

DECEMBER 2018



indium.network

BLOCKCHAIN FOR PUBLIC GOODS



Made with ❤
in India



Permissioned &
KYC-compliant



Developer
friendly

Blockchain for the rest of us

01

Permissioned network reduces transaction costs and legal risks for projects

02

Ethereum compatibility drastically lowers development costs

03

Use smart contracts with UPI instead of cryptocurrencies

We are a community of 200+ blockchain developers from India - including long-time open-source contributors to high-profile projects like Ethereum & BigchainDB - who realized that public goods & utility apps have specific needs that permissionless, anonymous blockchains cannot meet.

So, we built our own.



Who are we?

AN OPEN COMMUNITY OF BLOCKCHAIN
BUILDERS FOCUSED ON SOLVING
MEANINGFUL PROBLEMS FOR THE SOCIETY

We are programmers, cryptographers, policy analysts, entrepreneurs, designers, social scientists, investors, lawyers, journalists and much more. 200+ and counting.

- [Nilesh Trivedi](#) – Contributor to Ethereum & BigchainDB, mentored teams at Karnataka Blockchain Hackathon, IIT Kharagpur & IIM Lucknow
- [Kumar Anirudha](#) – Programmer, Co-Founder @ Blockchained India
- [Tanvi Ratna](#) - Policy Analyst, Ernst & Young. Advising many governments on their blockchain strategies
- [Pranay Prateek](#) -CryptoEconomics advisor for blockchain projects, IIT Madras & IIM Ahmedabad
- [Paras Chopra](#) - Successful bootstrapped entrepreneur, Founder @ Wingify, Forbes 30 under 30
- [Deepak Shenoy](#) - Financial markets expert, Founder @ CapitalMind
- [Swaroop Hegde](#) - Founder @ EthVigil, Ethereum developer
- And many more...



How?

Proof-of-authority consensus algorithm

Instead of the expensive, slow, and risky proof-of-work approach taken by Bitcoin & Ethereum, our algorithm gives us deterministic, low-cost, and low-latency consensus. Thousands of transactions can be confirmed within 15 seconds.

Full compatibility with Ethereum

Ethereum developers can re-use both their knowledge AND code/tools for building apps on Indium.network. Smart contracts are written in Solidity, and tools like Truffle, Metamask etc can be used seamlessly. This drastically reduces development & training costs when compared with HyperLedger, BigchainDB etc.

Token-less smart contracts

To make it possible to comply with Know-Your-Customer and Anti-money-laundering laws, we made it possible to invoke smart contracts with payments made over UPI. The money never leaves the bank accounts and users never need to buy any cryptocurrency. Thus, completely transaction trail is available to the authorities. This increases the reach of blockchain technology to the masses.

Non-anonymous transaction validators

In Indium.network, the validator nodes will be run by well-known, non-anonymous entities. These entities will be subject to the laws of the land, and can be audited appropriately. We plan to bring in the government, the banks and other reputed institutions for this role. Anyone in the world can run an observer (read-only) node.

indium for governance

Supply chain on blockchain

Blockchain acts as immutable append-only log of events - which is perfect when we need traceability of transfer & transformation of materials & products (for eg: in agriculture sector). Indium, with its powerful smart contracts & superior performance is a great candidate for this problem.

Insurance

The idea of insurance is simple: Collect premiums into a pool, and depending on whether a specific event happened or not, disburse claims to eligible beneficiaries. Traditionally, because of lack of automation, insurance sector has had high overheads - leading to exclusion. Blockchain can solve this.

Auction & procurement

With state-of-the-art advancements in cryptography - such as, zero knowledge proofs - it has become possible to perform auctions and order matching in a transparent manner. Smart contract can implement the logic (for eg: Vickrey sealed-bid auctions, or first-come-first-serve order matching). This helps us achieve the objective - be it maximization of revenue collection, or fairest allocation of value.

Land records registry

Blockchain can maintain entire history of the titles of plots of land and can help eliminate disputes and make it really easy to verify, buy & sell land. By digitizing the transaction, we can unlock immense value using geographical data analytics.



How far have we come?

Network is up & running

The test network dashboard is here: <http://dashboard.indium.network/>
Here, you will also find the instructions to connect your own node to the network.

Developer community is thriving

We're an open, transparent and inclusive community of 200+ contributors. All our discussions happen in the public view. You are welcome to join here:
<https://indium.network/>

Apps are coming soon

Multiple apps are being built - wallets, marketplaces, supply chain and more. We've already partnered with banks for UPI integration. A social wallet app is expected to go live very soon. A recruitment company is building a trusted review platform for job candidates. More apps are in the works.

Join Us

Write to us at hi@indium.network