MultiVAC pioneers flexibility for DApps to trade off freely on the impossible CAP triangle between decentralization, performance and security, supporting large-scale decentralized commercial applications for complex and diverse business requirements. We provide a novel approach for blockchain to reach industrial capabilities.

- **Trusted Probability Model**: An elegant mathematical model allowing developers to switch between their CAP specifications
- **PoIE Consensus**: An efficient and practical way to verify the execution of smart contracts
- **BISC**: A blockchain instruction set based on a mature developer’s ecosystem, providing low-level support for DApps
- **MVM**: A general-purpose computational environment for commercial-grade DApps

**Innovative Flexibility for CAP Trilemma**

Sharding has produced progress in parallelizing transaction processing but has not realized total scalability. MultiVAC is developing the world’s first fast, efficient, and fully sharded blockchain with sharding for not only computation but also transmission and storage, maximizing throughput while maintaining decentralization and without sacrificing security.

- **Account Sharding**: Accounts processing is divided equally to shards that keep all its transaction data.
- **Miner Sharding**: Efficient dynamic sharding based on Verifiable Random Functions
- **Ledger Sharding**: A UTXO model variant with trustable interactive verification
- **Storage Sharding**: Cross-shard read-only data structures with high-throughput
- **Transmission Sharding**: An in-shard broadcasting mechanism avoiding network storms

**All-Dimensional Sharding Ultimate Solution**

**MultiVAC ECO**

**LAB DATA OFFICIAL RELEASE**

- A Single Shard’s TPS: 533
- Total Nodes: 12800 = 64 * 200
- No. of Shards: 64

Update time: Oct. 11, 2018, 6:00, UTC
Our team is from Harvard, Meituan, Stanford, Pinterest, NTU, PKU, Facebook, Tencent, Tsinghua, Microsoft, Google, Alibaba, etc. We have 3 Co-founders with excellent business, academic, and technical backgrounds.

- **6 Ph.D Experts** in General Computing, Group Theory, Cryptography, AI, Big Data, Applied Maths, etc.
- **18 Researchers and Engineers**, experts in distributed system, infrastructure, big data, etc.
- **7 In-house** marketing and community employees

The name MultiVAC comes from the supercomputer in Isaac Asimov’s short story, The Last Question. This supercomputer grew from an ordinary computer to a super-being integrated with all the human souls in hyperspace. In every epoch, humans have questioned MultiVAC with the same query: “Can the universe’s entropy be reversed?” Eventually, as the universe reached heat death, the supercomputer ultimately found the answer, and made the declaration:

“LET THERE BE LIGHT.”

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### ALL-STAR Team

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- **6 Ph.D Experts** in General Computing, Group Theory, Cryptography, AI, Big Data, Applied Maths, etc.
- **18 Researchers and Engineers**, experts in distributed system, infrastructure, big data, etc.
- **7 In-house** marketing and community employees

### ALL-STAR Advisors

#### Academic Advisors
- He Ying: NTU Associate Professor, Parallel computing expert
- Chen Chang: Fabric Core Developer

#### Business Advisors
- Chen Liang: Senior VP & Cofounder of MEITUAN
- Yang Jun: VP & Cofounder of MEITUAN
- Lai Binqiang: VP of MEITUAN

#### Blockchain Advisors
- Roger Lim: Founding Partner of NGC (NEO Global Capital)
- Michael Arrington: Founder of TechCrunch and Arrington XRP Capital. The 2008 TIME 100

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### ALL-STAR Partners

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### Project Progress

- **2018**
  - Yellowpaper & Lab data
  - Technical Whitepaper
  - Testnet Development&Demo
  - Testnet 1.0 Launch

- **2019**
  - Testnet 2.0 Launch

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### About Us

Pioneering Flexible Blockchain Platform based on Trusted Sharding

www.mtv.ac