Programmable blockchain maturity curve

(1) Enterprise Blockchain Data & Workflow

(2) Partial Asset and Financial Instrument Tokenization

(3) Retro-fitted packaging of Tokens into Alternatives

(4) All financial software written into the network itself

(5) Decentralized Financial Economy
Payments are moving towards blockchain technology

Private stablecoins on Ethereum are growing fast

80% of Central Banks are working on CBDCs

Payment companies are using blockchain

- Main CBDC pilots (retail and/or wholesale)

Private stablecoins on Ethereum are growing fast:
- Tether
- USD Coin
- PAXOS
- DAI
- Gemini

Payment companies using blockchain:
- VISA
- American Express
- Revolut
- Worldline
- Square
- PayPal
- Ant Financial
- JPMorgan Chase & Co.
- Alipay
- BitPay
- Finality
- Mastercard

Confidential - Do not share
ConsenSys Enterprise Stack

Compose, Configure or Customise → Deploy

- **Versatile** to support a wide range of use cases across our core industry focuses (financial services, global trade)
- **Composable and configurable**, out-of-the-box and no custom development for small scale initiatives, minimal custom development for larger scale initiatives
- **Time-to-market**: 1-3m for small initiatives, 6m for large scale initiatives
- **Battled tested** across small and large scale deployments

Custom developments can be delivered by ConsenSys Professional Services

Key components of our CBDC reference architecture
The four pillars of our CBDC reference architecture are:

1. **A private and permissioned network**, operated by selected (licensed) entities using Quorum (available in Java and Go).

2. **Token issuance & redemption by the issuing entity (eg., Central Bank for CBDC)**
   ERC20 smart contracts, which is the most adopted token standard worldwide, enabling digital asset issuance and transfers between network participants.

3. **Transactions between the issuer and the distributors (Tier 1)**
   Shielded ERC20 smart contracts to enable private transfers among nodes.

4. **Retails transactions with high TPS (Tier 2)**
   A rollup based smart contract, which is used to maintain consensus on user balances and data availability and enabling **high scalability** (10k+ TPS). Transactions are real time and final.
Ethereum supports 100M addresses and 3MM contract calls

**Unique Addresses**

**Contract Calls**

Source: Etherscan, CoinMetrics, ConsenSys estimates
Decentralized Finance emerges as Fintech 2.0

“The long-term opportunity for banks and financial institutions is to translate key operational, risk and finance systems into Ethereum-based platforms.”