

AGENTIC CLASSPULSE

Early attendance-risk intelligence.
Timely, governed student intervention.

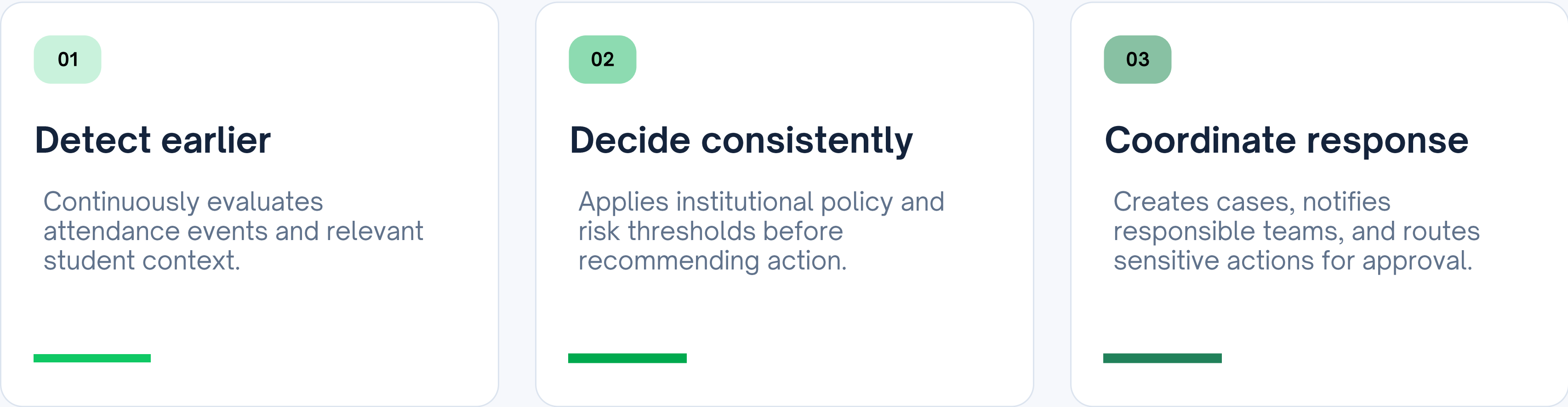
A REPEATABLE AWS SOLUTION FOR EDUCATION INSTITUTIONS



ALPHA DATA

ClassPulse turns attendance signals into coordinated action.

A governed agentic workflow that helps education teams identify students who may need support, determine the appropriate response, and maintain a complete record of every intervention.



DESIGN PRINCIPLE Automate routine coordination; keep people in control of sensitive student decisions.

From reactive attendance reviews to proactive student support.

Attendance data often exists, but the intervention process can remain fragmented, manual, and late.

TODAY

Reactive & fragmented

- Patterns are spotted after risk has accumulated
- Staff manually review records and chase follow-ups
- Decisions can vary by team or campus
- Evidence is spread across emails and spreadsheets

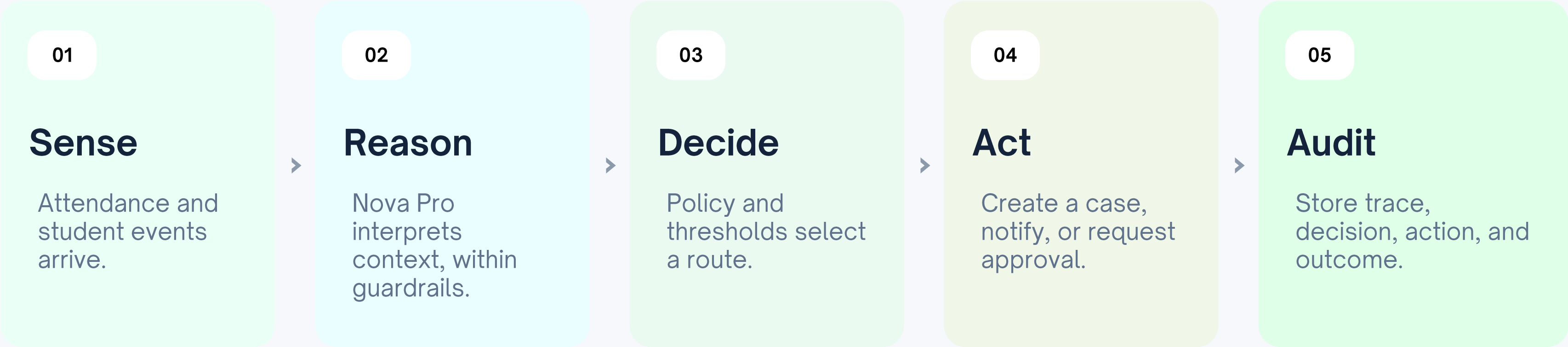
WITH CLASSPULSE

Proactive & governed

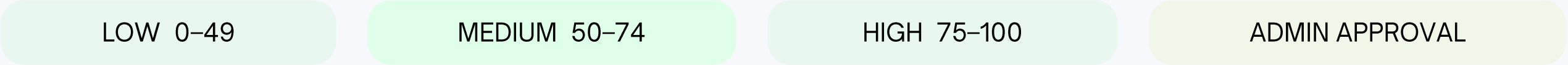
- ✓ Risk is re-evaluated whenever new events arrive
- ✓ Cases and notifications are orchestrated automatically
- ✓ Policy thresholds guide consistent routing
- ✓ Actions, approvals, and outcomes are auditable

From attendance signal to accountable action.

ClassPulse senses student events, reasons over context, makes a policy-aware decision, coordinates the response, and preserves the evidence.



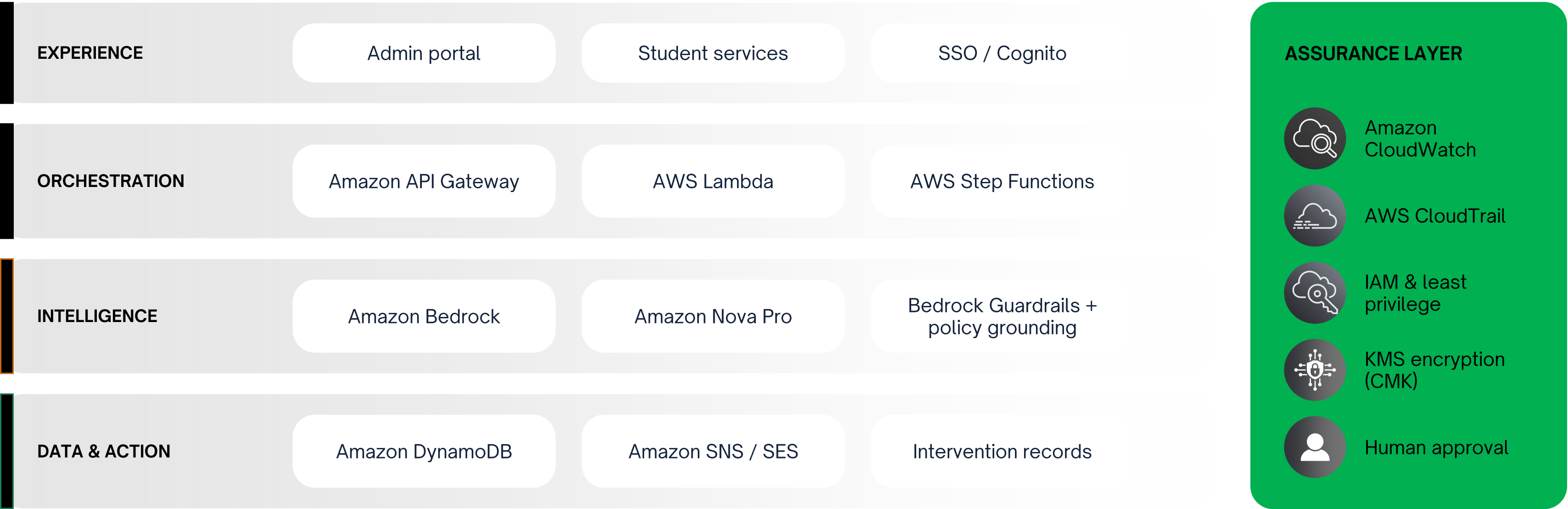
RISK-BASED ROUTING WITH HUMAN OVERSIGHT



Thresholds are configurable and should be validated with the institution.

A serverless, event-driven architecture on AWS.

The design separates experience, orchestration, intelligence, data, and assurance layers so each can scale and evolve independently.



Deployment target: AWS UAE Region (me-central-1), in-Region inference

Trust is designed into every decision and intervention.

ClassPulse is intended to assist education teams—not replace accountable human judgment.

01

Human control

Approval gates for sensitive or high-impact actions.

02

Policy grounding

Institutional rules and configurable risk thresholds.

03

Data protection

Least privilege, encryption, and controlled access.

04

Traceability

Decision inputs, model response, action, and outcome logged.

05

Model quality

Test sets, prompt versioning, and periodic evaluation.

06

Operational safety

Monitoring, retry logic, exception queues, and escalation.

Principle: no automated punitive decision; ambiguous cases are escalated for human review.

Value is created across the student-support ecosystem.

Benefits below are intended outcomes to validate through a pilot; they are not presented as measured production results.

Students

- Earlier, more relevant support
- Clearer follow-up experience
- Reduced risk of being overlooked

PILOT VALIDATION

Academic teams

- Prioritized case queues
- Consistent routing and evidence
- Less manual coordination

PILOT VALIDATION

Leadership

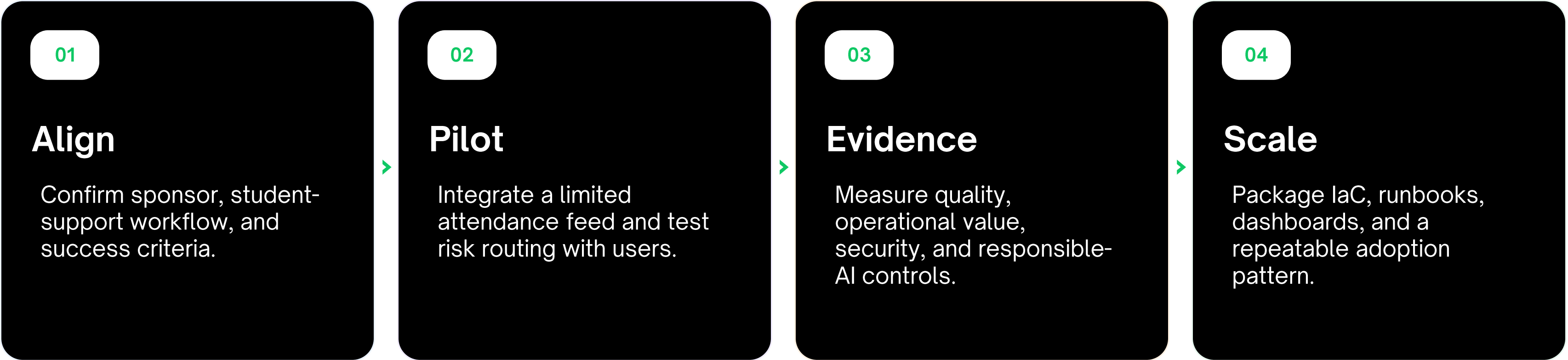
- Visibility into trends and outcomes
- Governed, auditable AI adoption
- Repeatable model across campuses

PILOT VALIDATION

PILOT MEASURES: ALERT PRECISION • TIME-TO-REVIEW • CASE COMPLETION • STAFF ADOPTION • STUDENT-SUPPORT OUTCOME

Turn ClassPulse into a repeatable education accelerator.

The immediate goal is to validate the use case with one institution, capture measurable evidence, and package reusable deployment assets.



NEXT STEP

Confirm the IIT Delhi – Abu Dhabi pilot scope, align AWS sponsorship and architecture review, and agree the evidence required for a publishable reference and competency submission.