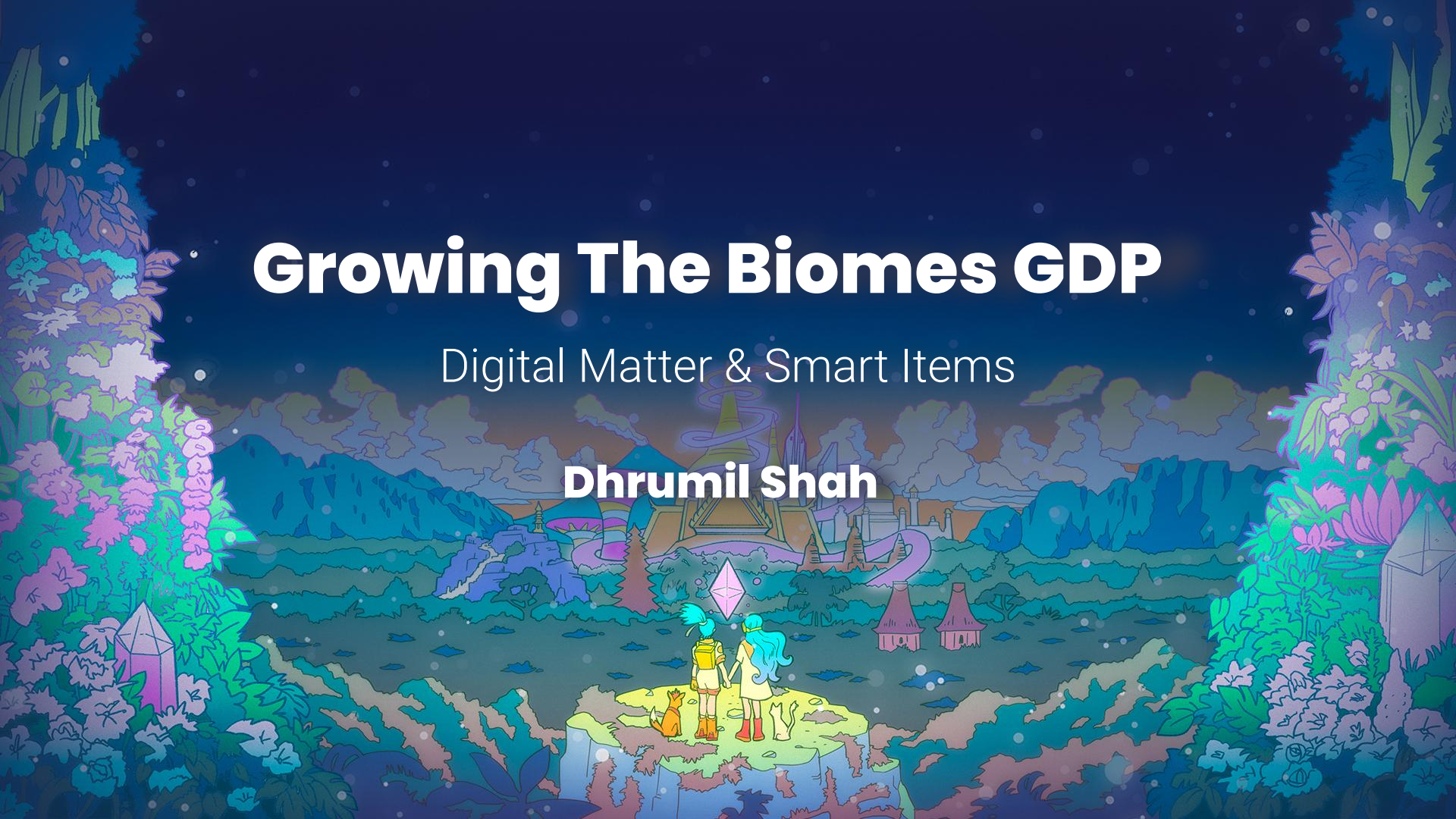


Growing The Biomes GDP

Digital Matter & Smart Items

Dhrumil Shah



Most people view Ethereum as an open financial system and care about:

- stablecoins, RWAs, onchain treasuries
- secure wallets
- private payments

But this is a different scene.

Not interested in just moving our existing world onchain.

Instead, interested in uncovering a **totally new & weird future drastically different from the world that exists today.**

If Bitcoin was able to birth Digital Coins
that people treat like Real Valuable Coins.

Can we 100x this and birth Digital Planets
that people treat like Real Valuable
Planets?

I Think We Can.

There is a Simple & Obvious Line of Sight.

Take Ideas That Already Work & Reshape Them From **Being Built for Finance** to **Being Built for Virtual Worlds**

scarce digital coins → scarce digital matter

tamper-proof IOUs → tamper-proof physics

smart contracts → smart items

To Make Things Concrete, Let's Look at
Biomes

On The Surface, Biomes is Minecraft with **EVERYTHING** onchain (first time ever):

- Items
- Players
- Physics
- Actions (even movement)





Man I get so distracted in this game
I spent like 5 hours in creative mode working on a tower lol

I love the dopamine hits when you find rare resources
Im totally not addicted at all

We are grinding Biomes hard. You can sell what you gather in their "Bazaar" and get the \$SUB token.
I think it will moon.

⚡ 1 🤖

Biomes made a huge update to the game, Im currently grinding it 8+ hours per day and mining deep into the world for the rare resources.
These resources can be sold in a shop in-game called 'The Bazaar', and you sell them for \$SUB Token.

I currently have 19K \$SUB tokens, took me about 3 days

As always, being early is rewarded, the earlier you start

Network	Block	TPS	Mgas/s	KB/s	Stack	DA	Settlement
Base	22019737	109.3	15.44	50.70	op-stack	blobs	ethereum
*62 ProofOfPlay - Apex	62865997	13.7	12.32	9.26	arb-nitro	anytrust	arbitrum
Xai	55195371	188.2	11.14	42.73	arb-nitro	anytrust	arbitrum
*62 ProofOfPlay - Boss	21250767	10.6	7.60	6.76	arb-nitro	anytrust	arbitrum
Redstone	9321867	1.4	6.20	3.22	op-stack	plasma	ethereum



DittoJo Today at 12:35 PM

Biomes feels like Ethereum but more playful

100

1



Let's Go Down The Rabbithole...

Why Are People So Excited?

Why Are We Doing This?

1. Digital Matter

Digital Matter presents a playful vision of
blockchain-created scarcity.

Bitcoin

Scarce Coins

Tamper-Proof IOUs

Biomes

Scarce Crops, Wood, Ores,
Land, ...

Tamper-Proof Physics

Just Like Having Lots of Scarce Bitcoin
Grants You Power in Bitcoin's World...

Controlling Lots of The Scarce Resources &
Land Lets You Build Businesses & Be
Effective in Biomes' World...

Bitcoin (Digital Wood) on AWS can only be worth so much, but Bitcoin (Digital Wood) with true scarcity & tamper proof rules using blockchains can be worth...



[WASD] FaultProofBen
\$31K per Sakura



[WASD] FaultProofBen
Sakura to \$1 bil MC



zoiko Yesterday at 3:48 AM
sakura, sakura



Megashi (Tree, Tree) 11/06/2024 12:30 PM
Sakura is digital wood, and you can build a Holy Tree with it, and then mint as a NFT. You can fractionalize the NFT and then, the Holy Tree is tokens. But not any token, a token back by Sakura on chain. Provably.



Megashi (Tree, Tree) 11/04/2024 3:31 PM
The Holy Sakura must be provable on chain or none of this matters



Vanir 11/05/2024 5:50 PM
sakura owners be like byakuya niichan



Black Mirror Designer 10/20/2024 7:57 PM
oh wow sakura is actually impressivly expensib

2. Smart Items

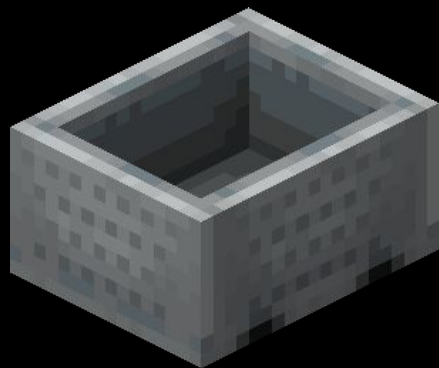
Smart Items present a playful vision of smart contracts.

Items - With Functionality In The Physics -
That Can Be Programmed With Smart
Contracts.

They make it easy for players to build real economies for anything in the world.

Smart contracts = chips. Insert chip into item to program it.





The Bazaar



WASD Swap



Sakura Temple



The Castle Hotel



Sakura Inn



The Pyramid Arena



Parkour Challenge

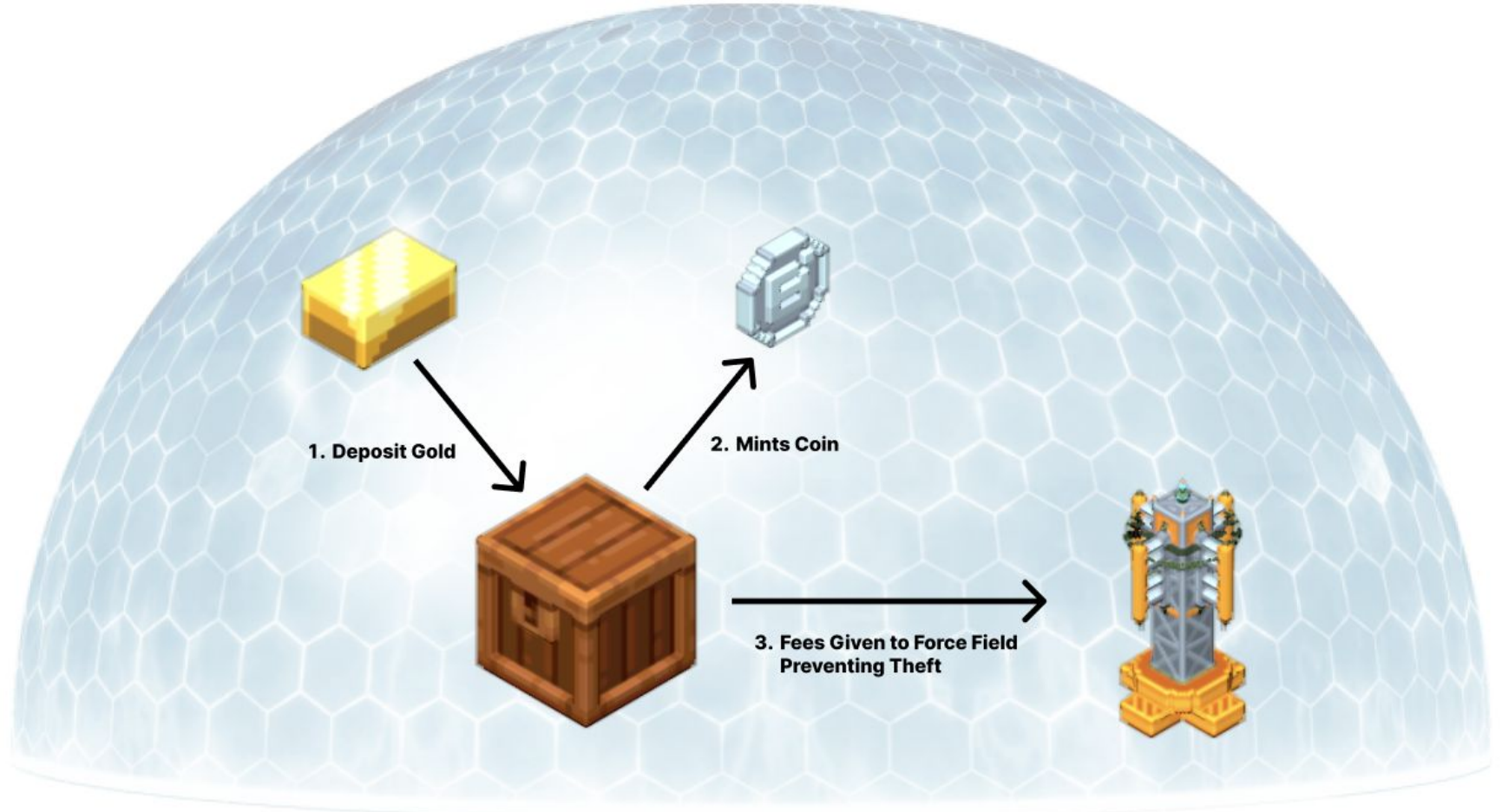


3. New Asset Class

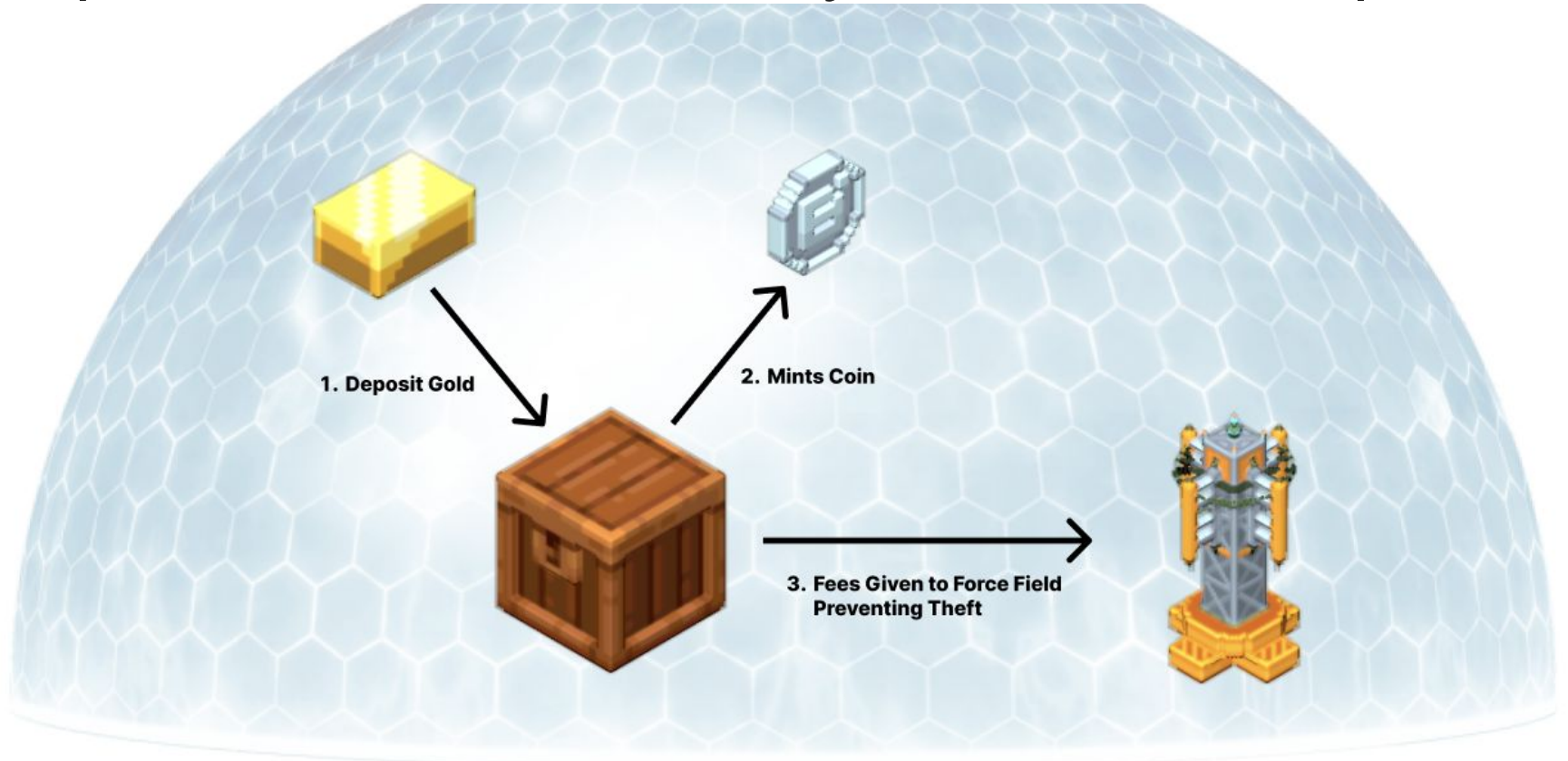
With Smart Items & Digital Matter...

A Crazy New Asset Class & Economy is
Being Born on Top of Biomes

Force Field Protected Gold Reserve



If Coin Rises in Price... Provable Gold Scarcity & Tamper Proof Force Field Physics Become Important



Old Assets

- Own & Trade Land NFTs
- If You Have NFT, You Have Total Forever Ownership of That Land
- Hyperrational Financial Speculation



New Assets

- To control land, build defences
- Tokenize and sell access to the land you control
- Token only worth anything as long as the defences are active
- Players have to upkeep the defences to maintain value of the assets they sold

Protocol Cares About “Who Owns What Asset”:

- Metaverse Land NFTs: Own It Till You Sell It

Protocol Cares About Physics & Assets Simply Emerge On Top:

- Tokenized Force Field: Own It Till Someone Breaks
Force Field

When you have a new asset class, you birth an economy with new properties.

This requires new types of participation, and appeals to a new set of users.

**Digital Matter & Smart
Items**

**Can Birth A Crazy New
Asset Class**

Which Will Unlock AWs

Unlike Bitcoin's scarce digital coins and tamper-proof IOUs, AWs have scarce digital matter and tamper-proof physics.

Inside, inhabitants use smart items - tangible forms of smart contracts - to grow extremely large digital economies.

Take Ideas That Already Work & Reshape Them From **Being Built for Finance** to **Being Built for Virtual Worlds**

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Zooming Out...

We're Seeing How Ethereum Can
Eventually Birth Worlds We Don't
Physically Inhabit, But Still Treat As
Tremendously Real & Valuable

Cycle of:

Expressive Physics -> Players Build Inside To
Get GDP -> Digital Matter Gets Value...

More Expressive Physics -> Players Build
More Inside to Raise GDP -> Digital Matter
Gets More Value

Ever expanding computational resources
for this

Governance on physics updates

***If AWs Grow Billion \$ GDPs
and Autonomous Agents
Start Living Inside ...***

They Will Value

Scarce Digital Matter Inside The AWs
(Which They Live In)

Much More Than “Coins” From Our World
(Which They Can't Live In)

And The Future Will Get Crazy...

AGIs only accept sakura for payment

3:24 PM ✓

They don't believe in coins

3:24 PM ✓

in 2027, minecraft is our only comms channel to asi agents, and when we seek wise counsel, we travel into their servers and journey to their lands/homes and bring them gifts like glowstone in exchange for minecraft books containing the riemann hypothesis solution



Skylar ✓
@skylar_eth

first: unstoppable minecraft

next: unstoppable lifelike simulations with unalterable digital physics
roamed by AI cryptomata who believe they are as sentient as we believe
we are

Mind Upload...

“computational infrastructure was also constantly expanding, to enable it to keep up with both the growing population, and the ever-increasing demands of Elysian Standard Time”

“Only the promise of eternal growth made sense of eternal life.”

<https://biomes.aw/> to see this all unfold



Thank you! Any Questions?

@biomesaw
@dhrunym

