

*Technology and Islamic Finance*

**Fintech, AI, Digitalization  
And Cryptocurrency In  
*Islamic Finance***

## *Agenda*

### ***Fintech***

- Why Fintech ? What's the Advantage
- Exploring New Model with Fintech

### ***AI***

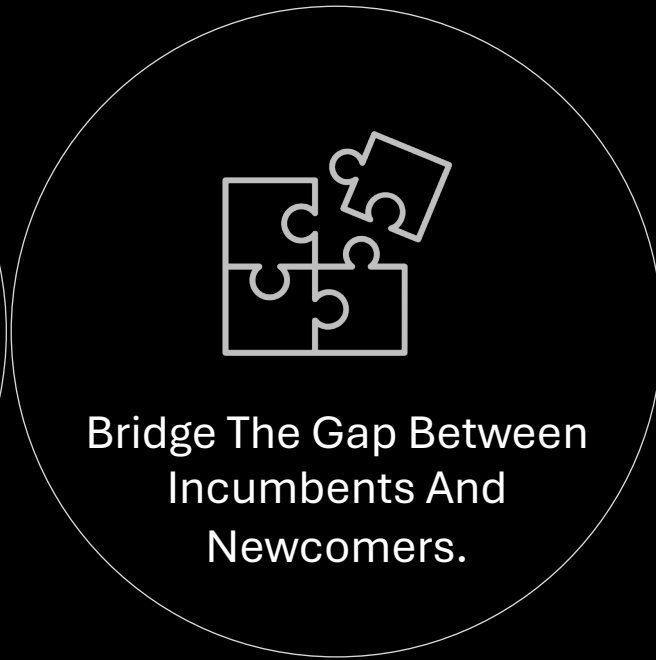
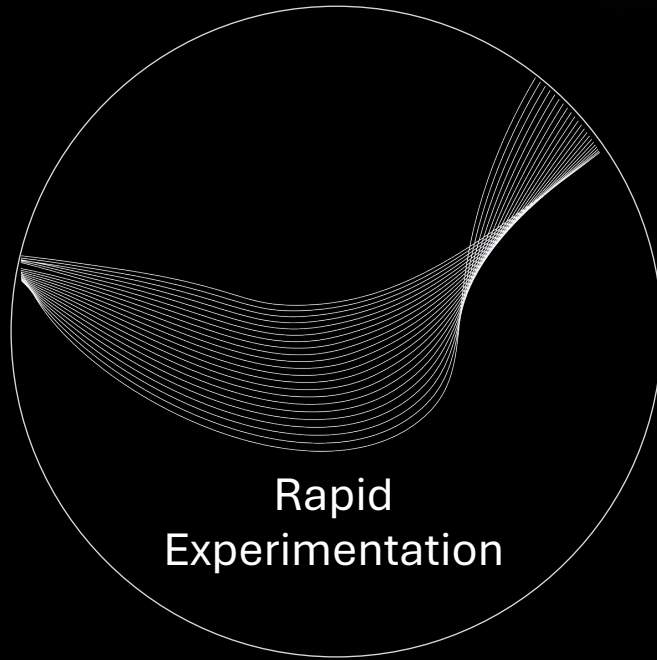
- Rapidness of AI
- Opportunities & Threat of AI
- Application

### ***Cryptocurrency***

- Web 3.0
- Stablecoin : Mainstreaming Cryptocurrency
- Tokenization
- Ecosystem Play



# Why technology/fintech can be the *X factor* ?



# Rapid *Experimentation*

**Agile Principles**

**E.G.  
Google 'Agility'**

**Cheaper To Experiment**

Why Now?

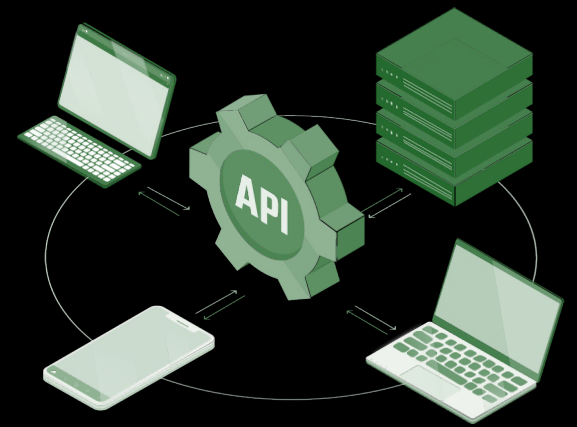
# Seizing Opportunities: *Low barrier to entry*



Cloud Computing



Mass Adoption Of  
Technology Products



API Economy

The Reality at Google

# Google face *product failures* too



Google wave

Google Hangouts



Google Play  
Music



Google Allo

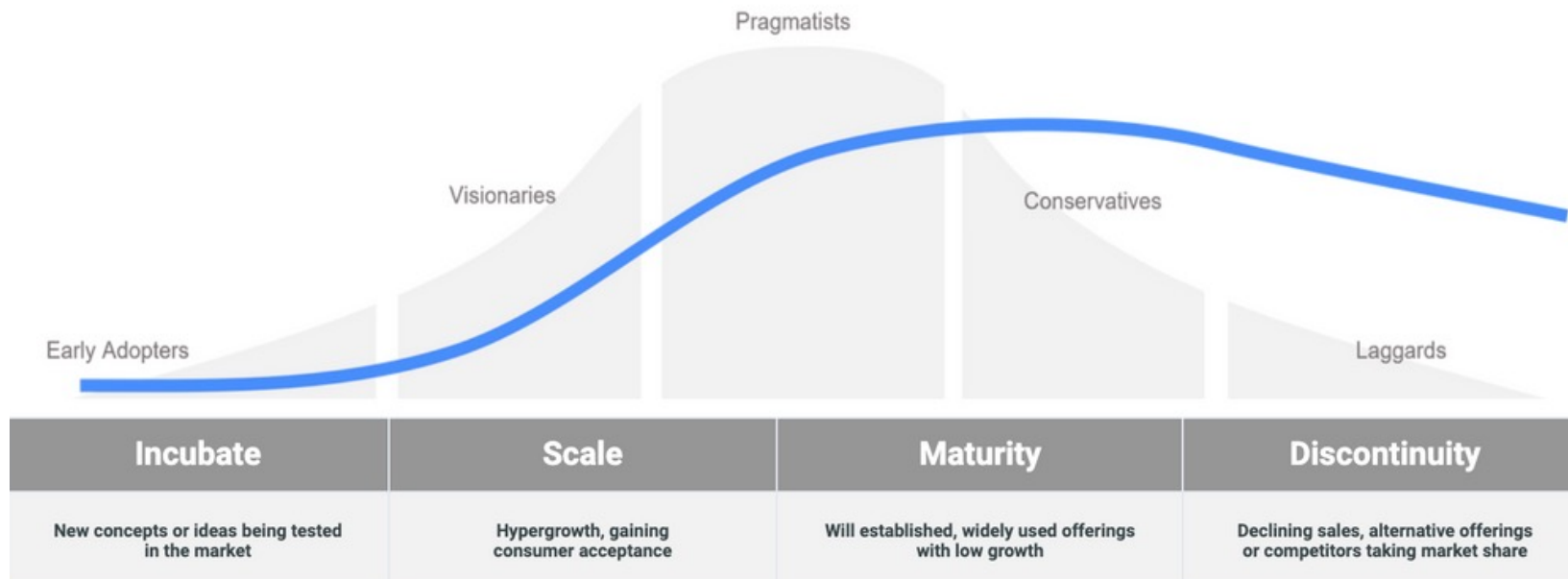


Inbox  
by Gmail

*and many more...*

## The Technology Lifecycle

Technology enables fast, cost-effective experimentation, making *failure* a vital part of the Islamic fintech lifecycle



It allows us to fail *faster and cheaper*

...And in the end finding models that work

Ultimately, this directs our attention towards cultivating models that not only work but also align with the principles and objectives of Islamic finance.

# Market Reach

- ✓ Enable reach to *sporadic markets*
- ✓ Because of its *digital nature*
- ✓ No longer *concentrated* in *urban centres*

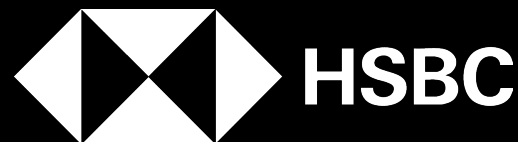


**4.8 billion**

The global digital population has reached 4.88 billion, with a 7.9% year-on-year growth, highlighting the widespread adoption of digital technologies.

Source : Datereportal

# Bridge the gap between incumbents and newcomers



Is it possible to offer level of service that is used to be offered by big conglomerates ?

Why?

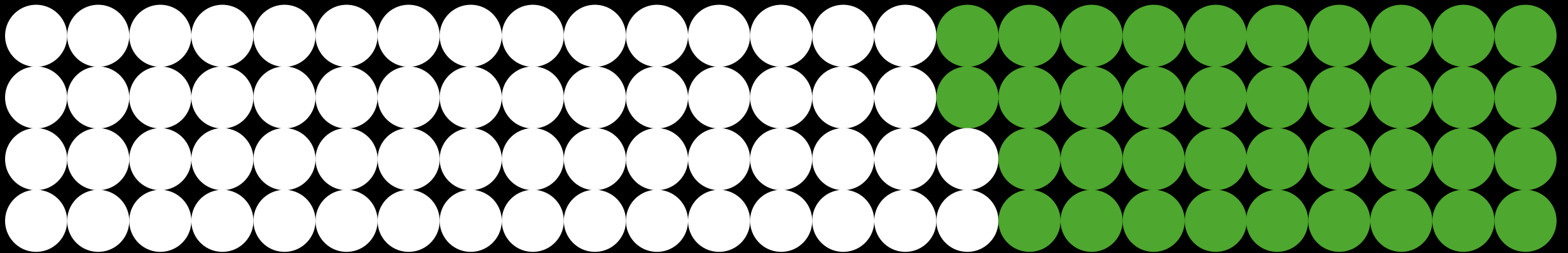
# Poor mobile experience can be *detrimental*.

62%

of users disengage after a poor  
mobile experience

38%

stick around—until a better  
experience comes along



Opportunities

**Technology** opens possibilities for new business models;



*Buy Now, Pay Later*



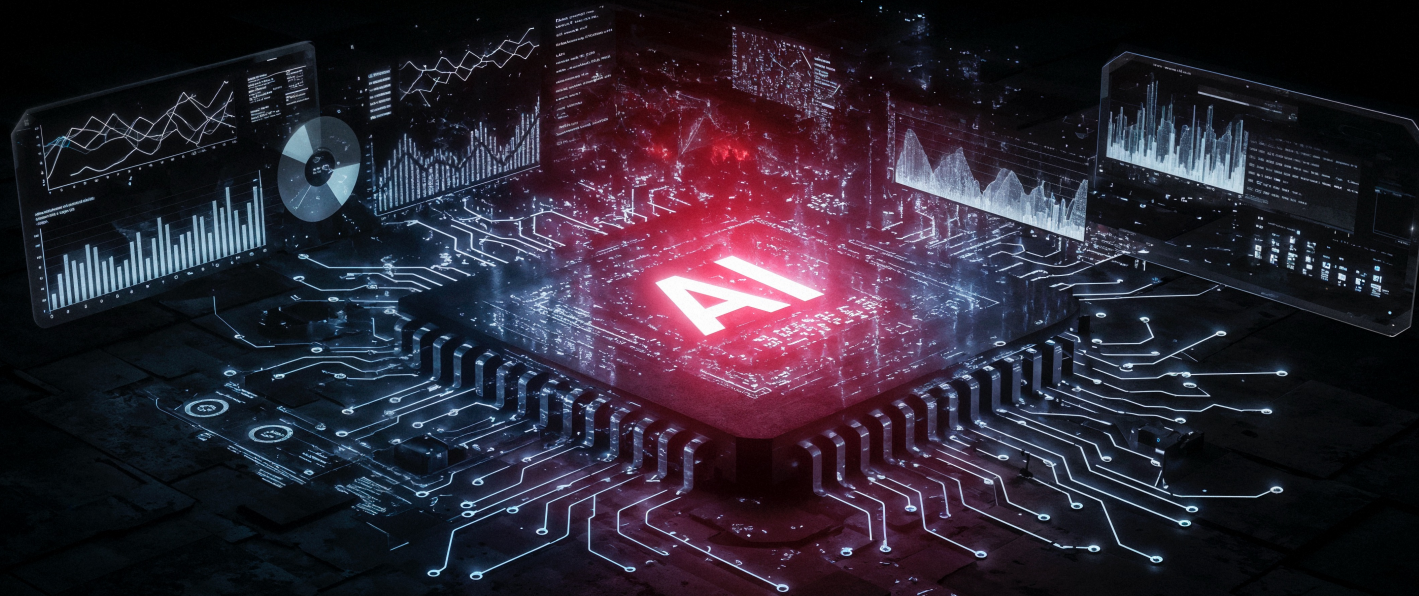
*Banking As A Service*

- Islamic Fintech
- Blockchain/Crypto
- Insurtech
- KYC/Regtech
- Proptech
- Wealthtech
- Robo-advisors

There's a whole bunch of evolving business models!



Exploring new financial  
model with *technology*



# Artificial Intelligence

Rapidness of AI  
Opportunities & Threat of AI  
Application in Finance

# *What* is **AGI**

AGI is an AI that can think, reason, and adapt like a human across almost any domain, not just one specific task.



# AI race to AGI

	Features 📄		Intelligence 📄		Price 📄	Speed 📄	Latency 📄
Model ↕	Context Window ↕	Creator ↕	Artificial Analysis ↕	Artificial Analysis ↕	Blended USD/1M Tokens ↕	Median Tokens/s ↕	Latency First Answer Chunk (s) ↕
			Intelligence Index	Omniscience Index			
<b>Gemini 3 Pro Preview (high)</b>	1m	Google	73	13	\$4.50	106	38.41
<b>Claude Opus 4.5</b>	200k	Anthropic	70	10	\$10.00	48	2.00
<b>GPT-5.1 (high)</b>	400k	OpenAI	70	2	\$3.44	122	20.12
<b>GPT-5 (high)</b>	400k	OpenAI	68	-11	\$3.44	0	0.00
<b>Kimi K2 Thinking</b>	256k	Moonshot AI	67	-23	\$1.07	68	0.95
<b>GPT-5.1 Codex (high)</b>	400k	OpenAI	67	--	\$3.44	183	13.11
<b>GPT-5 (medium)</b>	400k	OpenAI	66	-14	\$3.44	0	0.00
<b>o3</b>	200k	OpenAI	65	--	\$3.50	200	14.20

# Cryptocurrency

*Essentially, web 3.0 creates a digital world that society used to live in physical world.*

## Web 1.0

*Static Web*

Controlled by  
**companies**

## Web 2.0

*Social Web*

Controlled by  
**platforms**

## Web 3.0

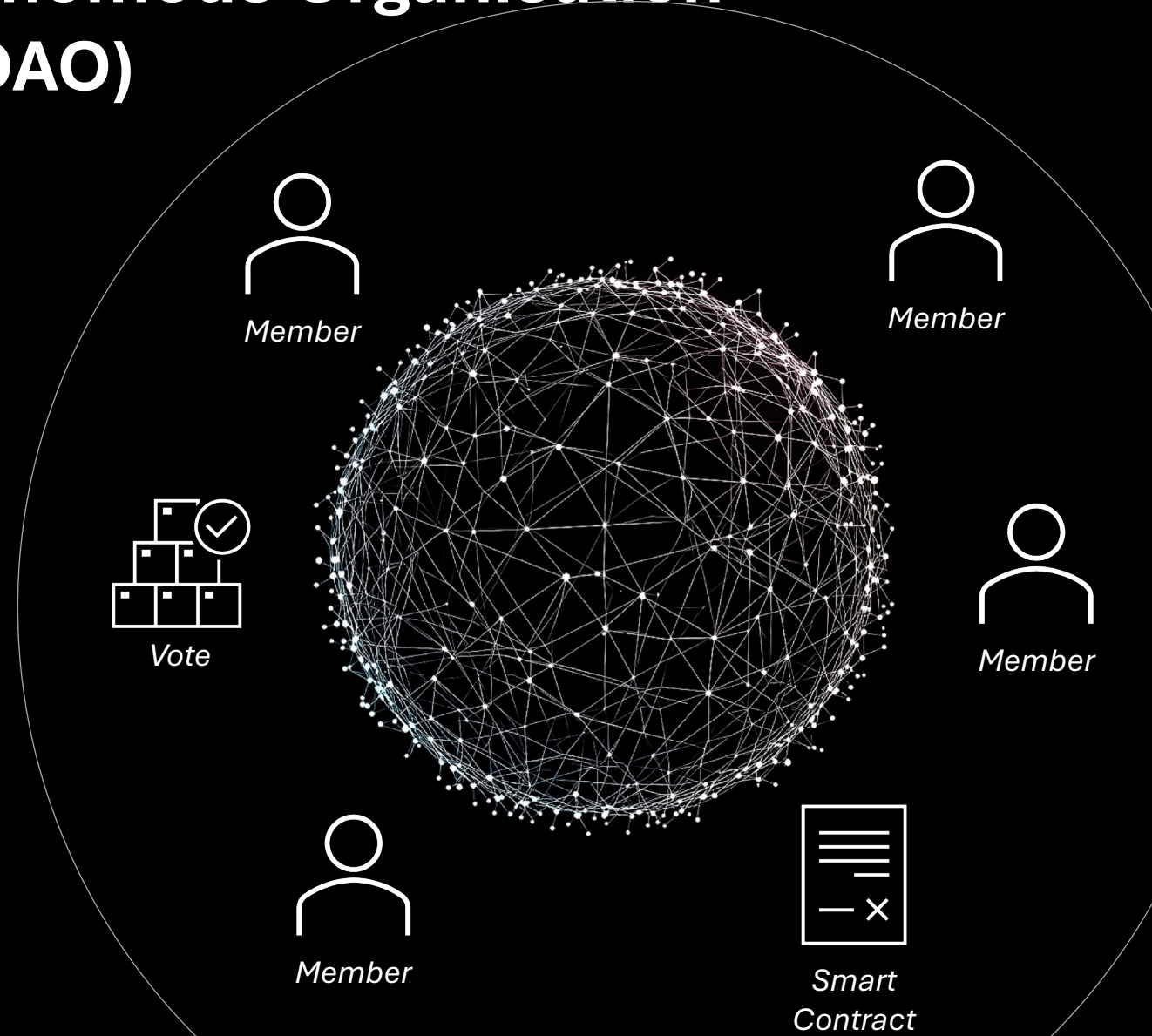
*Decentralised Web*

Controlled by  
**users**

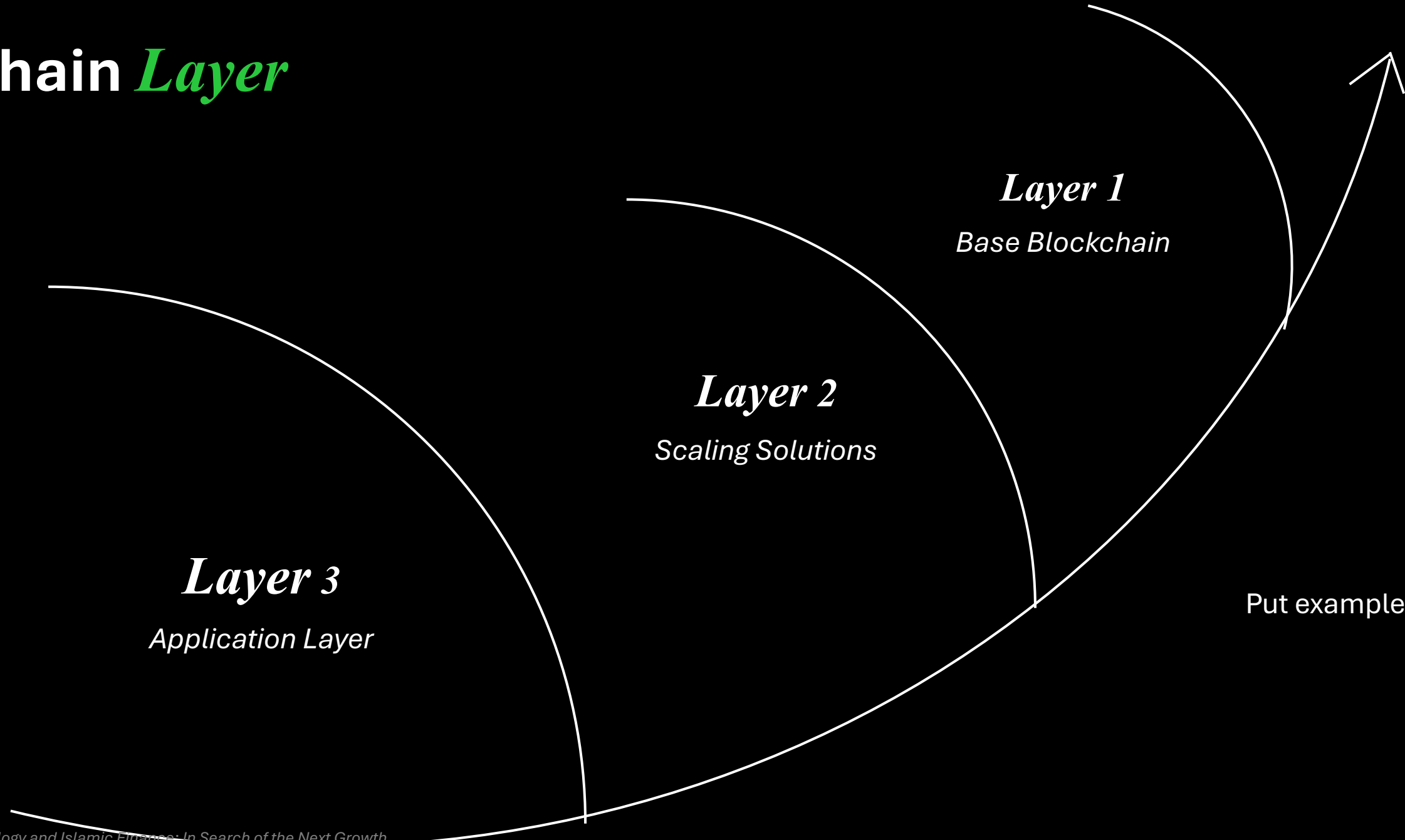
## Cryptocurrency

# Decentralised Autonomous Organisation (DAO)

- *An organization managed on blockchain*
- *Rules enforced by smart contracts*
- *Governed by members through token voting*



# Chain *Layer*



**Layer 1**  
Base Blockchain

**Layer 2**  
Scaling Solutions

**Layer 3**  
Application Layer

Put example

# Stable *Coin*

Making Crypto Usable for Everyone

- ✓ **Stable & predictable** → *pegged to USD or assets, solving crypto volatility.*
- ✓ **Real-world utility** → *used for payments, trading, remittances, and savings.*
- ✓ **Easy adoption** → *feels like digital money, lowering barriers for new users.*
- ✓ **Powering innovation** → *enables DeFi, programmable payments, and tokenised assets.*
- ✓ **Global access** → *provides financial services in countries with unstable currencies.*

→ **Stablecoins bridge crypto & traditional finance, *driving mainstream usage***

***Tokenisation*** converts real-world assets into digital tokens, making them easier to trade, manage, and transfer.



Example

# Tokenising a *Mortgage*

“A mortgage can be turned into tradable digital tokens, allowing investors to buy fractions of the loan and receive returns from the borrower’s repayments.”



Case Study

# Provenance *Network*

*Provenance Blockchain is a public, open-source, proof-of-stake blockchain built specifically for the financial services industry.*



About

Build

Use

Participate

## Real Assets, *Real-World* Impact.

A purpose-built blockchain for financial products—used by innovators, trusted by institutions.

# *Thank You*



Email  
[daeng@kestrl.io](mailto:daeng@kestrl.io)



Phone  
+60 11-3348 8520