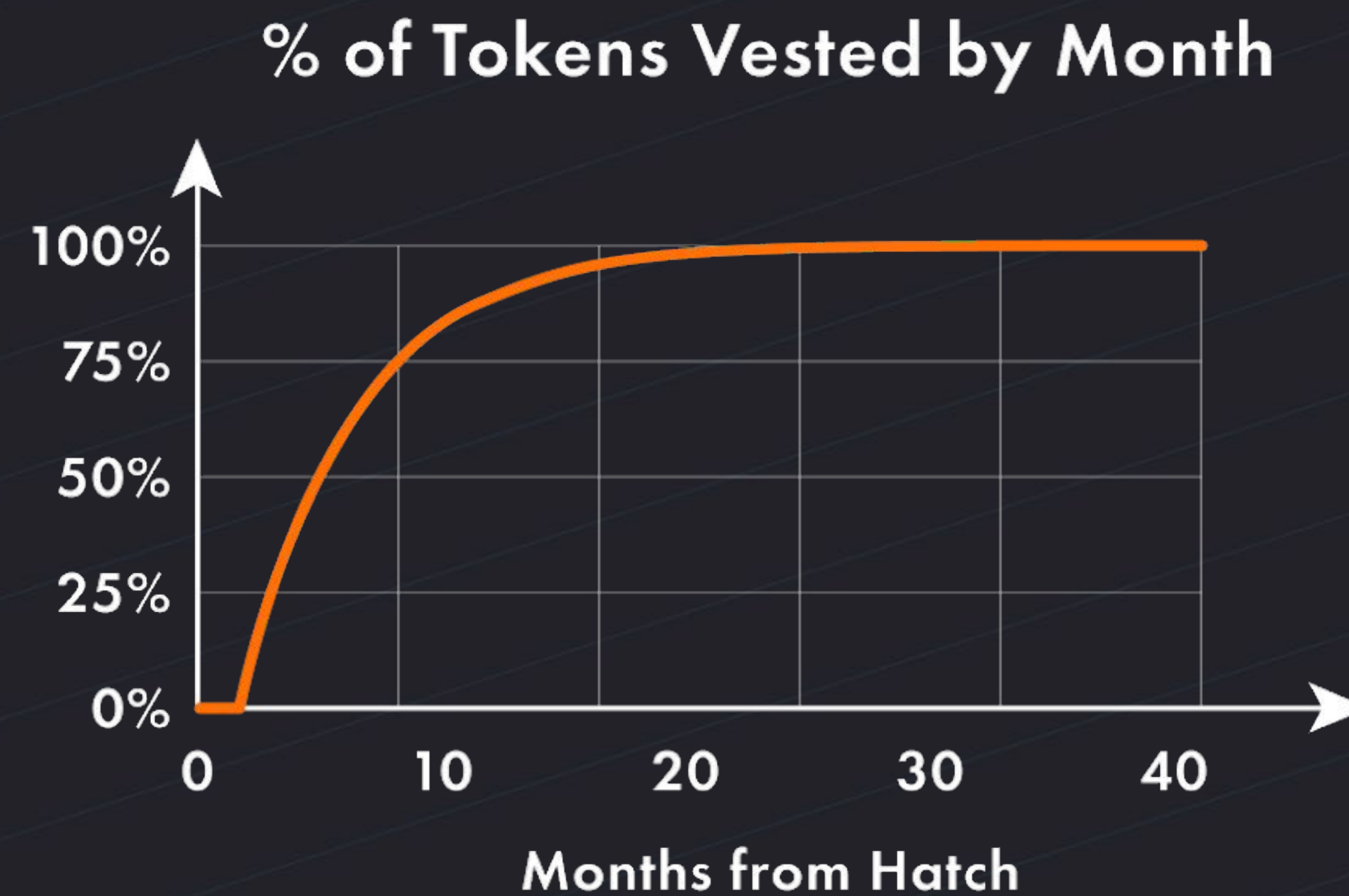


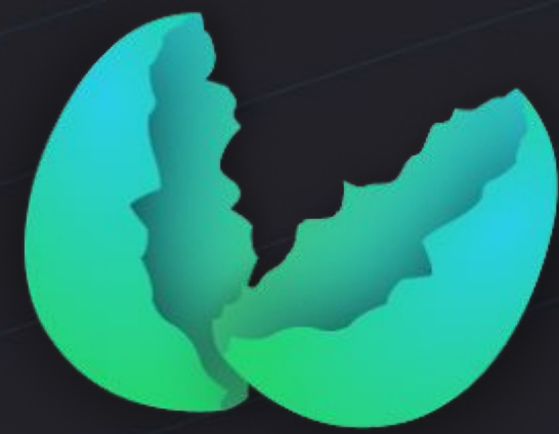
ABC: OPEN PHASE



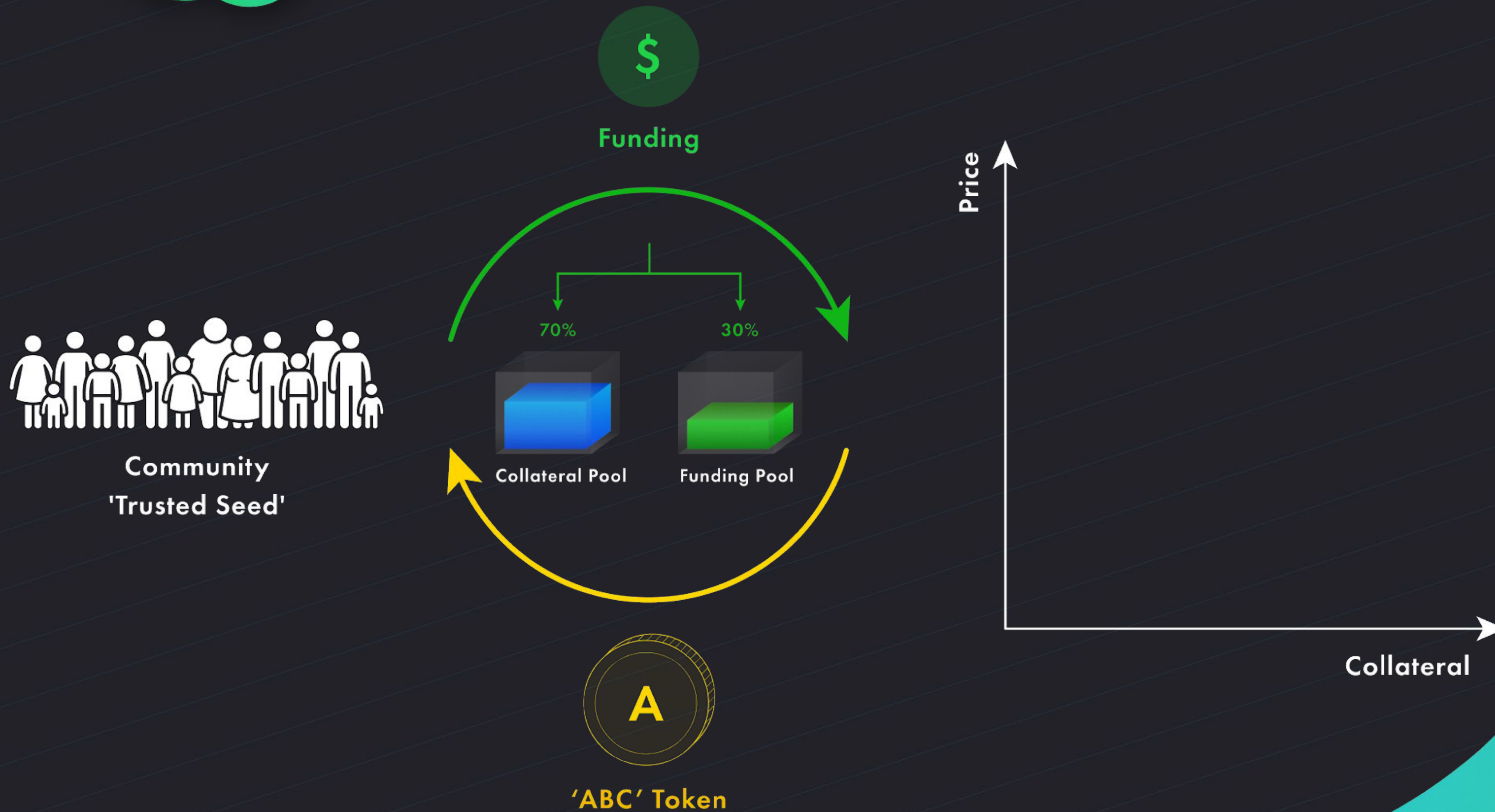
curve is live & open for public contributions

- Token price starts at 'Post-Hatch price' (e.g. \$0.30)
- Funds raised in Hatch protected by 'vesting curve' mechanism





ABC: HATCH PHASE



COMMONS STACK MEMBERSHIP



apply to be a member & contribute to our collective future

ABC RECAP: CIRCULAR, REGENERATIVE ECONOMIES

