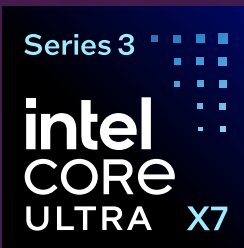


The hidden cost of disposable IT.

Why device refresh cycles throw away value and how regenerative IT recovers it.



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

Smarter
technology
for all

Lenovo



Contents

The IT estate is starting to feel the strain.	3
There's overlooked value inside every device.	4
The device lifespinal adds value at every turn.	5
The regenerative lifespinal's five loops of value.	6
Repairability keeps value moving.	9
Make regenerative IT operational.	10
Turn refresh cycles into value cycles.	12
Disposable IT stops here.	13
A stronger future starts with regenerative IT.	14

The IT estate is starting to feel the strain.

For decades, enterprise IT has been managed as a depreciating asset: bought, deployed, sweated and then disposed of. But that model is starting to bow under the sustainability, resilience and cost pressures IT leaders now face.

New pressures are building.

Rising AI Adoption raises the sustainability stakes. Carbon emissions linked with flagship CPUs and GPUs have risen sharply in recent years.¹ So, to ensure that AI PCs can support demanding workloads as efficiently as possible, IT leaders must consider metrics like performance-per-watt.	IT waste is becoming a business issue. Asset recovery, refurbishment and secure redeployment are moving beyond facilities and disposal teams to become part of broader strategic IT, procurement and sustainability conversations.
Lifetime performance is under the spotlight. Increasingly, devices are being judged on how long they can last. Since 2025, the EU has required smartphones and tablet labels to show how durable, energy-efficient and repairable devices are.	Scope 3 is changing the equation. Measure indirect emissions and device lifespan comes into sharper focus. By maintaining devices and avoiding unnecessary refreshes, IT leaders can spread the impact of embedded carbon across a longer working life.

The AI PC boom.

Gartner forecasts AI PC shipments will reach 143 million units in 2026.

55% of PC market in 2026.²

Device refresh needs a rethink.

Instead of looking at how quickly they can refresh, IT leaders should consider how much value they can keep in their IT estate.



There's overlooked value inside every device.

IT decisions used to focus on which devices to buy, what they're made of, how they're shipped and how they're eventually disposed of.

But between design and disposal is a device's active life. Within it, there are vital opportunities to not only reduce carbon emissions and waste, but to extend lifespan, increase resilience, make performance more efficient and extract value across your entire IT estate.

The value doesn't stop at sustainability.

When repairable, reliable devices are managed for lifecycle value, organizations can reduce total cost of ownership, minimize security and operational risk, protect productivity and strengthen resilience across the IT estate and the business as a whole.

Only **9%** of global resource input was recycled in 2020³

69% of economic value comes from managing existing stocks³

It's time to think beyond the refresh.

And to tap into that value, organizations must move beyond simply refreshing disposable hardware. The best IT estates focus on preserving performance, security, capital and material value throughout a device's first life and then using systematic repair and redeployment to give each device a new life.





The device lifespinal adds value at every turn.

The traditional device lifecycle is a straight line that starts at deployment and ends with destruction. But the regenerative IT operating model offers five practical steps which transform the device lifecycle into a device lifespinal. Follow them and you'll extend working life, build resilience and open up five loops of value that feed value back into your business.

The regenerative lifespiral's five loops of value.

Follow these steps to unlock previously inaccessible value.



Perform.

Maximize value in first life.

Increase productivity, boost efficiency and add value with efficient compute such as Intel® Core™ Ultra processors and Lenovo devices built to enhance performance, security, reliability and employee experience.

Efficient compute powers performance.

By optimizing performance-per-watt for everyday use, from collaboration to idle time, Intel pushes efficient performance further. Intel® Core™ Ultra processors support lower power consumption, helping you improve efficiency across the fleet.

Use up to **78%** less processor power⁴

When using Zoom with AI background effects.

Save up to **54%** processor power⁵

Office workers save power using Intel® Core™ Ultra X9 388H processors.

Save up to **106,000** kWh⁵

Potential savings when using Intel® Core™ Ultra X9 388H processors over 4 years of use in a 10,000-person company.

2 Repair.

Preserve before you replace.

A repairable device with replaceable parts gives IT teams an alternative to retiring a device.

3 Redeploy.

Restore devices for their next role.

A device that is no longer suitable for one user may still be right for another. OEM-backed certified refurbishment can restore eligible devices to a high working standard before they are redeployed to users and roles that match their capability.

4 Recover.

End-of-life isn't the end of the story.

After a device's working life is over, it can return value through secure recovery, parts harvesting, materials recovery and responsible recycling.

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.

Turn old devices into new value.

Recover residual value from your fleet and make IT asset disposal seamless with Lenovo Asset Recovery Services.



Measure.

Increase visibility for data-driven decisions.

Available device, service and recovery data can provide visibility into performance, condition and residual value, helping IT teams make more informed decisions about the next best action for each device.

The lifespinal leads to resilience.

Put the regenerative IT operating model into practice, and you'll extend working life, increase efficiency and improve sustainability. At the same time, the steps you take will help you reduce costs, minimize risk and become a more resilient organization.

Value returned:

- ✓ Productivity value
- ✓ Financial value
- ✓ Security value
- ✓ Material value
- ✓ Residual value

Repairability keeps value moving.

Enterprise devices shouldn't stop at being powerful and reliable on day one; they should be designed to stay that way for longer.

Repairable design is the key that unlocks the device lifespan loops and uncovers previously inaccessible value.

Opening the chassis opens up options.

A regenerative IT estate is only possible when IT teams have alternatives to replacing devices. But these options don't exist unless devices are designed to make them possible: with accessible internal design, easy-to-replace components, clear repair guidance and readily available parts. This design-phase innovation has the power to transform devices from sealed, depreciating assets into sources of ongoing value.

Repairability turns failure points into fresh starts.

In a repairable device, a failing component triggers repair, not retirement. So IT teams can preserve the capital, materials and performance potential already embodied in the device, while extending its useful life.

Repairability puts IT leaders back in control.

Repairability supports sustainability, but above all, it increases resilience and optionality. It gives IT leaders the ability to keep productive devices in use, intervene before replacement, redeploy assets with confidence and recover value when first life ends.



That's the power of Lenovo with Intel Inside®

Repairability in action.

Replaceable components extend useful life.

Selected Lenovo ThinkPad devices are designed with user-replaceable components including batteries and LPCAMM2 memory, extending lifespan and reducing refresh costs.

10 out of 10 for repairability.



Lenovo ThinkPad devices have been awarded 10/10 repairability scores by iFixit. With easy access, clear documentation and readily available spare parts, the ThinkPad T14 Gen 7 and T16 Gen 5 powered by Intel® Core™ Ultra 7 Series 3 processors, hand control back to IT teams.

Premium devices can be repairable too.

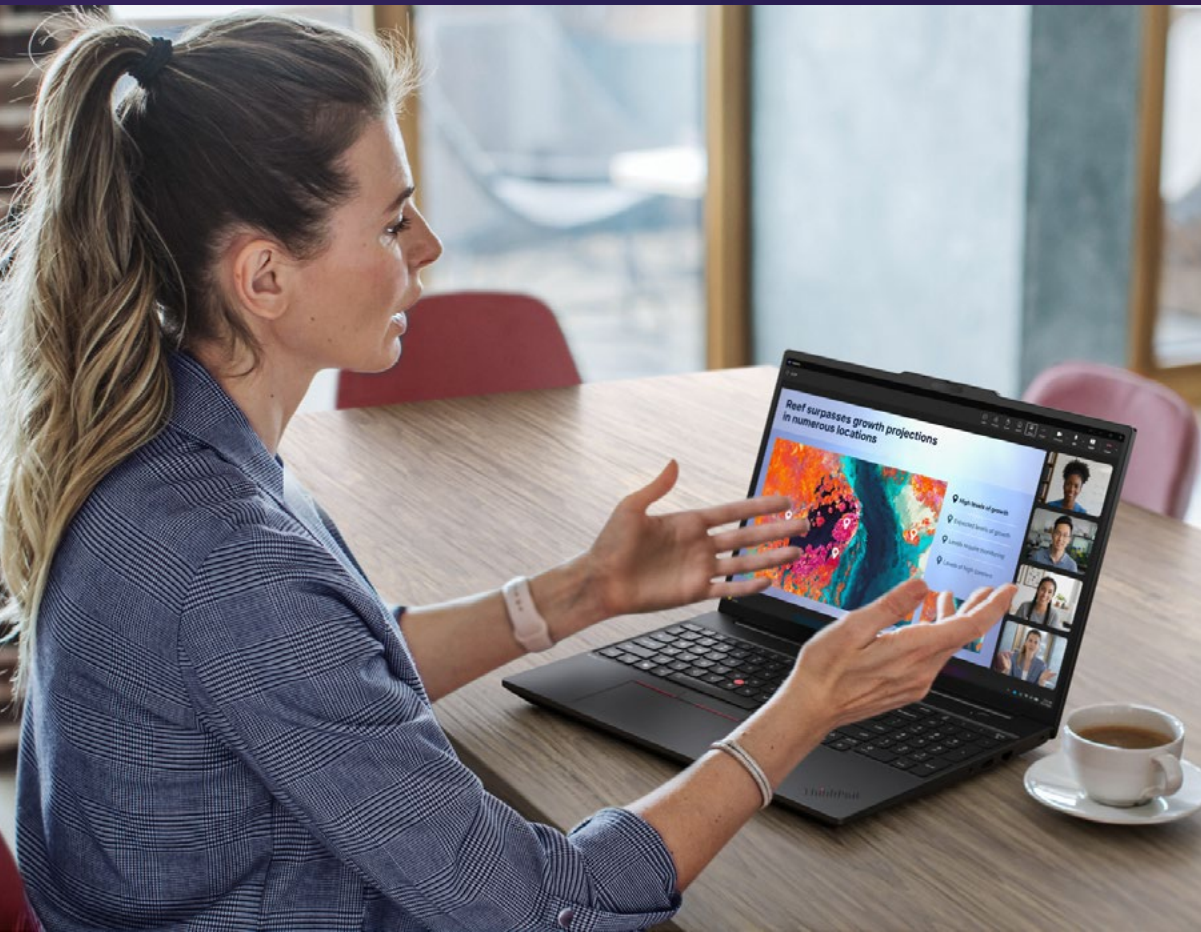
The ThinkPad X1 Carbon Gen 14 Aura Edition and X1 2-in-1 Gen 11 Aura Edition, powered by up to Intel® Core™ Ultra X7 Series 3 processors, achieved 9/10 iFixit repairability scores. Inside these premium devices, Lenovo's new Space Frame design optimizes performance and makes repairs easier, increasing lifetime value.



ThinkPad T16, powered by Intel® Core™ Ultra 7 Series 3 processors

Make regenerative IT operational.

Repairability makes regenerative IT possible. Services make it operational, with repeatable routes for repair, redeployment, refurbishment, recovery and reporting.



Three reframes that underpin regenerative IT.

1 RECOVERY ISN'T THE END.

With responsible recovery, end-of-life becomes a new beginning: parts get a second chance in redeployed devices, recovered materials become new products and residual value flows back into your IT estate.

300+

Lenovo products use recovered materials.⁶



2 SECOND LIFE CAN BE FIRST CHOICE.

Second life depends on trust. OEM-backed Lenovo Certified Refurbished Devices and Certified Refurbishment Services help ensure eligible technology is professionally restored, secure, supported and fit for purpose before redeployment

3 DATA DRIVES EVERY NEXT STEP.

Available information on device condition, performance, product carbon footprint, recovery outcomes and residual value can help inform the next best action.

How services support regenerative IT.

The right services help you operationalize regenerative IT across the device lifespinal.



Optimize performance:

Right-size your technology with Lenovo TruScale. Then optimize with energy-efficient devices, tools like Intel® Dynamic Tuning Technology, and efficient compute platforms like Intel® Core™ Ultra that maximize performance-per-watt.



Extend productive lifespan:

Lenovo Premier Support & Premier Support Plus and Lifecycle protection services. Extend lifespan with repairability-by-design.



Enable second life and recovery at scale:

Refurbish and redeploy devices with confidence using Lenovo Certified Refurbished Devices and Certified Refurbishment Services. Turn end-of-life into value return with Lenovo Asset Recovery Services.



Measure and improve:

Assess estimated IT emissions impact and uncover opportunities to reduce estimated emissions with AI-powered lifecycle intelligence through Lenovo Intelligent Sustainability Solutions Advisor (LISSA) and Sustainability Workshops.



Turn refresh cycles into value cycles.

Until now, IT leaders have managed devices for performance and refresh timing.

For regenerative IT to succeed, organizations must pivot to managing for lifecycle value. Are you ready to make the shift?



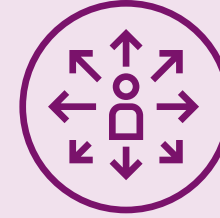
Disposable IT stops here.

The days of assessing devices on day-one capability alone are over.

With the arrival of repairable devices and regenerative IT, organizations can reduce cost, minimize risk and strengthen resilience through every loop of the device lifecycle.

Make regenerative IT everyone's business.

Change like this doesn't happen through a few isolated sustainability initiatives: it must be built into decision-making across procurement, IT operations, sustainability and vendor strategy.



Procurement teams must buy for lifecycle value, not just day-one capability.



IT operations must make repair, redeployment and recovery standard practice.



Sustainability teams must find practical ways to connect device decisions to Scope 3 goals.



Technology partners must move beyond the next transaction to support the full device lifespinal.

A stronger future starts with regenerative IT.

Make the shift, and your IT estate can become more resilient, measurable, resource-efficient and valuable.

Devices will no longer be disposable, depreciating assets waiting to be written off, but sources of continuing value built to perform better, work for longer and return value throughout their lives.

[Learn more](#)



Intel® Core™ Ultra X7 Series 3 processor

That's the power of Lenovo with Intel Inside®

- 1 [CarbonSet: A Dataset to Analyze Trends and Benchmark the Sustainability of CPUs and GPUs, Hu et al., 2025](#)
- 2 [Gartner Says AI PCs Will Represent 31% of Worldwide PC Market by the End of 2025, STAMFORD, Conn., August 28, 2025](#)
- 3 [How circular is the linear economy? Analysing circularity, resource flows and their relation to GDP, Amir Rashid, 2025](#)
- 4 Compared to AMD Ryzen™ AI 9 365. As measured by processor power with Zoom 1x1 call with AI background effects. See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
- 5 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.
- 6 Le Monde, La petite révolution du reconditionné, February 2025.

© 2026 Intel Corporation. All rights reserved.

Intel, the Intel logo, and Intel Core are trademarks of Intel Corporation or its subsidiaries.

©2026, Lenovo Group Limited. All rights reserved.

All offers subject to availability. Lenovo reserves the right to alter product offerings, prices, specifications or availability at any time without notice. Models pictured are for illustration purpose only. Lenovo is not responsible for typographic or photographic errors. Information advertised has no contractual effect. Lenovo ThinkPad, ThinkCentre, ThinkStation, ThinkVantage, and ThinkVision are trademarks of Lenovo.

Smarter
technology
for all

Lenovo