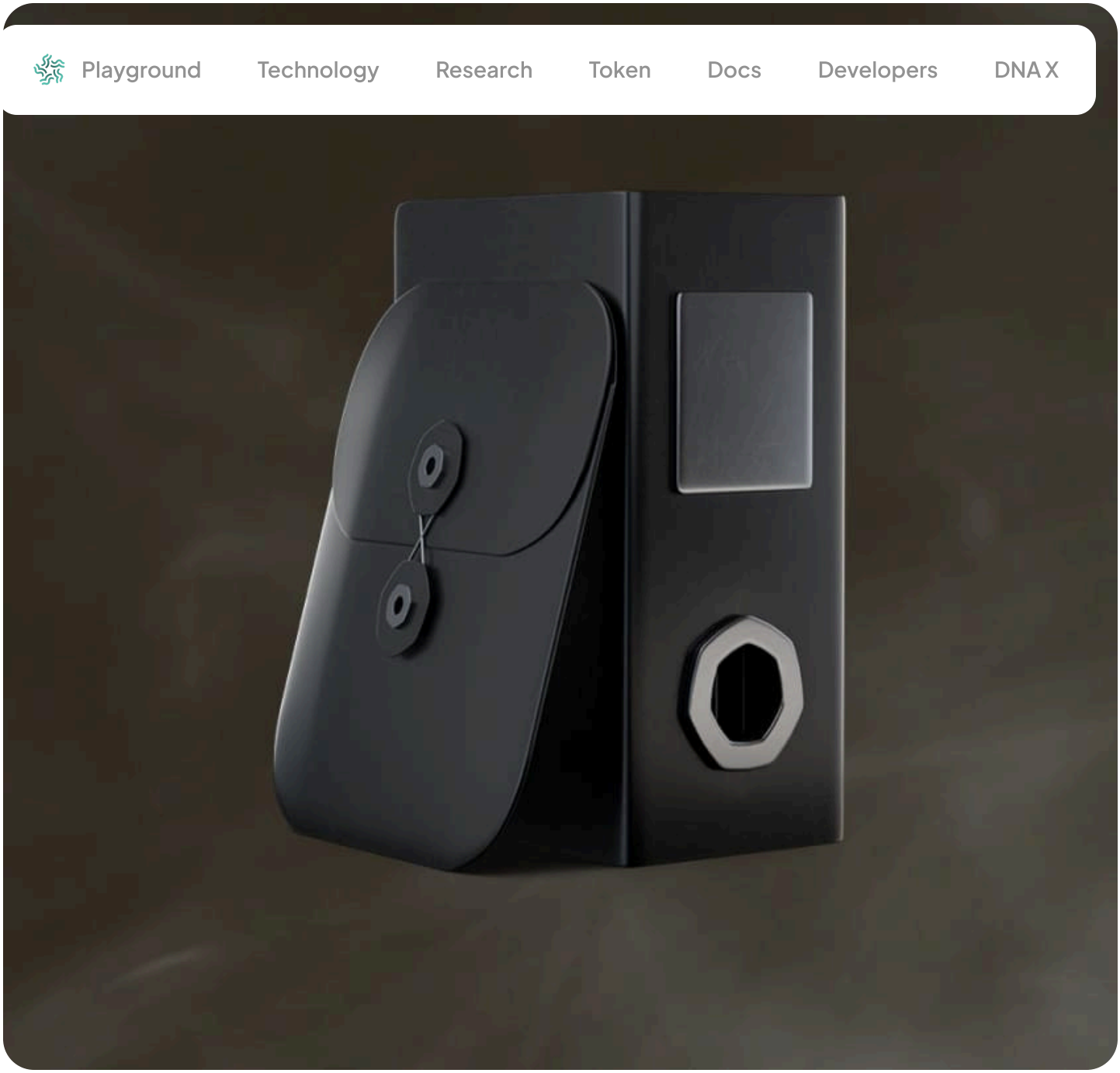

Decentralized Storage

DATA

To facilitate the storage of AIVM kernels — comprising model parameters, configuration

IPFS and Arweave

IPFS offers a peer-to-peer network for storing and sharing data in a distributed file system, ensuring that AIVM kernels are accessible across the network without relying on centralized servers. Arweave, on the other hand, provides a platform for permanent storage with its blockweave technology, ensuring that once an AIVM kernel is uploaded, it remains available indefinitely.

> By combining these decentralized storage solutions, we achieve resilience against data loss and censorship, as well as enhanced accessibility for model deployment.

In addition to AIVM kernels, Nesa connects each model container with retrieval-augmented generation stores (RAG) that remain off-chain and connect to the kernel securely.

Nesa also facilitates GPU and TPU resource sharing via dedicated decentralized compute partners, offering miners the ability to easily provision servers and join as a validator node in the system.