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19SB603- Government Initiatives in Distributed Ledger Technology (DLT)

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Government Initiatives

Government Initiatives in Distributed Ledger Technology (DLT) in India

- ◆ **IndiaStack Blockchain** – Developing a national blockchain infrastructure for digital governance.
- ◆ **Land Records Management** – States like Telangana, Maharashtra, and Karnataka use blockchain for **land registry** to prevent fraud.





- ◆ **CBDC (Digital Rupee)** – The **Reserve Bank of India (RBI)** launched a pilot for the **Central Bank Digital Currency (CBDC)** on blockchain.
- ◆ **WIPRO & NIC Blockchain Initiative** – The **National Informatics Centre (NIC)** collaborates with Wipro to build **DLT solutions for e-governance**.
- ◆ **Trade and Supply Chain** – Blockchain is being tested for **streamlining trade finance** (e.g., ICICI Bank and Yes Bank blockchain initiatives).





Example: Bitcoin Blockchain

- ◆ **Public Ledger** – All Bitcoin transactions are recorded transparently.
- ◆ **PoW Consensus** – Miners validate transactions through computational puzzles.
- ◆ **Security** – Uses SHA-256 cryptographic hashing for data integrity.
- ◆ **Immutability** – Once a block is added, it cannot be altered.
- ◆ **Decentralization** – No central authority controls Bitcoin transactions.

Real-World Example – Bitcoin and Ethereum use blockchain (a type of DLT) as a public ledger.



Thank
you