

# cobe.

## Light Paper



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***“Cobe’s mission is to make cross-border trade dramatically cheaper, faster and easier”***

# The Desperate Need For Innovation

Though the cross-border trade sector is worth over 28 trillion dollars, there is no dedicated decentralized ecosystem to solve the problems that plague it.

Put simply, cross-border trade is too expensive, slow, and inaccessible.

Letter of Credits (LCs) take months to set up and cost thousands of dollars to set up, even for the smallest of trades. What's more, most banks refuse to provide them for the less developed regions of the world - excluding millions of businesses. And, according to the IFC, at least 50% of small businesses across the globe have no

access to trade finance at all.

But that's not all, by the end of 2020 the global counterfeit losses associated with cross-border trade were estimated to be in the region of 1.82 trillion dollars. Using distributed ledger technology, Cobe will break barriers to completely transform the way that cross-border trade is conducted - making it dramatically cheaper, faster, and easier.

This means, with Cobe breaking barriers, millions of small businesses around the world will finally get the break they deserve.



# The Most Powerful Blockchain For Cross-border Trade

For a cross-border trade ecosystem to solve the greatest range of challenges, it requires a blockchain solution where both permissioned and permissionless chains work in synergy.

This is because a permissionless chain is better for transparency and participation, while a permissioned chain is better for confidentiality and fixed transaction fees.

At present, no such solution exists.

Cobe has tackled this challenge by developing a unique dual-sided blockchain architecture. It includes a permissioned Proof of Authority chain, offering a high level of confidentiality and fixed transaction fees on one side, and a permissionless Proof of Stake chain, offering a high degree of transparency and participation, on the other.

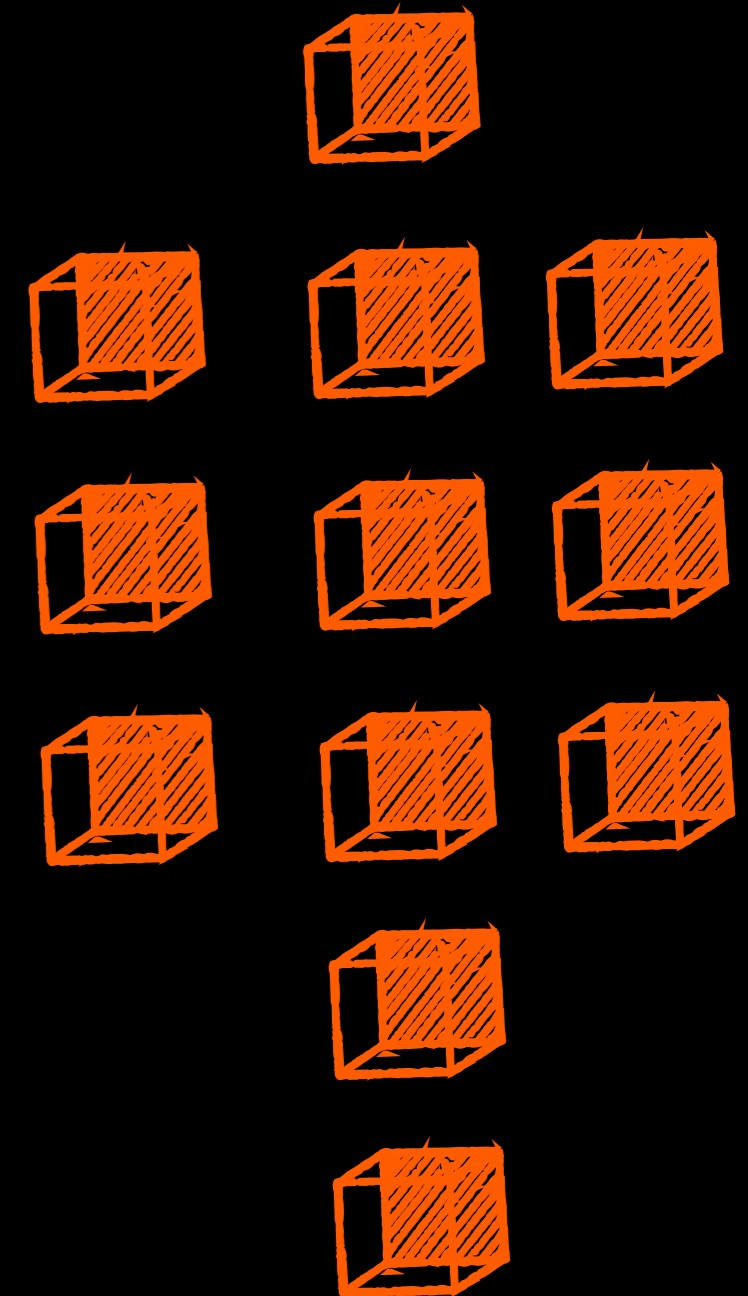
No other blockchain provides this type of holistic solution to building cross-border trade applications, giving Cobe a distinct competitive advantage.

In addition, Cobe has developed its own novel 'Proof of Turn' (PoT) consensus protocol, which will work in synergy with both its Proof of Stake and Proof of Authority protocols to boost transaction speeds and lower costs.

Going a step further, Cobe has also developed cutting edge concurrency protocols to dramatically increase transaction speeds.

These ground-breaking protocols position Cobe as one of the most powerful blockchains to date.

Proof of Turn (Pot)



$$SR = SR_{base} + \frac{P_{th}}{1 + e^{(\pi - \rho)}}$$

# The Nucleus Platform: A True Game Changer

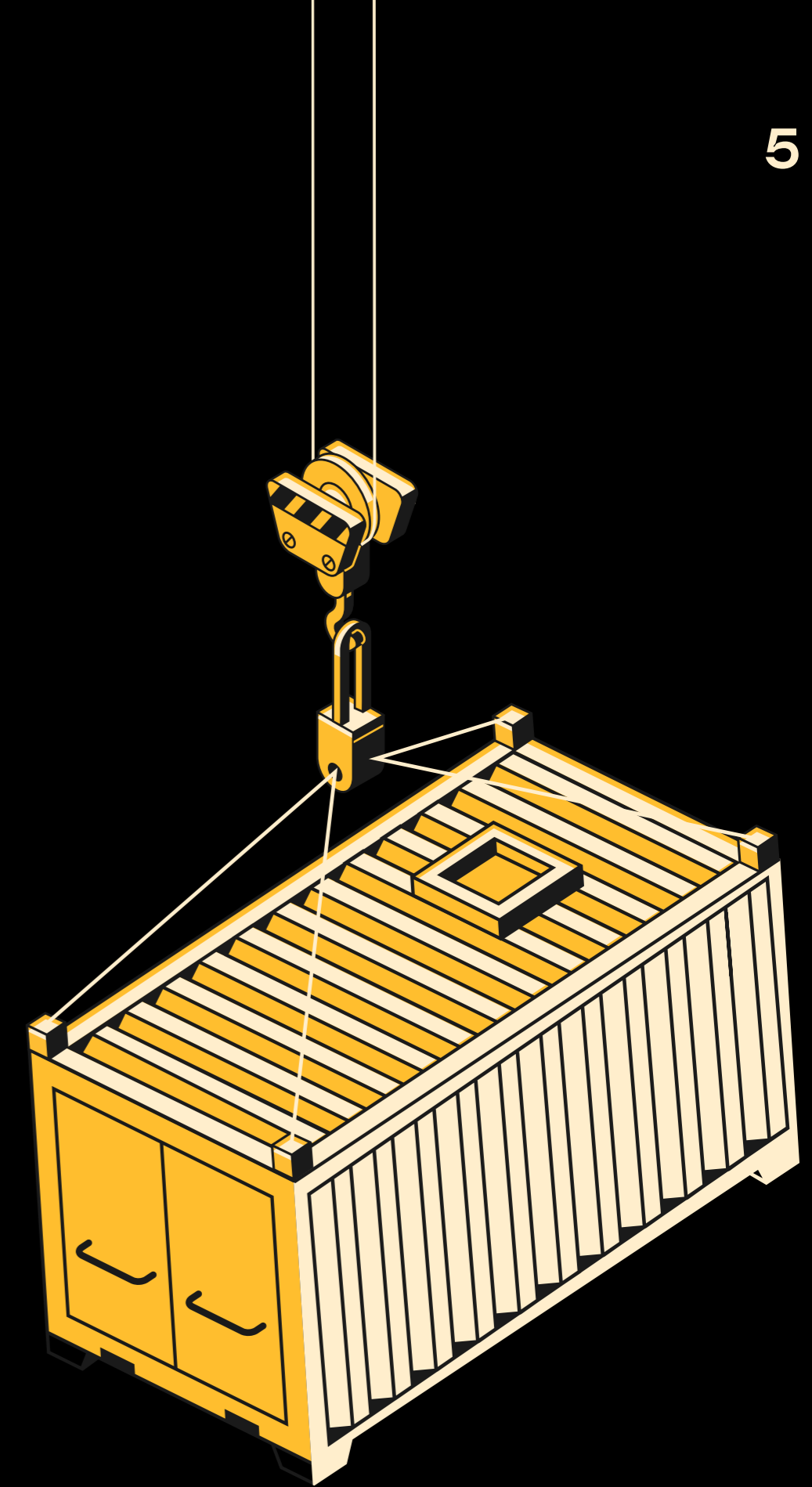
Cobe is also launching its very own native cross-border trade platform, named Nucleus. This consists of a suite of applications built on top of its blockchain.

Nucleus is targeting the three fundamental challenges that pose major obstacles to cross-border trade:

- **Trust:** by providing a powerful alternative to Letters of Credit (LC), Nucleus will give millions of individuals currently unable to participate in global trade the ability to do so. Nucleus's smart escrow facility only takes minutes to set up, as opposed to the weeks/months that a typical LC requires, for around 1/10 of the cost.
- **Finance:** Nucleus will provide easy and low-cost access to decentralized

finance (DeFi) for cross-border trade. With the ability to synergize lending with individual cross-border trade transactions, and its unique user rating system, Nucleus will be able to offer both buyers and sellers the lowest cost borrowing.

- **Product Authentication:** Nucleus will take the most comprehensive approach to authentication, including document validation, track & trace, and provenance.



# Bringing The Best Minds Together

Despite the great advantages blockchain has to offer, many projects have failed due to weak technological foundations and divergence from the proper scientific method.

Cobe not only collaborates with world-renowned academic institutions, it also continuously submits its research to leading conferences and journals for peer review – guaranteeing maximum adherence to scientific principles.

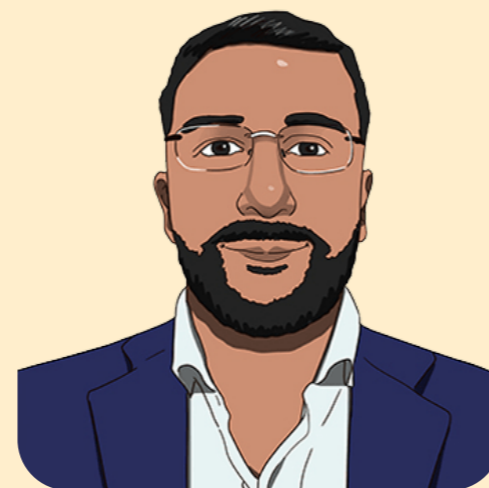
On top of this, Cobe's research team includes some of the world's best minds from the fields of computer science, software engineering, mathematics, cryptography, game theory, data science, economics, AI, and the behavioral sciences.

***'The science of today is the technology of tomorrow'***

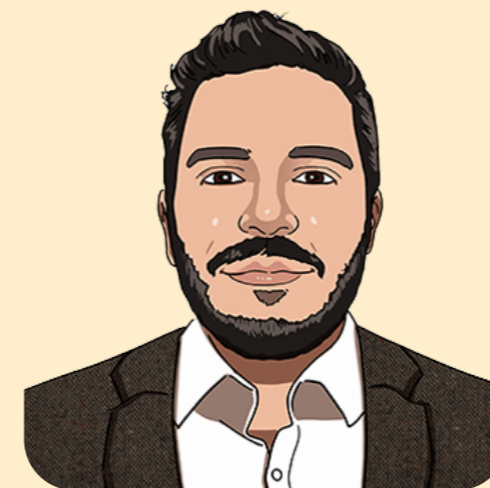


# The Team

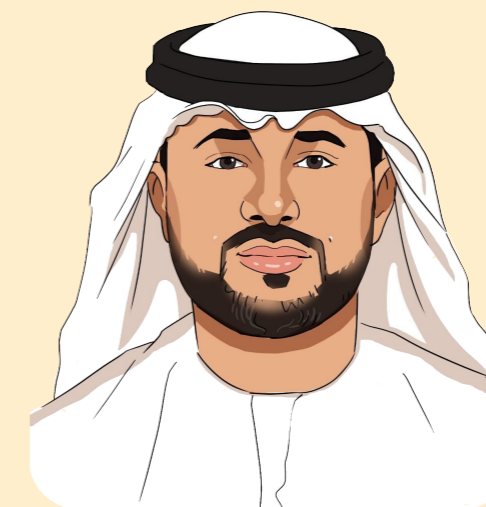
Cobe's diverse team includes some of the world's leading computer scientists, software engineers, cryptographers, cross-border trade specialists, and experienced entrepreneurs with proven track records.



**Dr. Michael Singh**  
Chief Executive



**Prof. Marco Ortu**  
Chief Technology Officer



**Ibrahim Al Dubaili**  
Chief Operating Officer



**Prof. Michele Marchesi**  
Chief Scientific Officer

**40+** Core team



**Prof. Roberto Tonelli**  
Chief Information Officer



**Chris Ash**  
Chief Financial Officer



**Niall Mason**  
Chief Strategy Officer



**John Lee**  
Chief Marketing Officer

# Discover More



Cobe: in a Nutshell



Blockchain Solution



Nucleus: Cross-Border Trade



Nucleus: DeFi & CeFi



Nucleus: Product Authentication



Tokenomics