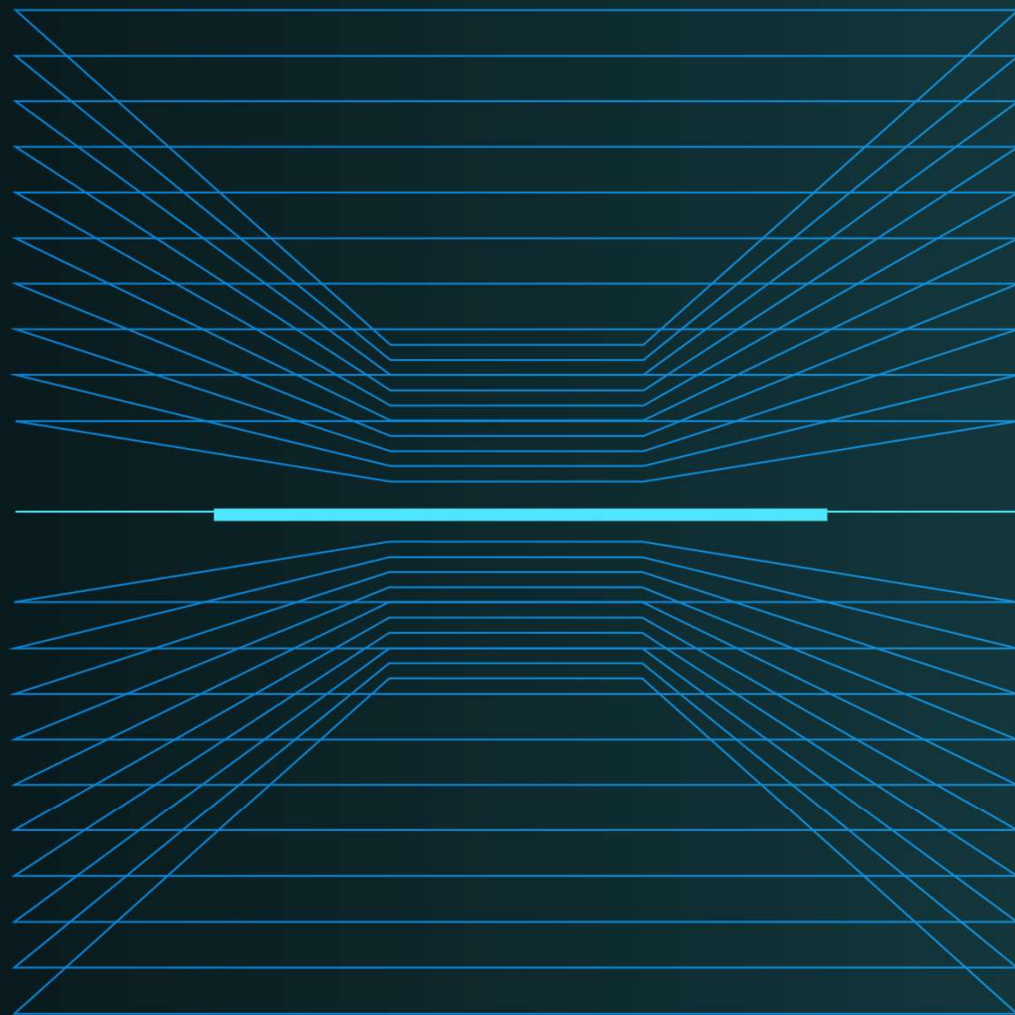




Stepping into the future. AI Innovation

Diego Diaz
Data & AI Specialist



A large, abstract graphic on the left side of the slide. It consists of many thin, concentric, wavy lines in a light blue color, creating a sense of motion and depth. The lines are arranged in a way that they seem to flow around a central dark area.

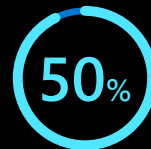
AI is everywhere



AI private investments have doubled in one year¹



Research on AI fairness and transparency has increased fivefold since 2014



50% of organizations have adopted AI in at least one business area

1. [Artificial Intelligence Index Report 2022, Stanford University HAC 2022](#)
2. [S Leadership IT Investment Survey 2022 \(CSS Insights\); McKinsey; EY March Report](#)
3. [The state of AI in 2022--and a half decade in review | McKinsey](#)

Artificial Intelligence

Machine Learning

Deep Learning

Generative AI



Artificial Intelligence

The field of computer science that seeks to create intelligent machines that can replicate or exceed human intelligence



Machine Learning

Subset of AI that enables machines to learn from existing data and improve upon that data to make decisions or predictions



Deep Learning

A machine learning technique in which layers of neural networks are used to process data and make decisions



Generative AI

Create new written, visual, and auditory content given prompts or existing data

Microsoft is fueling AI innovation

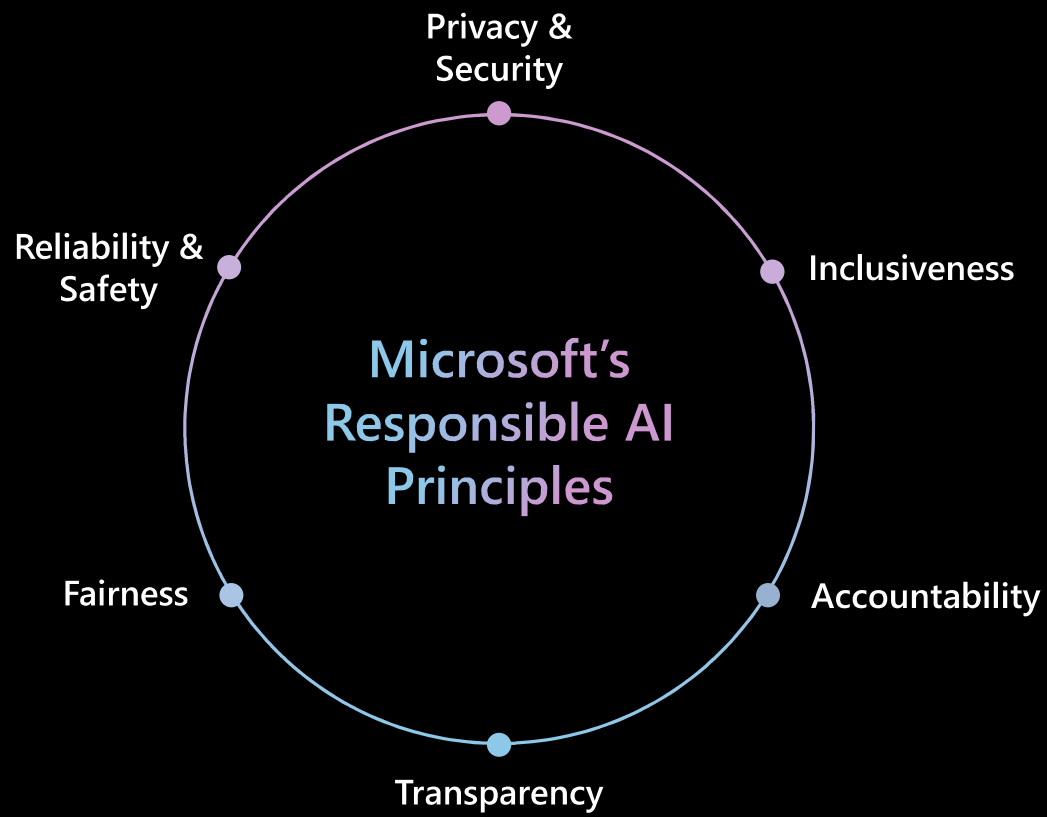
Decades
of research &
development

Committed to
advancing
Responsible AI

Secure
from
the start

Reliability &
performance at scale
for large AI models

Trusted by
AI leaders
like OpenAI



Building blocks to enact principles



Tools and processes



Training and practices



Rules



Governance

Microsoft Cloud

Runs on trust

Your data is your data

Your data from any fine-tuning is not used to train the foundation AI models

Your data is protected by the most comprehensive enterprise compliance and security controls



"This is the single most mind-blowing application
of machine learning I've ever seen."

Mike Krieger, Co-founder, Instagram

A screenshot of a Visual Studio Code editor window. The title bar reads "MicrosoftGraph.js - AzureSampleApp - Visual Studio Code". The editor displays a JavaScript file named "MicrosoftGraph.js" with the following code:

```
5  });
6
7  // Handle login and logout buttons
8  function login() {
9    authContext.login();
10 }
11 function logout() {
12   authContext.logout();
13 }
14
15 // Get the access token
16 function getAccessToken() {
17   return authContext.getCachedToken('c24f035c-1ff6-4dfa-b76d-c75a29ad2c3c');
18 }
19
20 // Set up the Microsoft Graph client
21 var graphClient = MicrosoftGraph.Client.init({
22   authProvider: (done) => {
23     done(null, getAccessToken());
24   }
25 });
26
27 // Use the Microsoft Graph client to get the user's Outlook Calendar
28
29
30
```

The code is written in JavaScript and uses a dark theme. The left sidebar shows the Explorer, Search, and Run and Debug views. The bottom status bar indicates "Ln 27, Col 69", "Spaces: 4", "UTF-8", "CRLF", and "JavaScript".



Microsoft 365 Copilot

works alongside you in the apps you use every day



Unleash creativity

Harness the power of AI so you never have to start from scratch



Unlock productivity

Let AI summarize actions for you, and optimize your time



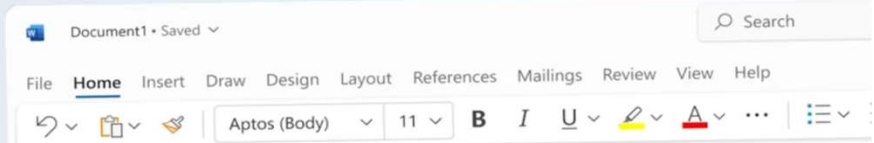
Uplevel skills

Be better at what you're good at and master what you've yet to learn

Introducing Microsoft 365 Copilot

MICROSOFT 365

Copilot in Word



Proposal to supply sustain building materials

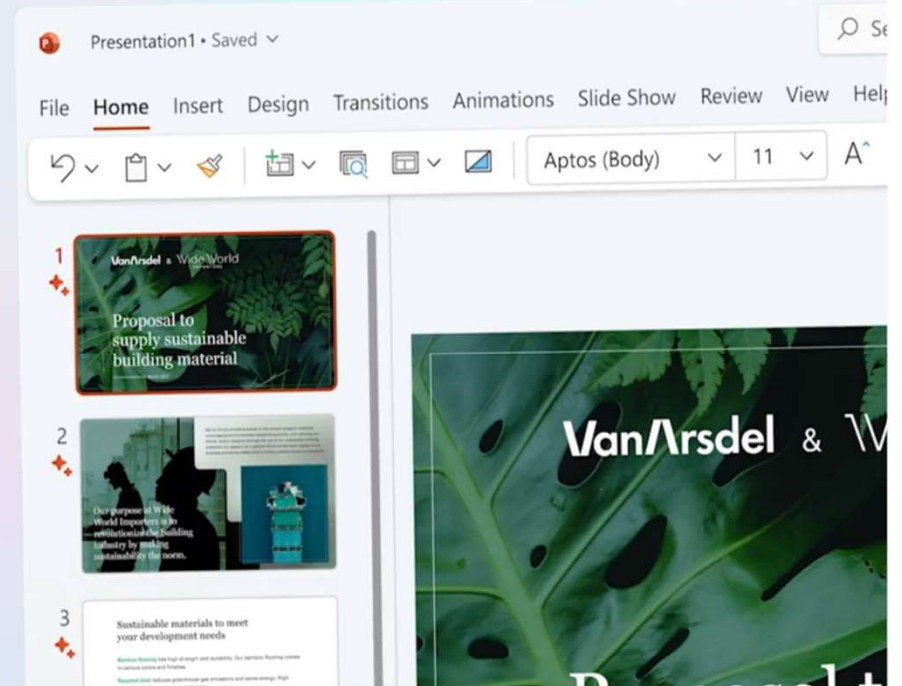
Summary

WideWorld Importers provides eco-friendly building solutions such as flooring, wall coverings, and paneling made of sustainable materials such as bamboo and coconut shells. They suggest scheduling a meeting for more information. Products are priced per square-foot or tonne, with

bamboo flooring at \$5/s at \$800/tonne, polyureth foot, and cork flooring a pricing is lower compar the same materials.

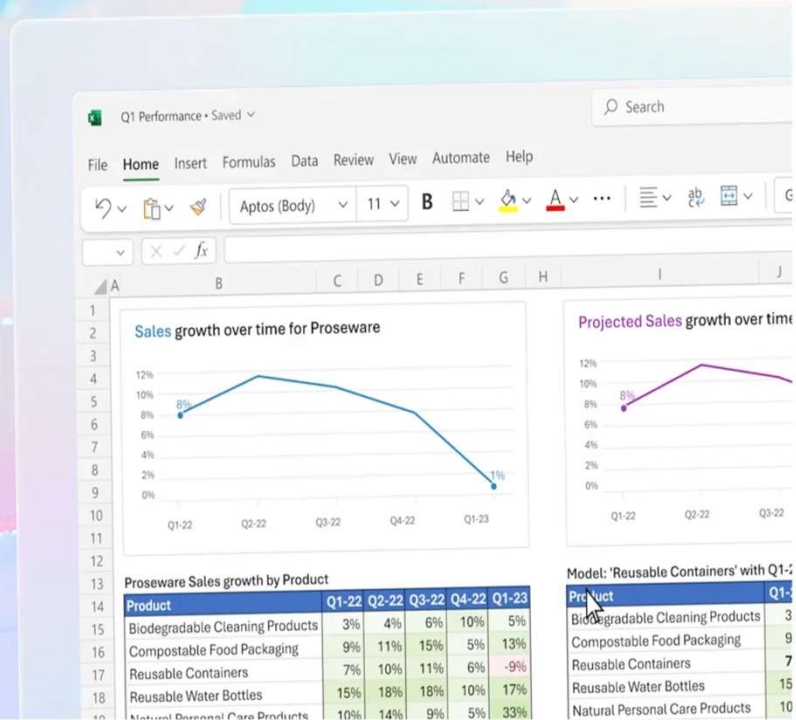
MICROSOFT 365

Copilot in PowerPoint



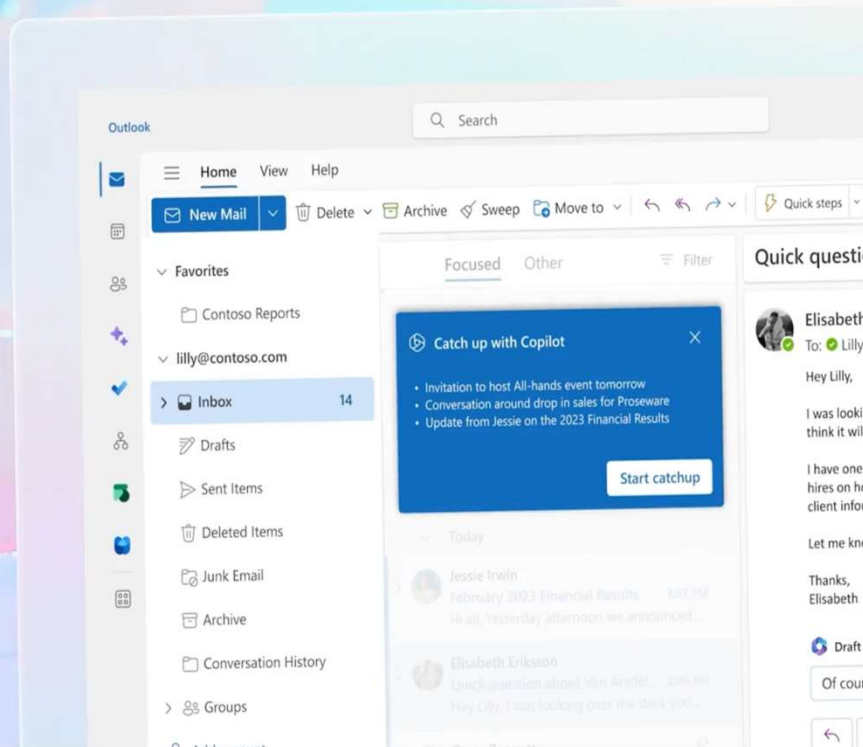
MICROSOFT 365

Copilot in Excel



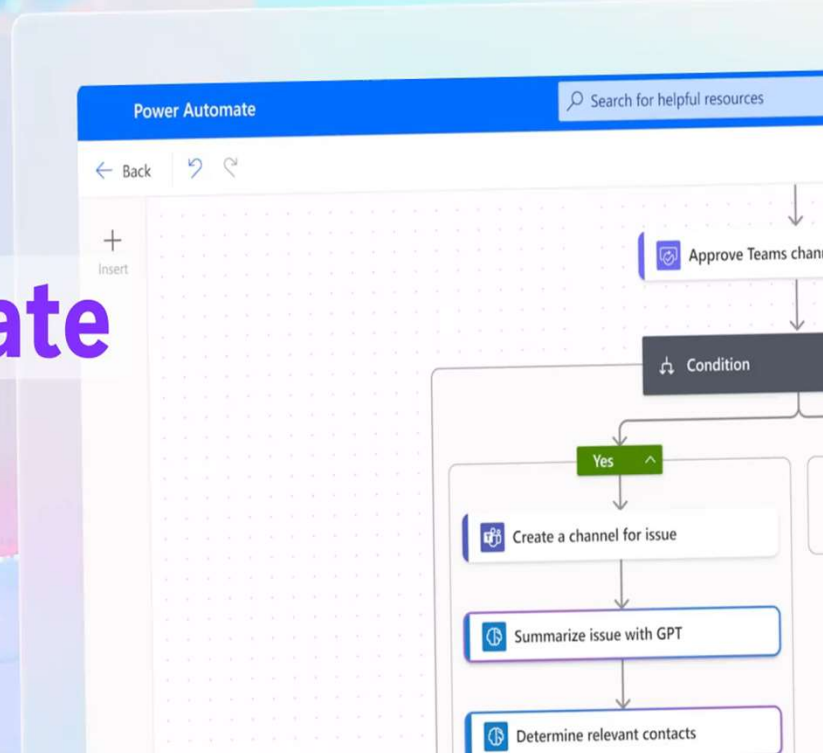
MICROSOFT 365

Copilot in Outlook



MICROSOFT 365

Copilot in Power Automate





Dynamics 365 Copilot

Generate ideas
and content faster

Perform and automate
tasks faster

Get insights and
next best actions

The world's first AI copilot in both CRM and ERP

Copilot features powered by Azure OpenAI Service
natively built-in to Dynamics 365

Build on Microsoft's trusted and responsible AI foundation



Cut the forms | Connect the data | Close the sale

AI-driven conversational intelligence,
real-time coaching, relationship insights

Integrated selling within Microsoft 365

Supports both Dynamics 365 and Salesforce

Introducing Microsoft Security Copilot

The first and only generative AI security product to help defend organizations at machine speed and scale.



Enables response in
minutes, not hours



Simplifies the complex with
natural language prompts
and easy reporting



Catches what others
miss with deeper
understanding of events



Addresses talent
shortage by extending
human expertise



*Ensure that artificial
general intelligence (AGI)
benefits humanity*



*Empower every person and
organization on the planet
to achieve more*

GPT-3.5 and GPT-4

Text

ChatGPT

Conversation

Codex

Code

DALL·E 2

Images

Comparison of GPT versions

GPT-3.5

- Available in Western Europe
- Use-case specific models to optimize inference time and performance
- Suitable for a large range of use cases

ChatGPT (preview)

- Should be first choice for most use cases
- Most economical GPT model in Azure OpenAI Service
- For all workloads, not just Chat

GPT-4 (preview)

- Improved problem solving and reasoning capabilities
- Iterative refinement:
 - Paste in code errors & GPT-4 will fix for you
 - Iterate on stories
- Increased token limit - works well for long content

Generative AI

Content creation by API

Prompt

Write a tagline for an ice cream shop.

Response

We serve up smiles with every scoop!

Prompt

I'm having trouble getting my Xbox to turn on.

Response

There are a few things you can try to troubleshoot this issue

Prompt

Thanks! That worked. What games do you recommend for my 14-year-old?

Response

Here are a few games that you might consider: ...

Prompt

Table customers, columns = [CustomerId, FirstName, LastName, Company, Address, City, State, Country, PostalCode]

Create a SQL query for all customers in Texas named Jane query =

Response

```
SELECT *  
FROM customers  
WHERE State = 'TX' AND  
FirstName = 'Jane'
```

Prompt

A ball of fire with vibrant colors to show the speed of innovation at our media and entertainment company

Response



Azure AI

Applications

 Microsoft 365

 Microsoft Dynamics 365

Partner Solutions

Application Platform

AI Builder



Power BI



Power Apps



Power Automate



Power Virtual Agents

Scenario-Based Services

Applied AI Services



Bot Service



Cognitive Search



Form Recognizer



Video Indexer



Metrics Advisor



Immersive Reader

Customizable AI Models

Cognitive Services



Vision



Speech



Language



Decision



OpenAI Service

ML Platform



Azure Machine Learning



































Business Users



Developers & Data Scientists

Azure AI in Microsoft Cloud solutions

AI Use Case	Where to Try	Powered By	Adopted By
Assisted Coding & Generated Content	 	Azure OpenAI Service	
Copilot for every job role	   Microsoft Security	Azure OpenAI Service	
Content & Design Production		Azure Machine Learning	
Personalized Recommendations		Azure Machine Learning	
Contextual Assistance		Azure Cognitive Services	
Biometric Detection & Identity Verification		Azure Cognitive Services	 
Image Captioning, SEO & Accessibility		Azure Cognitive Services	
Speech Transcription & Captioning		Azure Cognitive Services	  
Insider Risk Management		Azure Cognitive Services	
Content Reading & Writing Experiences		Azure Applied AI	
Extract Text from Documents & Structure Data		Azure Applied AI	 
Search as a Service		Azure Applied AI	 

How do I get started?

Get your data estate AI-ready with Azure

Learn how migrating your data to Azure can give you the foundation for better AI experiences

Leverage AMMP to conduct a data estate assessment

Build intelligent app experiences with Azure AI

Learn how to build AI-powered applications for your organization on Azure

Book an AI executive briefing session

Increase developer productivity with GitHub

Learn how GitHub Copilot can drive 55% greater developer productivity

Try GitHub Copilot today

Turbocharge your workforce with Dynamics 365 Copilot

Learn how AI capabilities can help you create ideas and content faster, complete time-consuming tasks, and get AI-driven insights.

Try Dynamics 365 Copilot today

Get ready for Copilot with Microsoft 365

Learn how Microsoft 365 brings together identity, applications, management, security, and your enterprise data to be AI-ready

Start using Microsoft 365 today

Get ready for Microsoft Security Copilot

Learn how Microsoft Security provides unparalleled visibility, automation, and intelligence

Start using Microsoft Defender and Microsoft Sentinel today