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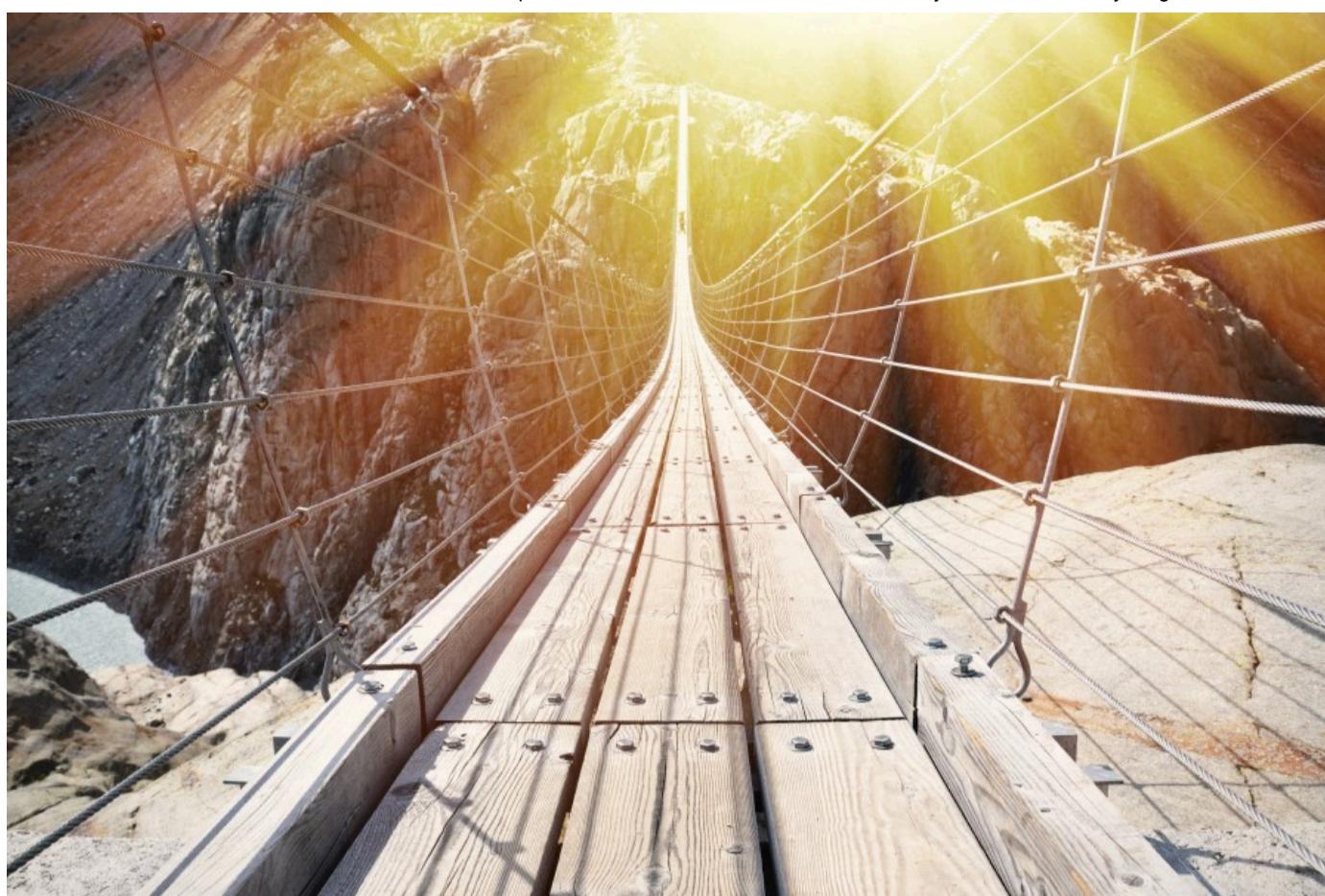
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New year brings extended capabilities with Microsoft Cloud for Sustainability

By [Shefy Manayil Kareem](#), General Manager, Microsoft Cloud for Sustainability



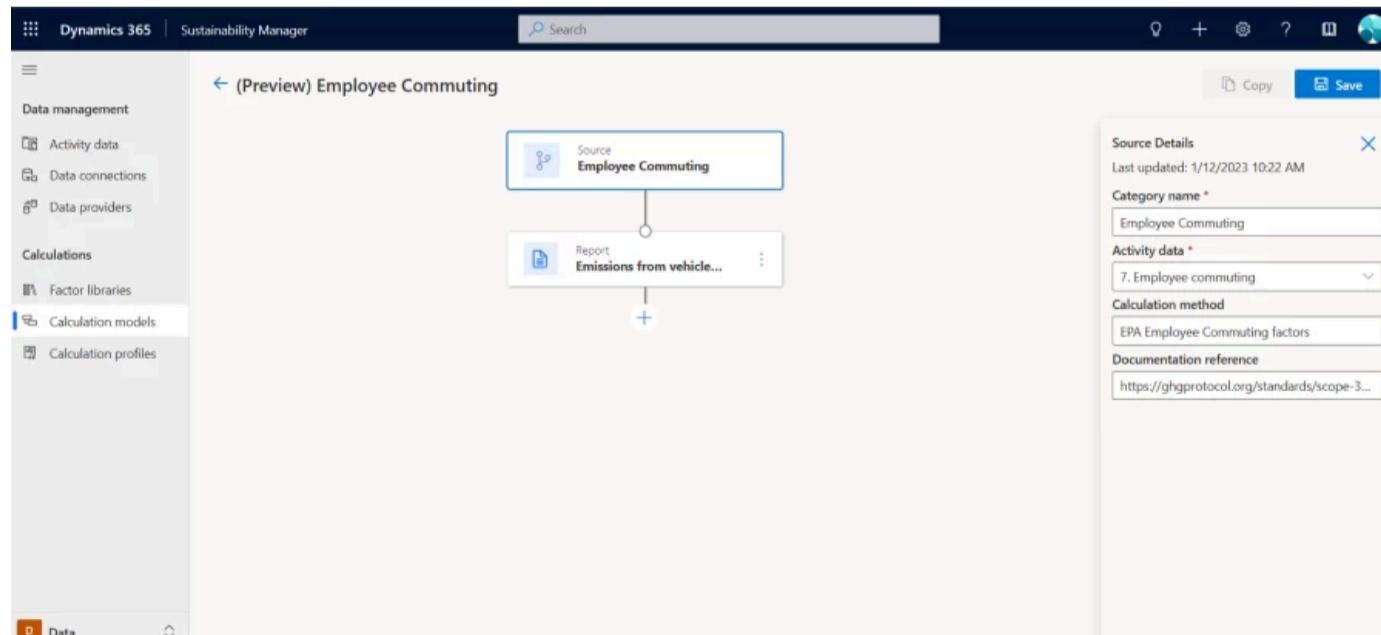
We're pleased to introduce new, broad-reaching capabilities in [Microsoft Cloud for Sustainability](#) to help organizations improve and adapt as they kick off 2023. With these, organizations can better track and reduce their environmental impacts, not only directly in their operations but also across suppliers, partners, services, and infrastructure. They can help facilitate Department for Environment, Food and Rural Affairs (DEFRA) compliance, take advantage of growing datacenter availability, more easily access [Microsoft Azure emissions data](#), and drive transparency in environmental credit ecosystems. Like all our sustainability solutions, they're based on our own [work on sustainability](#).

Now organizations can track Scope 3 emissions related to commuting and product end-of-life

One area of ongoing, intensive focus is Scope 3, or indirect value chain emissions, representing one of the largest contributors to greenhouse gas emissions. Toward our own commitment to become carbon negative by 2030, we're expanding Microsoft's [Scope 3 emissions transparency](#) and rapidly innovating to pass this transparency on to customers and equip them to advance their own Scope 3 tracking.

With **Scope 3 Category 7—employee commuting emissions accounting**, organizations can store commuting data, align it to built-in schema, and run calculations. An out-of-the-box standard for data alignment and calculation enables not only closer emissions tracking but also a more complete view of the organization's overall carbon footprint.

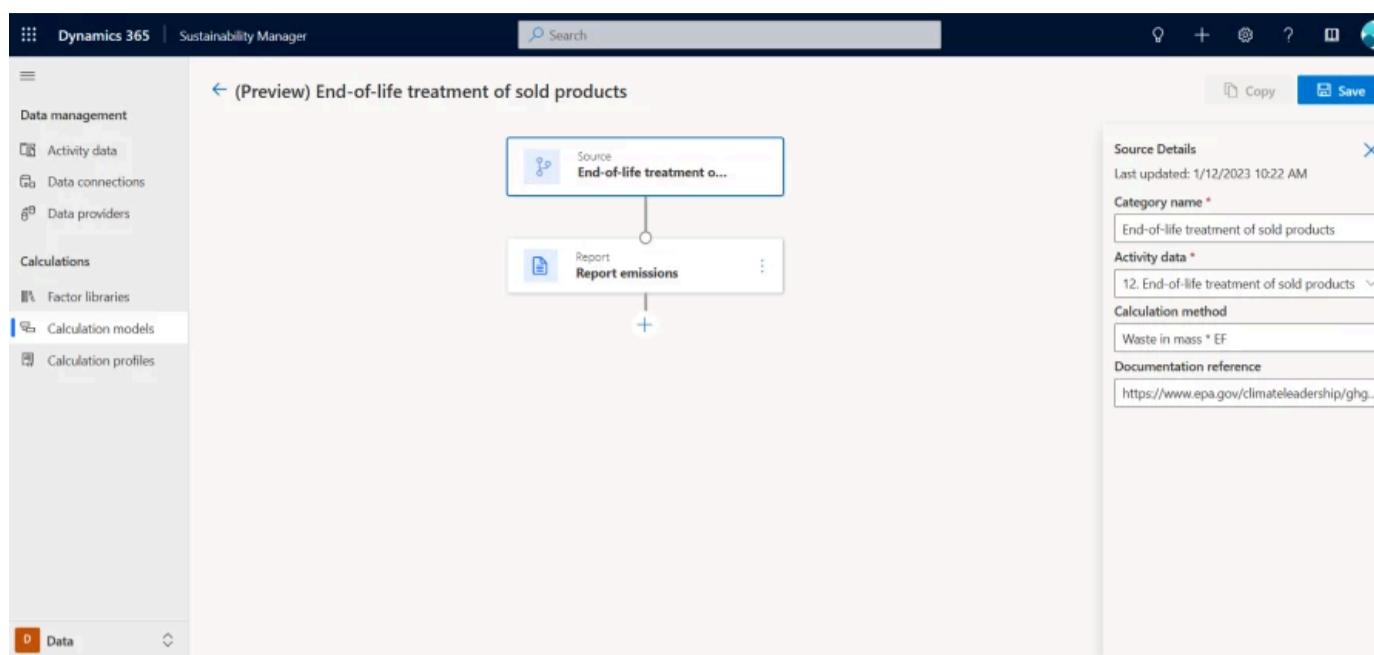
Using [Microsoft Sustainability Manager](#), a Microsoft Cloud for Sustainability solution, organizations can calculate individuals' or multiple employees' commuting emissions over a set duration, referencing the emission factor for the mode of transportation. They can then use the data to report on and set and track goals around commuting efficiency and related emissions.



Commuting emissions in Microsoft Sustainability Manager

Organizations can also track **Scope 3 Category 12—end-of-life activity emissions** caused by the decomposition of products in landfills or processes such as recycling, helping to extend emissions tracking from cradle-to-gate to cradle-to-grave. Using Microsoft Sustainability Manager, organizations

can ingest waste data, track disposal methods and materials, and calculate emissions based on out-of-the-box or customized standards. As with commuting data, they can use the calculated end-of-life activity data for reporting and goal tracking. Learn more about [Scope 3 emissions tracking](#).

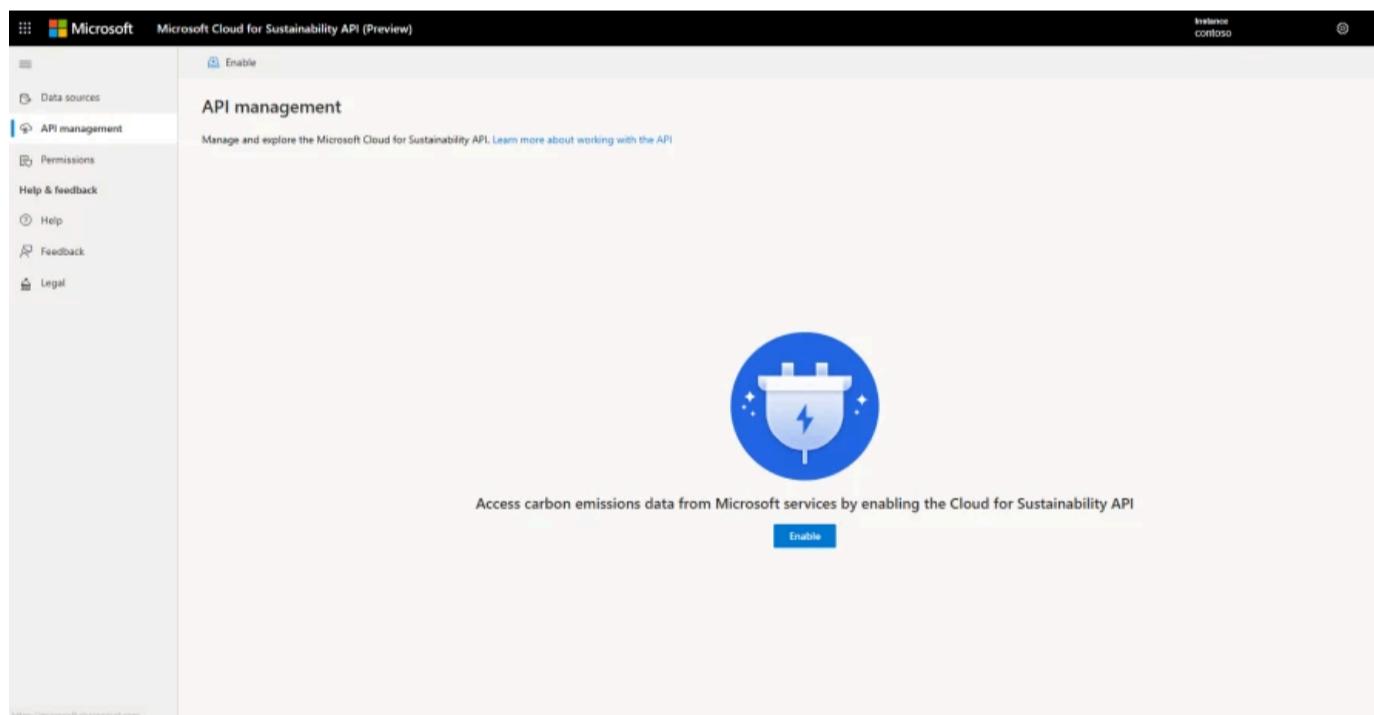


Product end-of-life activity emissions in Microsoft Sustainability Manager

New emission factors in Microsoft Cloud for Sustainability include **DEFRA 2022 emission factor libraries for Scope 1 and Scope 2**. This includes the United Kingdom electricity grid factor and factors for primary fuel sources. Organizations can now select these factor libraries and rely on the [DEFRA data sets](#) to be maintained and updated in support of DEFRA compliance.

Microsoft Sustainability Manager is now available for deployment in **new datacenter regions in the United Kingdom and Asia Pacific**. Customers deploying in the new regions can retain their existing regional affinity, helping to improve performance.¹

A new [Microsoft Cloud for Sustainability API](#) preview provides streamlined access to an organization's historic and current Microsoft Azure carbon emissions data based on Microsoft's verified cloud carbon methodology. Customers can use the flexible API to analyze emissions related to their Microsoft Azure usage by emission scope, Azure subscription, Azure service, and Azure region. They can integrate and connect this data with their sustainability dashboards and applications to drive more targeted decisions around cloud usage, and admins can enable transparency across the organization via permission settings in the API portal. Learn more and [try the API](#).



Enabling the Microsoft Cloud for Sustainability API Preview

[Environmental Credit Service Preview](#), a managed service under Microsoft Cloud for Sustainability, delivers a common infrastructure to track environmental credit provenance from creation through retirement, bringing new levels of transparency to carbon credit ecosystems.

In the sandbox environment, previewers can simulate credit lifecycle activities relevant to their roles and collaborate with other participating organizations.

The screenshot shows the 'Environmental Credit Service (Preview)' setup page. At the top, it says 'Step 1 of 2' and 'How will you use Environmental Credit Service?'. Below this, there are five boxes representing different roles:

- Supplier**: Allows you to create and manage ecological and modular benefit projects.
- Validation and verification body**: Allows you to review claims and recommend credit issuance.
- Issuing registry**: Allows you to register and publish modular benefit projects.
- Marketplace**: Allows you to manage listing, split, and transfer of carbon credits.
- Buyer**: Allows you to manage goals, credits you purchased, and retire them against excess emissions.

At the bottom of the page are 'Continue' and 'Back' buttons.

Environmental Credit Service Preview setup by role

They can now also screen for credit double-counting via **overlapping project checkpoints**. These checkpoints enable users to see when proposed projects overlap or when credits have already been claimed for a specific environmental benefit, helping to streamline the credit creation process and promote integrity and trust in the markets.

The screenshot shows the 'Overlapping projects' checkpoint page. It displays a table of two projects:

Project name	Project website	Area overlap	Project developer	Standard registry
Project Alpine	https://www.bing.com	100%	Fabrikam, Inc.	Contoso Registry
Carbon Removal Project	https://www.bing.com	100%	VanArsdel, Ltd.	Contoso Registry

At the bottom of the page are 'Run check' and 'Last checked: 11/24/2022 11:14 PM' buttons.

Overlapping projects checkpoint in Environmental Credit Service

To preview Environmental Credit Service, project suppliers, credit-issuing registries, verifiers, and marketplaces are encouraged to [submit a request](#).

Increase your sustainability knowledge with new coursework from LinkedIn Learning

Gain a better understanding of complex sustainability and environmental, social, and governance (ESG) topics such as reporting and compliance, carbon accounting, sustainability leadership, standards, guidelines, best practices, and industry-specific use cases. Check out free LinkedIn Learning courses available through the [Microsoft Cloud Solution Center](#) under "Sustainability learning." Watch for new, tailored content for different sustainability maturity levels, skills, and requirements—coming soon.

The screenshot shows the Microsoft Cloud Solution Center interface. On the left is a navigation sidebar with options: Home, Existing deployments, Solutions (with a dropdown arrow), and Support. Below these are three rows of cards, each featuring a thumbnail image of a laptop screen displaying a different solution:

- Data integration and calculation** (Quick view)
- Reporting, disclosure and automated insights** (Quick view)
- Workload migration to the cloud** (Quick view)
- Responsible devices** (Quick view)

- Collaboration and planning** (Quick view)
- Cloud for Sustainability data model** (Quick view)
- Sustainability learning** (Quick view) **This card is highlighted with a red border.**
- Value chain visibility** (Quick view)

- Lifecycle assessment** (Quick view)

Find new sustainability coursework in the Microsoft Cloud Solution Center

Learn more

Want to stay even more ahead of the curve? Explore [new and planned features](#) in Microsoft Cloud for Sustainability and sign up to receive [news and updates](#).



Create a sustainable future

Building the foundations and working to deliver on our sustainability commitments while helping our customers and partners achieve their own.

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¹ Conformance requirements vary by organization and country. Organizations will need to verify their requirements.

**Shefy Manayil Kareem**

General Manager, Microsoft Cloud for Sustainability



Shefy Manayil Kareem is the General Manager responsible for strategy, engineering, and execution of Microsoft Cloud for Sustainability. He also holds patents related to cloud-based systems and methods. Shefy has worked at Microsoft for 15 years and is a frequent speaker and author on topics related to sustainability, cloud, and digital transformation. He's published several articles on how to leverage Microsoft Cloud for Sustainability to drive positive change.

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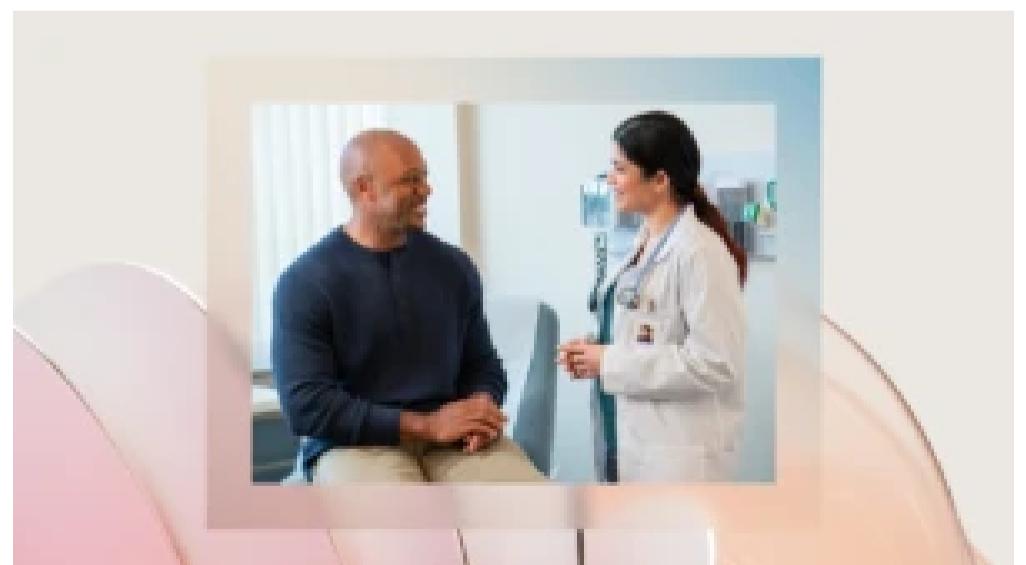
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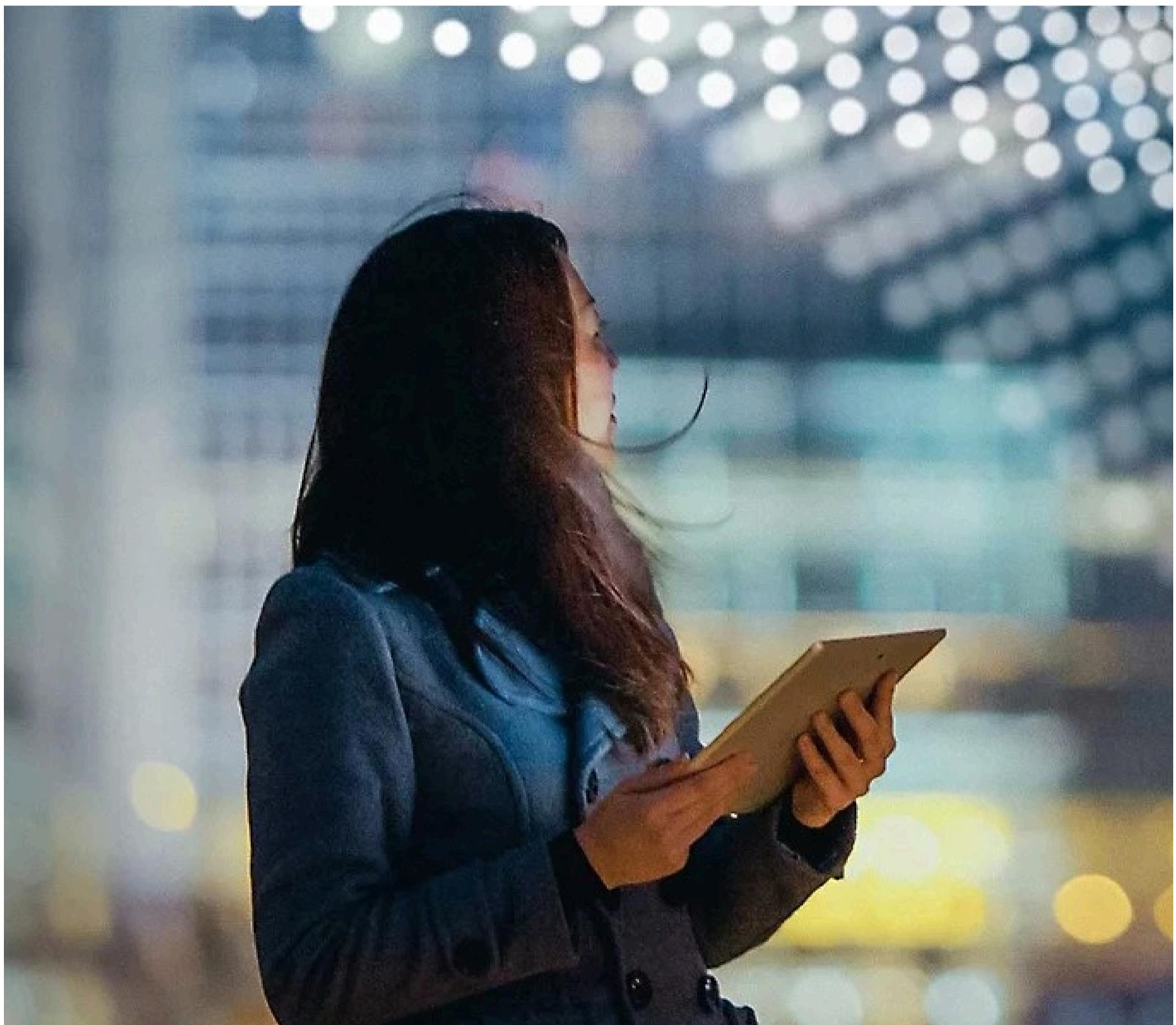
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