

CDI Presentation

Seagate Technologies

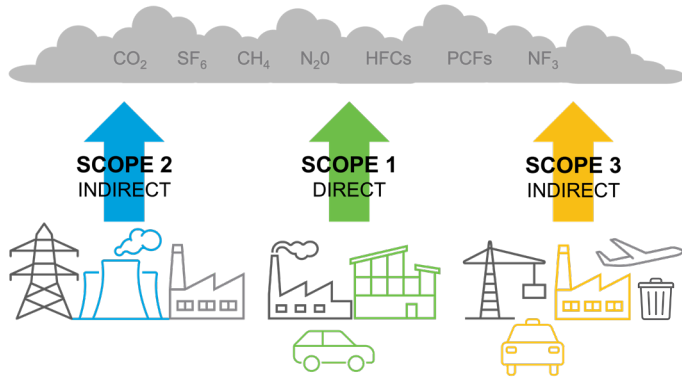
Jason Zimmerman

Senior Director Product Line Management

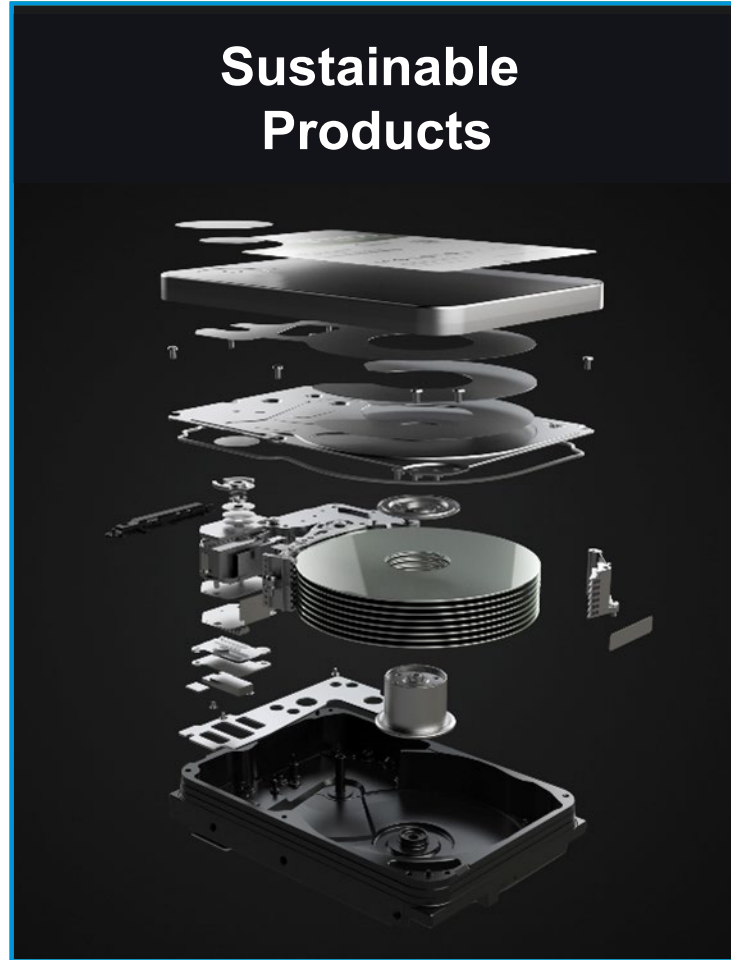


Our Strategies to Create a Sustainable Datasphere

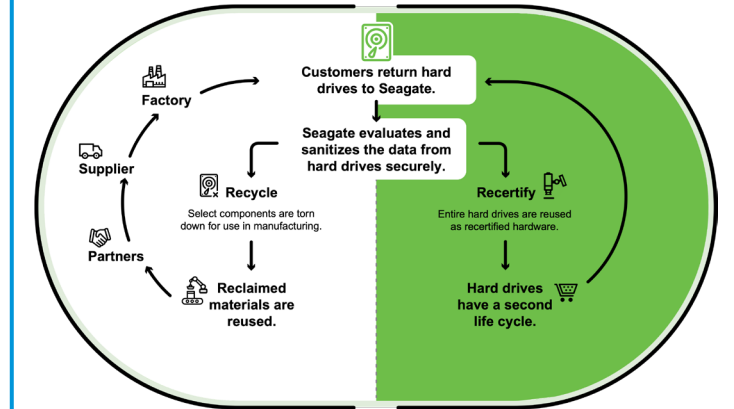
Sustainable Operations



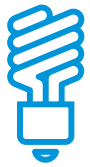
Sustainable Products



Sustainable Circularity



FY2023 Environmental Progress Seagate Progress



**55%
Power**

Renewable Energy



**87% Solid
Waste**

Diverted from
Landfills



**1.2
Million**

Drives
Recovered



**1.3
Metric Tons**

Scrap Magnets
Recycled



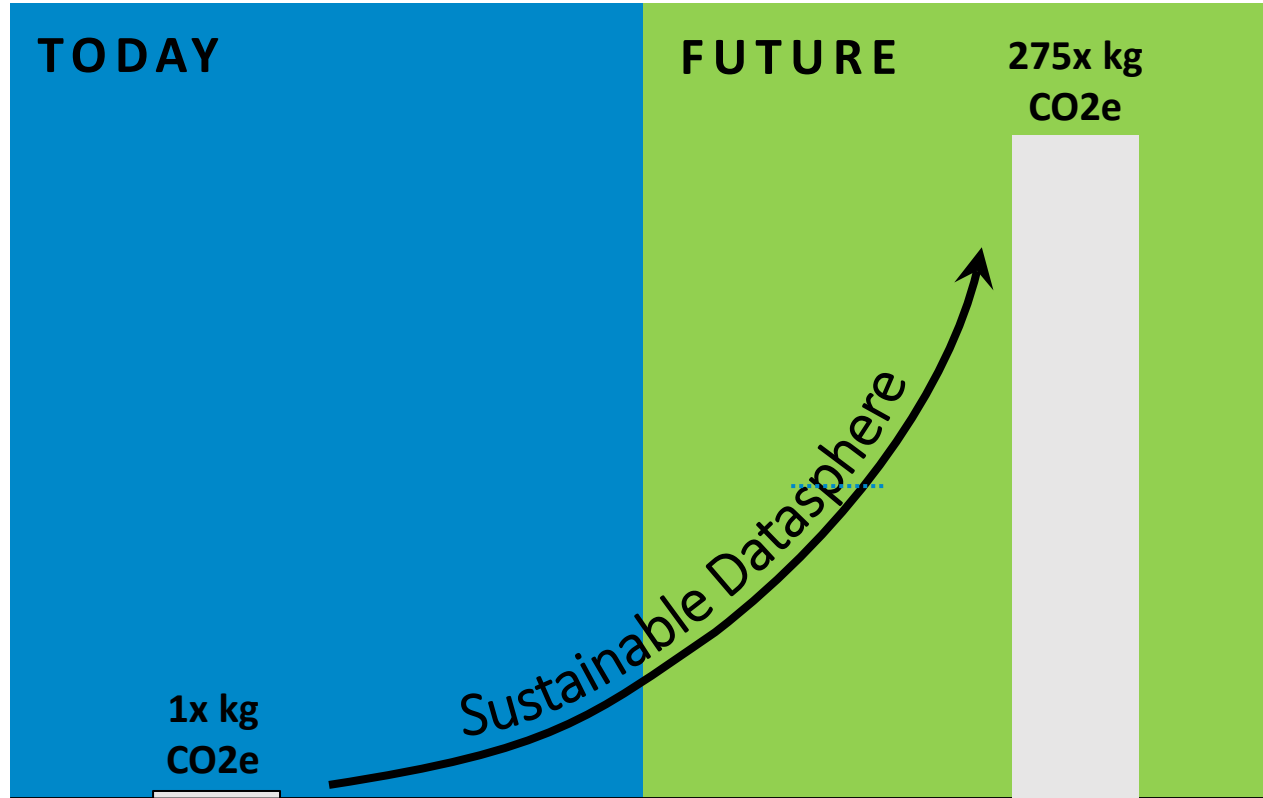
**43.2
Metric Tons**

Aluminum Recycled



Hard Drive Reuse: 275x Larger Impact than Recycling

Security is major challenge



Recover
Materials

Reuse
Hard Drive



Jin, H., Frost, K., Sousa, I., Ghaderi, H., Bevan, A., Zakotnik, M. and Handwerker, C., 2020. Life cycle assessment of emerging technologies on value recovery from Hard Drives. *Resources, Conservation and Recycling*, 157, p.104781.

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REFERENCE

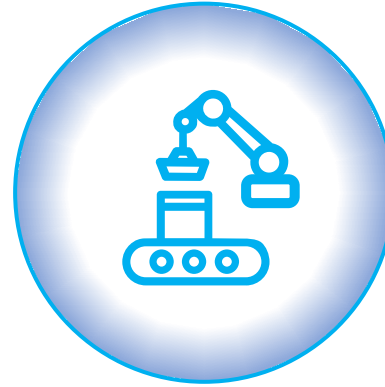
Hard Drives Deliver the Scale Needed for AI



Economies of Scale

> 6x lower

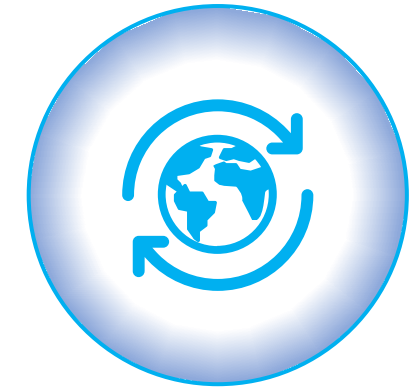
Acquisition cost than SSDs, enabling optimized TCO for AI.¹



Exabyte Production at Scale

9x better

CapEx efficiency than the NAND industry.²



Sustainability at Scale

4x less operating power

10x lower EB/TB

Embodied Carbon (EB) per TB.³

1. Seagate's analysis based on *Forward Insights Q323 SSD Insights, Aug. 2023*; *IDC Worldwide Hard Disk Drive Forecast 2022-2027, Apr. 2023*, Doc. #US50568323; *TRENDFOCUS SDAS Long-Term Forecast, Aug. 2023*.
2. Seagate analysis of Yole Intelligence NAND Market Monitor, Q4 2023, CY2015-CY2023 compared to Seagate financials. Capex Efficiency: NAND 43%; Seagate 5%
3. Hotcarbon.org MS Azure white paper, SSD Storage Rack vs. Hard Drive Storage Rack: [A call for research on Storage Emissions](#).



“Take-make-waste” consumption model is unsustainable. We build our hard drives to last.



Recertify,
Repair,
Recycle

Sustainability Driven



Minimizing
e-waste

Circularity Driven



Stop
Hard Drive
Shredding

Mindset Driven



Product Design, Life
Cycle,
Data Durability and
Security

Technology Driven



Let's Drive To Do Better. Together.



**Make a
Difference**



**Be an Industry Conservation
Leader**



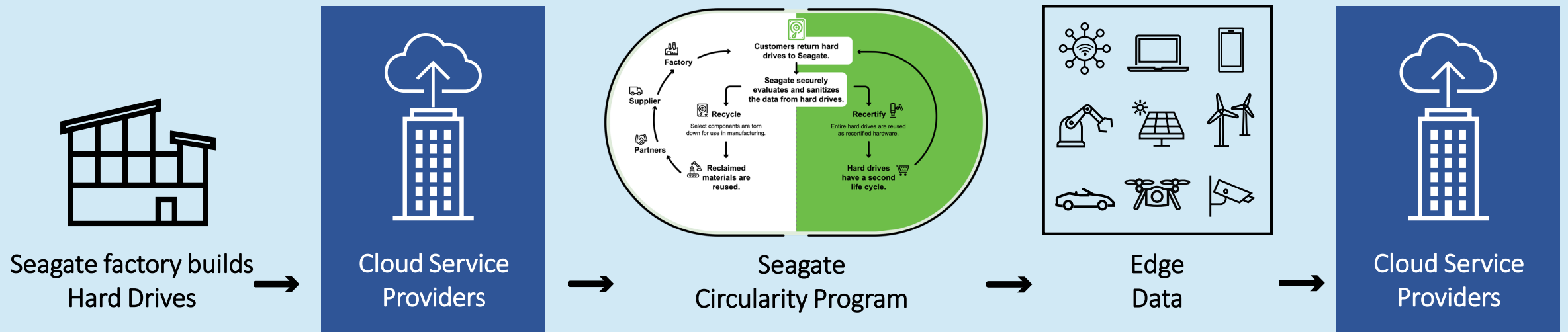
**Move at the
Speed of Trust**



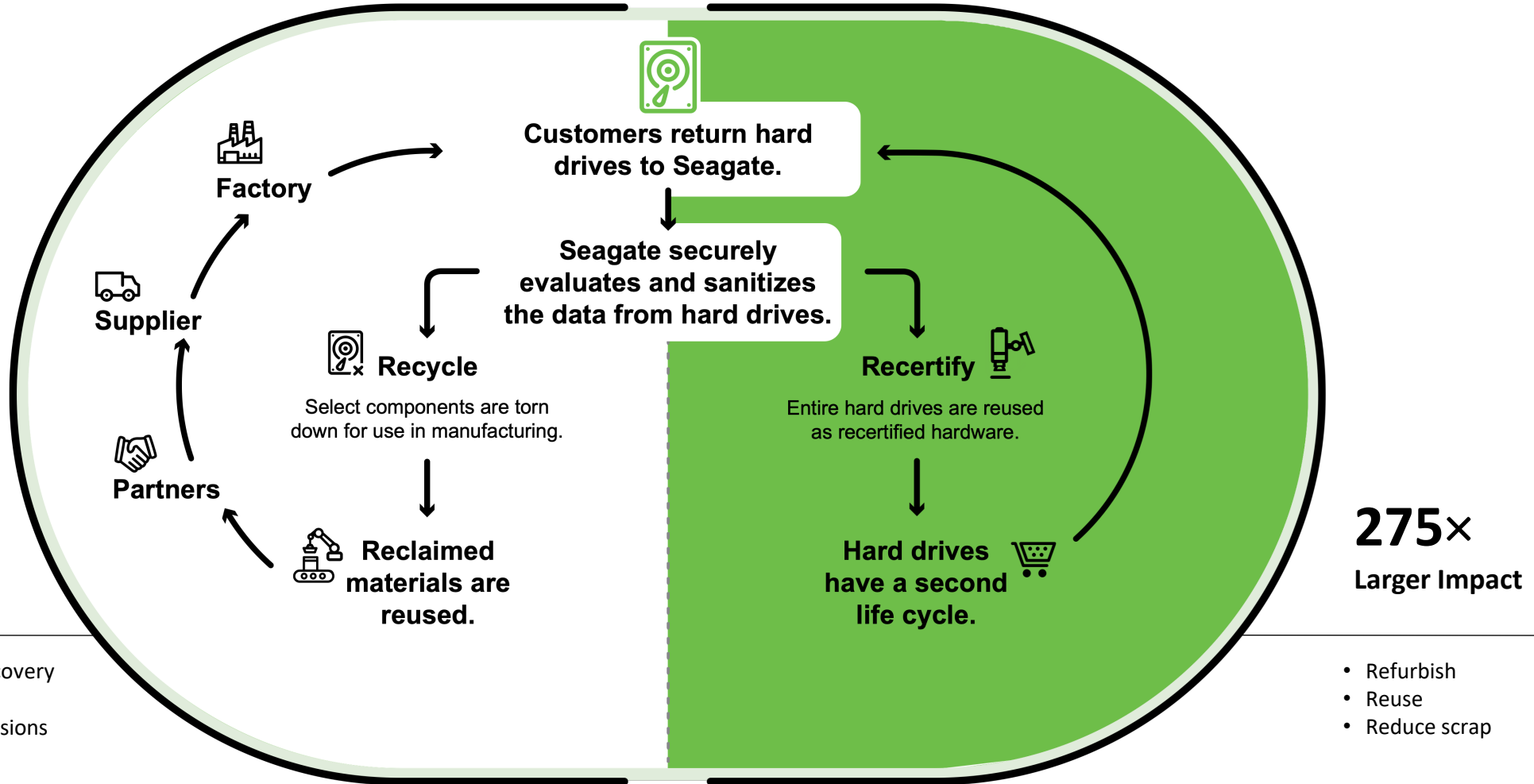
**Enhance
TCO**



Hard Drive Circularity Fuels Data Growth from Edge to Cloud



Sustainable Circularity



275x
Larger Impact

- Scrap material recovery
- Reduce waste
- Reduce GHG emissions

- Refurbish
- Reuse
- Reduce scrap



Hard Drive

Circularity

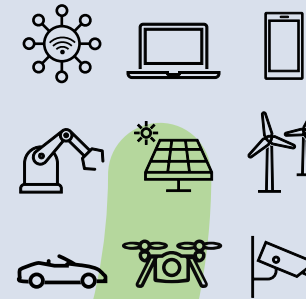


1st Life

Cloud Service Providers



Sustainable Datasphere



Edge - Data

2nd Life



Used

Recertify & Repair



90%

Recycle 10%

New



Factory

Reuse: 275x Larger Impact than Recycling

Data Security and Sustainability

Enabling the circular economy.



**Provides secure
data sanitization**



**Provides secure disposition
of data and devices leading
to refurbish, reuse, recover,
and recycle**

