Regenerative IT that keeps Higher Education moving.

Repairable devices and lifecycle services that protect learning, research, budgets and sustainability goals.

Series 3
intel CORE ULTRA X7

Intel® Core™ Ultra X7 Series 3 processor
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Higher education doesn’t just need more technology.

Universities are in the midst of adapting to the rise of generative AI and the evolving role of technology in teaching, learning and research; but they should also be working to advance inclusion, equity, sustainability and regeneration, concludes a new UNESCO publication.[1] Meanwhile, the cybersecurity threat is intensifying, with 98% of UK higher education institutions experiencing cybersecurity events in the past year.[2]

Institutions are facing all of this, all at the same time. Often with the same pressure on budgets, teams and devices.

That makes every technology decision both more vital and more complex.

Higher education needs technology that keeps returning value for the right people in the right ways. The question is no longer simply what to buy next. It’s how to keep more value moving through the technology institutions already have.

This can be described as a regenerative campus technology ecosystem: in which devices, services and data work together so every device has a next best use.



Perform. Repair. Redeploy. Recover. Measure.

Lenovo helps make that model practical through repairable devices powered by efficient Intel® Core™ Ultra processors, Premier Support, Lenovo Certified Refurbished, Asset Recovery Services, CO_2 Offset Services, product carbon footprint transparency, recycled materials progress and Lenovo’s wider net-zero ambition.

A mindset shift: from tech deployment to learning value.

The real value of technology for Higher Education institutions is what it returns to students, faculty, researchers and institutions.

Higher Education has already invested heavily in technology to support learning. The ‘success’ of these investments has traditionally been judged at the point of deployment.

But by stopping at deployment, institutions are missing a much bigger opportunity to make sure technology keeps giving value back after deployment to improve learning, access, continuity and institutional outcomes over time.

That’s the idea behind the regenerative education IT ecosystem: moving from recurring refresh pressure to long-term value. It’s a simple shift in perspective. But it allows Higher Education institutions to realize more value from their technology where it matters most: teaching innovation, research readiness, student experience, sustainability and institutional reputation.

Underpinning the regenerative model are repairable Lenovo devices, powered by Intel® Core™ Ultra processors, and Lenovo lifecycle services which help Higher Education put circularity into action.

The next phase of Higher Education modernization should protect learning, access, continuity, budgets and sustainability goals at the same time.



ThinkPad T16 Gen 5, powered by Intel® Core™ Ultra X7 Series 3 processors

The new wave of digital modernization.

A device refresh used to be a simple calendar event. Buy. Deploy. Support. Replace. Dispose. But that approach is too blunt for the pressures universities face now.

Higher Education is entering another decisive modernization wave. AI, cybersecurity, hybrid learning, device refresh and sustainability are all putting new pressure on campus technology.

$404B

↓

$850B[3]

The global digital education market is expected to more than double between 2025 and 2030. For universities, that growth creates a sharper question: how do you modernize without adding unnecessary cost, complexity or waste?

The next best device may be the one you already have.

A regenerative education IT ecosystem gives IT teams options before replacement becomes the default. **The answer is not simply more technology. It is better lifecycle strategy.**

Regenerative IT gives devices new life.

Regenerative IT opens up possibilities for devices to be repaired, refurbished and securely redeployed to stay in use for longer. When universities understand the role, condition and performance of each device, they can avoid unnecessary replacement and make informed decisions about the best next step.

Replacement should be a decision, not a default.

Every replacement starts a new product lifecycle. That means more than a new purchase order. It means new materials, manufacturing, transport, use and end-of-life impact. Product carbon footprint data can help make that impact visible so universities can weigh replacement against the value still left in the device. If a device can still perform, be repaired, be redeployed in another role or be refurbished, it still has value to return before it leaves the ecosystem.

Longer lifespan. More value.

This shift away from blanket refreshes and towards circular repair and refurbishment creates opportunities to extend device lifespan and keeps value circulating in the ecosystem. It helps institutions make greater use of the impact already embodied in each device, while reducing IT waste and lifetime costs.

Six kinds of value to keep in motion.

A regenerative education IT ecosystem is about building technology environments that keep giving value back to learners, faculty, IT teams and institutions.



Learning value. Fewer interruptions to teaching, learning and student access.



Research value. Technology that supports specialist workflows, keeps projects moving and helps protect research outcomes.



Financial value. Lower total cost of ownership when budgets are under increased pressure.



Lifecycle impact value. Product carbon footprint information and lifecycle data can help institutions consider environmental impact alongside cost, performance and useful life.



Security value. Zero-trust endpoints and secure decommissioning maintain security before, during and after the device lifecycle.



Residual value. Parts, materials and devices can return value after first life through refurbishment, recovery or responsible recycling.

The device lifespiral adds value at every turn.

How regenerative IT keeps more value on campus.

The device lifecycle is often drawn as a single loop from purchase disposal. But campus technology doesn't have to work that way.

Regenerative IT give institutions practical steps which transform the device lifecycle into a device lifespiral of five connected loops which maximize performance, extend working life and give devices a second life. So, instead of treating devices as assets waiting to be written off, universities can keep value moving through their IT ecosystem.



The regenerative lifespiral's five loops of value.

In a regenerative IT ecosystem, every device has a next best action: perform, repair, refurbish and redeploy, or recover.



Perform.

Make first life count.

Support teaching, research, collaboration and AI workloads with repairable Lenovo devices and energy-efficient Intel® Core™ Ultra processors which power efficient performance throughout a device's life.

Save up to:

106,000 kWh[2]

in electricity

The rise of AI means performance matters more than ever. So does how efficiently that performance runs across the lifecycle of thousands of campus devices.

Intel® Core™ Ultra processors can improve performance-per-watt for modern workloads, including collaboration and AI-enabled productivity.



LOOP 2

Repair.

Preserve value before you replace it.

A repairable device gives IT teams another option. If a battery, keyboard, port, screen or component can be serviced, the whole device doesn't need to leave the ecosystem.

LOOP 3

Redeploy.

Move devices to where they still fit.

A device that no longer fits one user may still be right for another. Refurbishment can restore eligible devices to a high working standard before they are securely redeployed to another department, lab, team or lower-intensity role.

LOOP 4

Recover.

End of first life is not the end.

When a device can't keep working on campus, it may still hold residual value, parts value, materials value or reuse potential.



Measure.

Let data guide the next step.

Available data on device age, condition, performance, repair history, warranty status, product carbon footprint, residual value and recovery outcomes can help universities make better-informed lifecycle decisions.

The regenerative IT lifespiral turns sustainability goals into practical lifecycle decisions.

Repairability opens up the lifespiral.

When devices are easier to repair, universities have more choices before replacement becomes the default.

Repairability is not just about fixing a broken device. It is what keeps the lifespiral open.

More routes forward.

Without it, the choices narrow fast. A device that can't be maintained is harder to keep in use, harder to redeploy and more likely to move straight from first life to replacement or responsible disposal.

More value protected.

With it, IT teams get more decision space. They can solve the issue in front of them without writing off the whole device, preserving the capital, carbon and performance value already built into it.

More impact visible.

That matters because every unnecessary replacement starts another product lifecycle: materials, manufacturing, transport, use and end of life. Product Carbon Footprint data helps make that impact visible, so universities can see when repair, redeployment or refurbishment may return more value before a new device is needed.

More confidence in the technology.

This is also how technology earns trust. When students, faculty, researchers and staff know devices can be supported, serviced and kept productive, technology feels less disposable and more dependable.



ThinkPad repairability by design.

ThinkPad repairability-by-design helps make repairability practical for education IT teams.

Repairable ThinkPad devices, powered by Intel® Core™ Ultra processors and designed with replaceable components, give teams more choices before replacement becomes the default.

Premier Support and Premier Support Plus help make that repairability operational through expert support, faster issue resolution and services that keep devices productive for longer.

A repairable future.

Repairability is a growing movement. Since 2003, iFixit, the world's largest online repair community, has been advocating for repairability: the idea that we should be able to fix everything we own.

Lenovo devices, built for longer use.

Replace the part, not always the device.

The Lenovo ThinkPad T14 Gen 7 and ThinkPad T16 Gen 5, powered by up to Intel® Core™ Ultra X7 Series 3 processors, include repairability-focused design features that help IT teams address common failure points without retiring the whole device.

Repairability you can evaluate.

Both the ThinkPad T14 Gen 7, powered by Intel® Core™ Ultra 7 Series 3 processors, and ThinkPad T16 Gen 5, powered by Intel® Core™ Ultra X7 Series 3 processors, achieved 10/10 iFixit repairability scores, with easier access, documentation and spare-parts availability helping make repairability a more visible signal for procurement and lifecycle planning.

Premium devices can still be practical.

The Lenovo ThinkPad X1 Carbon Gen 14 Aura Edition and Lenovo ThinkPad X1 2-in-1 Gen 11 Aura Edition, powered by Intel® Core™ Ultra X7 Series 3 processors, use Lenovo's Space Frame design to support cooling, performance and easier repair access.

Campus-scale regenerative IT.

Regenerative IT becomes practical when every device has a clear path to support, repair, redeployment, refurbishment, recovery or reporting.

Repairable devices create the potential for a more sustainable campus technology ecosystem. Lenovo lifecycle services help make it work at campus scale.

How Lenovo helps keep value moving.

Support continuity: Lenovo Premier Support and Premier Support Plus help IT teams resolve issues faster and keep devices productive for longer.

Protect active-use value: Lifecycle protection services help safeguard the investment already in the IT ecosystem through warranty support and related services.

Use performance efficiently: Devices powered by Intel® Core™ Ultra processors can offer more efficient performance-per-watt for modern campus workloads, from collaboration to AI-enabled productivity.

Create trusted second lives: Lenovo Certified Refurbished and Certified Refurbishment Services help make second-life devices secure, supported and fit for purpose.

Recover value responsibly: Lenovo Asset Recovery Services support secure decommissioning, remarketing, reuse, refurbishment and recycling.

Make lifecycle impact more visible: Product carbon footprint information can help institutions consider emissions alongside performance, cost, repairability and expected useful life.

Right-size consumption: Lenovo TruScale can help institutions align technology consumption to changing needs and build lifecycle services into the way technology is used.



What this helps Higher Education protect.

Budget resilience.	Learning continuity.	Sustainability proof.	Equity and access.	Efficient use.
Maximize investment by keeping more value in devices across first life, second life and end-of-life recovery.	Protect valuable learning, teaching and research time with fewer avoidable interruptions.	Demonstrate ESG progress with clearer data on carbon impact, lifecycle decisions and recovery outcomes.	Widen access to learning by giving credible second-life devices a trusted role in the technology ecosystem.	Support the performance people need, while being more mindful of the energy and carbon cost of everyday use.



Sustainability starts before campus.

The outcomes above show how Lenovo can help Higher Education institutions protect value while devices are on campus and in use.

But the sustainability story starts earlier. Lenovo's wider approach includes product carbon footprint transparency, increasing use of recycled materials, more responsible manufacturing processes and a commitment to net-zero greenhouse gas emissions by 2050.

For Higher Education institutions, that upstream transparency can support better procurement decisions before devices arrive and clearer reporting against institutional climate goals once they are in use.

Support. Repair. Refurbish. Redeploy. Recover. Report.

Turn refresh cycles into value cycles.

The next generation of campus technology strategy will be judged by the value it creates across the full lifecycle.

A more sustainable technology ecosystem cannot sit inside one sustainability initiative or one refresh plan. In Higher Education, it has to become a shared discipline across IT, procurement, finance, sustainability, academic leadership and research teams.



What changes when you manage for lifecycle value?

Procurement buys for more than day one. Ask about repairability, durability, product carbon footprint data, energy efficiency, support options, refurbishment pathways and recovery services.

Leaders choose partners for the full journey. The right partner should support the whole lifecycle: design, deployment, performance, support, repair, refurbishment, recovery and reporting.

IT makes repair and redeployment standard. Use device condition, performance, support data and security requirements to decide the next best action: keep in use, repair, redeploy, refurbish, recover or replace.

Academic and research teams get technology they can trust. Reliable, serviceable and well-supported devices help protect continuity across teaching, hybrid learning, research, administration and student services.

Finance protects value already invested. Longer useful life, repair pathways, redeployment and trusted refurbishment can help stretch technology budgets further.

Sustainability teams get better evidence. Product carbon footprint information, recovery outcomes and available lifecycle reporting can help connect endpoint decisions to institutional climate goals.

This is the end of disposable IT.

Smarter technology for all

Lenovo

The universities that move first can build campus IT ecosystems that are more resilient, measurable and better aligned to the people and purpose they serve.

Regenerative IT starts here.

Explore Lenovo's sustainability solutions to learn how you can make the shift to a regenerative IT ecosystem.

Explore sustainability solutions

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1. Global Education Market Research Report 2025–2030: Comprehensive Market Intelligence and Strategic Analysis, Josephine Nartey, 2025.
2. Cyber security breaches survey 2025/2026: education institutions findings, Department for Science, Innovation & Technology, 2026.
3. Potential savings when using Intel Core Ultra X9 388H processors over 4 years of use in an organization with 10,000 people. Based on Intel internal testing measuring total processor energy consumption on reference platform based on Intel Core Ultra X9 388H during simulated 8-hour workdays across 5 days/week, 52 weeks/year over 4-year device lifecycle. AMD comparison vs. Ryzen AI 7 PRO 360. Energy savings calculations assume 10,000 PCs. Actual results may vary based on usage patterns, system configuration, and software versions. See intel.com/performanceindex for details.

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