

Report

Life Cycle Assessment of TechM

Quantifying the full environmental footprint of our operations—from manufacturing through end-of-life across 89,000+ assets in 92 countries.

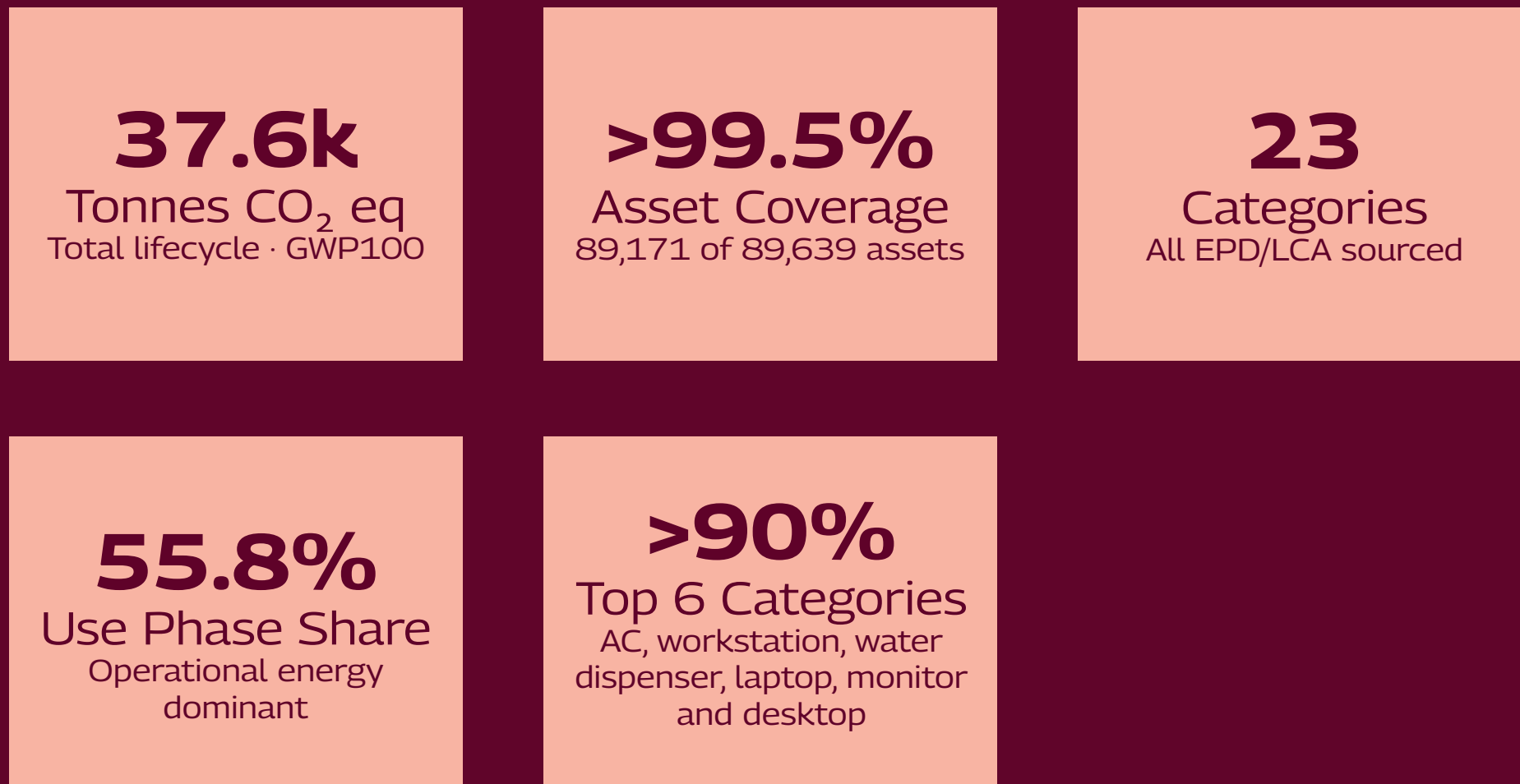
FY 2025-26



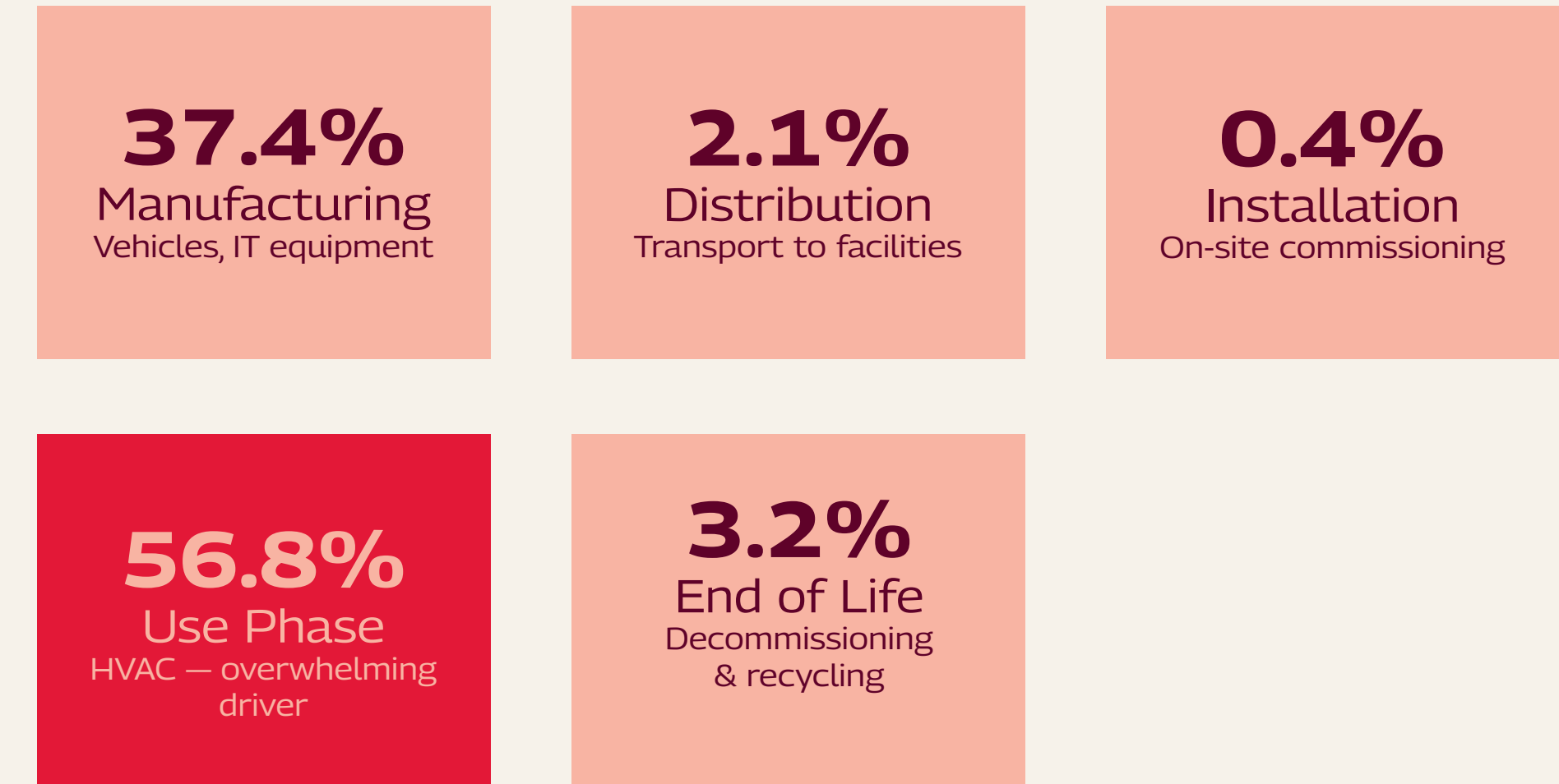
At a glance

Our Lifecycle Footprint

As an IT services company, our environmental impact is embedded in the physical assets that power service delivery, not in a manufactured product. This assessment covers the full cradle-to-grave lifecycle of our capital goods inventory in accordance with ISO 14040:2006, ISO 14044:2006, and ISO 14067:2018, representing the most complete picture of our operational environmental profile to date.



Lifecycle stage breakdown Climate Impact (GWP100)



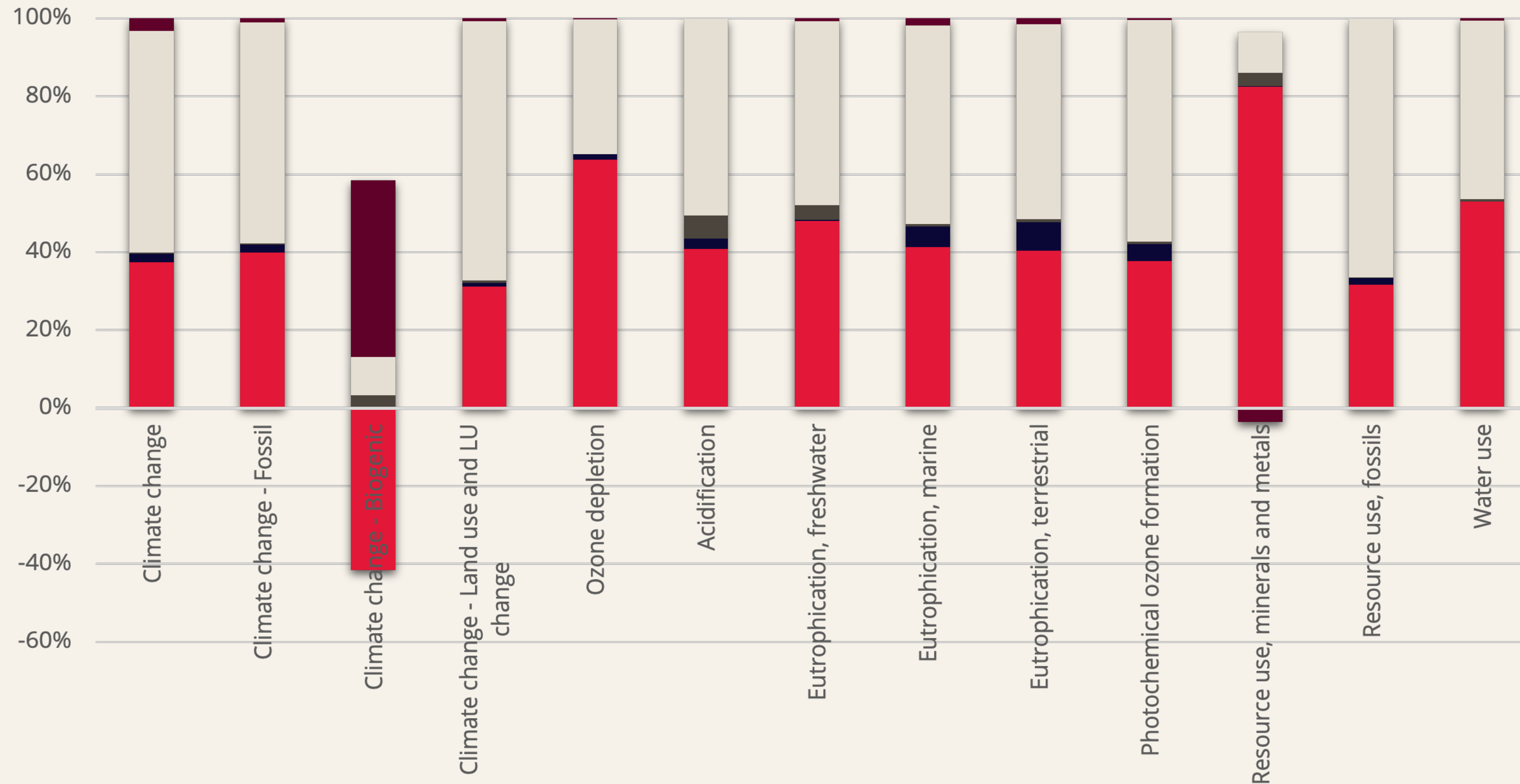
The use phase (56.8%) is driven primarily by long-life energy-intensive assets, air conditioning systems (22-year life). Manufacturing at 37.4% reflects the embodied carbon of high-volume asset categories: laptops/desktops/monitors, chairs, and workstations.

Category deep-dive

Where the Impact Concentrates

The analysis indicates that the use phase is the dominant contributor across most environmental impact categories, particularly climate change, acidification, eutrophication, photochemical ozone formation, resource use (fossils), and water use. The manufacturing phase is the second-largest contributor, while distribution and installation have only a limited contribution across most indicators. A few impact categories, such as ozone depletion and climate change - biogenic, show a relatively higher influence from non-use stages, including end-of-life, compared with the overall trend.

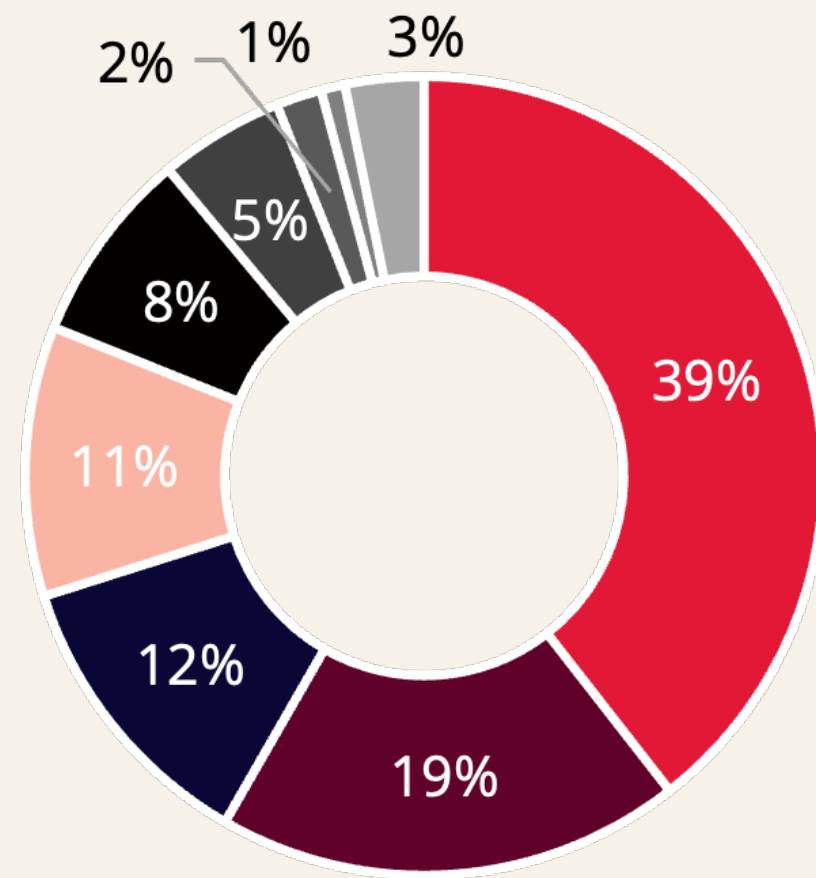
Stage-wise Contribution Across All Impact Categories



■ Manufacturing ■ Distribution
■ Installation ■ Use ■ End of life

Air conditioning systems alone account for 39% of total lifecycle GHG—a single asset category with only 1,142 units drives nearly the entire portfolio footprint. This creates an unusually concentrated and actionable decarbonization agenda.

Portfolio GHG Contribution by Asset Category (%)



- Air Conditioner System Airconditioners
- Work Stations
- Water Purifier/Water Cooler Water Filter/Water Dispensers
- Laptop
- Desktop
- Monitors
- Chairs
- Vehicles
- Others

Key Strategic Insights

HVAC: SINGLE DOMINANT DRIVER

Air conditioning systems (1,142 units, 22-year life) account for 39% of total portfolio GHG – a concentration level that makes decarbonization strategy unusually clear. Every unit of renewable energy or HVAC efficiency improvement directly reduces this figure.

USE PHASE: 56.8% OF PORTFOLIO

The use phase is the dominant lifecycle stage across nearly all 23 product categories. Every percentage point of renewable energy procurement directly reduces this share.

MANUFACTURING: EMBODIED CARBON

Manufacturing at 37.4% reflects the embodied carbon of high-volume assets: chairs, workstations, ACs and 50,000+ IT devices.

IT DEVICES: THE INVERSE

Laptops, desktops, and headsets represent over 55% of the assessed fleet by count yet contribute under 23% of total lifecycle GHG. The decarbonization focus must be long-life energy-intensive assets, not the IT estate.

Total Environmental Profile

Impact Category	Total Value	Unit
Climate Change—Total (GWP100)	3.76E+07	kg CO ₂ eq
of which: Fossil	3.72E+07	kg CO ₂ eq
of which: Biogenic	3.06E+05	kg CO ₂ eq
of which: Land Use & LU Change	3.37E+04	kg CO ₂ eq
Ozone Depletion	4.41E+00	kg CFC-11 eq
Acidification	2.42E+05	mol H ⁺ eq
Eutrophication: Freshwater	8.96E+03	kg P eq
Eutrophication: Marine	3.88E+04	kg P eq
Eutrophication: Terrestrial	4.49E+05	mol N eq
Photochemical Ozone Formation	1.43E+05	kg NMVOC eq
Resource Use: Minerals & Metals	2.33E+03	kg Sb eq
Resource Use: Fossils	6.14E+08	MJ
Water Use	9.84E+06	m ³ depriv.

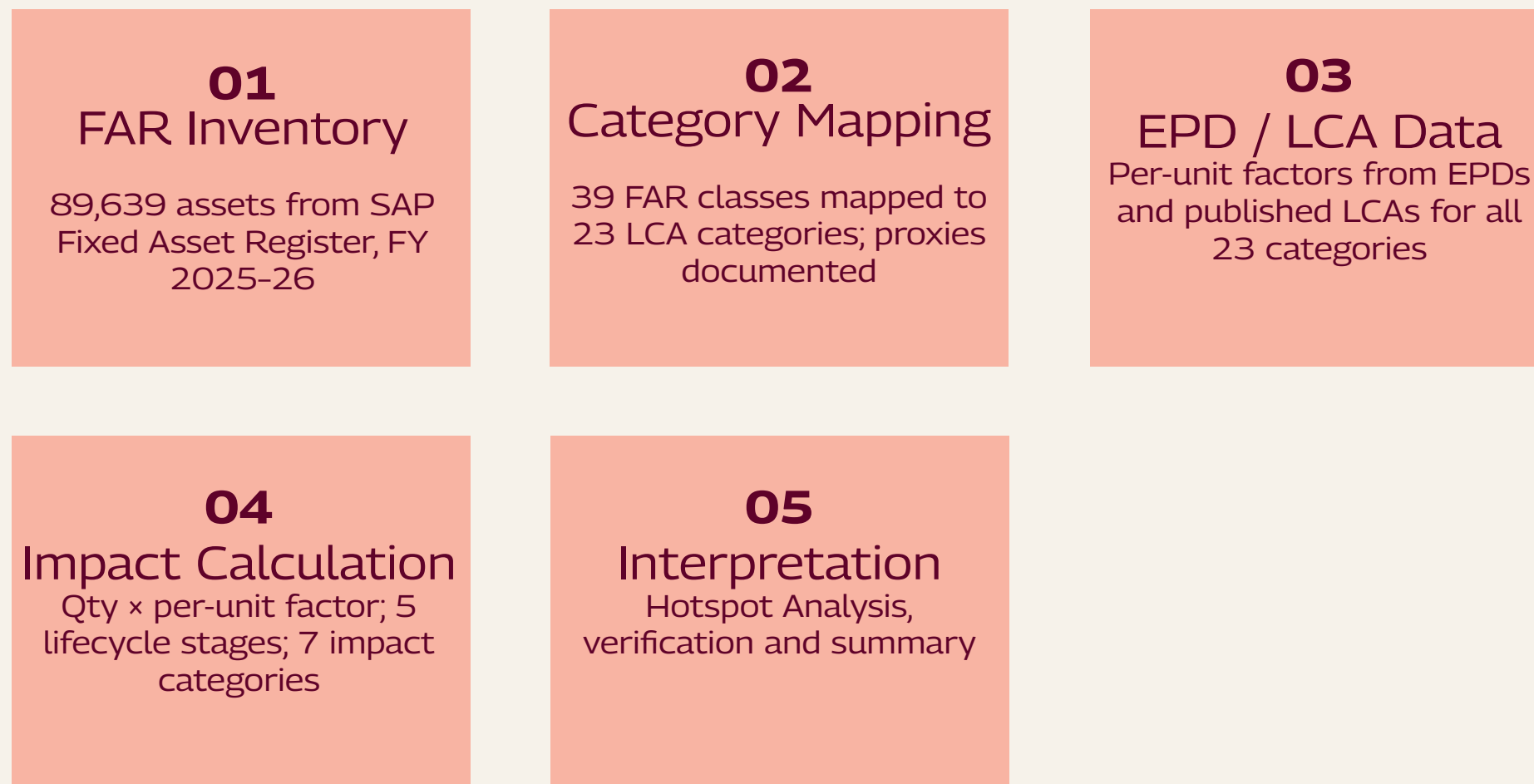
Fossil-origin GHG accounts for 98.8% of the climate change total. The biogenic component reflects temporary carbon storage in wood-based furniture assets (chairs, workstations, tables, sofa sets). Ozone depletion is manufacturing-dominant — driven by HFC refrigerant content in HVAC units as manufactured, distinct from operational leakage tracked in Scope 1 GHG.

Our approach

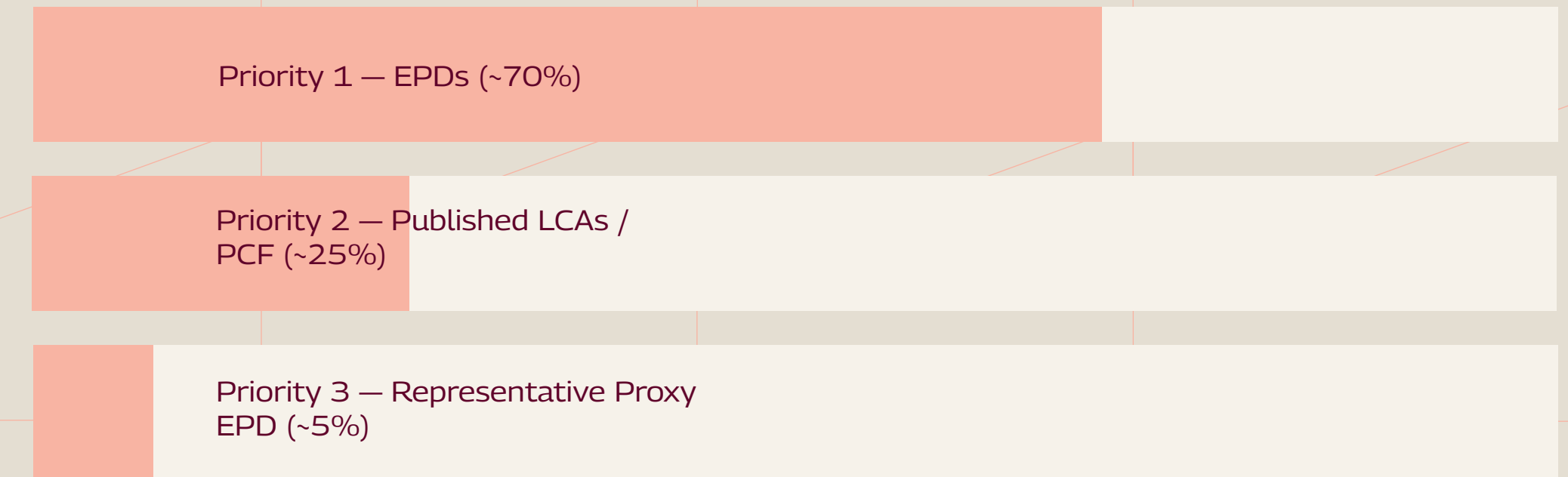
Methodology and Data Quality

As an IT services company, our environmental impact is embedded in the physical assets enabling service delivery. We apply the capital goods proxy approach, ISO 14044-endorsed for service-sector LCA, covering the full cradle-to-grave lifecycle across 23 product categories from the Fixed Asset Register.

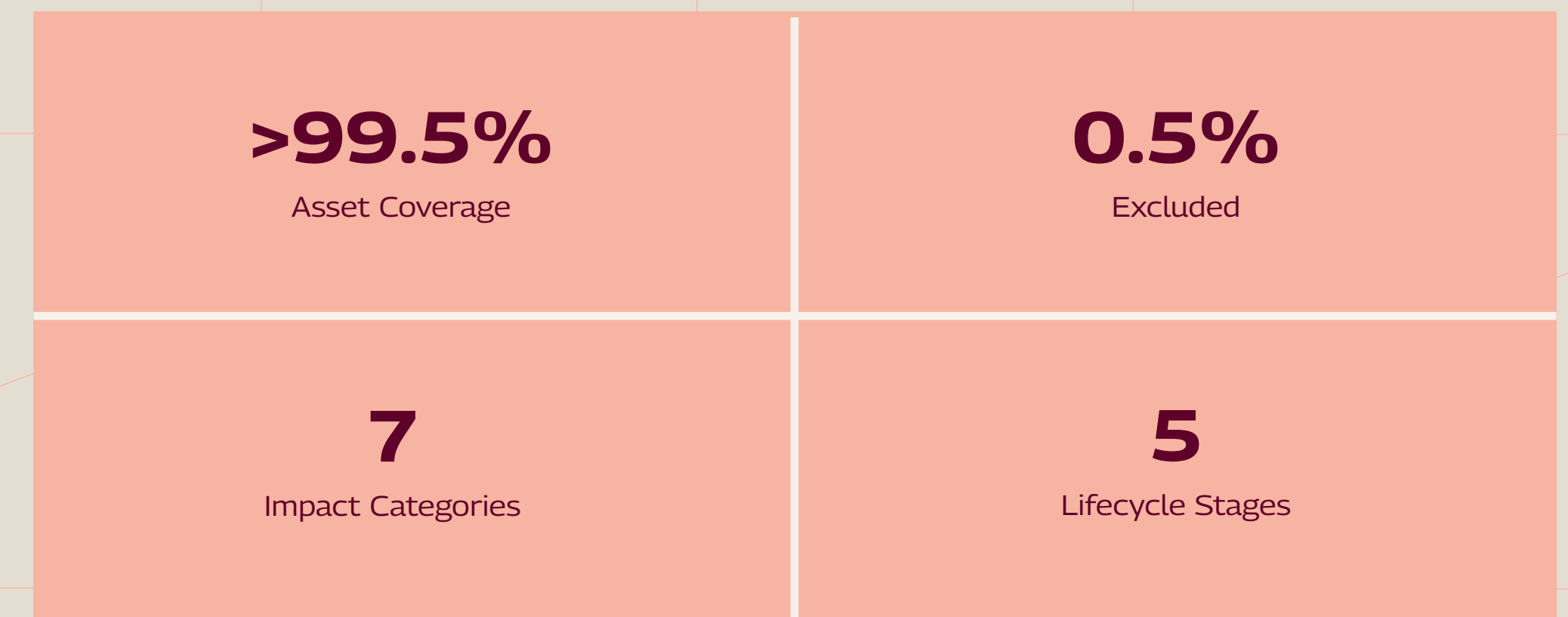
Assessment Process



Data quality hierarchy



Data quality hierarchy



Standard: ISO 14040/14044 · Boundary: Cradle-to-Grave

System Boundary—Lifecycle Stages Covered

Module	Stage	Description
A1-A3	Manufacturing	Raw material extraction, component production, final assembly
A4	Distribution	Transport from manufacturer to Tech Mahindra facility
A5	Installation	On-site installation
B1-B6	Use Phase	Use-stage impacts over the reference service life
C1-C4	End of Life	Decommissioning, waste processing, recycling, disposal

What we are doing

Turning Insights into Action

The LCA results provide a clear basis for prioritising decarbonisation measures across the asset portfolio. The findings indicate that the most material opportunities lie in reducing use-phase energy demand, particularly from HVAC systems and other long-life infrastructure, while also addressing embodied carbon in manufacturing-intensive categories such as workstations, chairs, and IT devices. The actions below translate the assessment into a practical and phased roadmap.

Horizon	Action	LCA Rationale	Theme
1	Prioritise HVAC efficiency improvement across major facilities	Air conditioning systems account for the single largest share of lifecycle GHG emissions, with impacts concentrated in the use phase over a long service life	Energy Efficiency
2	Increase renewable electricity procurement for offices and operational infrastructure	The use phase contributes 56.8% of lifecycle climate impact, making cleaner electricity the highest-impact intervention	Renewable Energy
3	Integrate lifecycle criteria into procurement of high-impact asset categories	Manufacturing contributes 37.4% of portfolio emissions, particularly from chairs, workstations, AC systems, and IT devices	Green Procurement
4	Develop preferred low-carbon specifications for HVAC, workstations, and furniture	Embodied carbon from infrastructure and furniture categories is a major contributor to manufacturing-stage emissions	Low-Carbon Design
5	Embed LCA into sustainable workplace and infrastructure design standards	Long-life energy-intensive assets drive a disproportionate share of impacts; design-stage choices influence lifecycle performance	Sustainable Infrastructure
6	Build a recurring LCA refresh process using FAR and updated asset data	The asset-based LCA approach is highly actionable and can serve as an annual decision-support tool	Governance & Reporting
7	Transition from proxy-based datasets to greater use of primary supplier and operational data	Improved primary data will enhance accuracy, comparability, and suitability for external disclosure and assurance	Data Quality
8	Establish a lifecycle-informed decarbonisation roadmap focused on infrastructure emissions	The portfolio footprint is concentrated in use-phase infrastructure rather than asset count, enabling targeted long-term reduction planning	Decarbonisation Strategy

Strategic Alignment

Net Zero FY 2034-35
SBTi Validated · 1.5°C Pathway

90% RE by FY30
Primary use-phase GHG lever

Efficient Systems
HVAC, and IT equipments

Sustainable procurement
Lower-impact assets, local sourcing

Circularity & Zero Waste
ZWL certification and end-of-life optimisation

About Tech Mahindra

Tech Mahindra (NSE: TECHM) offers technology consulting and digital solutions to global enterprises across industries, enabling transformative scale at unparalleled speed. With 147,000+ professionals across 90+ countries helping 1100+ clients, Tech Mahindra provides a full spectrum of services including consulting, information technology, enterprise applications, business process services, engineering services, network services, customer experience & design, AI & analytics, and cloud & infrastructure services. It is the first Indian company in the world to have been awarded the Sustainable Markets Initiative's Terra Carta Seal, which recognises global companies that are actively leading the charge to create a climate and nature-positive future. Tech Mahindra is part of the Mahindra Group, founded in 1945, one of the largest and most admired multinational federation of companies. For more information on how TechM can partner with you to meet your Scale at Speed™ imperatives, please visit <https://www.techmahindra.com/>.



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