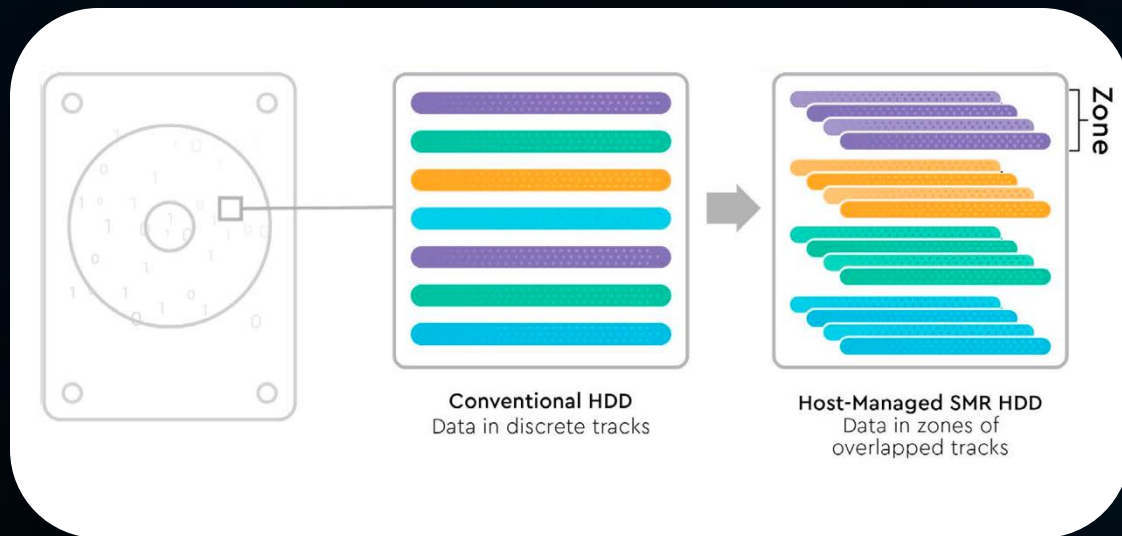


Being **Green** For Real

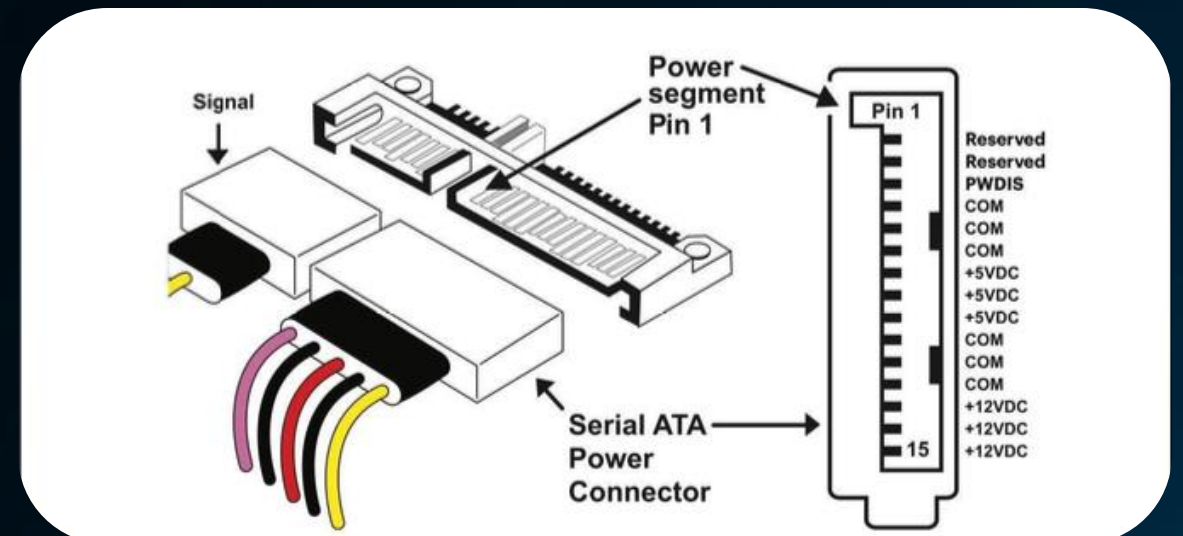
Leil Storage Innovates to Reduce Carbon Footprint

Host-Managed SMRs drives vs other HDD



ROLLOUT IN 2025

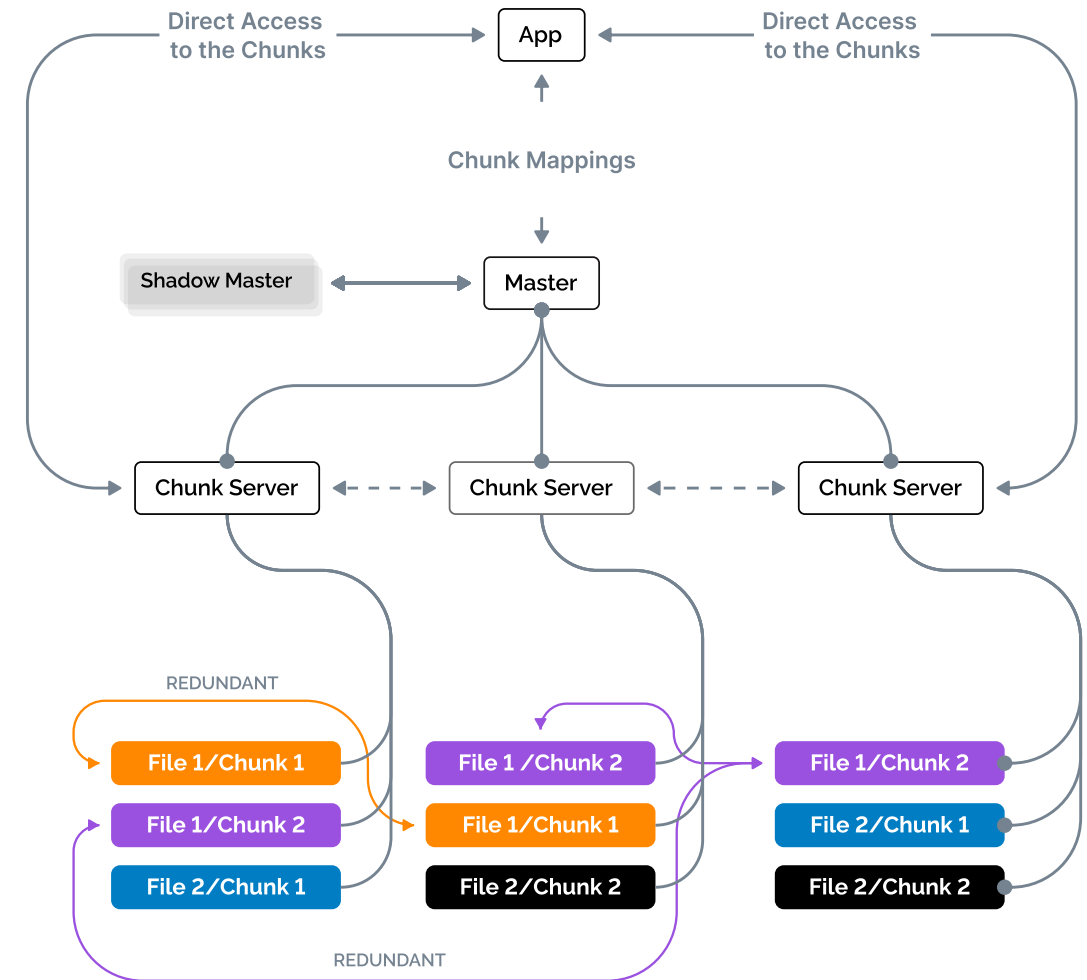
ICE “**Power disable**” feature to decrease storage power draw by 25% and more



Leil Storage is a commercial closed-source product that extends SaunaFS distributed file system with these unique and proprietary green features to enhance its performance, efficiency and energy consumption.

Open Source SaunaFS

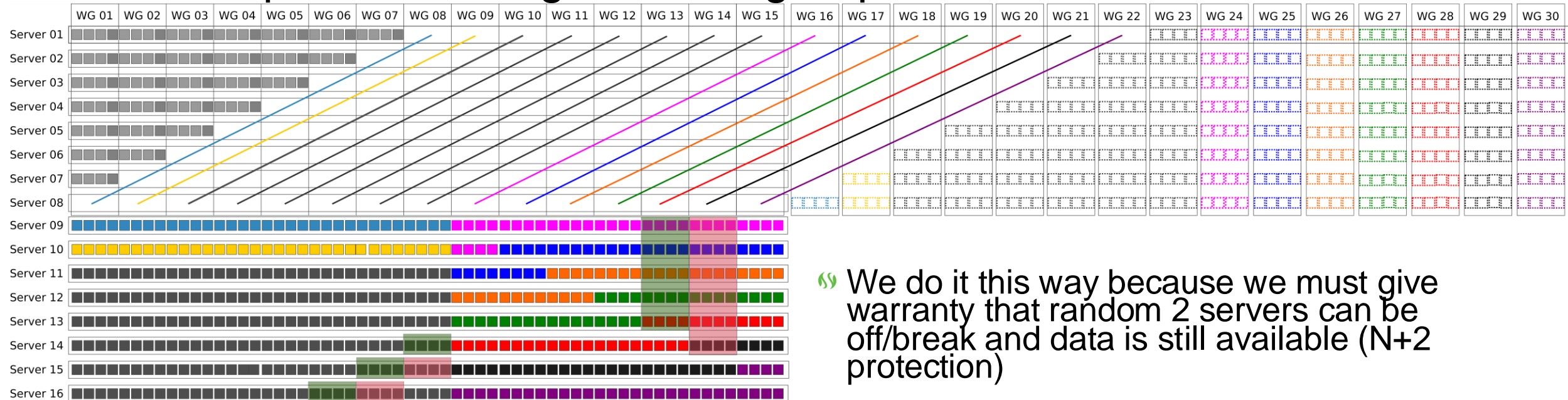
- “ SaunaFS is a DFS written mostly in C++ which implements concepts introduced by the Google File System.
- “ SaunaFS is divided into:
 - “ Metadata Servers (master, shadows and metaloggers).
 - “ Data Servers (chunkservers).
 - “ Clients (native Linux/Windows, NFS).
- “ In the Chunkserver side:
 - “ Files are divided into Chunks (up to 64 MiB).
 - “ Chunks are logically divided into Blocks of 64 KiB.
 - “ Which is the minimum block size.



See https://en.wikipedia.org/wiki/Google_File_System

ICE's Ability to gradually grow.

- “The picture shows the complete procedure for growing from 8 to 16 servers, when only one server was added at the time.
- “Each part of the original write groups land in a different server.



- “We do it this way because we must give warranty that random 2 servers can be off/break and data is still available (N+2 protection)