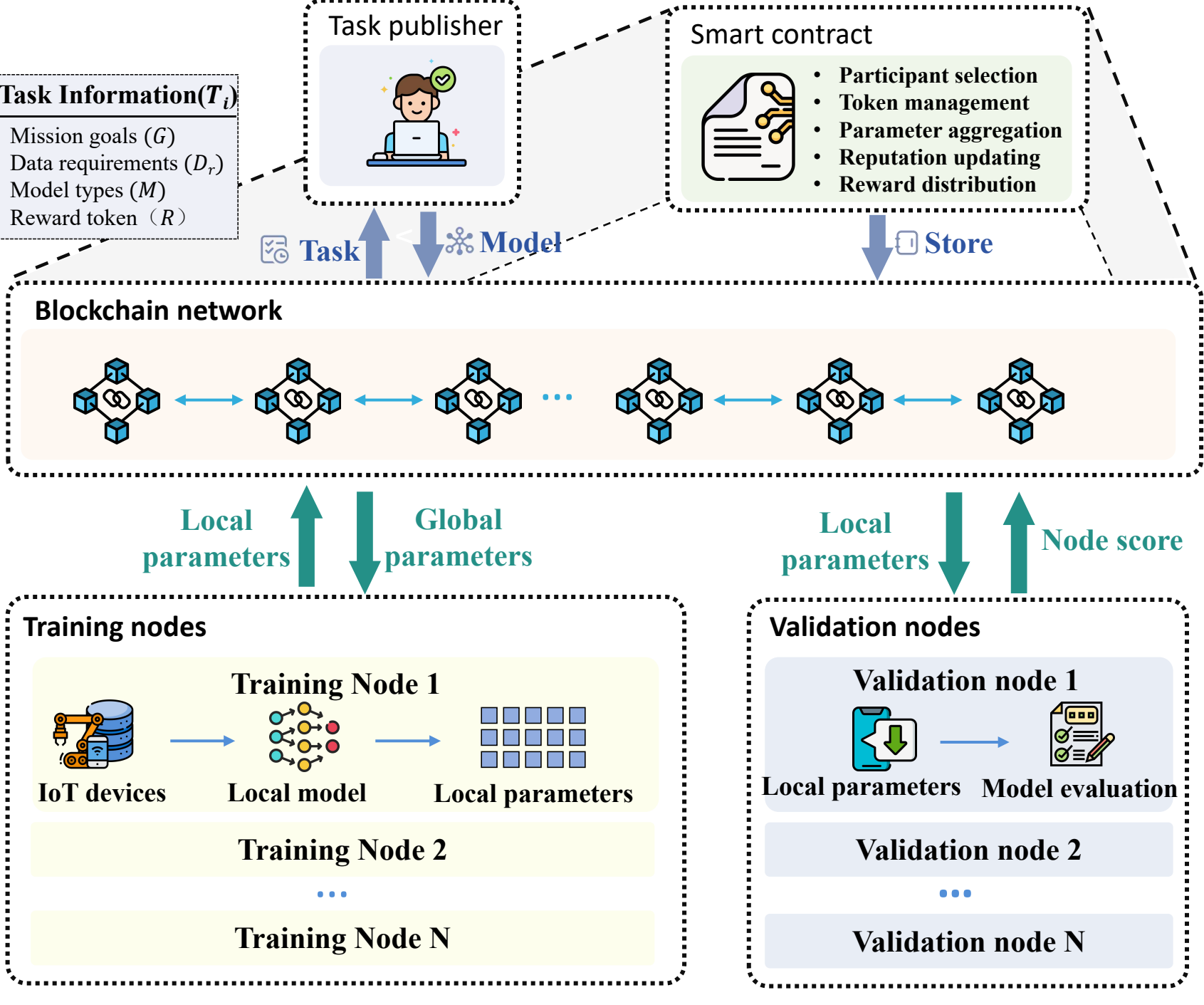


**Task Information( $T_i$ )**  
 Mission goals ( $G$ )  
 Data requirements ( $D_r$ )  
 Model types ( $M$ )  
 Reward token ( $R$ )



**Transcation**  
 Task Publisher Smart contract Nodes

**Task Publisher**  
 The task publisher is responsible for publishing federated learning tasks on the blockchain.

**Smart contract**  
 The smart Contract manages federated learning on the blockchain.

**Blockchain**  
 The blockchain stores tasks, participants, models, and key training data.

**Nodes**  
 The nodes include training nodes and validation nodes

**Local model**  
 The local model is generated by training the node locally.

**Global model**  
 The global model is generated by the blockchain network by aggregating all local models through smart contracts