



Infinity LabsTM

Structured Innovation Infrastructure for Future-Ready Schools

CBSE Composite (Multi Skill) Lab Aligned Experiential Learning System

Aligned to NEP2020 • CBSE • NCrF • Skill India

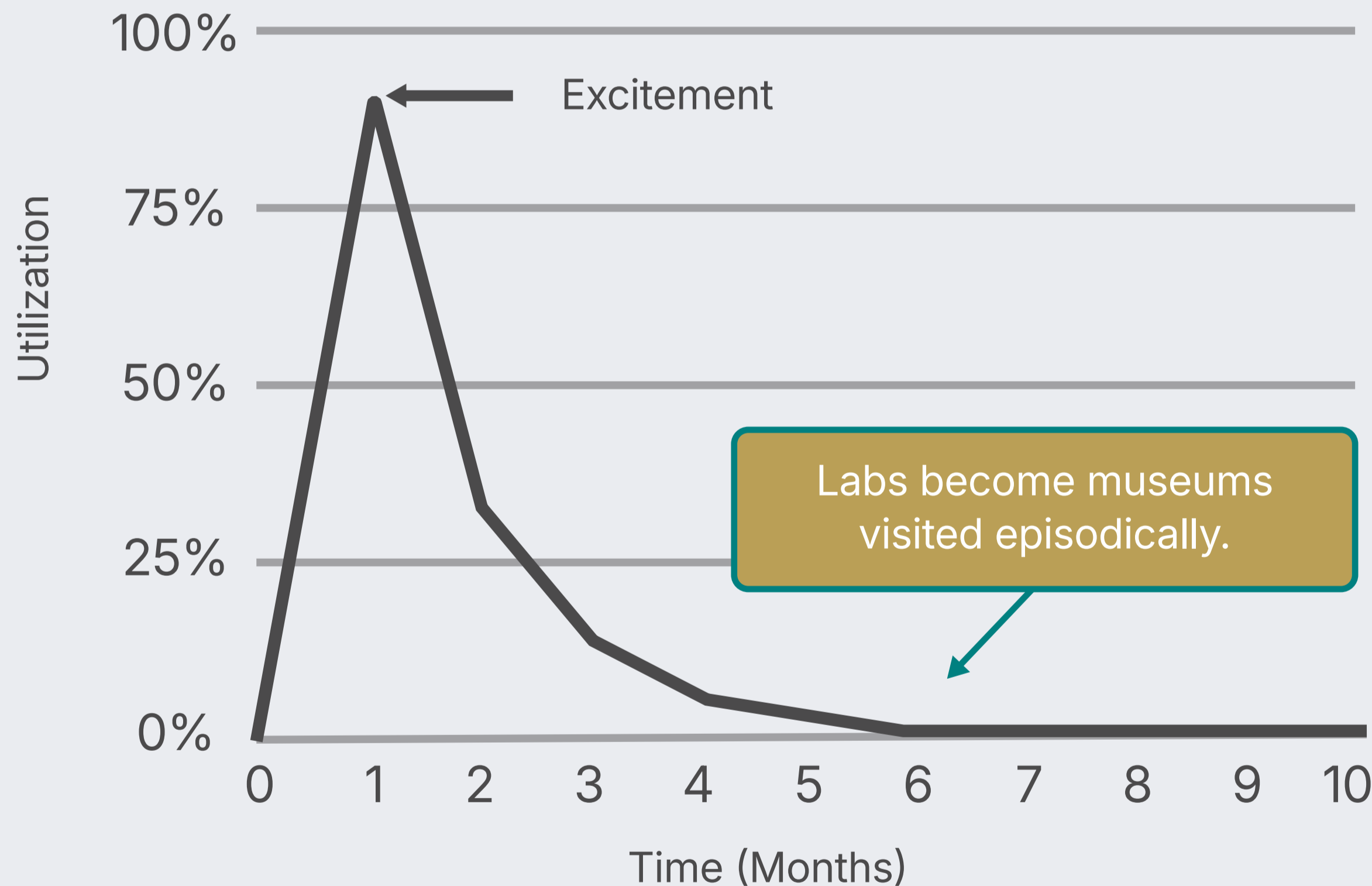
Implements CBSE Composite Skill Lab through integrated multi-domain experiential learning.

The Lab is Not the Problem. The Model is

Schools invest with intent, but utilization drops off a cliff because innovation is treated as an episodic event, not a system.

The Evidence

The Utilization Cliff



The Diagnosis

Episodic learning cycles

Specialist-dependent access

Labs as an extracurricular activity

Expenditure without pedagogy

The real issue isn't intent or investment. It's fragmentation masquerading as progress.



From Static Infrastructure to Learning Systems

Infinity Labs rethinks innovation learning by designing how it works in real schools.

Traditional Labs

- ✗ Tool-centric
- ✗ Episodic Access
- ✗ Specialist-Run
- ✗ Fixed Location

Infrastructure (Enabler)

Core System

Learning Design

Teacher Enablement

Monitoring & Continuity

Infinity Labs

- ✓ System-driven
- ✓ Continuous Cycles
- ✓ Teacher-Enabled
- ✓ Mobile Deployment

Designed for real schools-not ideal lab conditions.



Why School Leaders Say 'Yes' With Confidence



Risk: Teacher Turnover?



Solved: System empowers existing staff; no specialist dependency.



Risk: Dead Inventory?



Solved: Mobile deployment ensures daily utilization across all grades.



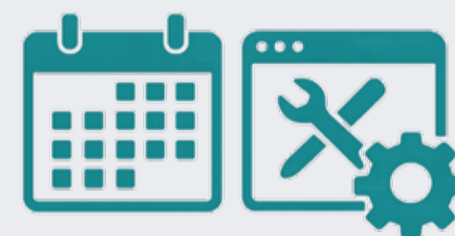
Risk: Audit/Compliance?



Solved: 100% aligned with CBSE Composite Lab & NEP 2020 mandates.



Risk: Obsolescence?



Solved: Annual content & tool refreshes keep the lab current.



Risk: Implementation Chaos?

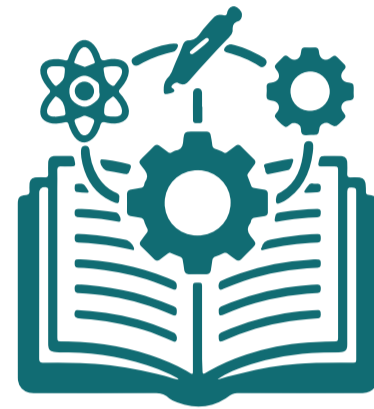


Solved: Zero renovation required; fits into existing timetables.

Experiential learning becomes sustainable when delivered as a system, not an activity.



Aligned to India's Education Transformation Framework



NEP 2020

Experiential &
Multidisciplinary Learning



NCrF (National Credit Framework)

Credit readiness & learner
mobility



NCVET / Skill India

Competency-based skill
foundation.



CBSE Composite (Multi Skill) Lab & Experiential Learning Mandate

- Robotics & Automation Lab
- AI & Data Science Lab
- IoT & Smart Systems Lab
- Electronics & Embedded Systems Lab
- Space Technology & Astronomy Lab
- Drone Technology Lab
- Additive Manufacturing (3D Printing) Lab
- Industrial Automation & PLC Lab
- Coding & Computational Thinking Lab

Infinity Labs is a ready-to-deploy implementation of CBSE's Composite (Multi Skill) Lab framework.



A Complete Learning Delivery System

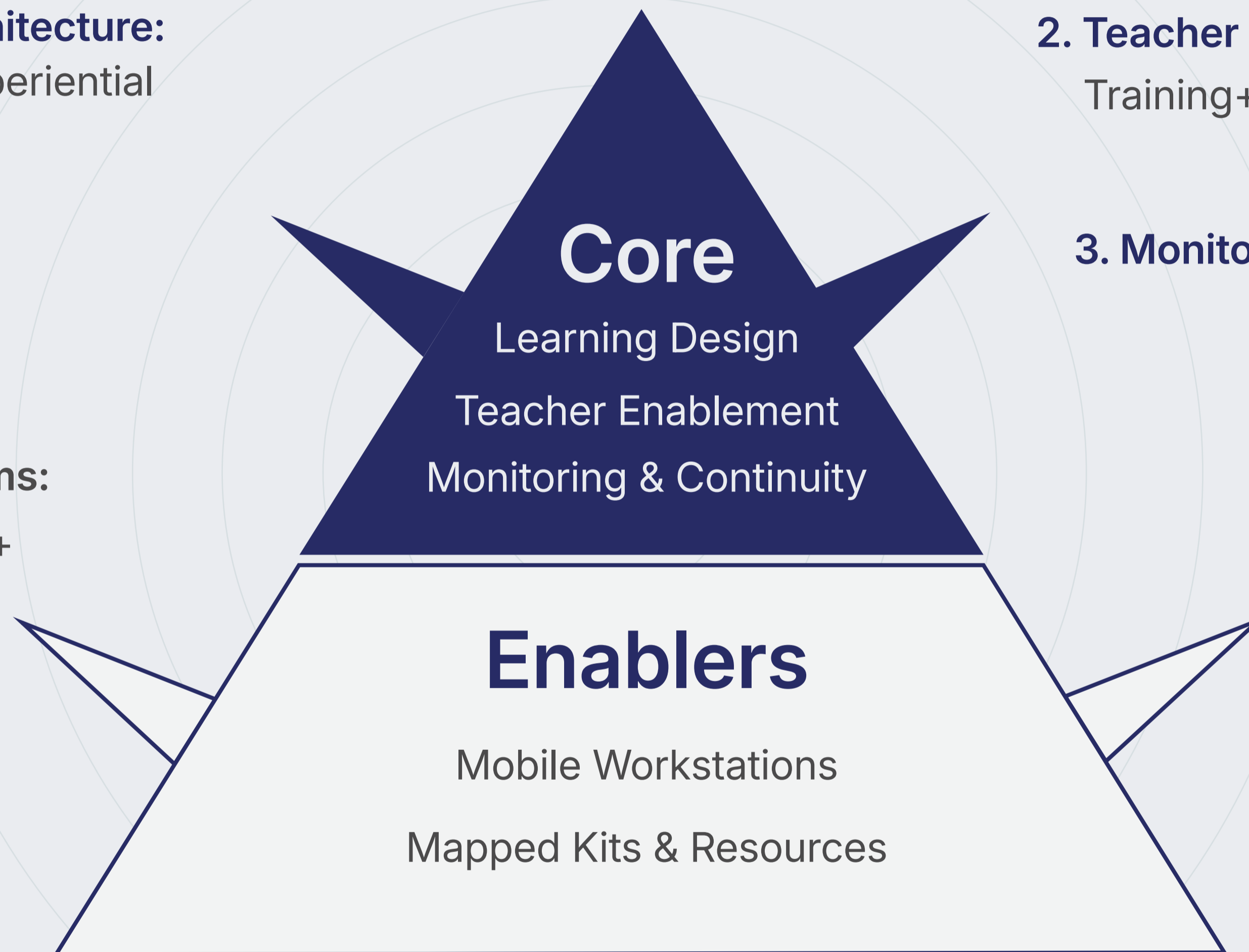
1. Learning Architecture:
Structured experiential cycles.

2. Teacher Enablement:
Training+ facilitation systems.

3. Monitoring & Continuity

4. Infrastructure Systems:
Mobile workstations + modular tools.

5. Academic Integration:
Embedded within school delivery.



Tools are curated by design—not bought as inventory.



Investment Logic: Maximizing Institutional ROI

Traditional Lab Model



Dedicated Room (Cost) + Specialist Salary (Recurring) + Idle Equipment

= High Cost Per Learning Hour

Infinity System Model



Zero Room Cost + Existing Faculty + Shared Mobile Asset

= Lowest Cost Per Student



Zero Sunk Capital

No specialized furniture or electrical work.



Utilization

Mobile units serve the entire school, not just the "science batch".



Sustainability

Funds go toward capability upgrades, not facility maintenance.



Teacher-Led Stability. Zero Specialist Dependency

Infinity Labs empower your existing faculty to facilitate, eliminating the risk of external experts leaving.

Facilitation Training

Shift from instructor to facilitator.

Structured Session Guides

Detailed roadmaps for every class.

Integration Frameworks

Connects lab to classroom subjects.

Monitoring Systems

Ongoing quality checks.



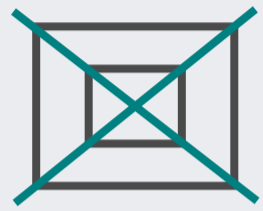
Enables school teachers to deliver CBSE Composite Skill Lab independently

"Our faculty transitioned from observers to facilitators within one academic term.
Structured training made delivery sustainable."

- Academic Director, MS Education Academy, India



Operational Fit: Built for Real School Logistics



No fixed lab required

Eliminates the need for dedicated real estate.



Mobile Deployment

Lab-to-Go workstations move between classrooms.



Timetable Integrated

Fits into the standard academic schedule.



Shared Rotation

Optimization of resources across multiple grades.

Infinity Station™

Modular Innovation Workstation



"We implemented Infinity Labs without timetable disruption. Mobile deployment ensured every class accessed experiential learning weekly."

- Principal, Alfaz International School, Hyderabad

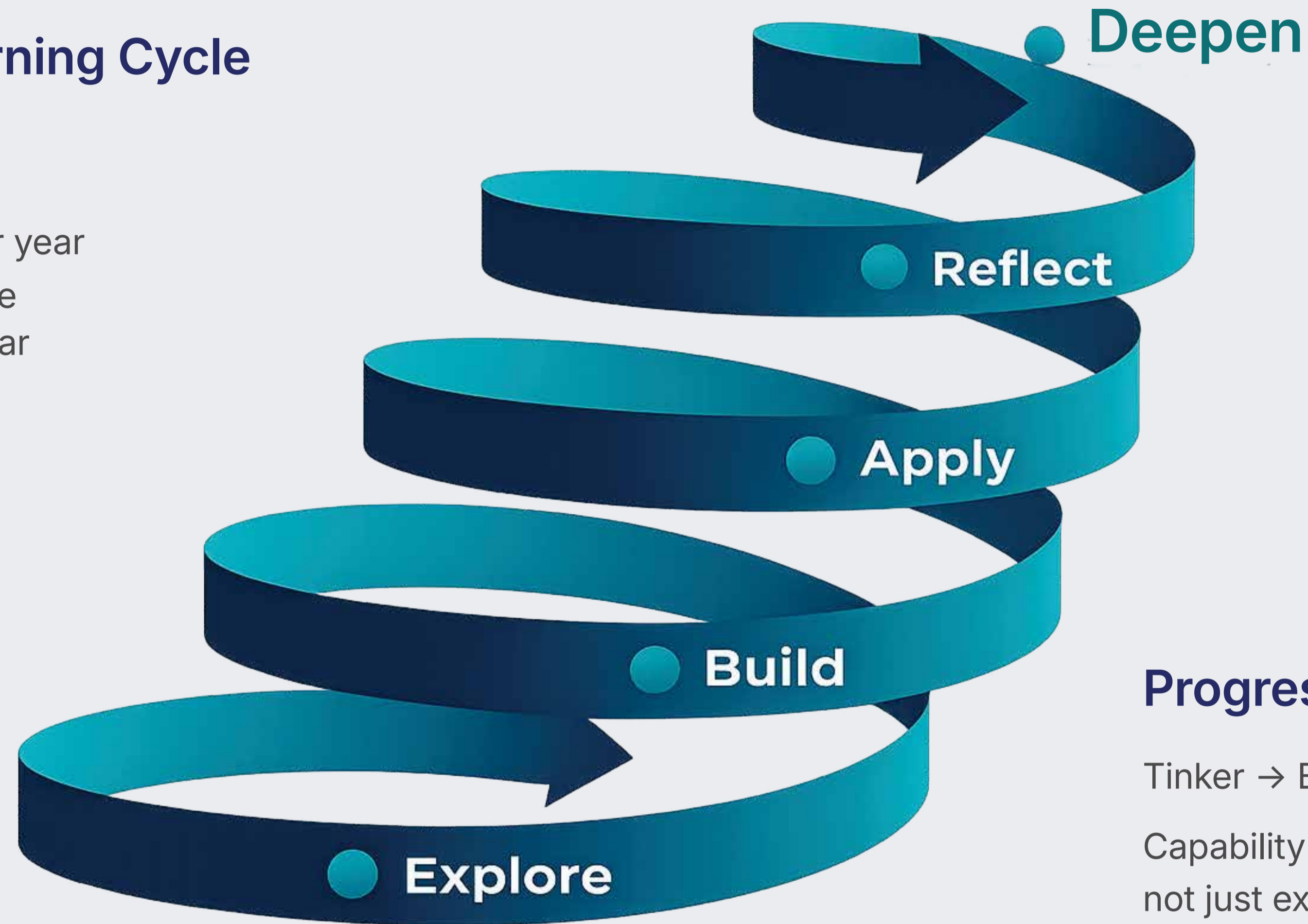


The Methodology: Structured Experiential Learning Cycles

Experiential Learning Cycle

Cadence

- 3 Learning Cycles per year
- 4-6 sessions per cycle
- 12-14 sessions per year



Progression Mapping

Tinker → Build → Innovate → Incubate
Capability is built through progression - not just exposure.

We move from understanding to application to real-world creation. Repeatability is the product.



Innovation Architecture: A K-12 Progression

- ▶ **Within Cycle**

Explore → Build → Apply → Reflect

- ▶ **Within Capability**

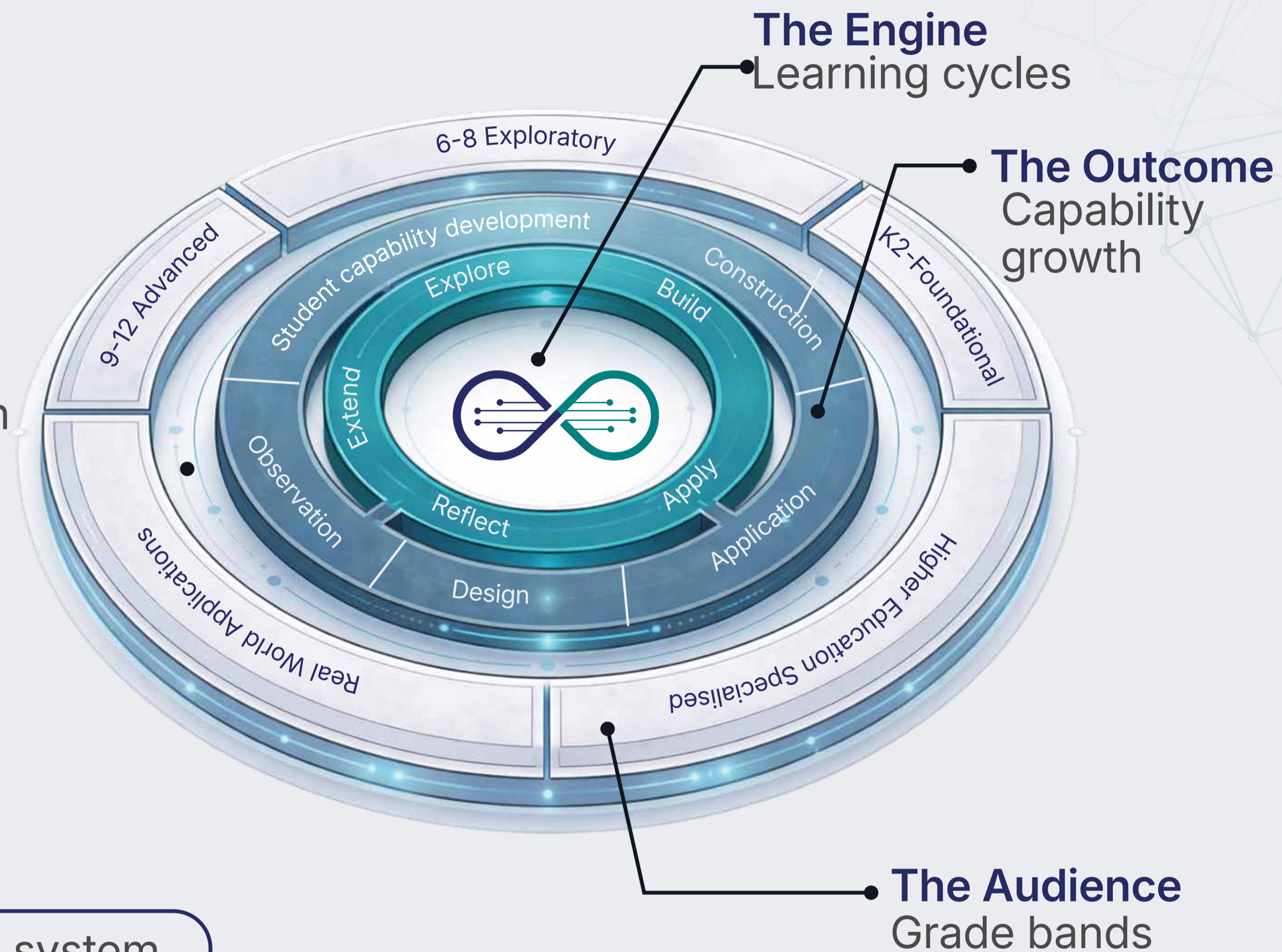
Observe → Construct → Apply → Design

- ▶ **Across Cycles**

Depth increases

- ▶ **Across Grades**

Sophistication increases



Outcome: Innovation is not a room. It's a system.

Aligned to NEP2020 ● CBSE ● NCrf ● Skill India



Program Themes Aligned to Grade Bands & CBSE Composite Skill Lab

Age-appropriate themes. Common structure. Deeper learning across grades.

Grade Band 1

(Classes 1-5)

Curiosity

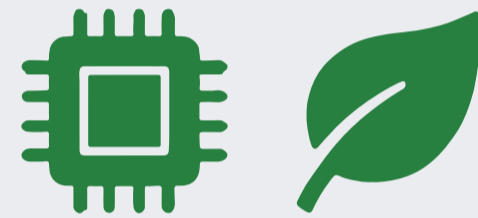


- Everyday Technology
- Simple Machines
- Light & Sound
- Magnets & Motion
- Water & Air
- Materials Around Us
- Basic Electricity
- Plants & Environment

Grade Band 2

(Classes 6-8)

Hands-on



- Electricity
- Circuits
- Environment
- Renewable Energy Models
- Mechanical Linkages
- Hydraulic Systems
- Motors & Gears
- Basic Robotics
- Structural Builds

Grade Band 3

(Classes 9-10)

Problem Solving



- Control Systems
- Energy Efficiency
- Automation Logic
- Smart Irrigation
- Home Electrical Systems
- Safety & Alarm Systems
- Environmental Monitoring
- IoT Foundations

Grade Band 4

(Classes 11-12)



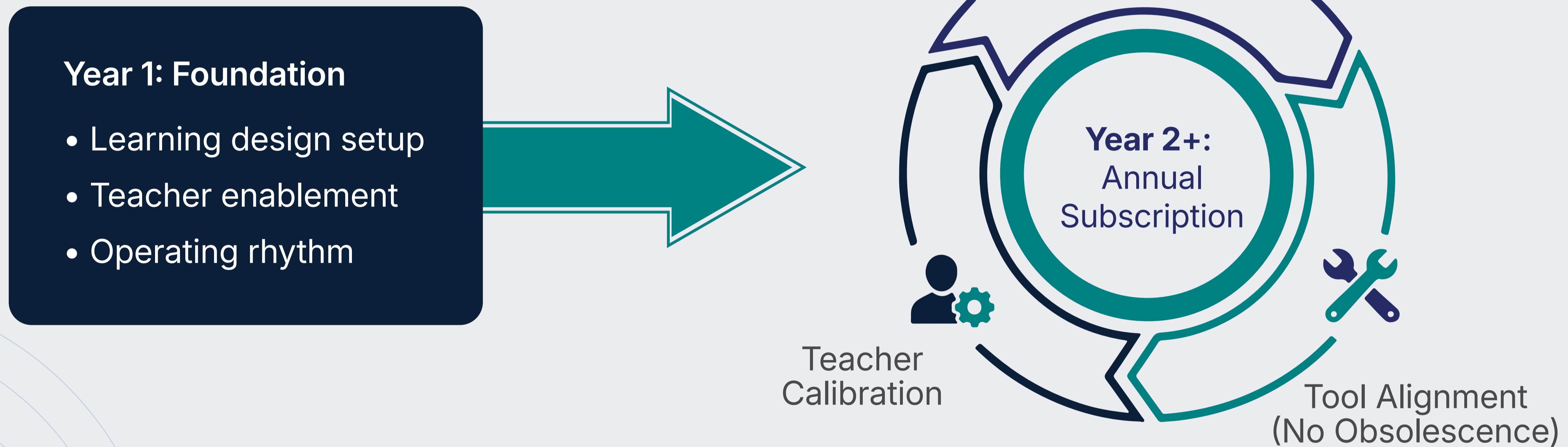
- Automation
- IoT
- Data
- AI Applications
- Industry 4.0 Systems
- Robotics Prototyping
- Smart Cities
- Renewable Energy Innovation
- Assistive Technology Design

Common innovation domains continue across grades-engagement depth evolves developmentally.



Designed for Continuity - Not One-Time Deployment

Capability grows annually - not reset annually.

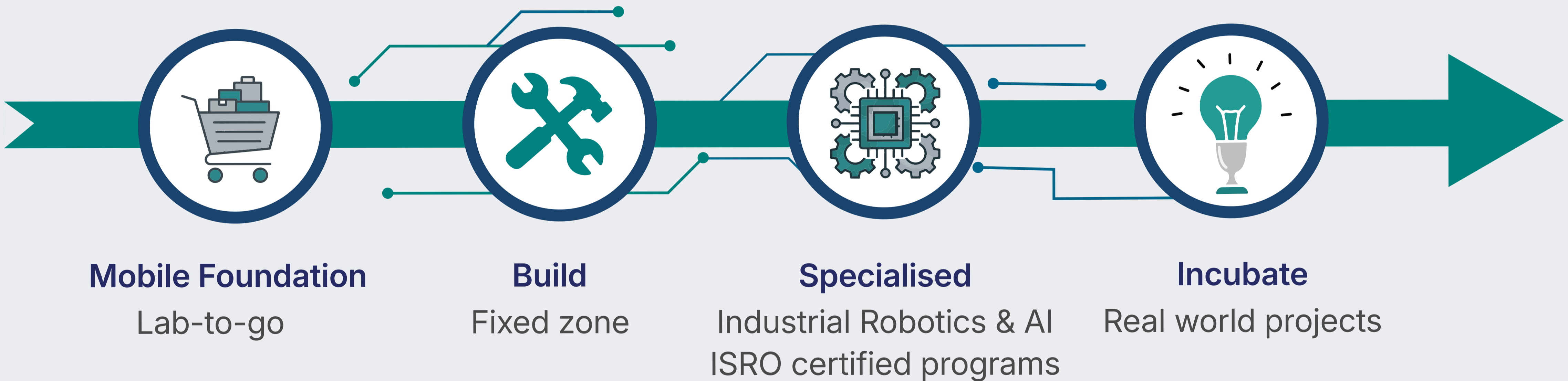


Annual renewal is not paying again for the same thing. It keeps the system relevant, refreshed, and reliable.



From Mobile Foundation to Institutional Innovation

A trajectory unlocked as the school matures.



Stop competing on discounts. Start competing on positioning.

Shift parental conversation from 'What equipment do you have?' to 'What will my child build?'



Selective by Design Powered by **EDGEFX** TECHNOLOGIES

Infinity Labs partners only with institutions committed to long-term innovation transformation.



Manufacturing Scale

Disciplined learning design backed by EdgeFX's long-standing industrial work.



Academic R&D

Conservative in execution, built to integrate into school realities.



Policy Alignment

Sustainable year after year, aligned to national frameworks.

Deployments

- IIT Indore
- IIT Jodhpur (Industry 4.0 CoE)
- IIT Gandhinagar (500 Labs)
- VTU (Visvesvaraya Technological University)

593 Labs (Telangana)

175 Labs (Maharashtra)

300 Labs (Rajasthan)

100 Astronomy Labs (Delhi)

20+ ITI Labs | NSDC Partner | NCVET Partner



ISRO Registered
Space Tutor



STEM.org
Certified



ZeD
Certified



Innovation Is Not a Room. It's a System



Infinity LabsTM

Learning infrastructure that evolves. Capability that compounds.

"Infinity Labs has repositioned our school from infrastructure-led to innovation-led learning."

- Academic Director, Gurukul International Public School, Odisha

Schedule a Site Assessment & Pilot Deployment Discussion

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