Smarter lifecycle IT for every school day.

Repairable devices, lifecycle services and circular programs that help keep learning on track.

Series 3
intel CORE ULTRA X7

Intel® Core™ Ultra X7 Series 3 processor
That's the power of Lenovo with Intel Inside®



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More technology isn’t enough.

What schools need is technology that keeps working for students, teachers, IT teams and communities.

Schools are navigating rapid advances in AI, intensifying cybersecurity threats[1] and widening funding gaps[2] that make digital learning harder to support. The demands on devices are considerable: they’re used heavily, taken home and expected to last. And the demands on small, overstretched IT teams are even greater.

That makes every device decision more important.

The question is no longer simply what to buy next, but how to keep more value moving through the technology already in the education IT ecosystem: learning value, teacher value, access value, budget value, security value, lifecycle impact value and community value.

In K-12, a regenerative education IT ecosystem means giving every device a next best use.



Perform. Repair. Redeploy. Recover. Measure.

Lenovo helps make that model practical through repairable devices, efficient Intel® Core™ Ultra-powered performance, Premier Support, Lenovo Certified Refurbished, Asset Recovery Services, CO_2 Offset Services, specialist-led sustainability workshops, product carbon footprint transparency, recycled materials progress, Lenovo’s wider net-zero ambition and K-12 programs such as Waste to Wonder.

A mindset shift: from device rollout to learning value.

The real value of K-12 technology is what it keeps returning to students, teachers, IT teams, districts and communities.

Schools have already invested heavily in digital learning: student devices, classroom technology, learning platforms, and one-to-one device models.

The ‘success’ of these investments has traditionally been judged at the point of rollout.

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

That’s the idea behind the regenerative education IT ecosystem: moving from recurring refresh pressure to a longer-term value system built around repairable devices, lifecycle services, redeployment, recovery and sustainability intelligence.

This simple shift in perspective changes how schools and districts realize more value from technology in the areas that matter most: keeping students learning, helping teachers teach, stretching budgets, supporting equitable access and showing communities that technology spend is responsible.

K-12 modernization cannot just mean more technology. It needs technology that keeps learning moving, works harder for longer and helps schools manage cost, access and sustainability together.



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 schools face now.

K-12 is entering another decisive modernization wave. Digital learning is still growing. Cybersecurity risks are rising. Device equity remains urgent. Schools are often managing large fleets with small IT teams. And with the average age of a U.S. public school building at 49 years[3], the physical space of many institutions was never designed for today’s digital demands.

$404B

↓

$850B[4]

The global digital education market is expected to more than double between 2025 and 2030.[4]

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

A regenerative IT ecosystem gives schools more choices before replacement becomes the default.

The answer is not simply more technology. It is better lifecycle strategy.

A single K-12 technology ecosystem must support very different needs: classroom learning, homework, assessment, teacher planning, administration, shared devices, take-home use and access programs.

Some devices will need to be refreshed. Others may still have useful life left in them, if they can be repaired, redeployed or refurbished.

That's where regenerative IT becomes relevant. When weighing up when to repair, redeploy or replace, schools can make better decisions when they understand the role, condition and performance of each device.

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 schools and districts can weigh replacement against the value still left in the device.

If a device can still perform, be repaired, moved to another student, classroom or role, or be refurbished, it still has value to return before it leaves the ecosystem.

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. More learners stay connected to the technology they need, so there are fewer interruptions to lessons, homework and student access.



Teacher value. Less time lost to device issues and classroom workarounds.



Budget value. More useful life from every device for schools facing cost constraints, funding cliffs and growing budget pressure.



Security value. Devices move through trusted support, redeployment and recovery pathways.



Lifecycle impact value. Product carbon footprint information and recovery outcomes can help schools consider environmental impact in lifecycle decisions.



Community value. Schools can show responsible stewardship of public, parent and community-funded technology spend.

The device lifespiral adds value at every turn.

How regenerative IT keeps more value in schools.

The device lifecycle is often drawn as a straight line from purchase to disposal. But education technology doesn't have to work that way.

Regenerative IT gives schools practical steps which transform the device lifecycle into a device lifespiral of five connected loops, maximizing performance, extending working life and giving devices a second life. So, instead of treating devices as assets waiting to be written off, schools 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.

LOOP 1

Perform.

Make first life count.

Devices should support lessons, homework, assessment, collaboration, teacher planning and school administration efficiently while they are in active use.

Use up to

65%[5]

less energy

on notebooks powered by Intel® Core™ Ultra Series 3 processors than ENERGY STAR 9.0 requirements, based on OEM design implementation.



LOOP 2

Repair.

Protect learning time.

A repairable device gives IT teams another option before replacement. 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 student, grade level or classroom may still be right for another. Refurbishment can restore eligible devices to a high working standard before they are redeployed between students, classrooms, staff roles, access programs or temporary replacement pools.

LOOP 4

Recover.

End of first life is not the end.

When a device can no longer support learning, it may still hold residual value, parts value, materials value or reuse potential. Recovery can also become visible to students through programs that turn circularity into a learning moment.

LOOP 5

Measure.

Let data guide the next step.

Available data on device age, condition, repair history, warranty status, product carbon footprint, recovery outcomes and redeployment rates can help districts make better-informed lifecycle decisions.

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

Repairability opens up the lifespiral.

When devices are easier to repair, schools can keep devices in students' hands, protect learning time and reduce pressure on IT teams.

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

More routes forward.
A device that can be maintained is easier to keep in use, refurbish and redeploy before replacement becomes the default.

Less pressure on stretched teams.
Responsive support, repair pathways and warranty options can help reduce the break/fix burden on K-12 IT teams, which often manage a diverse set of devices and endpoints with limited capacity.

More learning continuity.
When devices can be supported, serviced and kept productive, teachers lose less time to technology issues, students stay connected and devices stay in the hands of learners for longer, increasing access.

More lifecycle clarity.
Every unnecessary replacement starts another product lifecycle. Product Carbon Footprint data helps districts see when repair, redeployment or refurbishment may return more value before a new device is needed.



Repairability that supports the whole school.

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

Education devices designed for easier access, replaceable components, clear repair guidance and parts availability give teams more choices before replacement becomes the default.

Lenovo Education Support, Accidental Damage Protection and Premier Support services can help schools manage everyday break/fix realities, reduce unexpected repair pressure and keep devices productive for longer.

Lenovo devices, built for school realities.

Designed to cope with the work of learning.

Lenovo education devices are built and tested for the demands of K-12 use, with durability features across the 100w, 300w, 500w and 13w 2-in-1 families including MIL-SPEC 810H testing, reinforced hinges, hardened connectors and ports, spill-resistant keyboards and Corning® Gorilla® Glass.

Built to handle spills, drops and pressure.

The Lenovo 500w Gen 5, powered by up to Intel® Core™ i3 processor N350, includes Lenovo DuraSpec features designed to withstand spills up to 360ml, drops onto concrete from desk height and A-cover force of up to 60kg.

Made for easier maintenance.

The Lenovo 500w Gen 5 is designed to make maintenance easier with a customer replaceable unit battery, top-load keyboard and minimal screws, helping IT teams address common issues without retiring the whole device.

Support for unexpected mishaps.

Lenovo Accidental Damage Protection can help cover common non-warranted issues such as minor spills, drops or integrated screen damage, while Lenovo Education Support offers expedited Pickup, Repair and Return, parts prioritization and 24/7/365 Premier call center tech support.

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.

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 provisional 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.





Regenerative IT for every school day.

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 K-12 technology ecosystem. Lenovo lifecycle services help make it work at school and institution 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.

Use performance efficiently: Devices powered by Intel® Core™ Ultra processors can support efficient performance for modern learning, teaching and administration.

Support access affordably: Refurbished and redeployed devices can help schools stretch budgets and support learners who might otherwise face access barriers.

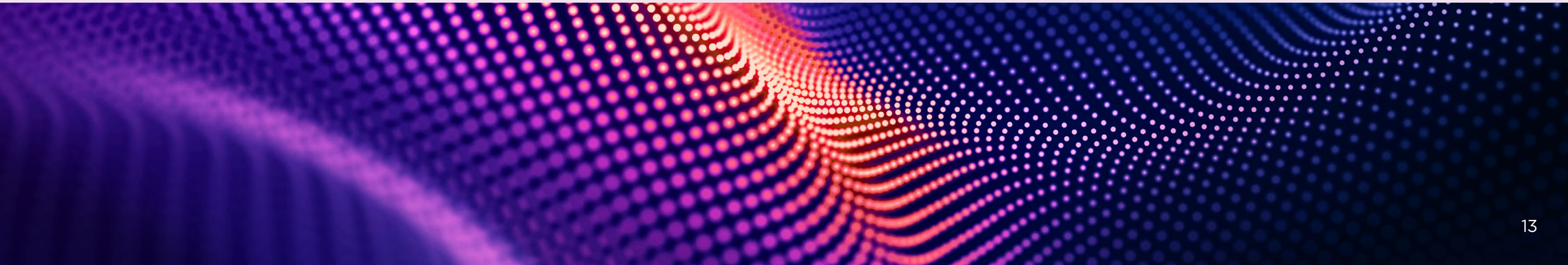
Make lifecycle impact more visible: Product carbon footprint information can help schools and districts consider emissions alongside performance, cost, repairability and expected useful life.

Reduce IT strain: Lifecycle protection services, warranty support and related services can help reduce the burden on small teams managing large number of school devices.

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, reuse, refurbishment and recycling when devices leave service.

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



What this helps K-12 protect.

Budget resilience.	Classroom continuity.	Teachers' time.	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 time with fewer avoidable interruptions to lessons, homework and assessment.	Defend teachers against time wasted troubleshooting device problems.	Demonstrate ESG progress with clearer data for boards, funders, parents and communities.	Widen access to learning by giving credible second-life devices a trusted role in the technology ecosystem.	Support the performance students and teachers need, while being more mindful of the energy and carbon cost of everyday use.

Waste to Wonder: turning sustainability into a learning moment.

With Lenovo and Intel's Waste to Wonder program, circularity becomes a hands-on learning experience. Lenovo device packaging gets another life as range of STEM-based classroom activities, complete with digital activity guide and videos.

The program gives learners of all ages the chance to explore topics like electricity, resistance forces and robotics and supports teachers to cultivate problem-solving skills, creativity and an interest in STEM.

Sustainability starts before school.

Lenovo's wider sustainability 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 schools, that transparency can support better procurement decisions before devices arrive and clearer reporting once they are in use.

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

The next step for responsible K-12 IT.

The next generation of K-12 technology strategy will be judged by the value it creates across the full learning lifecycle.

A more sustainable education IT ecosystem can't sit inside one sustainability initiative or one refresh plan. In K-12, it must become a shared discipline across district IT, procurement, finance, school leaders, teachers, sustainability teams, boards and technology partners.

The goal is practical: keep devices in students' hands, protect teacher time, stretch constrained budgets and show communities that technology spend is responsible.



What changes when you manage for lifecycle value?

Procurement buys for more than day one. Ask about durability, repairability, lifecycle cost, product carbon data, energy efficiency, warranty, refurbishment pathways and recovery services before the purchase order is signed.

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

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

School leaders protect learning continuity. Reliable, serviceable and well-supported devices help reduce avoidable interruptions to lessons, homework and assessment.

Teachers get technology they can trust. When devices work and support is clear, teachers can spend less time troubleshooting and more time teaching.

Sustainability teams get better evidence. Product carbon data, estimated emissions impact, recovery outcomes and lifecycle reporting can help connect device decisions to carbon, waste and circularity goals.

Boards and communities see responsible stewardship. A regenerative approach can help districts show how public, parent and community-funded technology is being used responsibly.

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

This is the end of disposable IT.

Smarter technology for all

Lenovo

The schools that move first won't just have greener IT ecosystems, they'll have technology that's more resilient, more measurable and better aligned to the people and purpose it serves.

Regenerative IT starts here.
Explore our sustainability solutions to learn how Lenovo can help you make the shift to regenerative IT.

Explore sustainability solutions



Intel® Core™ Ultra X7 Series 3 processor

That's the power of Lenovo with Intel Inside®

1 Driving K12 Innovation , CoSN, 2026
2 State EdTech Trends report, State Educational Technology Directors Association, 2025
3 Condition of public school facilities, National Center for Education Statistics, 2024
4 Global Education Market Research Report 2025–2030: Comprehensive Market Intelligence and Strategic Analysis, Josephine Nartey, 2025.
5 Based on OEM design implementation as measured by data relative to one HP laptop tested and may not be characteristic of all platforms on the market. Platform configuration and implementation have obvious impact to overall platform power as it applies to power measurements for these government regulations. See intel.com/performanceindex for details.

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