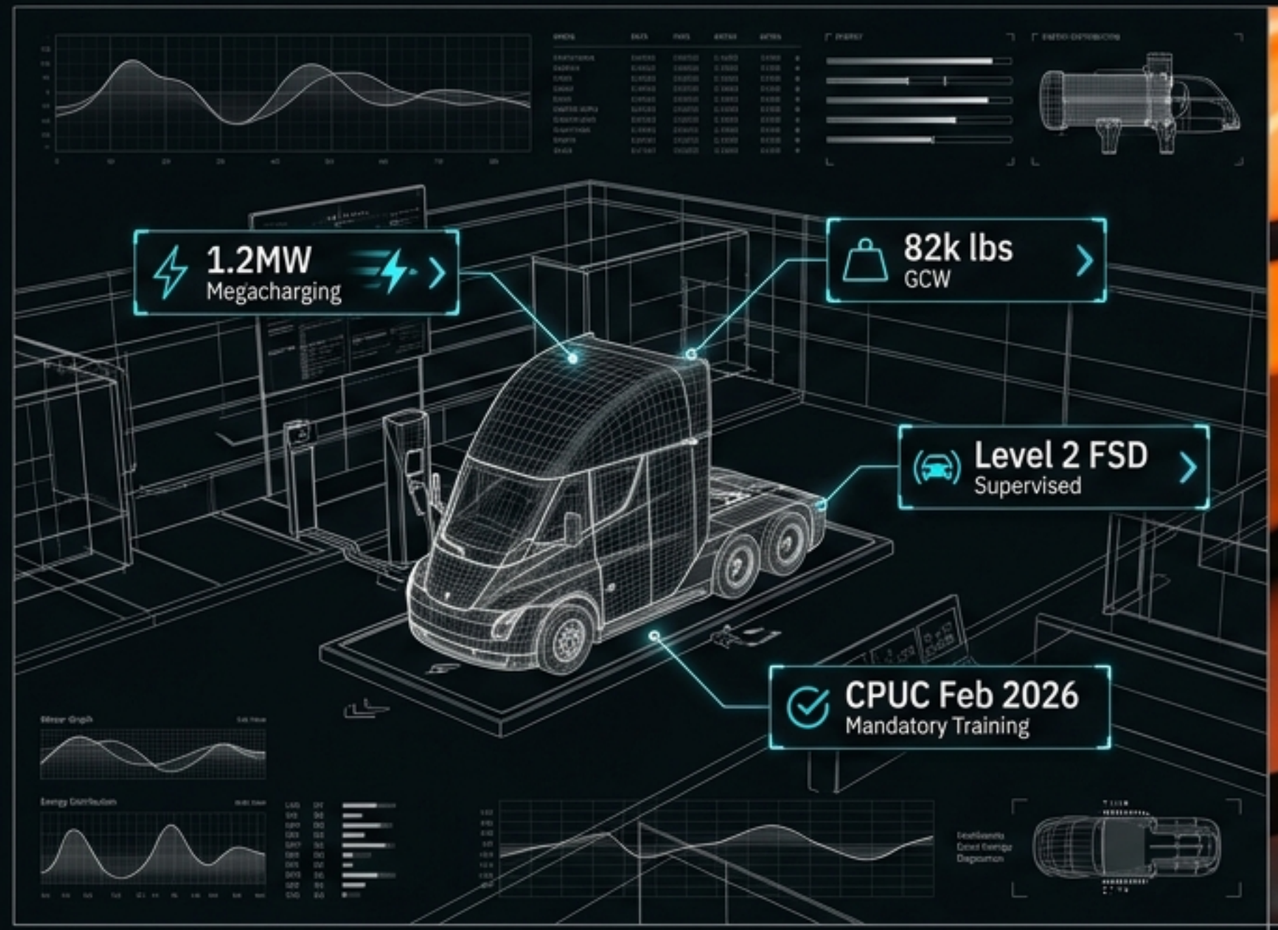


THE ANATOMY OF A SKILL

CALIBRATING THE NEXT-GENERATION COMMERCIAL OPERATOR THROUGH GAME 00: AIM LAB WHEEL

Gemini Notebook

Mastering 1.2MW and 400ms latency begins with the hands on the wheel.

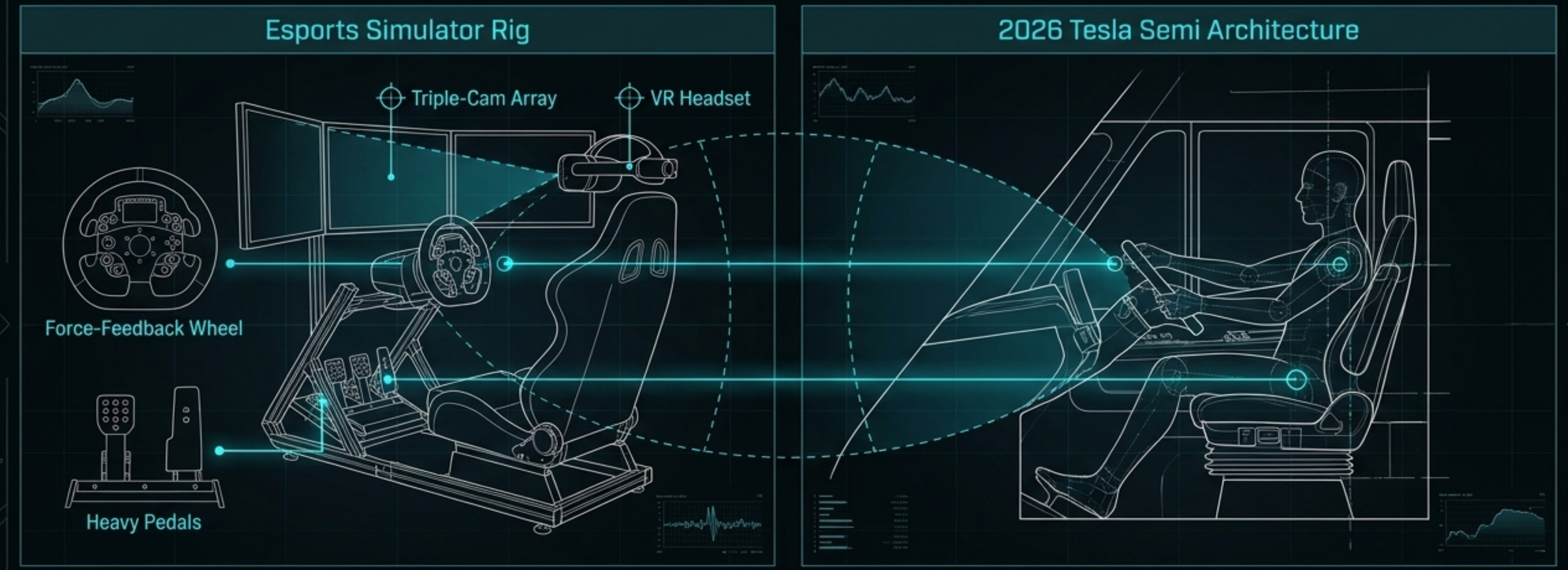




Before an operator can manage complex, multi-camera remote redundancies or compensate for 400ms packet-loss during an e-stop, they must master the fundamental physics of the vehicle. That physical and cognitive foundation begins with one isolated mechanic: Game 00 Aim Lab Wheel.

Gemini Notebook

1:1 Hardware Translation: Engineering Central-Seat Muscle Memory



This is not a gaming desk. The physical machine setup is spatially and ergonomically mapped to the Tesla Semi's unique central seat architecture. By mirroring the physical environment, Game 00 builds exact, transferrable muscle memory for the H1 2026 Nevada fleet from Day 1.

Gemini Notebook

The Compliance Gate: Digitizing FMCSA ELDT Topic 4

FMCSA ELDT Topics 1-30 Pathway

1. Orientation
2. Control Systems/Dashboard
3. Pre/Post-Trip Inspections
4. **Topic 4: Basic Control**
5. Shifting/Operating Transmissions
6. Backing and Docking
7. Coupling and Uncoupling
8. Visual Search
9. Communication
10. Distracted Driving
11. Speed Management
12. Space Management
13. Night Operation
14. Extreme Driving Conditions
15. Hazard Perception
16. Skid Control/Recovery/Jackknifing
18. ID and Diagnosis of Malfunctions
19. Roadside Inspections
20. Maintenance

FMCSA
TPR Standards

Regulatory Alignment

Directly satisfies 49 CFR Part 380, Subparts F and G requirements for Entry-Level Driver Training.



Objective Auditing

Replaces subjective instructor observation with auditable telemetry data, strictly ensuring the 80% minimum theory pass requirement.



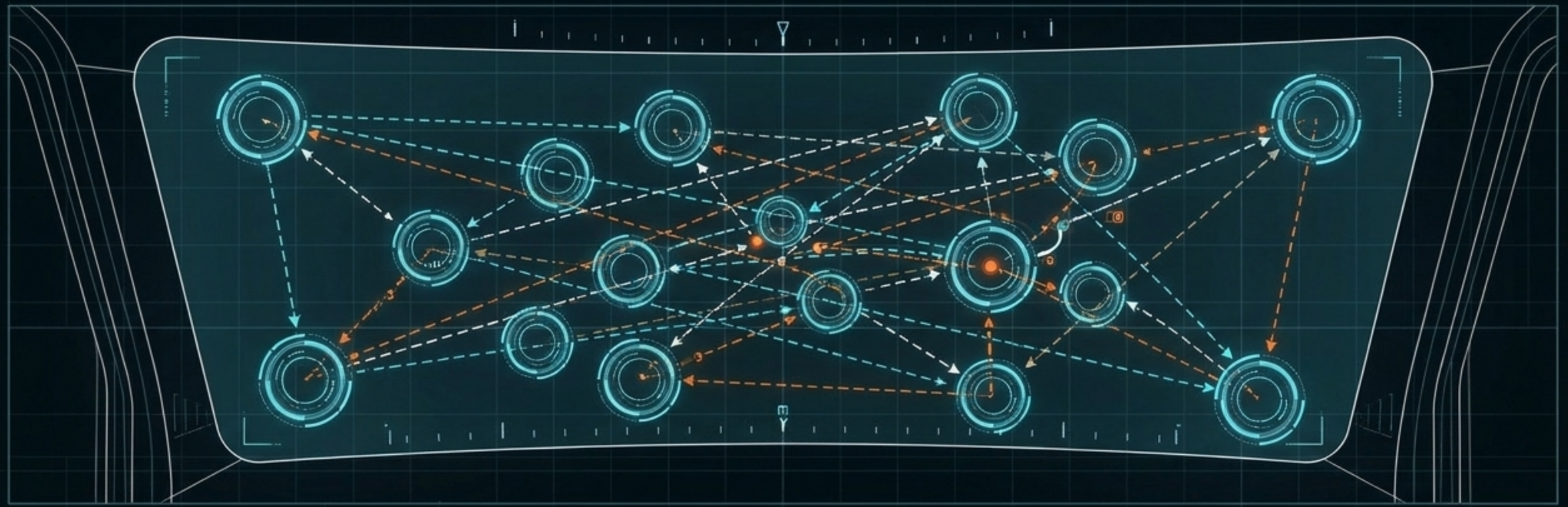
Actionable Data

Automatically logs and reports Topic 4 Basic Control proficiency to the federal TPR system, clearing the primary compliance gate for commercial operation.



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The Engine of Repetition: 20-Target Spatial Tracking



Traditional Method

Low-density repetitions over long periods in physical parking lots.



Algorithmic Compression

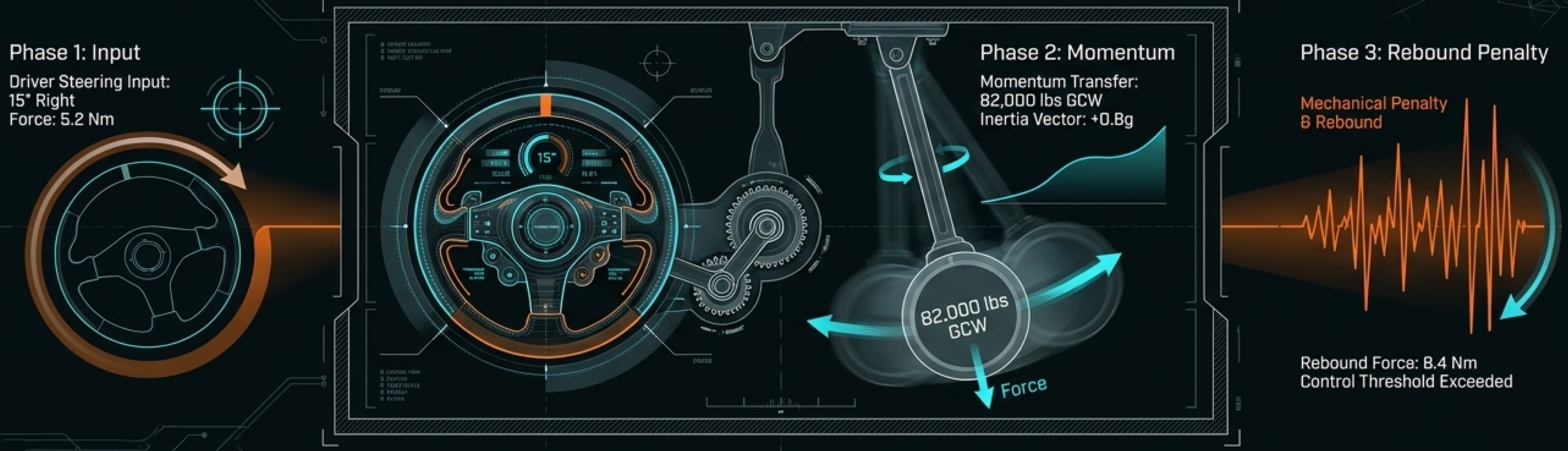


High-velocity compression. By forcing the operator to acquire and accurately steer toward 20 randomized spatial targets per session, we compress weeks of traditional physical reps into concentrated, micro-targeted cognitive loops.

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Cognitive Load & Simulated Mass: The Inertial Spring

The Inertial Spring



Commercial vehicles are governed by mass and momentum. Game 00 introduces forced inertia algorithms. Operators cannot simply flick the wheel to a target; they must anticipate 82k GCW momentum, feather their input force, and control the steering rebound. This prevents catastrophic over-correction habits.

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Real-Time Telemetry: Decoding the Dashboard HUD

Smoothness (0-100)



Accuracy (0-100)



Smoothness (Angular Velocity):

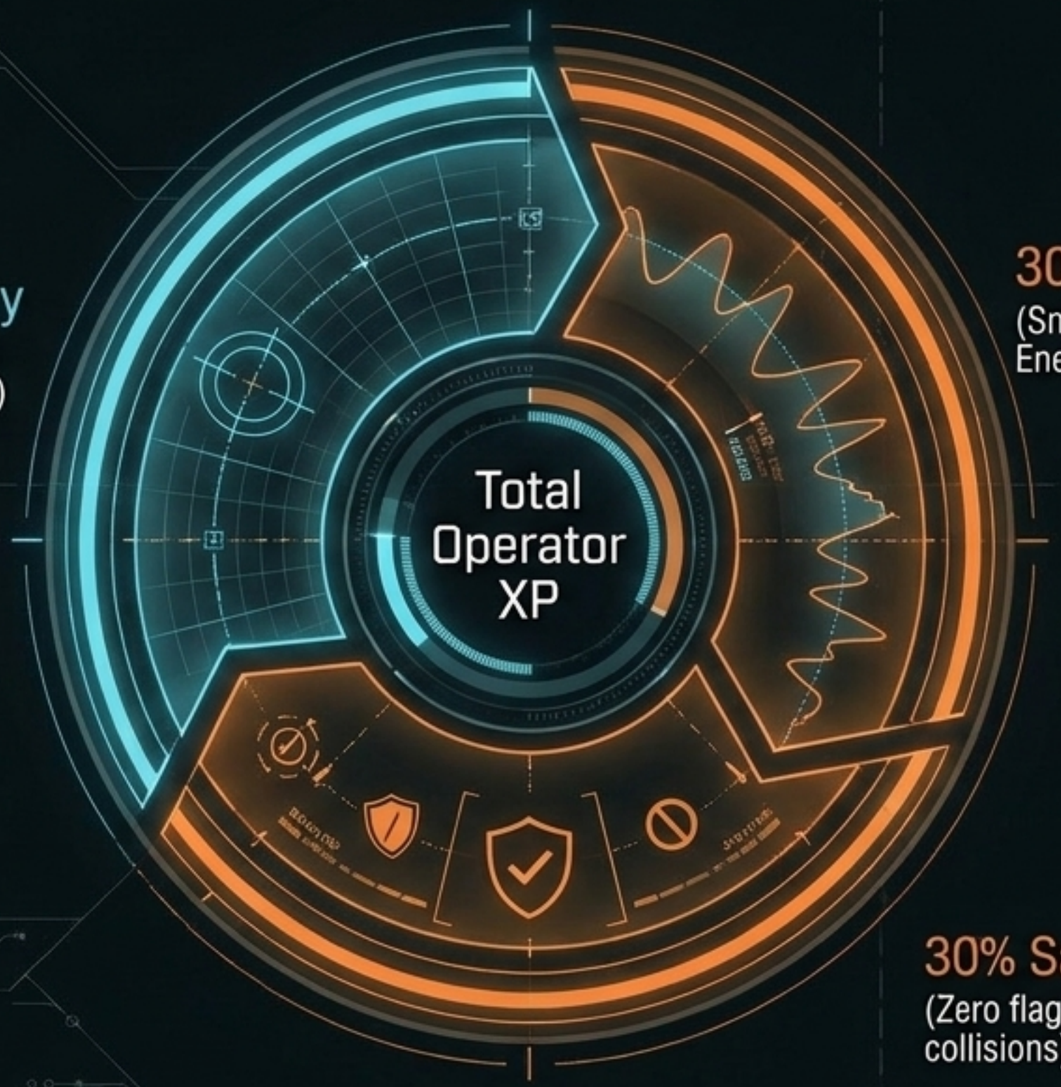
Measures the violence of the steering input. Essential for EV operations, erratic corrections disrupt the 82k GCW load balance and cause micro-spikes in the 3-motor 1070hp system, degrading battery efficiency.

Accuracy (Target Lock):

Ensures the operator can put the 18-wheeler exactly where intended within tight spatial constraints.

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The Algorithmic Standard: The 40/30/30 Formula



40% Accuracy
(Target completion & spatial geometry)

30% Efficiency
(Smoothness / Energy conservation)

30% Safety
(Zero flags / Zero collisions)

To operate the Tesla Semi viably, fleets must hit a strict 1.7 kWh/mi efficiency target.

Therefore, driving isn't just about finishing a route—it is about the energy cost of every physical input.

The 40/30/30 formula mathematically hardwires energy efficiency and strict safety into the operator's cognitive baseline from their very first hour in the simulator.

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Diagnostic Matrix: Simulation Telemetry vs. The Lot

Dimension	Traditional ELDT Lot Training	Aim Lab Wheel Training
Repetition Volume	Slow, limited by vehicle resets	High-velocity, continuous algorithmic loops
Measurability	Subjective instructor observation	Objective, millisecond-level telemetry
Safety Risk	High (live 82k lb vehicle movement)	Absolute Zero (digital sandbox)
Hardware Familiarity	Legacy diesel offset seating	1:1 Tesla Central Seat HW4 architecture
Cost of Failure	Equipment damage, fuel burn, injury	Immediate reset, data logged for VOD review

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Skill Evolution: From Basic Control to Remote E-Stops











1 **Day 1 (Rookie): Game 00 Aim Lab Wheel**

Bedrock steering precision.

2 **Day 31 (Operator): Game 02 Backing Tetris**

Applying precision to 90-degree <10cm alley docks.

3 **Day 61 (Pro): Game 08 Skid Recovery**

Managing jackknifes and regen braking dynamics.

4 **Day 91 (Masters): Game 10 Signal Survival Remote**

Applying exact basic control while managing 100-400ms latency and executing sub-0.8s emergency stops.

Basic control is the bedrock. The precise muscle memory and rebound control built in Aim Lab Wheel is the exact physical prerequisite required to safely execute high-latency e-stops in the remote operation center by Season 4.

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The Ultimate Output: Producing Platinum-Tier Operators



Bronze



Silver



Gold



Platinum

- ☑ 10,000 Total XP
- ☑ ELDT TPR Logged (10hr range / 10hr road)
- ☑ Zero Safety Flags in Finals
- ☑ 1.7 kWh/mi Efficiency Sustained

The user who masters Game 00 and scales the 120-day pipeline achieves more than a standard commercial license. Platinum status certifies them as a mathematically proven, CPUC-compliant, job-ready remote Tesla operator—capable of managing Level 2 supervised autonomy with absolute precision.

Gemini Notebook

The Telemetry Blueprint for the Future of Fleet Operations



By gamifying FMCSA Topic 4 and demanding esports-level precision through the 40/30/30 telemetry formula, we are engineering the safest, most energy-efficient, and mathematically auditable heavy-vehicle operators on the planet.

Gemini Notebook