



AXYON.AI

AI & Deep Learning solutions for Finance

Agenda

- Company
- Products
- Axyon Platform
- SHAPE-PRACE project
- EOSC-HUB project

Company

Axyon AI leverages the most recent advancements in AI and deep learning to create business applications for trading and asset management

Main investors



Main partners

REFINITIV



nVIDIA



UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

Axyon AI technology



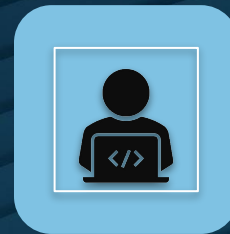
Proprietary deep learning technology for financial time series



More than 10 AI-powered strategies launched



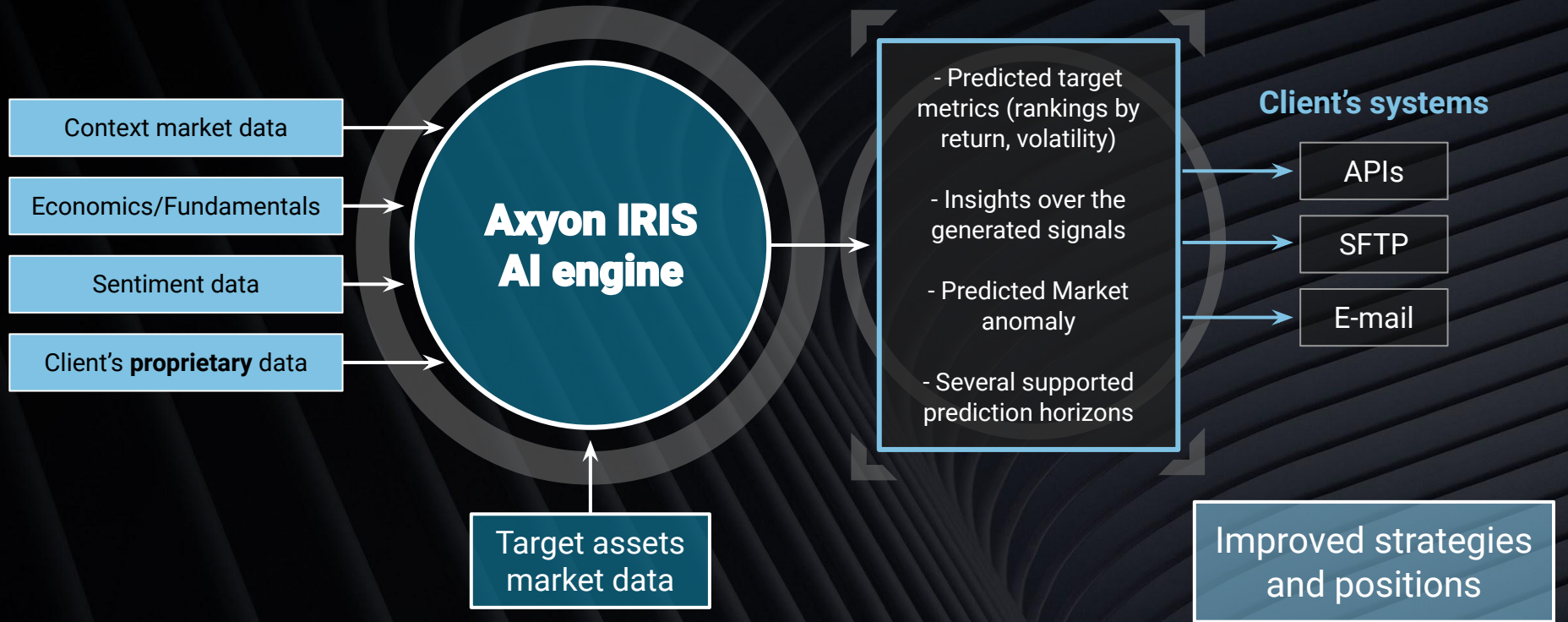
Continuous R&D activity to explore new frontiers (Reinforcement learning, Generative models)



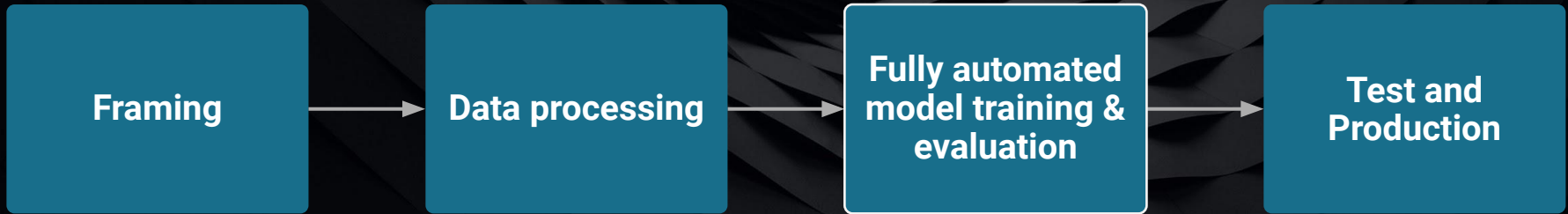
More than 100K hours spent in computing per year
(continuously growing)

Axyon IRIS

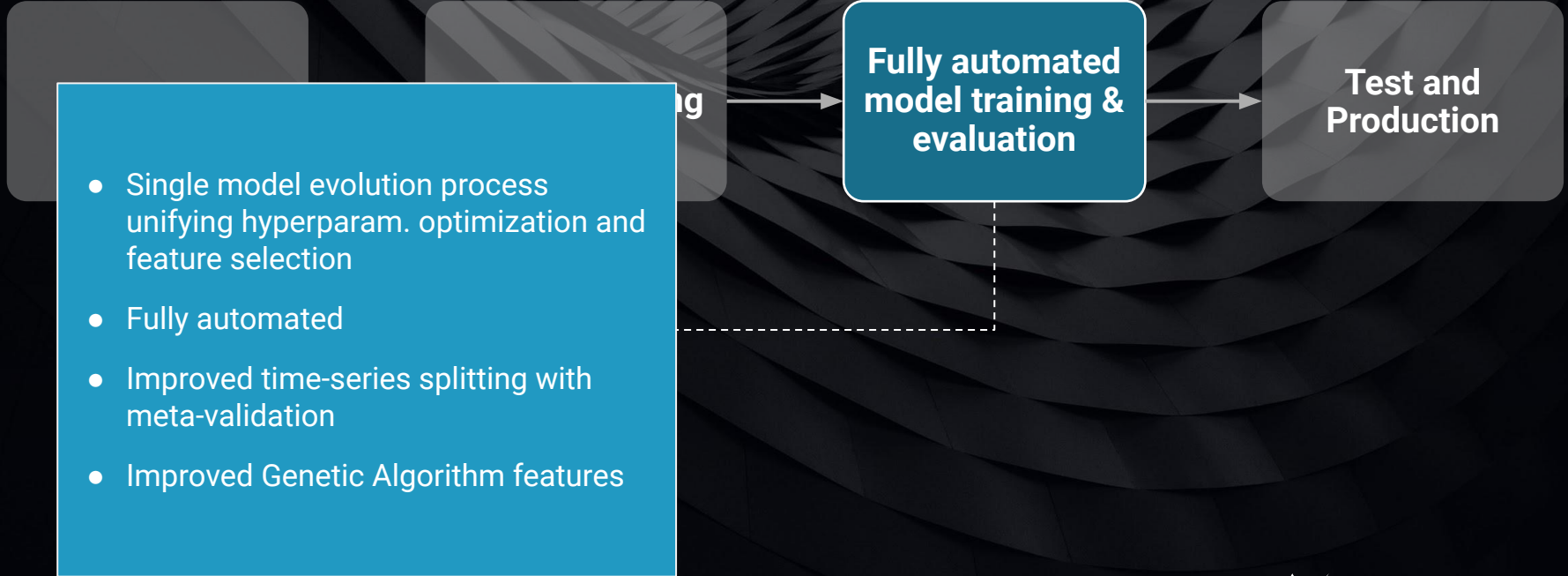
IRIS: Data and predictions flow



Why do we need computing power?

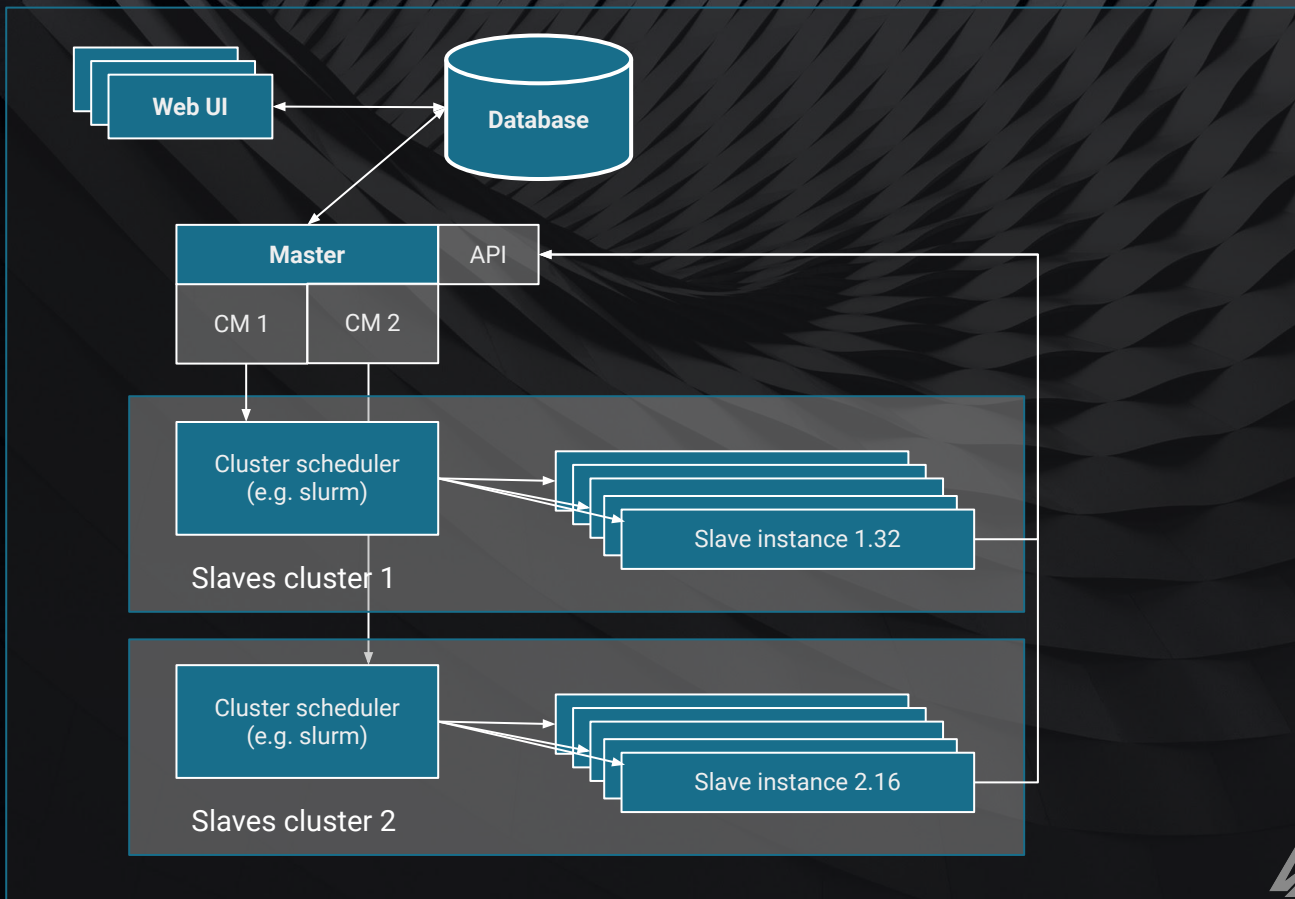


Why do we need computing power?



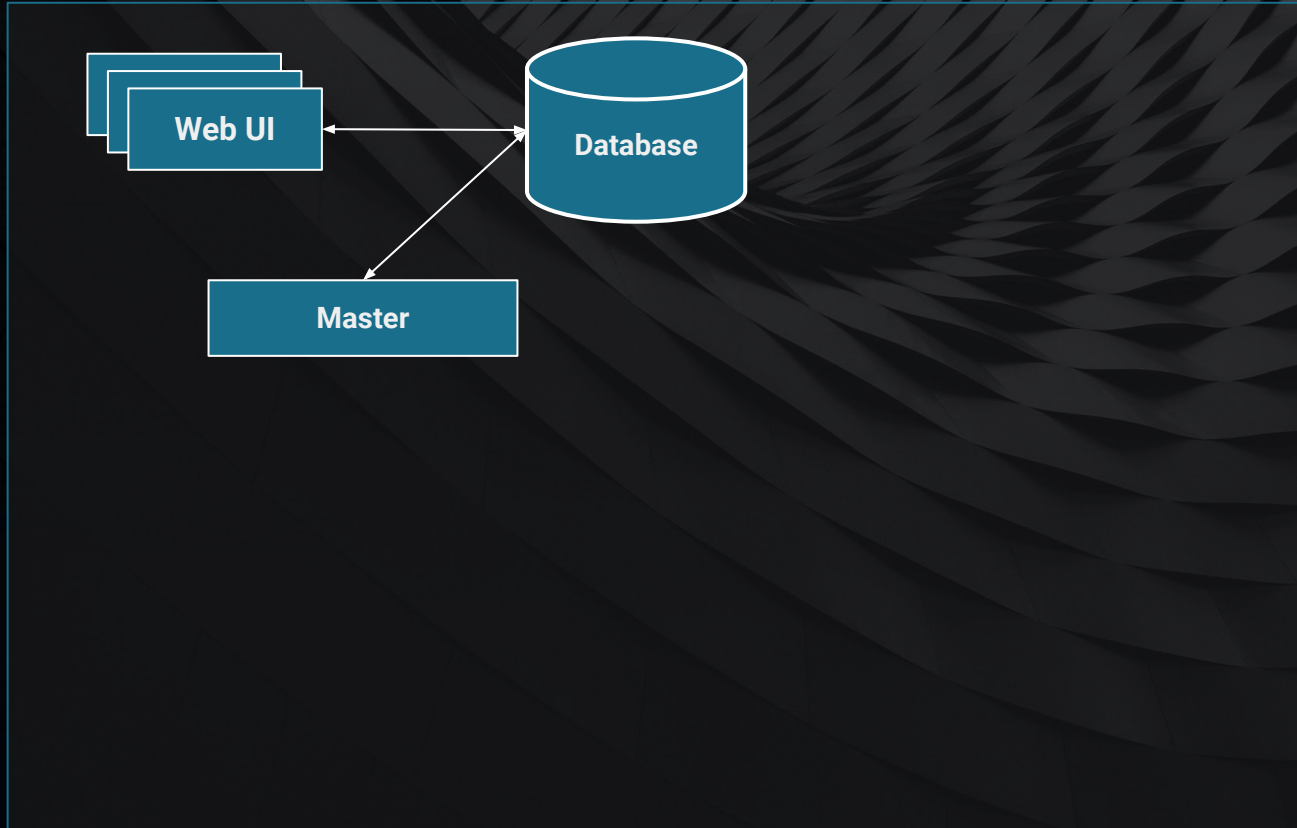
Axyon Platform

SHAPE-PRACE project



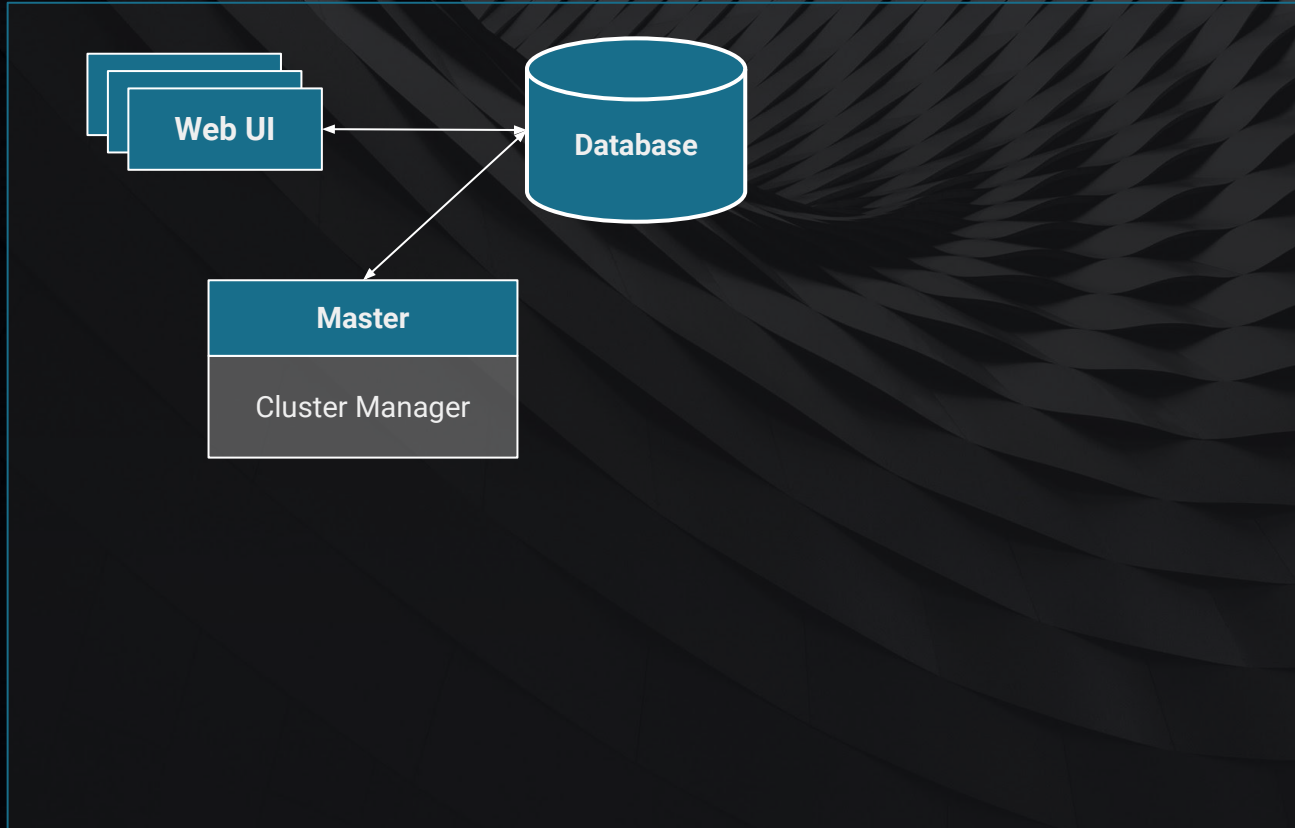
SHAPE-PRACE project

Axyon core platform 2.0

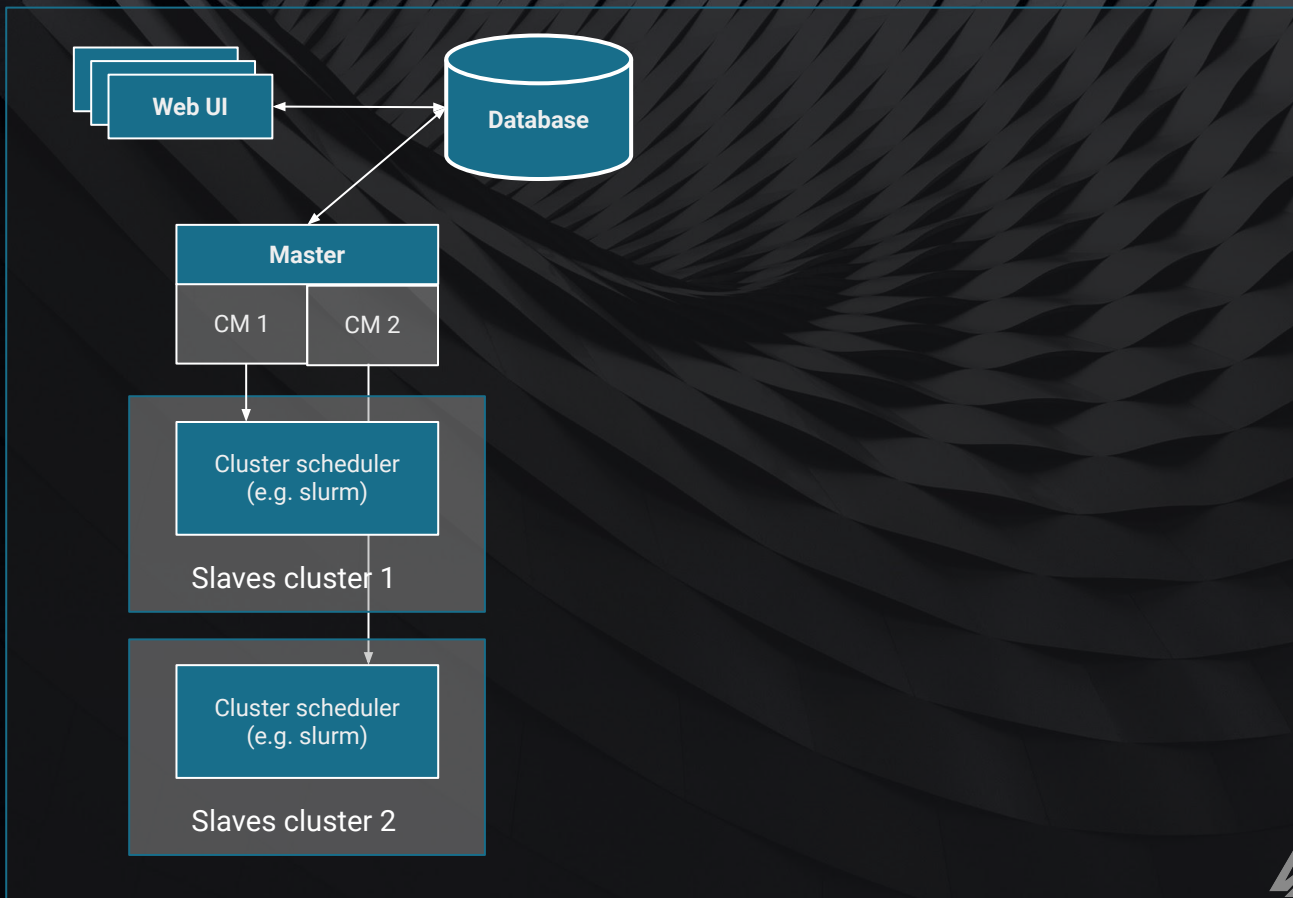


SHAPE-PRACE project

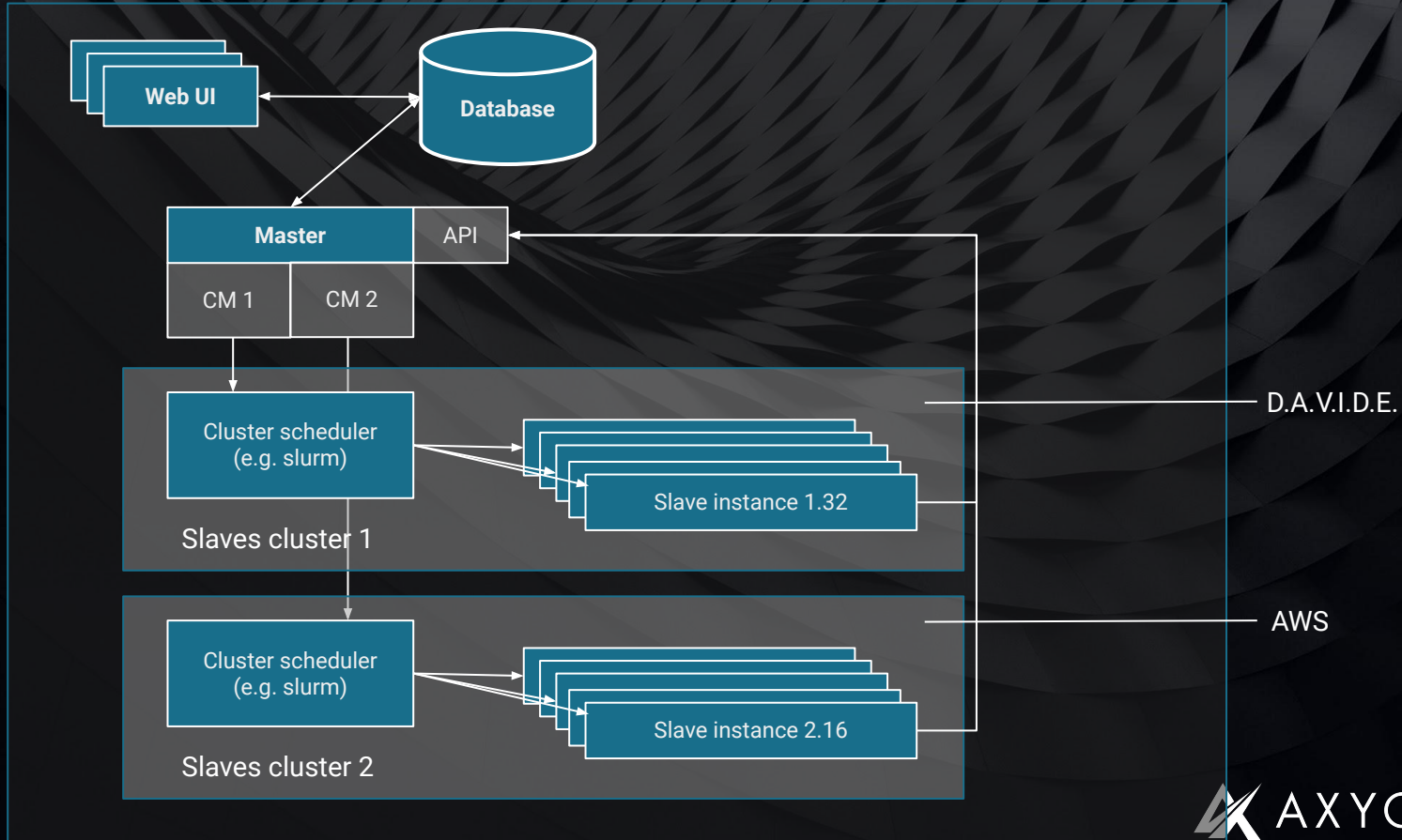
Axyon core platform 2.0



SHAPE-PRACE project

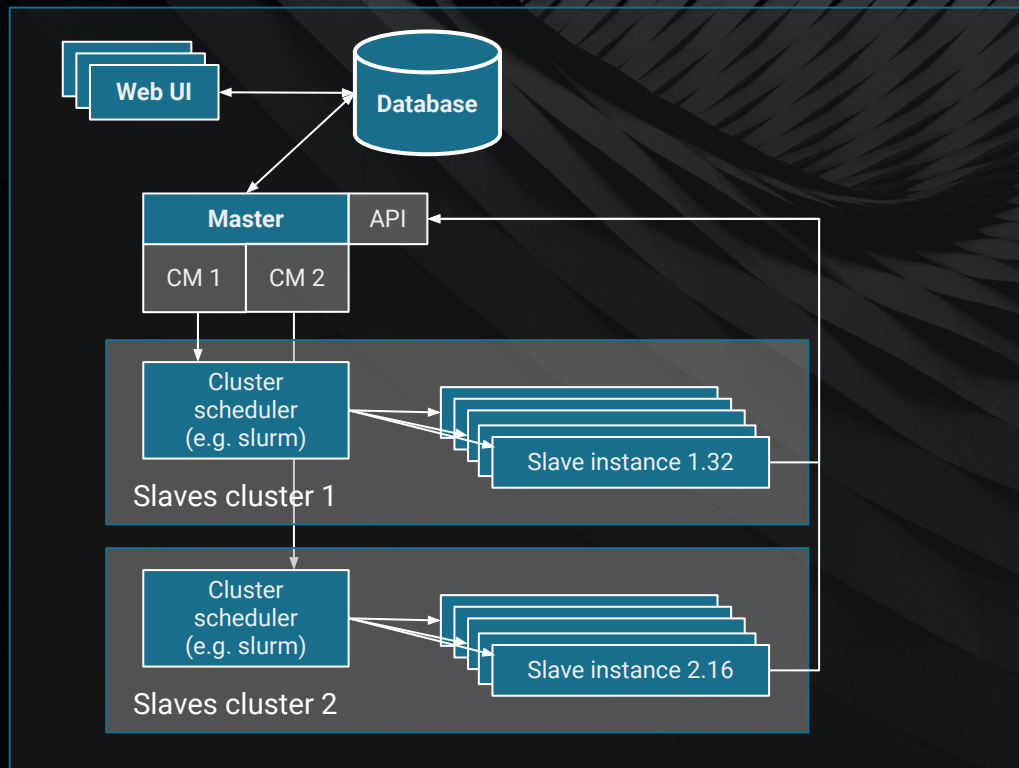


SHAPE-PRACE project



SHAPE-PRACE project

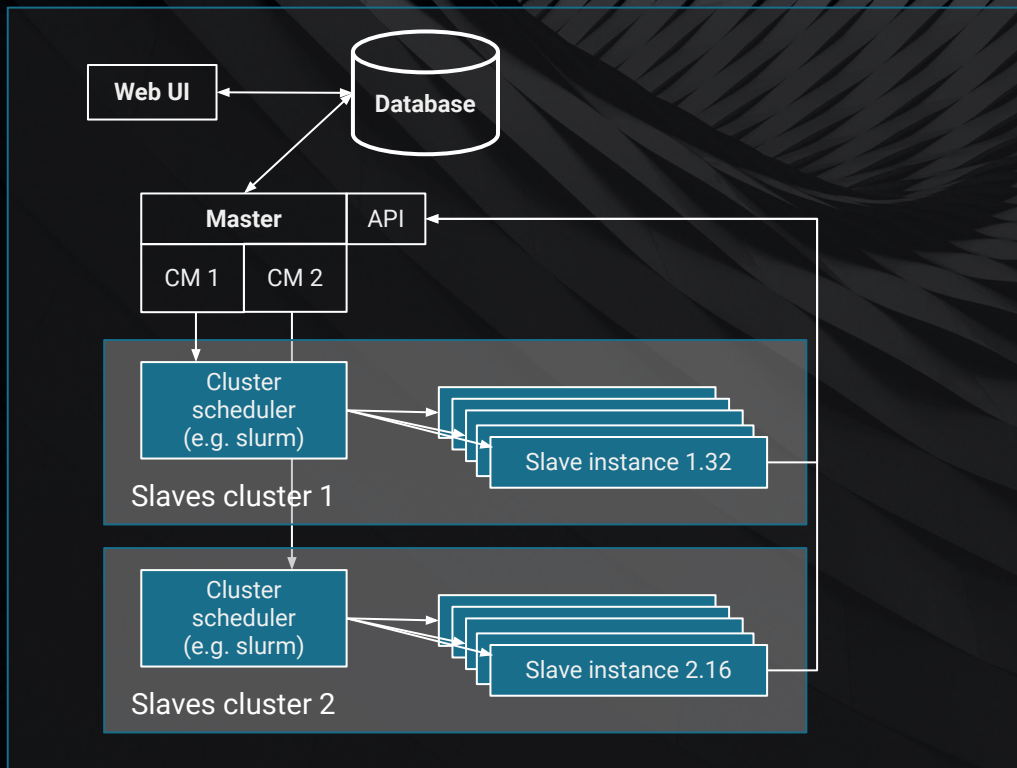
Axyon core platform 2.0



- Master-slave architecture
- Designed for improved scalability and flexibility for multiple jobs
- Supports both cloud-like and HPC-like slave clusters
- Central job dispatcher, managing one or multiple slave clusters
- Containerized slaves with simpler logic (job executor only)
- Currently in production environment @AxyonAI
- CINECA D.A.V.I.D.E.-approved ✓
- CINECA MARCONI100 is on the way!

EOSC - HUB project

Axyon core platform 2.x



Objectives

- Parallel distributed training
- Take advantage of
 - Multi-GPU on a single node
 - Multi-node computation for a single ML job
- Huge dataset support - ~TeraBytes

Contacts

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