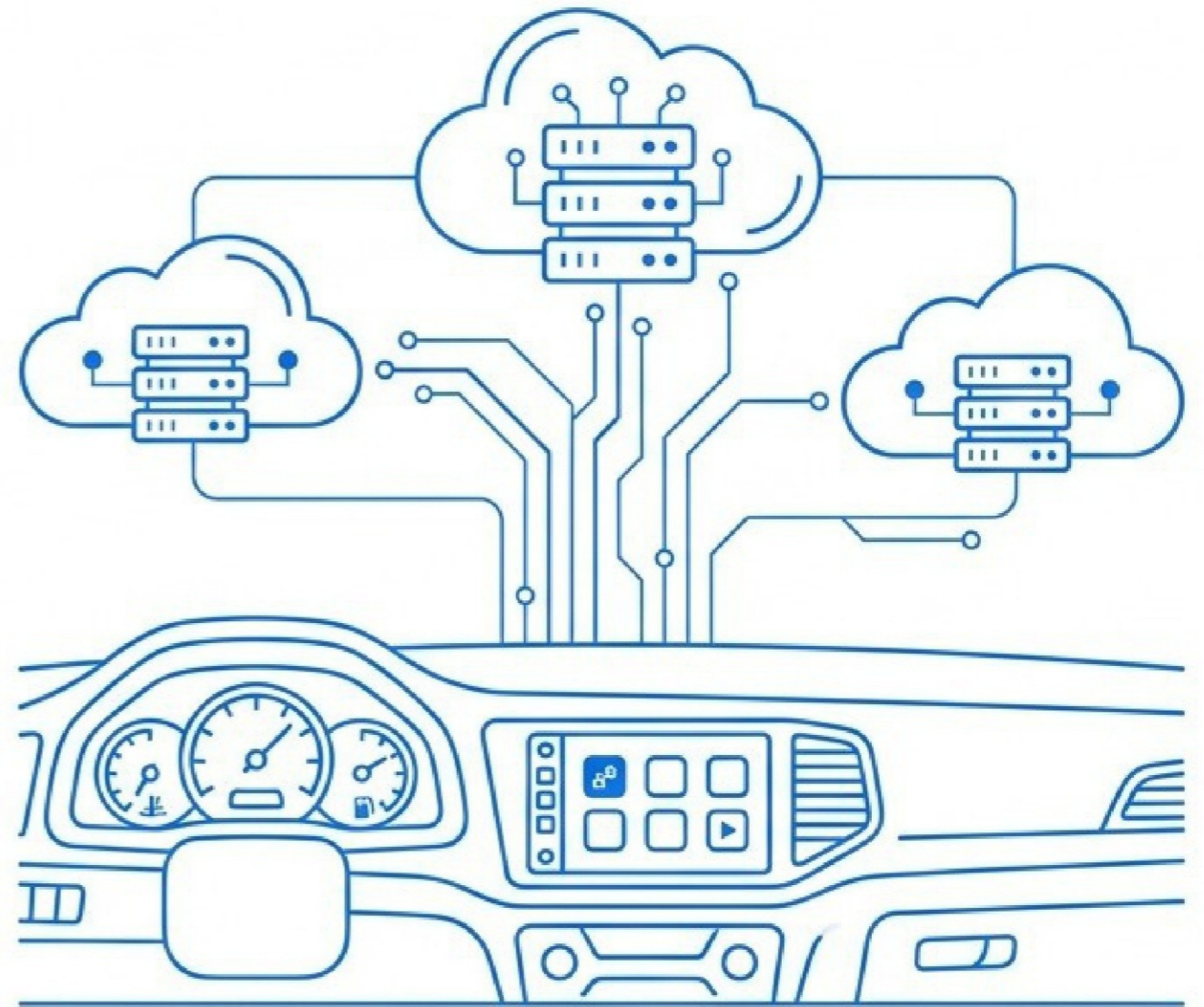
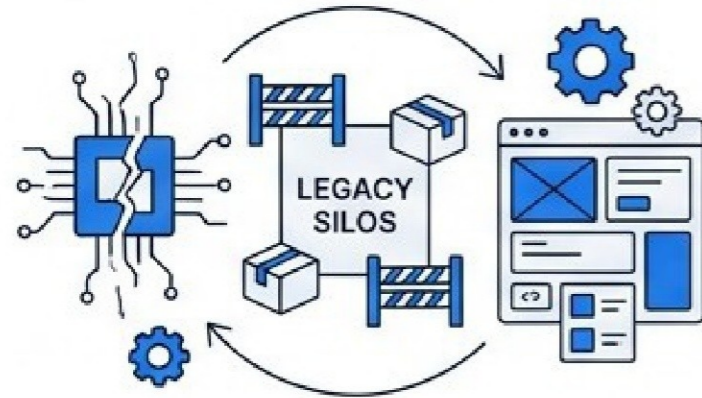


Corporate Android Automotive OS Training Course

Drive Team Excellence With
Android Automotive OS

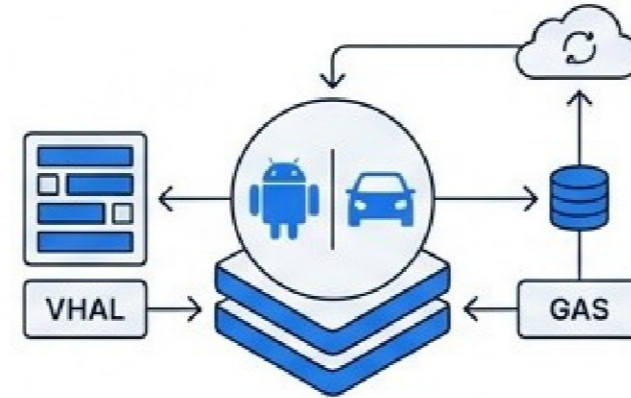


The Capability Activation Shift



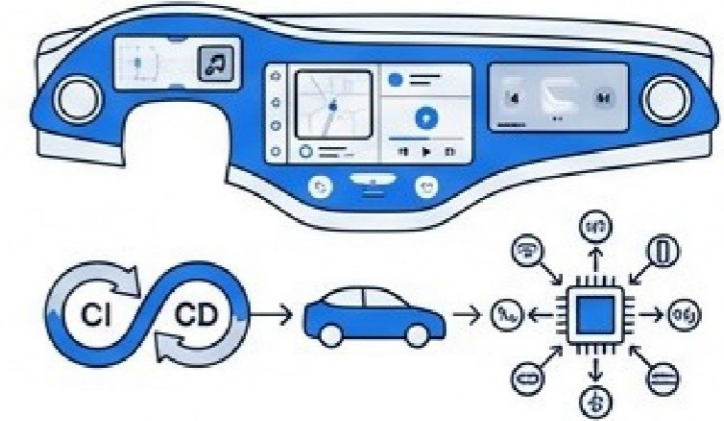
Fragmented Vehicle Systems

Disconnected hardware abstraction, legacy code silos, and inconsistent brand user experiences.



Android Automotive OS Integration

Direct ecosystem integration via Google Automotive Services and standardized Vehicle Hardware Abstraction Layer (VHAL).



Unified Enterprise Infotainment

Streamlined CI/CD deployment, seamless sensor communication, and brand-aligned, sophisticated automotive solutions.

Program Parameters And Scale



**32 - 40
Hours**

Program Duration



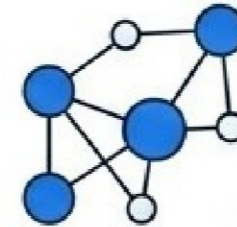
**Instructor-
Led**

Group Training
Format



**Virtual,
On-Site, Or
Off-Site**

Delivery Modalities



**10,000+
Trainers**

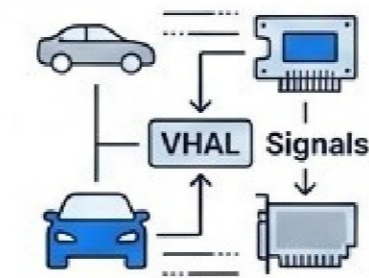
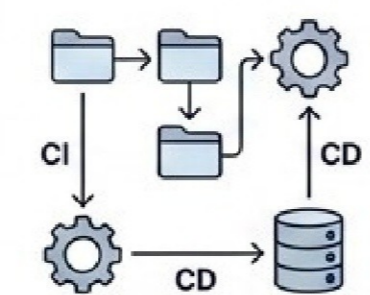
Global Expert
Network



**Course
Completion
Certificate**

Capability Validation

The Capability Acceleration Path



Foundational Knowledge

Java Or Kotlin Basics
And Android SDK

System Architecture And Build

AOSP Customization
And CI/CD Pipelines

Hardware Abstraction

VHAL Implementation
And Vehicle Signals

Advanced App Deployment

Custom UIs, End-To-End Testing, And Optimization

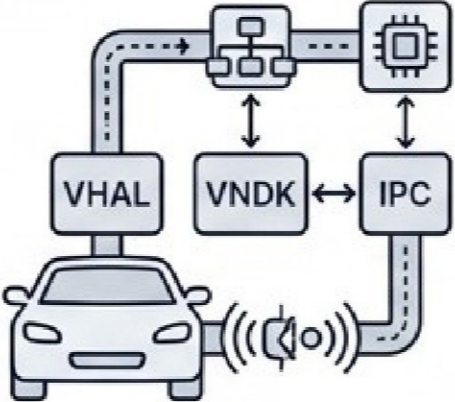
Structured Technical Phasing



Foundation And Build Systems

Modules: First Steps, Build System Setup

Mastering the architecture, CI/CD automation, and Linux kernel customization.



Framework And Hardware Integration

Modules: The VHAL, OS Framework

Utilizing HIDL, VNDK, and IPC mechanisms for seamless vehicle sensor communication.

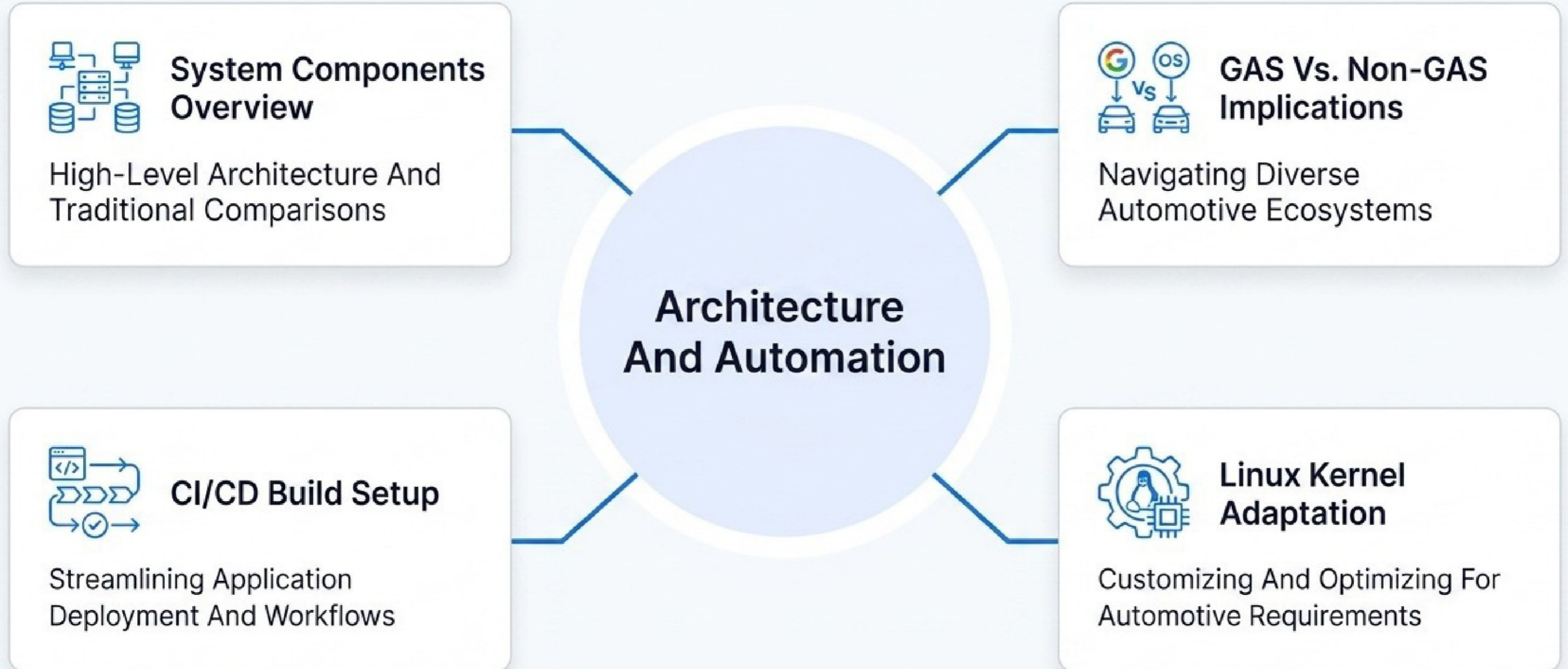


Applications And Optimization

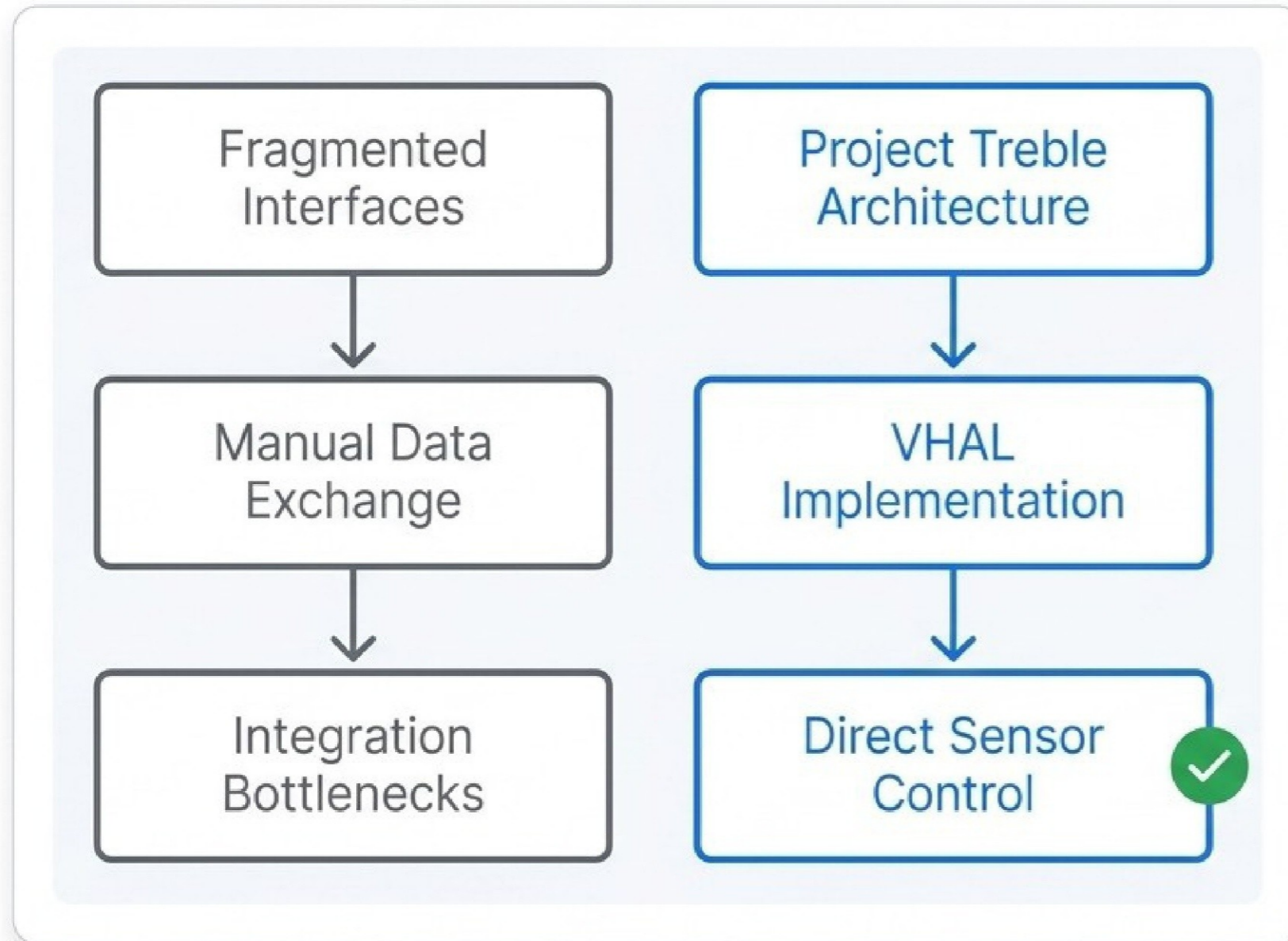
Modules: Application Development, Testing, Best Practices

Creating custom UIs, running test suites, and enforcing security architectures.

Phase One: Foundation And Build



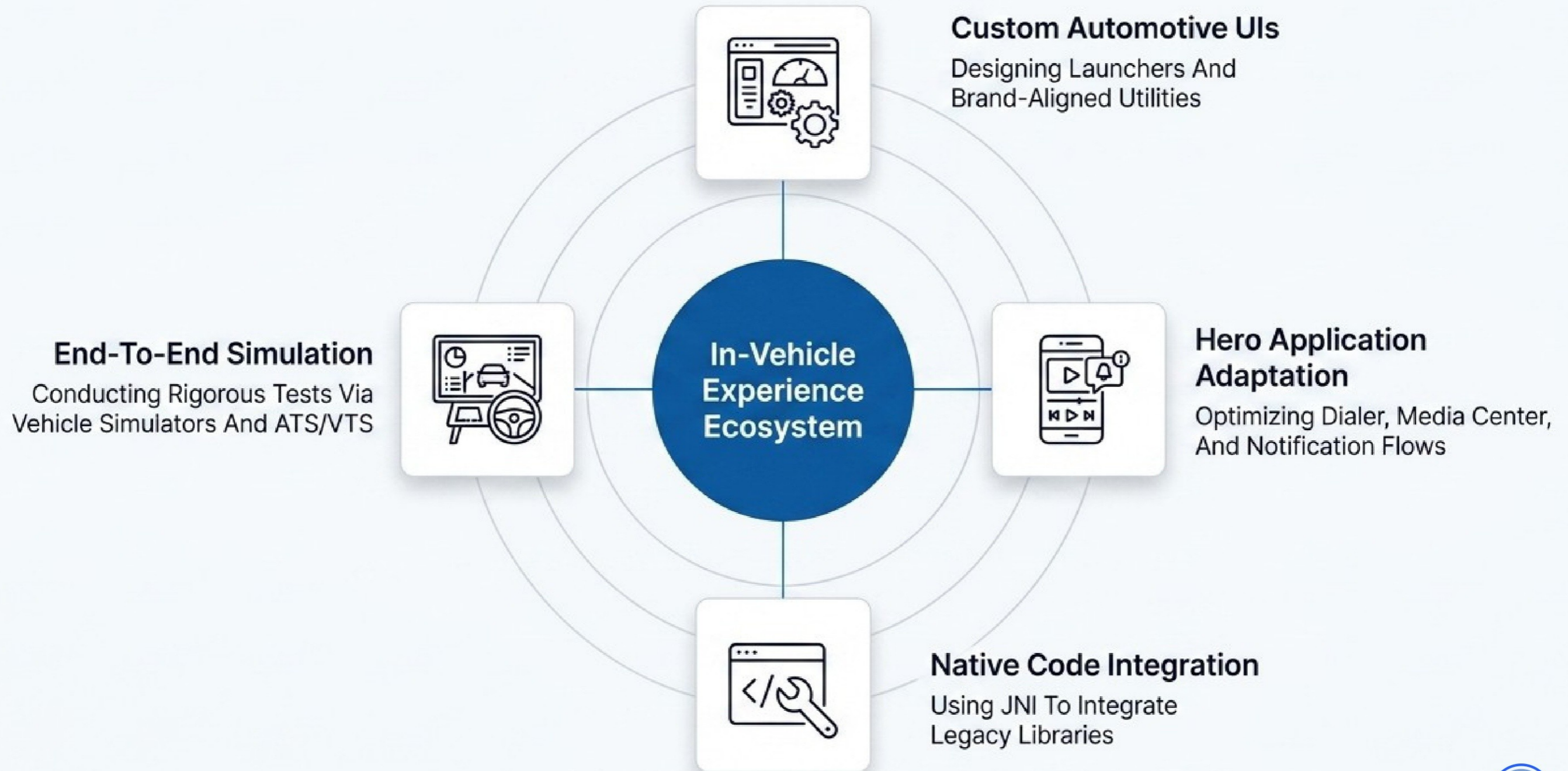
Phase Two: Hardware Integration Workflows



Key Mechanisms

1. Hardware Interface Definition Language (Defining Robust Boundaries)
2. Vendor Native Development Kit (Run-Time Linking Capabilities)
3. Binder And AIDL Interfaces (Inter-Process Communication)
4. Vehicle Properties And Signals (Interpreting And Managing Vehicle Data)

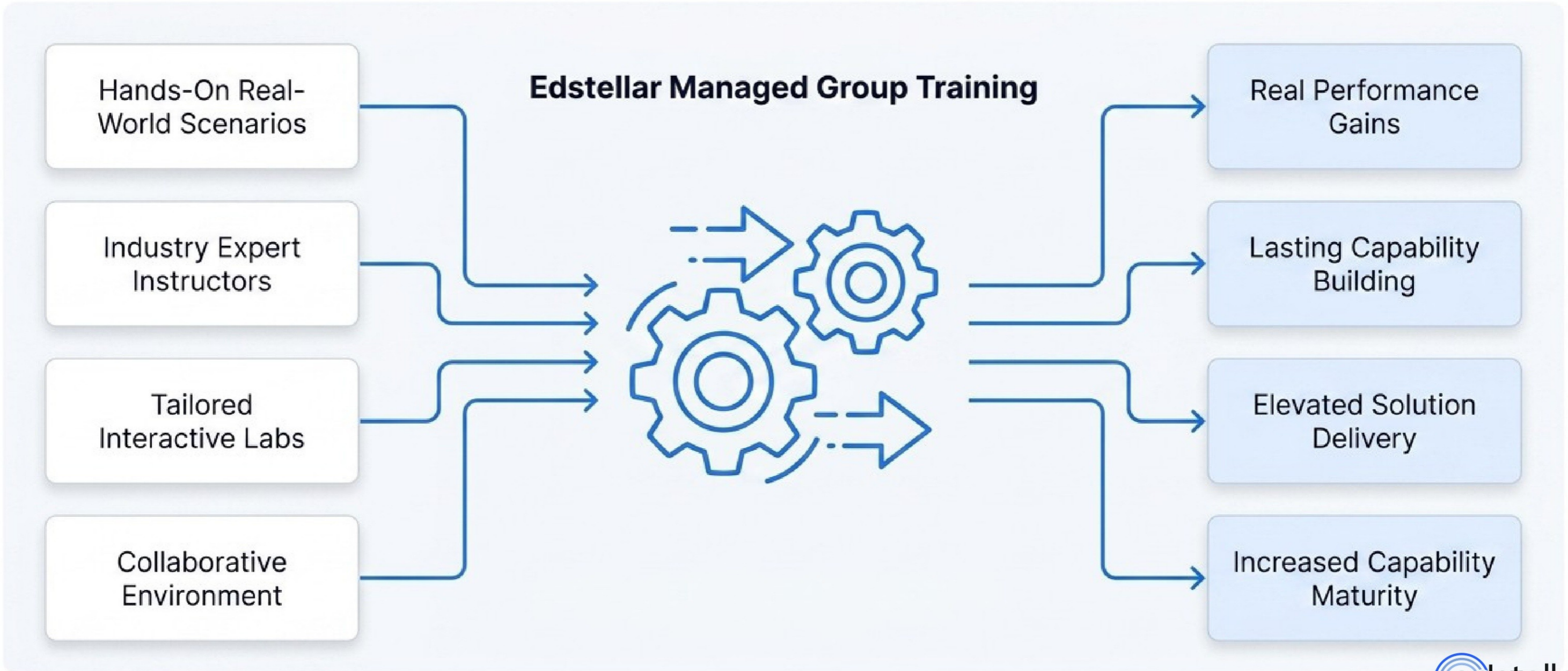
Phase Three: Advanced Application Delivery



Core Competency Matrix

Technical Domain	Core Capability	Business Outcome
Embedded Systems	Dedicated Computer Programming	Ensuring Device Functionality And Efficiency
Vehicle Hardware Abstraction	Standardized Interface Creation	Seamless Hardware-Software Integration
CAN Bus Communication	Efficient Data Exchange Protocols	Ensuring Modern Vehicle Functionality

The Enterprise Transformation Engine



Target Audience Alignment



Flexible Corporate Delivery Models



Virtual Live Instructor-Led

- ✓ Global Reach From Various Locations
- ✓ Consistent Training Quality And Uniform Outcomes
- ✓ Scalable Learning For Large Participant Groups



On-Site Face-To-Face

- ✓ Environment Tailored To Learning Requirements
- ✓ Improved Team Collaboration And Knowledge Sharing
- ✓ Direct Interaction For Hands-On Process Demonstration



Off-Site Face-To-Face

- ✓ Distraction-Free Environment Improves Engagement
- ✓ Dedicated Schedule Improves Learning Effectiveness
- ✓ Boosts Morale And Reflects Development Commitment

Proof of Impact

“The Android Automotive OS training provided critical insights into strategic frameworks that enhanced my consulting capabilities... Interactive labs prepared me perfectly for real-world client scenarios. Our solution delivery efficiency and quality have increased substantially across the board, demonstrating immediate value from this investment.”

Hao De

Principal Mobile Architect

Native Mobile Development Platform

Enterprise Delivery At Global Scale



**Delivery Capability
Across 100+
Countries**

**Instruction Available
In 10+ Languages**

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Deutsch, العربية, Português, हिंदी,
Français, 日本語, And Italiano

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