

A TWO-SEMESTER PILOT PROPOSAL

Elysium × *FMU*

Public Compute Plane first.
Private Compute Plane second.

A structured, achievable pilot that lets students touch distributed computing before we introduce enterprise deployment.

AT A GLANCE

SEMESTER 1

Public Compute Plane

Register nodes. Submit jobs. Learn distributed computing on devices students already own.



SEMESTER 2

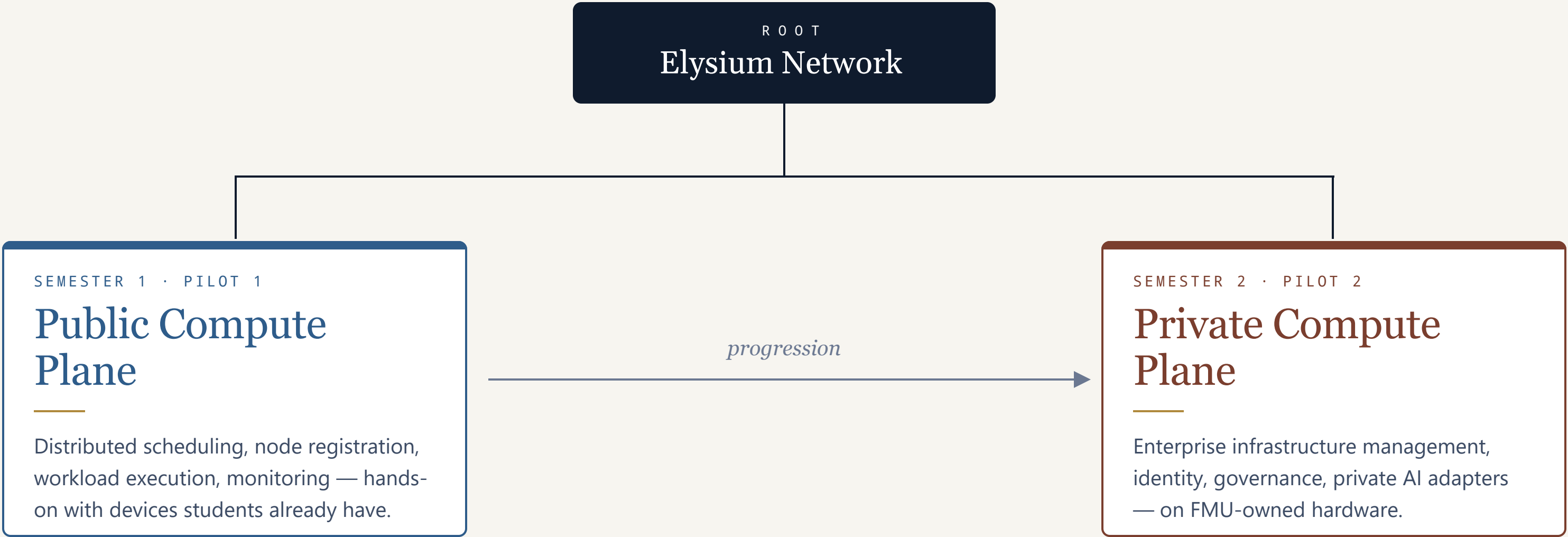
Private Compute Plane

Deploy the enterprise control plane on FMU infrastructure.

THE PILOT AT A GLANCE

Elysium Network — two planes, one platform.

The FMU pilot runs on the same architecture in two stages. Students meet the platform through the **Public Compute Plane** first — then graduate to the enterprise-oriented **Private Compute Plane**.



1

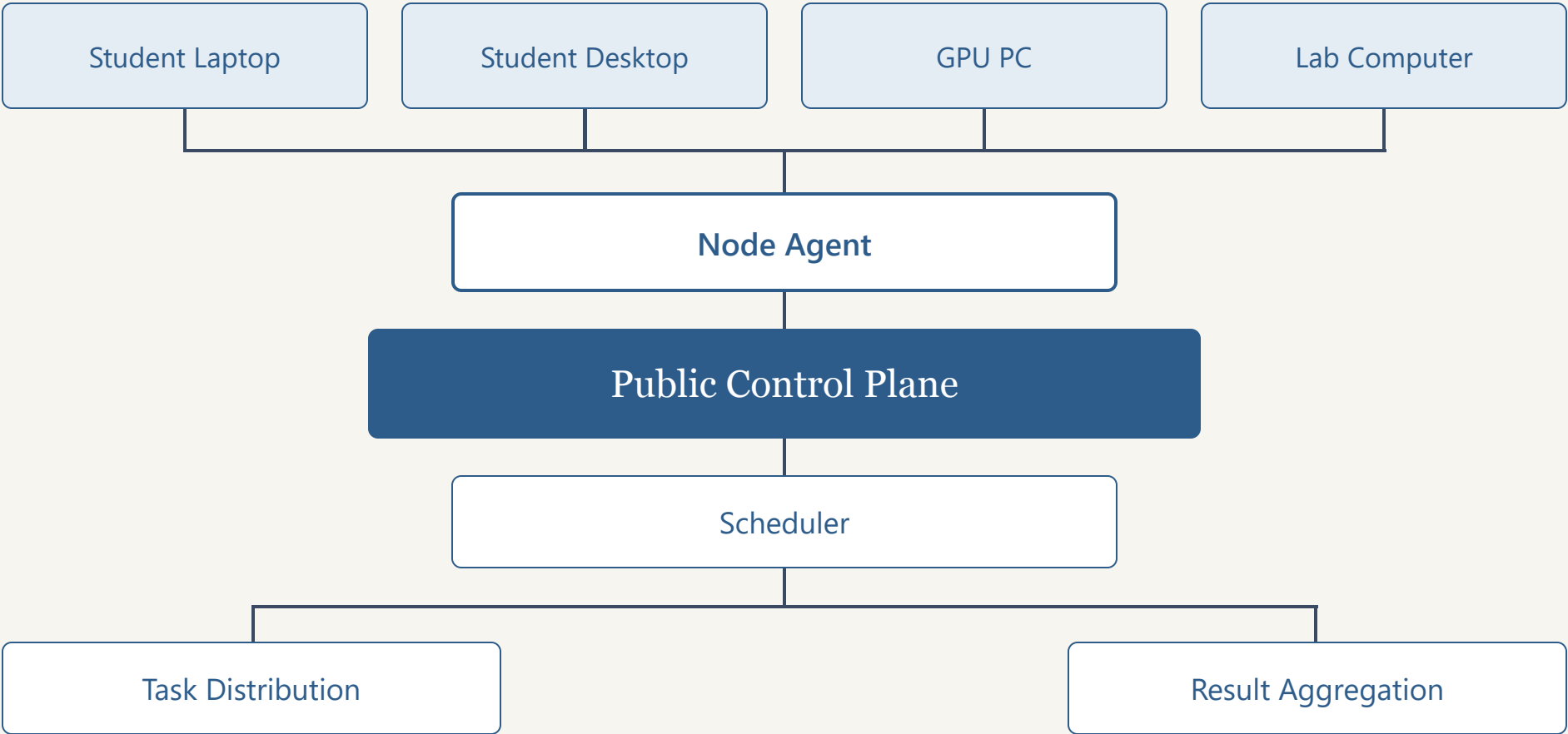
SEMESTER 1 · PUBLIC COMPUTE PLANE

Teach students how distributed cloud computing works.

STUDENTS LEARN

- 01
- Register a device as a compute node
- 02
- Install the Node Agent
- 03
- Join a runtime pool
- 04
- Submit compute jobs
- 05
- Monitor jobs in the Enterprise Console
- 06
- Earn compute credits & rewards
- 07
- View scheduling decisions
- 08
- Distributed computing concepts
- 09
- Measure performance
- 10
- Study trust scoring & node reputation

COMPONENTS



1

SEMESTER 1 · DELIVERABLES

What we ship by end of Pilot 1.

D1 · INFRASTRUCTURE

A working compute network

Registered nodes across student, lab, and GPU devices, coordinated by the Public Control Plane.

D2 · WORKLOADS

Execute WASM jobs

Sandboxed, portable workloads running end-to-end on student-owned hardware.

D3 · AI INFERENCE

Execute AI inference jobs

Run model-inference tasks on GPU-enabled nodes as a coordinated pool.

D4 · BENCHMARKS

Benchmark hardware

Characterize CPU, GPU, and edge-device performance across the FMU node fleet.

D5 · SCHEDULING

Validate scheduling algorithms

Confirm that scheduling decisions hold under realistic student workloads.

D6 · MEASUREMENT

Measure throughput & latency

Document end-to-end job performance to inform the Semester 2 rollout.

2

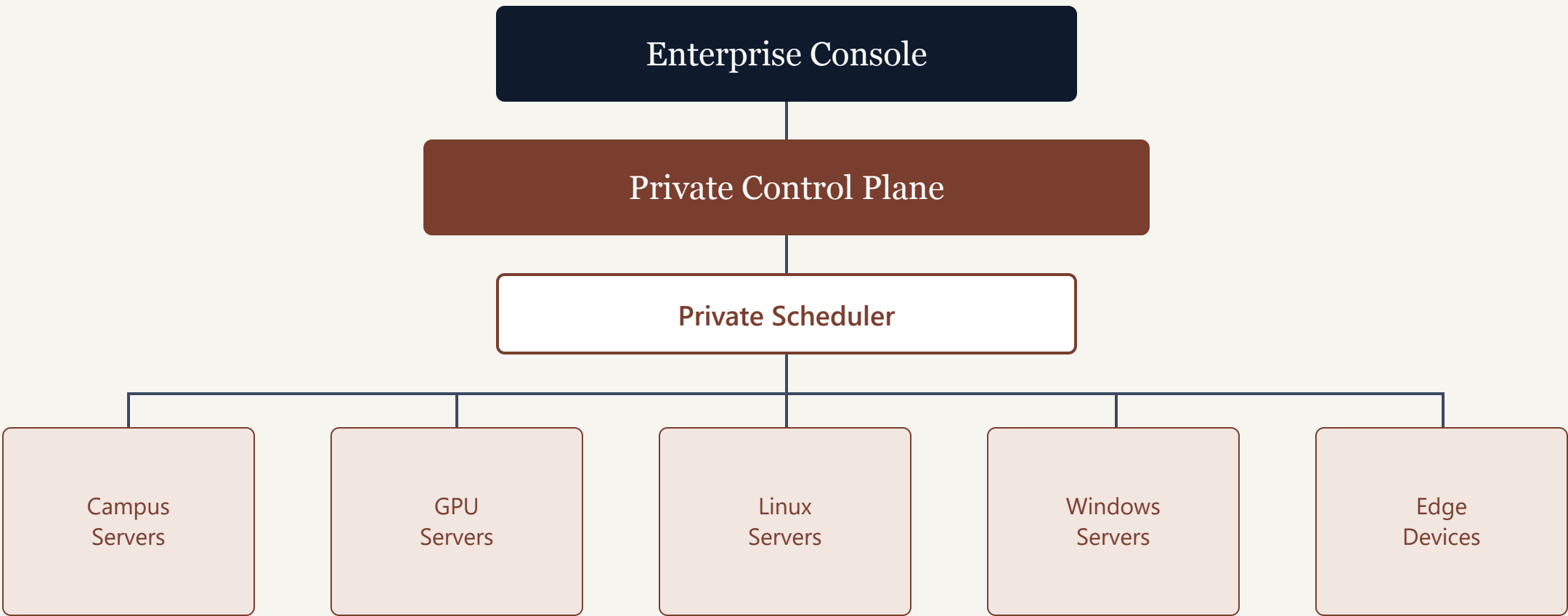
SEMESTER 2 · PRIVATE COMPUTE PLANE

Teach enterprise infrastructure management.

STUDENTS LEARN

- 01
- Deploy a Private Control Plane
- 02
- Install Enterprise Console
- 03
- Manage private compute clusters
- 04
- Configure authentication
- 05
- Configure API Gateway
- 06
- Connect OpenAI / Anthropic adapters
- 07
- Configure secrets management
- 08
- Configure runtime pools
- 09
- Create enterprise users & roles
- 10
- Monitor enterprise workloads

COMPONENTS



2

SEMESTER 2 · DELIVERABLES

What we ship by end of Pilot 2.

D1 · CAMPUS CLOUD

Deploy a campus compute cloud

A Private Control Plane running on FMU-owned infrastructure, serving university workloads.

D2 · SECURITY

Secure enterprise workloads

Authentication, secrets management, and API Gateway configured to campus policy.

D3 · PRIVATE AI

Configure private AI services

Model serving and runtime pools operating inside the FMU network boundary.

D4 · GOVERNANCE

Manage enterprise policies

Users, roles, quotas, and audit trails configured across schools and research groups.

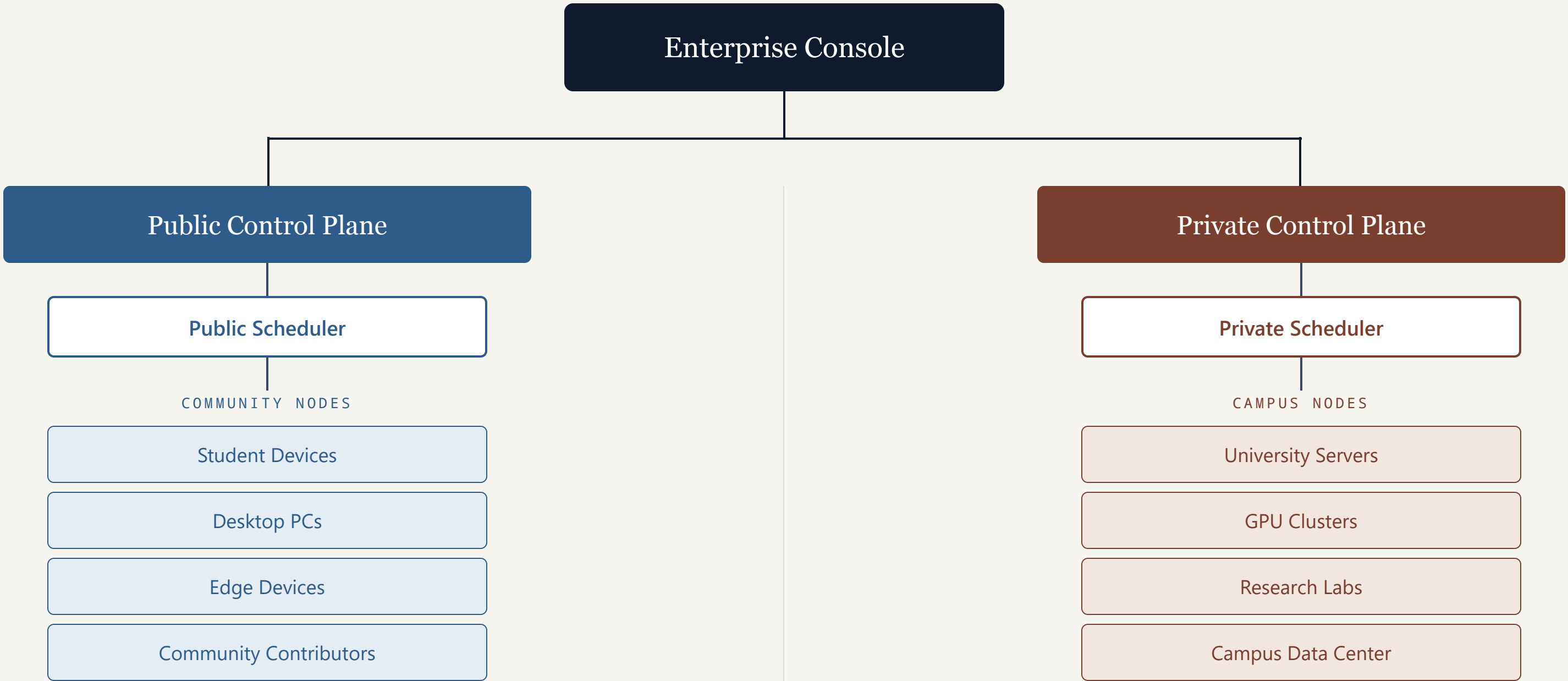
D5 · EXTERNAL AI

Connect external AI providers

OpenAI and Anthropic adapters wired through the API Gateway with campus-managed keys.

AFTER BOTH PILOTS

One console. Two planes. A complete campus platform.



WHY THIS ORDER MAKES SENSE

Concepts first — *then* infrastructure.

THE ARGUMENT

Starting with the **Public Compute Plane** gives students immediate, hands-on experience with the core technology — distributed scheduling, node registration, workload execution, monitoring — using devices they already have.

Once they're comfortable with those concepts, the **Private Compute Plane** naturally introduces enterprise topics — security, identity, governance, and private infrastructure management.

That sequence demonstrates *both sides of the platform* while keeping the initial pilot focused and achievable.

FMU MILESTONES

01

PILOT 1 · SEMESTER 1

Validate distributed compute across student & lab devices.

Prove that Elysium can coordinate real workloads on hardware students already carry, with visible scheduling and measurable performance.

02

PILOT 2 · SEMESTER 2

Validate secure enterprise compute inside FMU.

Prove that Elysium can operate as a secure enterprise compute platform within a university environment, on FMU-owned hardware.