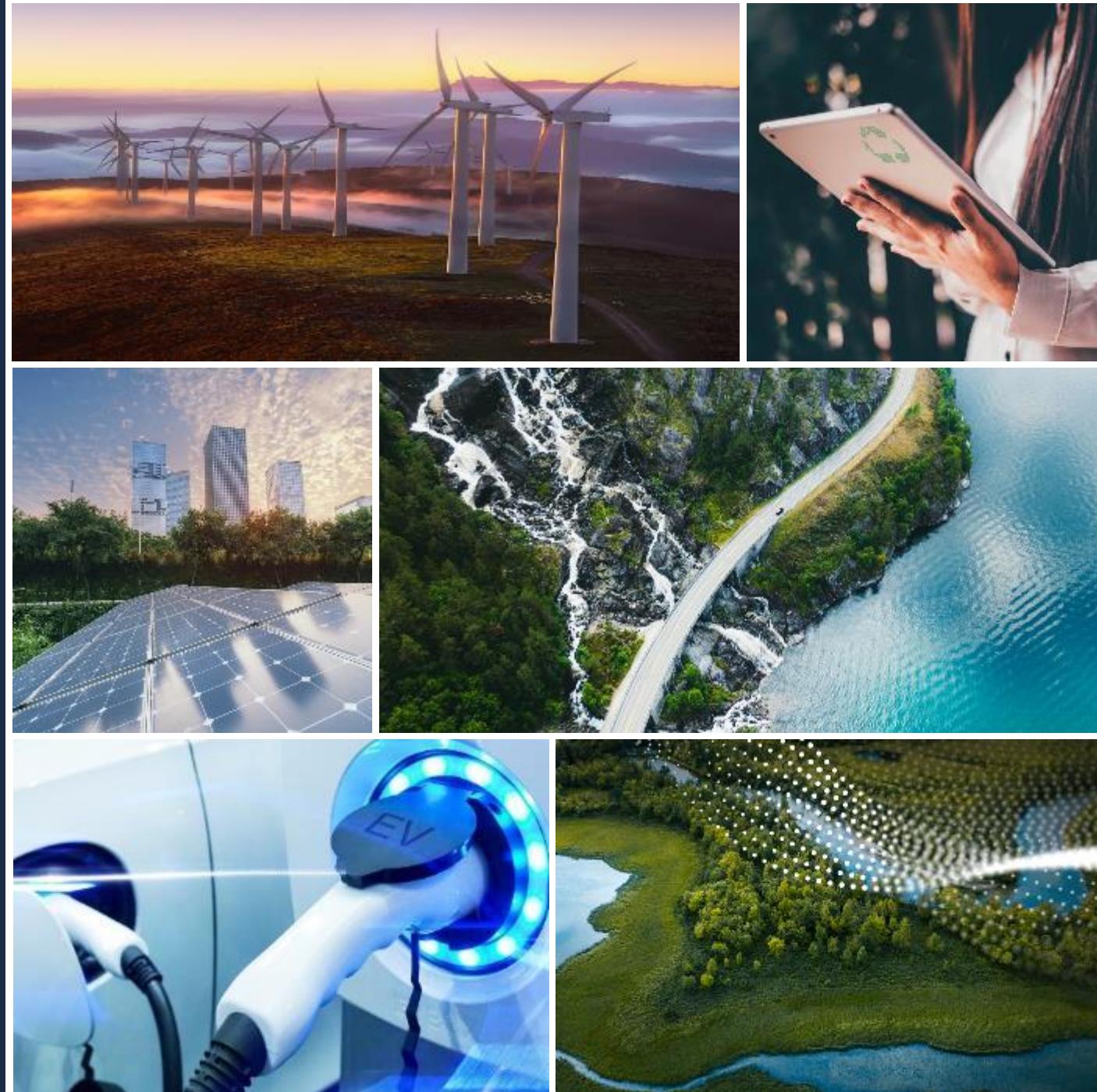




Microsoft Cloud
for Sustainability

Module 1 – In a Day Training





Our sustainability story



- Sustainability and Carbon context & concepts
- Microsoft's Sustainability journey
- Microsoft Cloud for Sustainability
 - Microsoft Sustainability Manager
 - Logical Architecture
- Microsoft Sustainability Manager Demo



Sustainability Context and Concepts

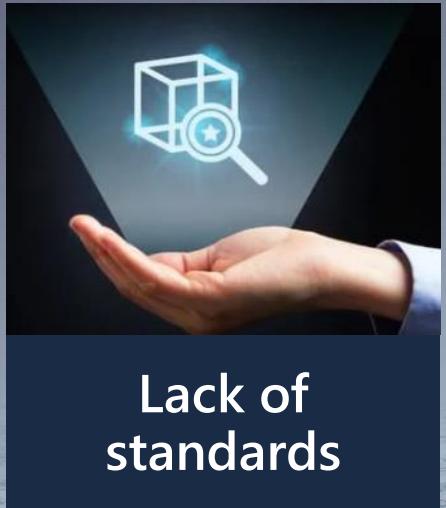


- Sustainability drivers and challenges
- Definitions and concepts
- Emission sources and CO₂e
- Emission scopes
- Reduction targets and goals
- Emission factors and estimation factors

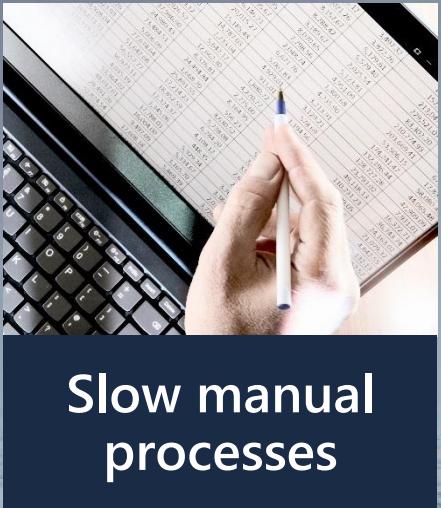
Our climate, our future



Sustainability challenges



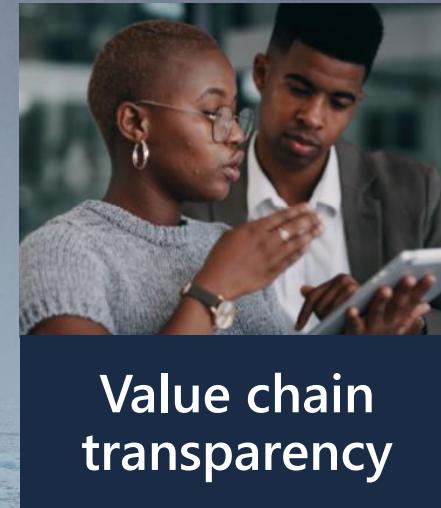
Lack of
standards



Slow manual
processes



Siloed data



Value chain
transparency

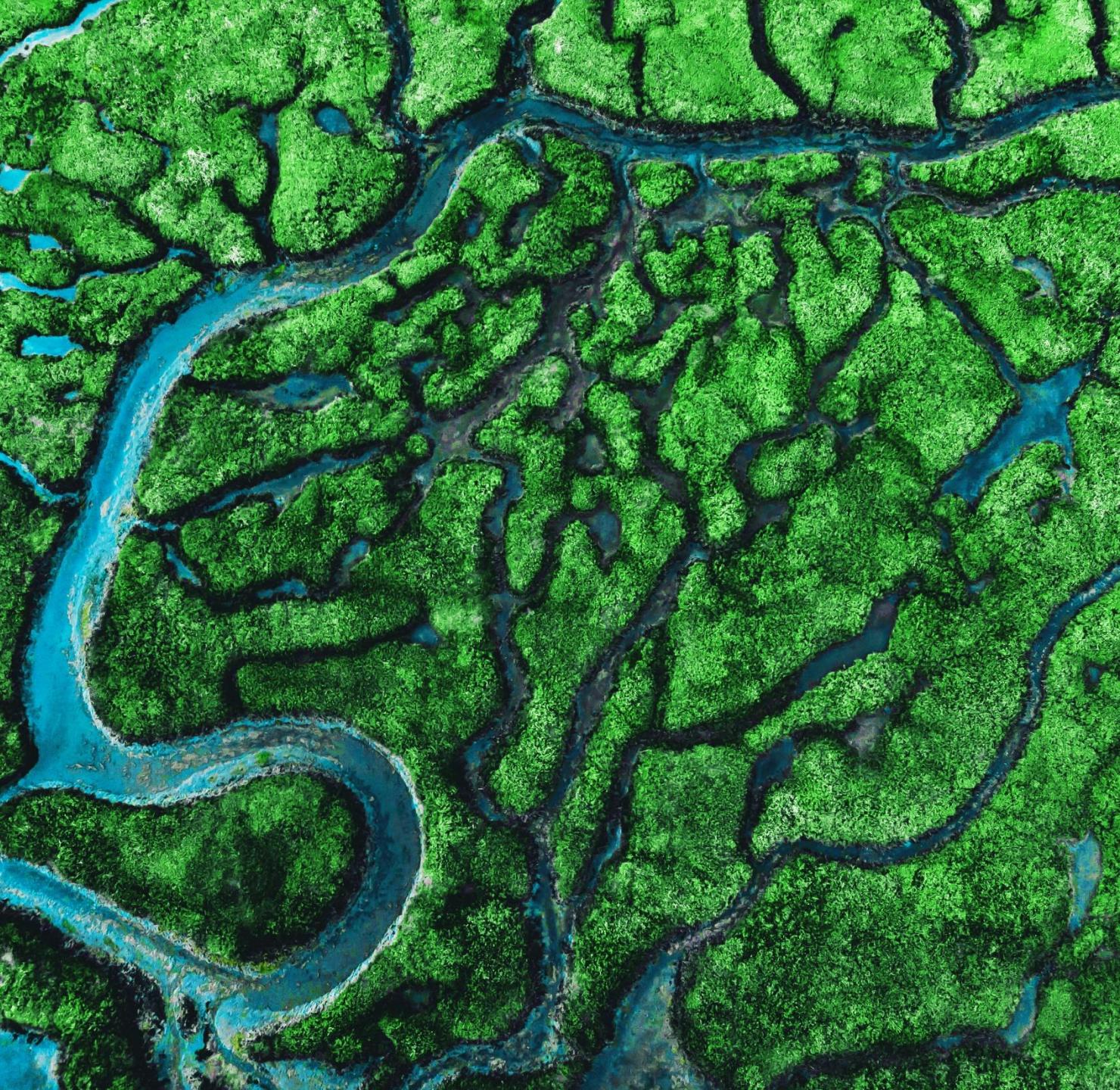


Transformation requires a data-first approach



Achieve data integrity and visibility
across Scope 1, 2, and 3 emissions

Definitions and concepts

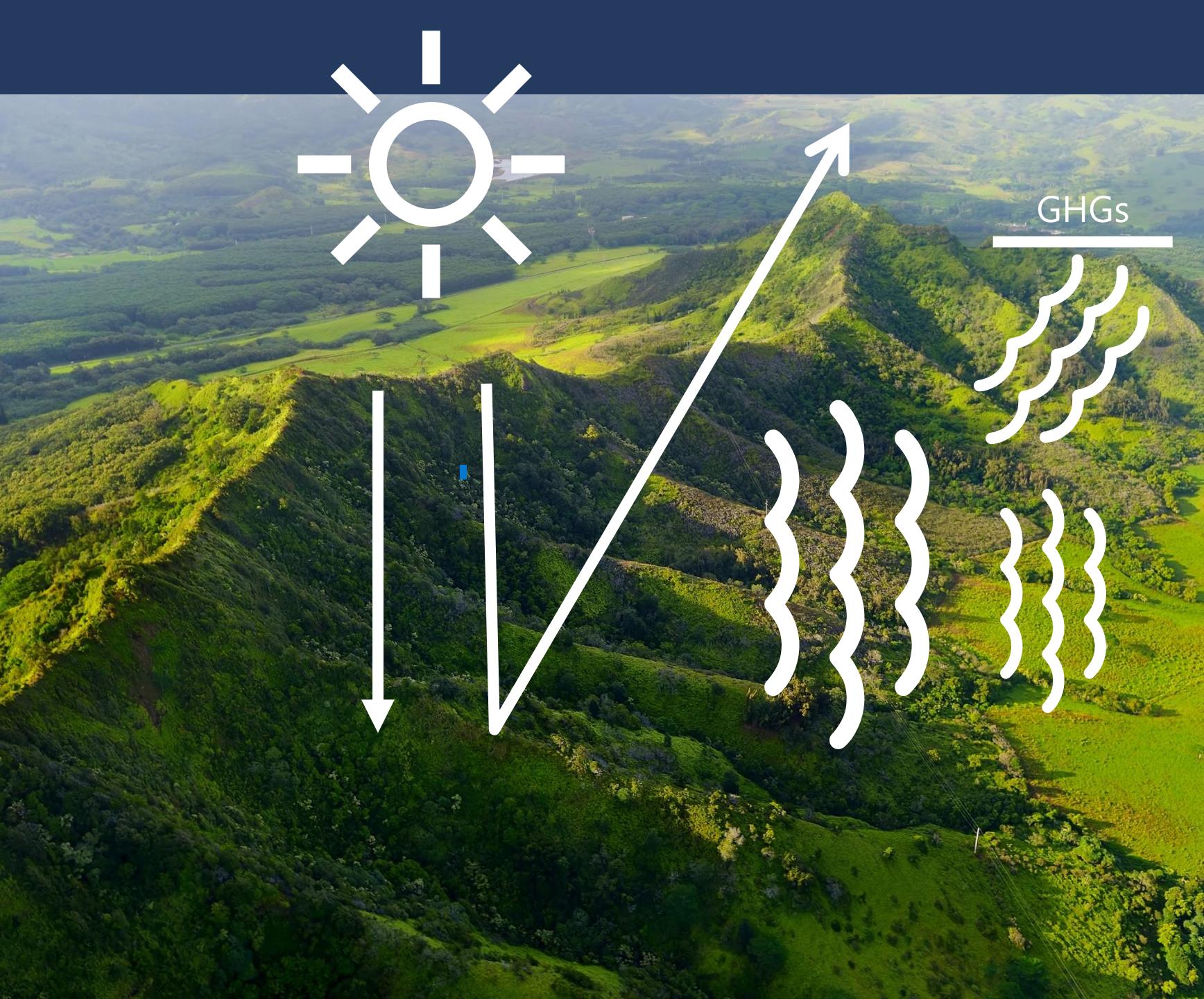


The greenhouse effect

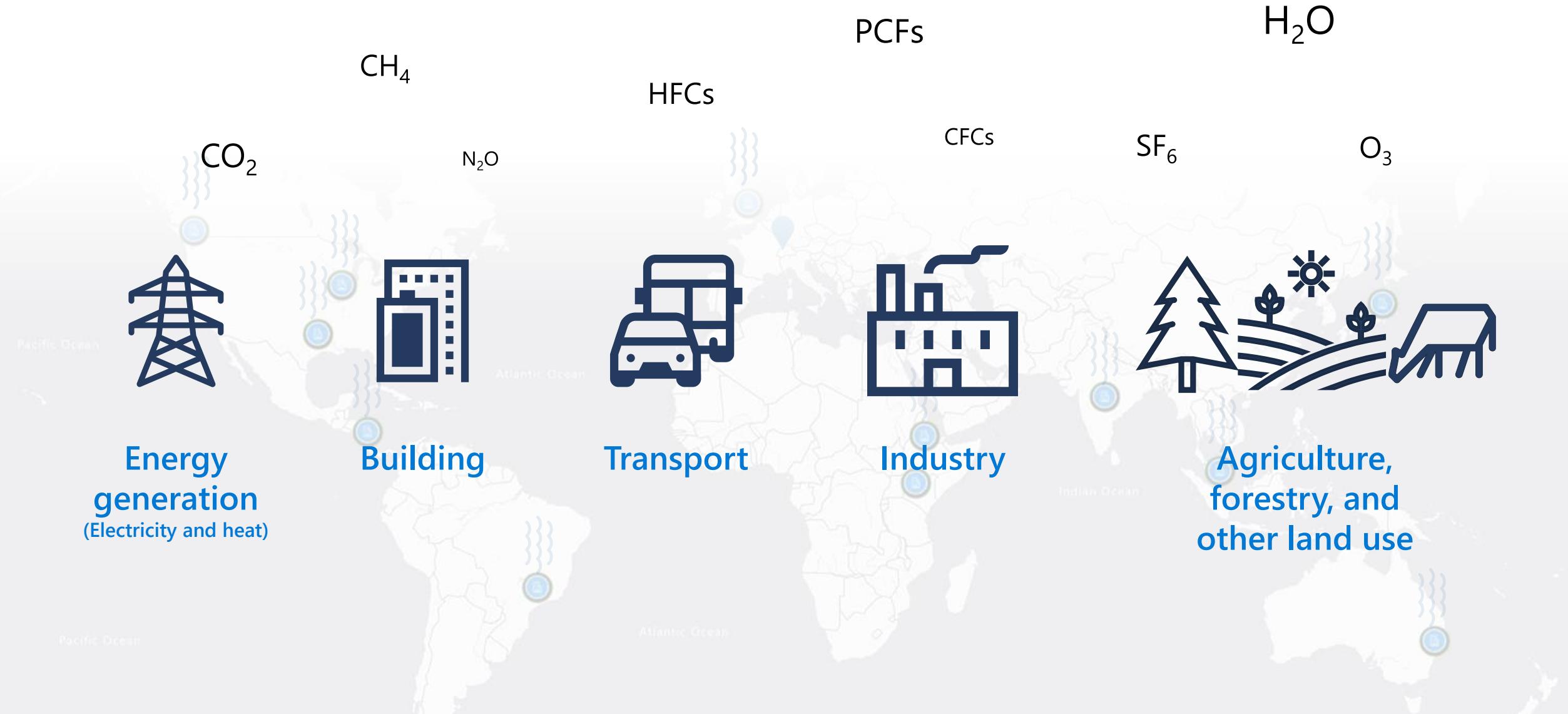
Greenhouse gases (GHGs) trap heat from the sun inside Earth's atmosphere

Human activities release more carbon dioxide (CO_2) into the atmosphere than ecosystems can recycle

Trapped heat causes climate change



Sources of emissions



Carbon dioxide equivalent (CO₂e)

A unified metric for multiple greenhouse gases

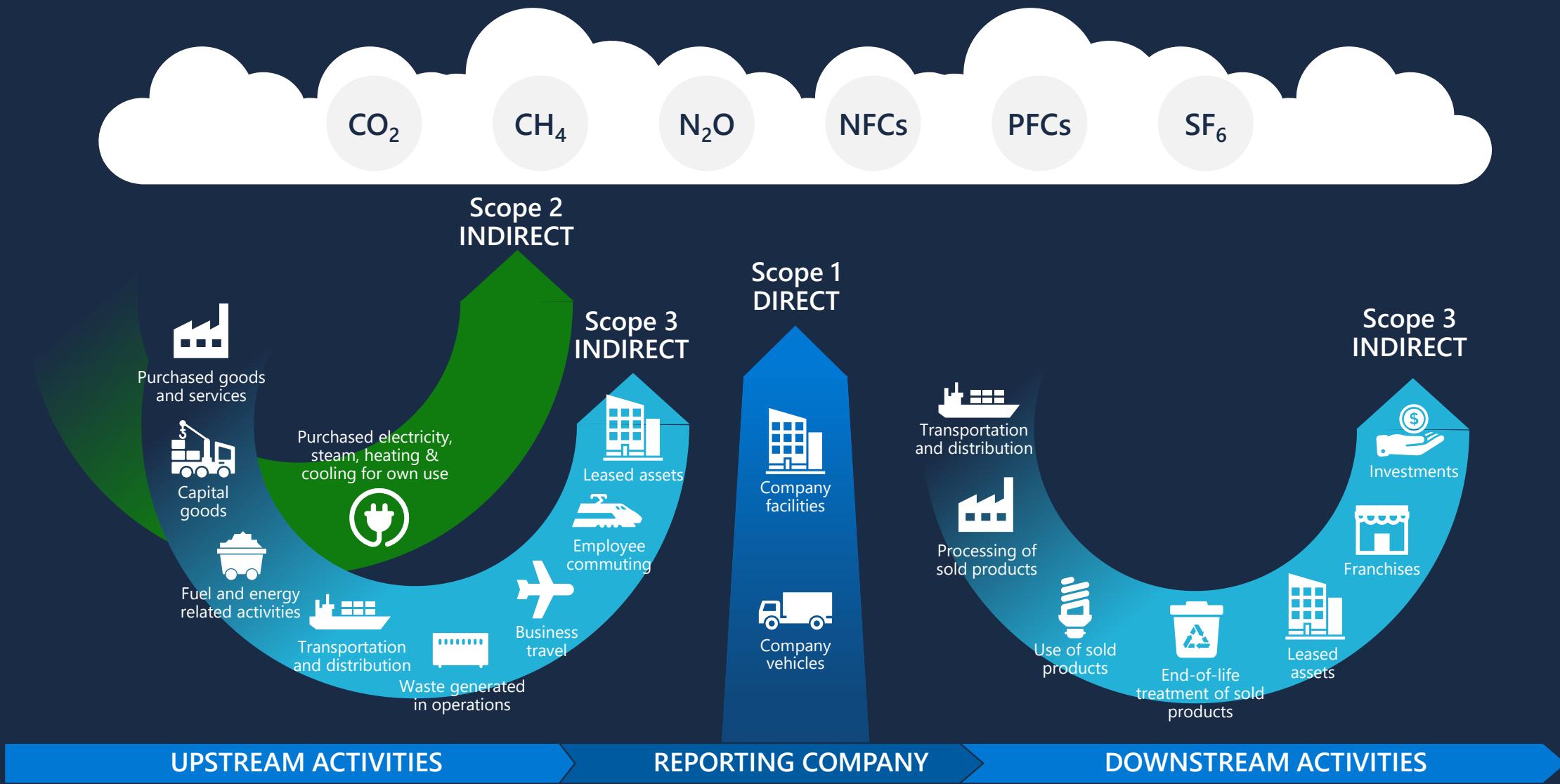
Different human-emitted gases cause global warming at varying intensities and timescales

- Carbon Dioxide (CO₂)
- Methane (CH₄)
- Nitrous Oxide (N₂O)
- Refrigerant Gases (HFCs, PCFs and CFCs)
- Sulphur Hexafluoride (SF₆)
- Water Vapor (H₂O)
- Ozone (O₃)

Global warming potential (GWP) is the potency with which each gas traps heat from the sun

Sustainability Manager uses GWP to convert an organization's multifaceted emissions into carbon dioxide equivalent (CO₂e)

Scopes and emissions across the value chain



What are emission targets?

Carbon targets

Carbon neutral: A company becomes carbon neutral by reducing their emissions and/or paying others to not emit an equivalent of their remaining emissions.

Carbon net zero: An organization is considered net zero carbon when it removes as much carbon as it emits.

Carbon negative: A company is carbon negative when it removes more carbon than it emits each year.

Visit ghgprotocol.org
for more information

Understanding the math behind net-zero carbon

Watch the video:

[Aka.ms/carbonmathvideo](https://aka.ms/carbonmathvideo)



Sustainability definitions

Greenhouse Gas Emissions (GHG) measurement

Scope

1



Direct emissions created by your activities, like exhaust from company vehicles or diesel generators

Scope

2



Indirect emissions from the production of electricity or heat you use to power buildings or processes

Scope

3



Indirect value chain emissions from all other activities in which you're engaged, including all parts of your supply chain, from materials in buildings, business travel, and product lifecycle to the electricity your customers consume

Carbon targets

Carbon neutral: A company becomes carbon neutral by reducing their emissions and/or paying others to not emit an equivalent to their remaining emissions.

Carbon net zero: An organization is considered net zero carbon when it removes as much carbon as it emits.

Carbon negative: A company is carbon negative when it removes more carbon than it emits each year.

For more information, visit ghgprotocol.org or watch the Microsoft [carbon math video](#)

The background of the slide is a high-angle aerial photograph of a winding river. The river's path is visible as a dark blue-grey line through a landscape of dense green trees and shrubs. The terrain appears rugged and hilly. The overall scene conveys a sense of natural beauty and environmental stewardship.

For resources and information about
Microsoft Sustainability Manager, visit

aka.ms/sustainabilityhub



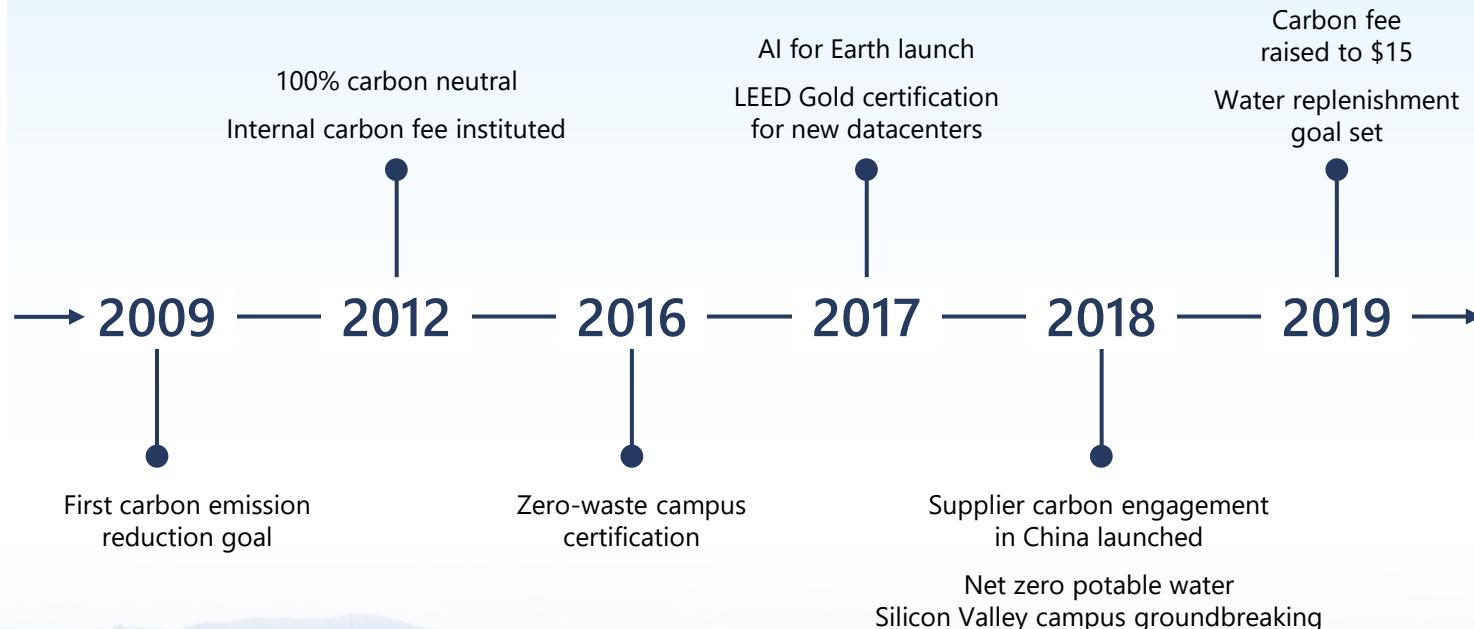
Session 2: Microsoft Cloud for Sustainability Solution Story



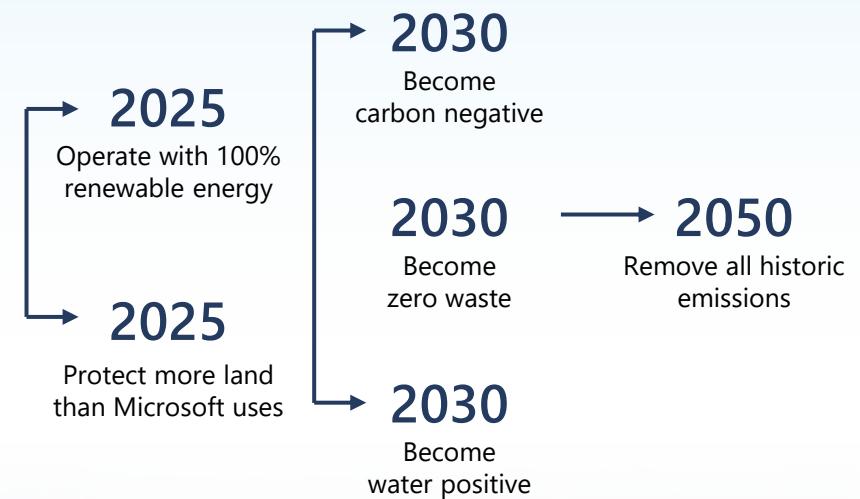
- Microsoft's sustainability journey
- Microsoft Cloud for Sustainability
 - Microsoft Sustainability Manager
 - Record, report, and reduce emissions

Decades of action

Our history 2009-2019



Our commitments 2020-2050





Microsoft Cloud
for Financial Services



Microsoft Cloud
for Healthcare



Microsoft Cloud
for Manufacturing



Microsoft Cloud
for Nonprofit



Microsoft Cloud
for Retail



Microsoft Cloud for Sustainability

Microsoft Cloud



Modern
work



Business
applications



Infrastructure



Digital and
app innovation



Data & AI



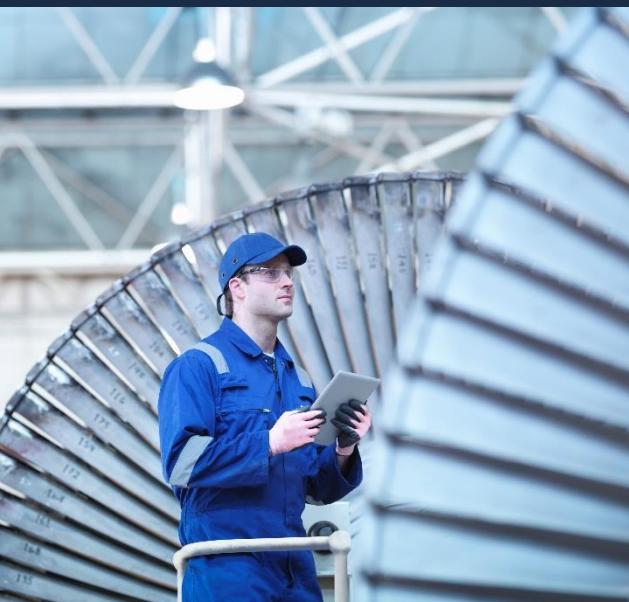
Security

The most trusted and comprehensive cloud

Microsoft Cloud for Sustainability accelerates sustainability progress and business growth



Unify data
intelligence



Build a sustainable
IT infrastructure



Reduce environmental
impact of operations



Create sustainable
value chains





Unify data intelligence



Gain the visibility required to effectively drive sustainability reporting, sustainability efforts, and business transformation

Data integration and calculation

Streamline data ingestion, integration, and calculations

Reporting, disclosure, and automated insights

Analyze and report environmental impact and sustainability progress



Build a sustainable IT infrastructure



Identify opportunities to replace tools, systems, or activities with more efficient options and add business value

Workload migration to the cloud

Create carbon and energy efficiencies in the cloud

Responsible devices

Adopt technologies that are sustainable by design



Reduce environmental impact of operations



Minimize the environmental footprint of your operational systems and processes

Smart facilities

Reduce the environmental impact of buildings, spaces, and equipment

Energy management

Create energy efficiencies and transition to clean energy

Collaboration and planning

Enable seamless collaboration about goals and progress



Create sustainable value chains



Facilitate greater transparency and accountability through your value chain, from raw materials to product creation to distribution

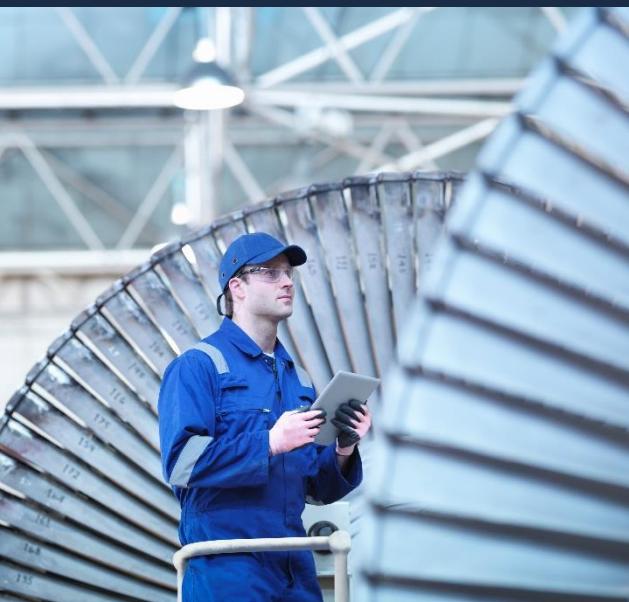
Value chain visibility

Increase value chain transparency

Microsoft Cloud for Sustainability accelerates sustainability progress and business growth



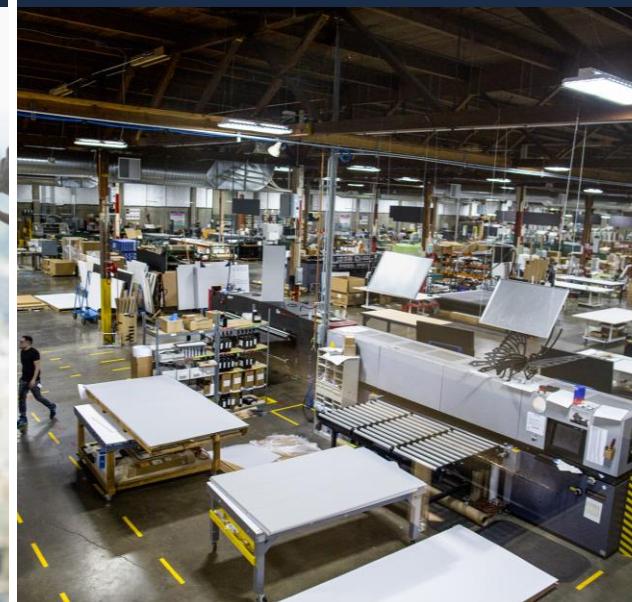
Unify data
intelligence



Build a sustainable
IT infrastructure



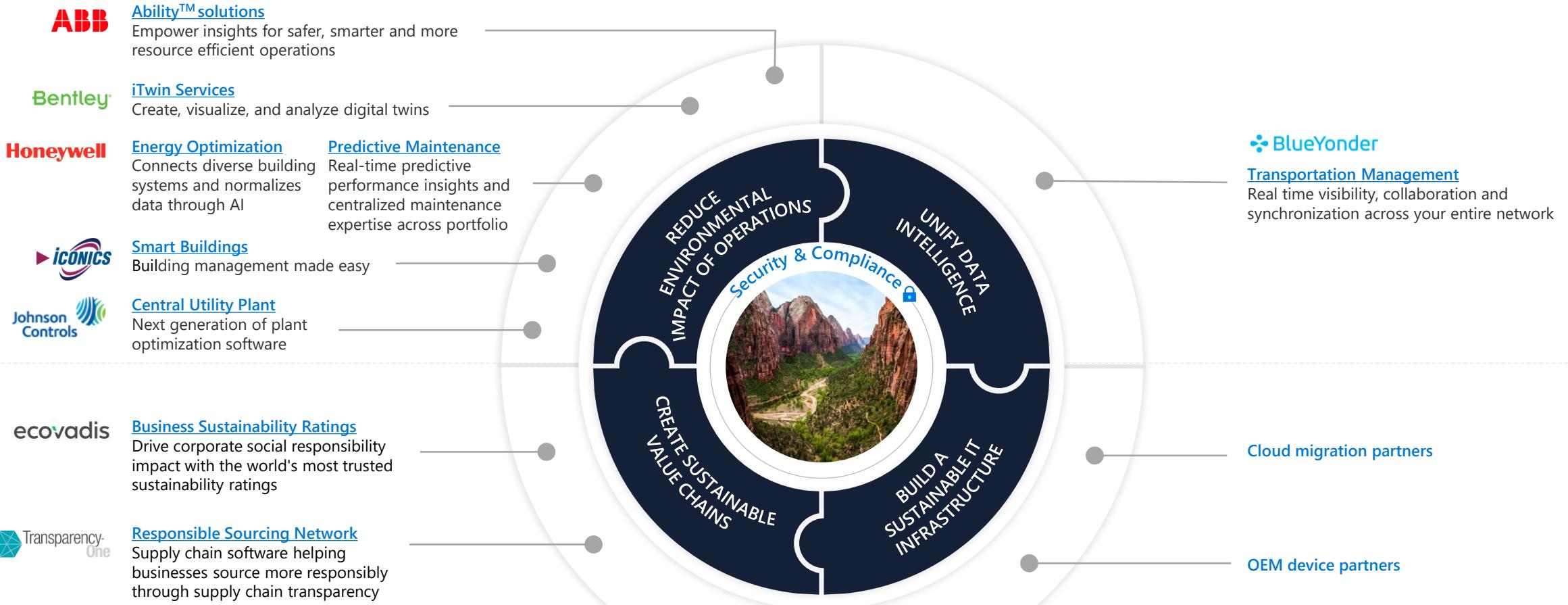
Reduce environmental
impact of operations



Create sustainable
value chains



Microsoft Cloud for Sustainability partner solutions

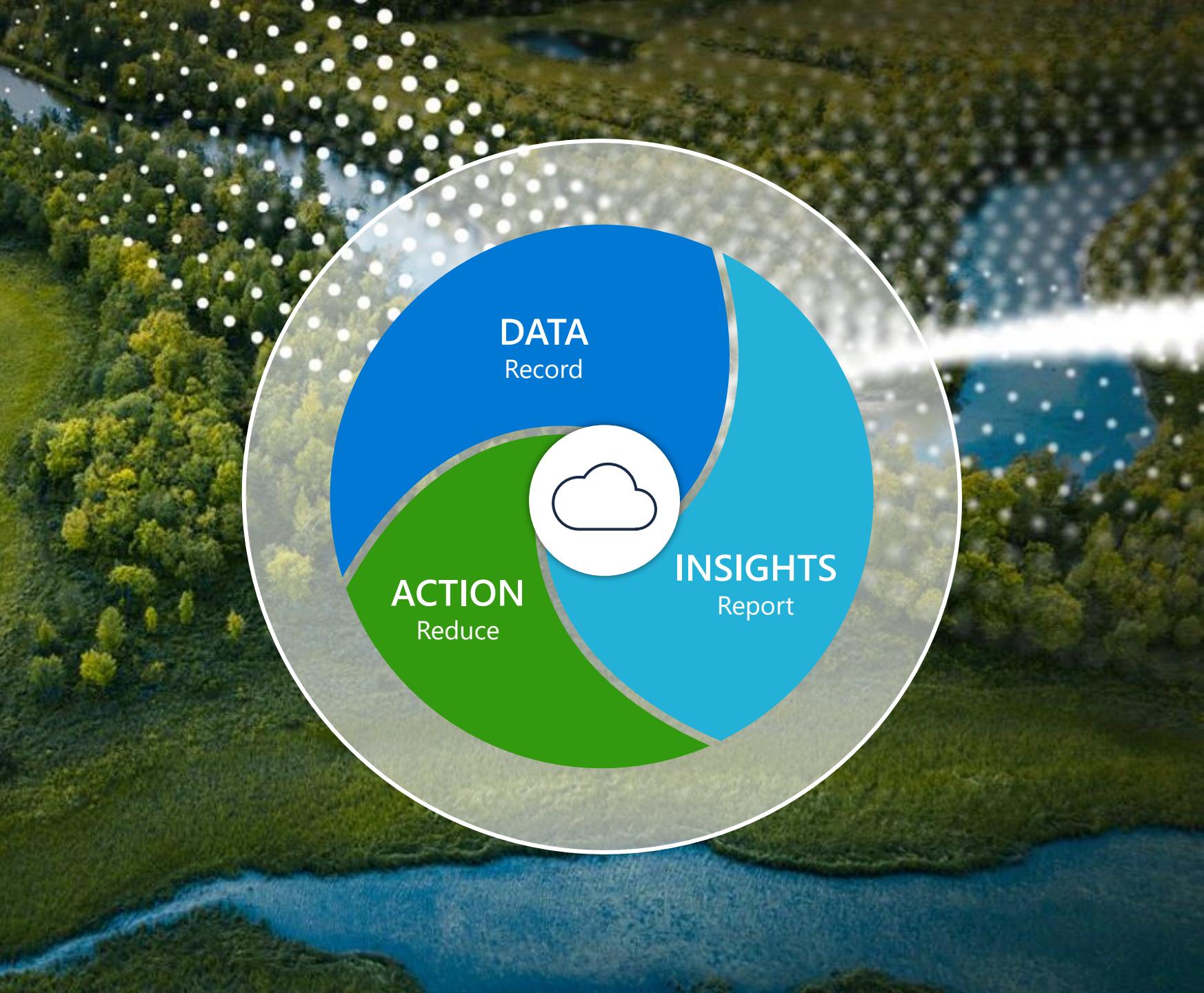


Global system integrators and advisory partners:



Microsoft Sustainability Manager

Unify data intelligence
to help you
monitor and manage
your sustainability
performance





Record data



Automate data collection



Break down data silos with
Microsoft Cloud for Sustainability
data model



Calculate emissions
across scopes



Generate more
accurate results



Report insights



Visualize
your impact



Track your performance
against goals



Gain actionable insights
to maximize progress



Share results with
stakeholders and agencies



Reduce your footprint



Set and track
sustainability targets



Develop a roadmap
based on data

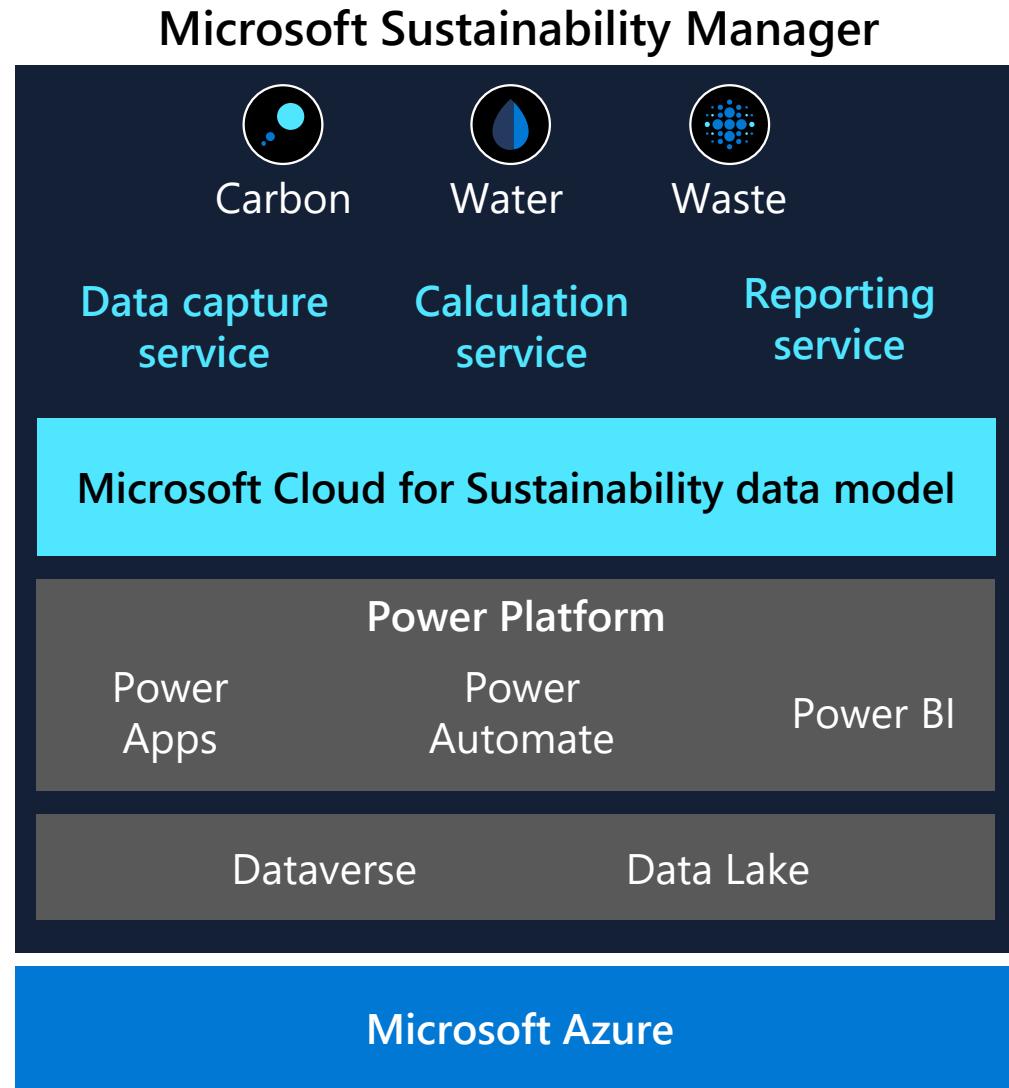


Use analytics to improve
reduction activities

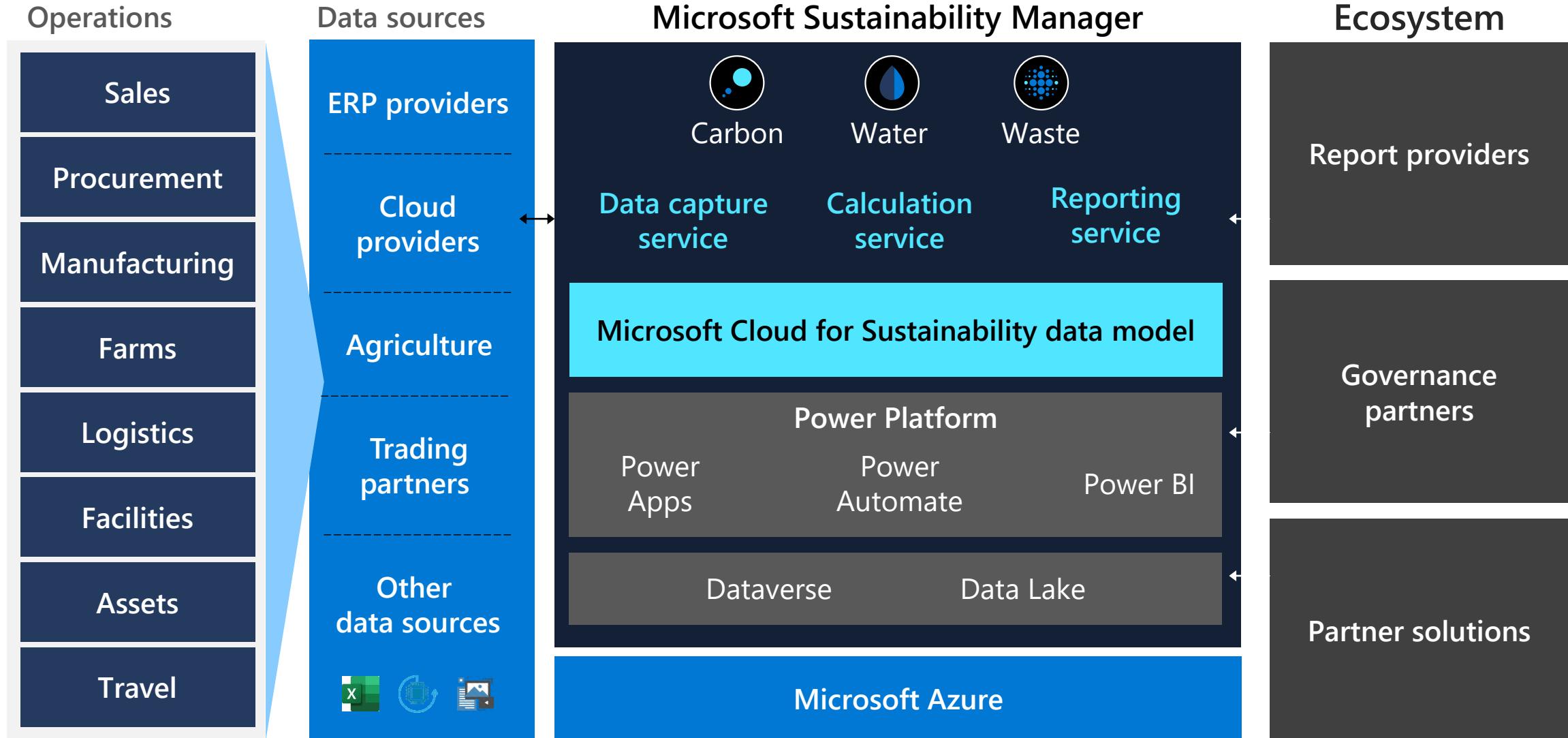


Reimagine fundamentals
and drive lasting change

Solution view



Solution view





Thank you and over
to Microsoft
Sustainability
Manager Demo!

