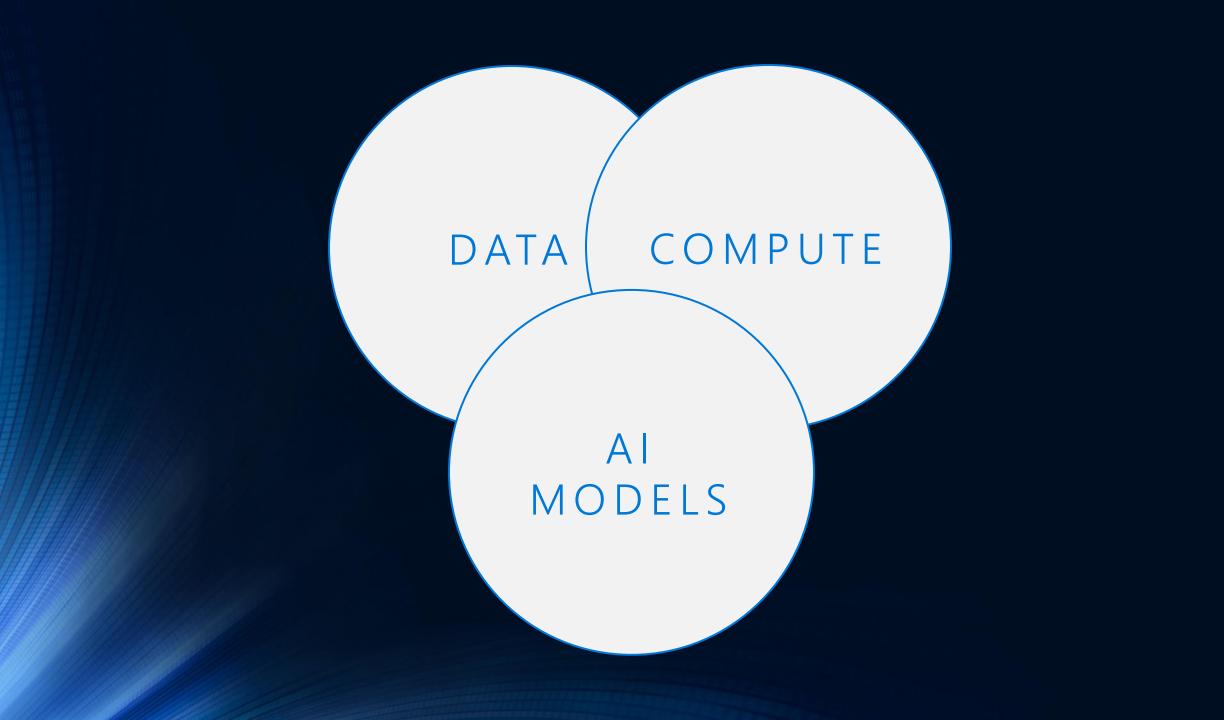
Applications & Possibilities of Al

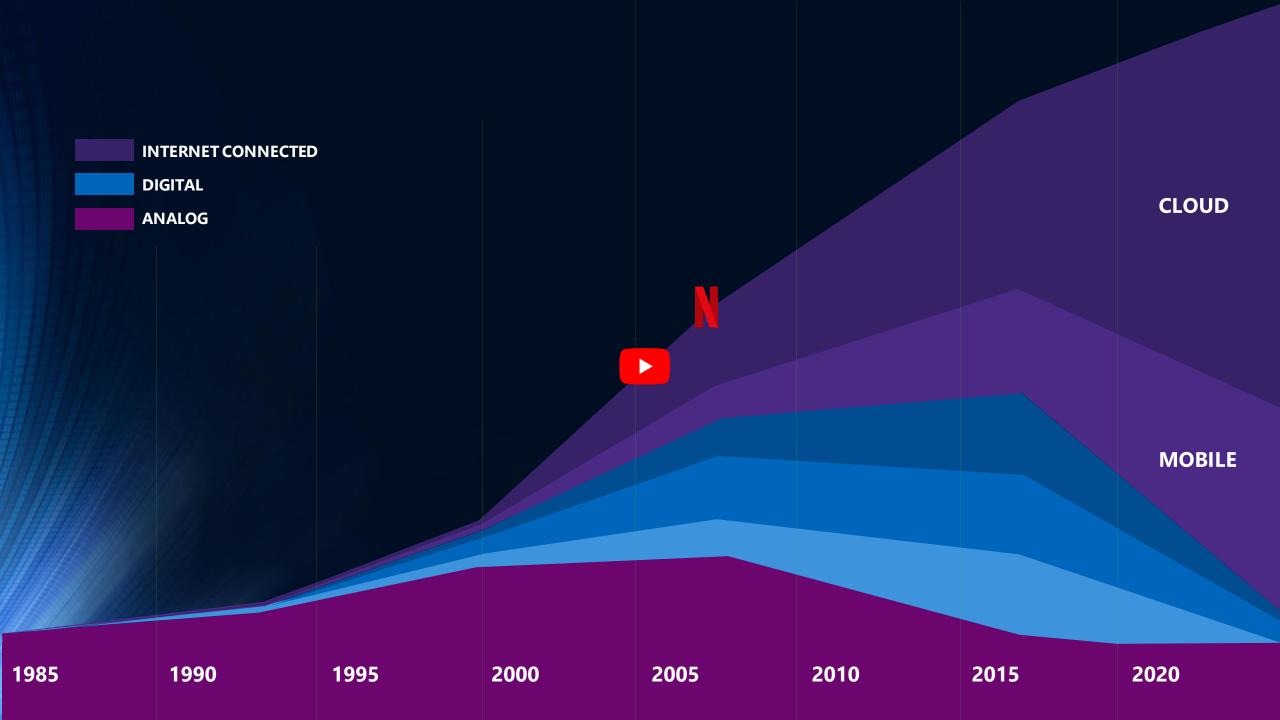
SEAN ALEXANDER

FORMER PRINCIPAL DIRECTOR, MICROSOFT AI

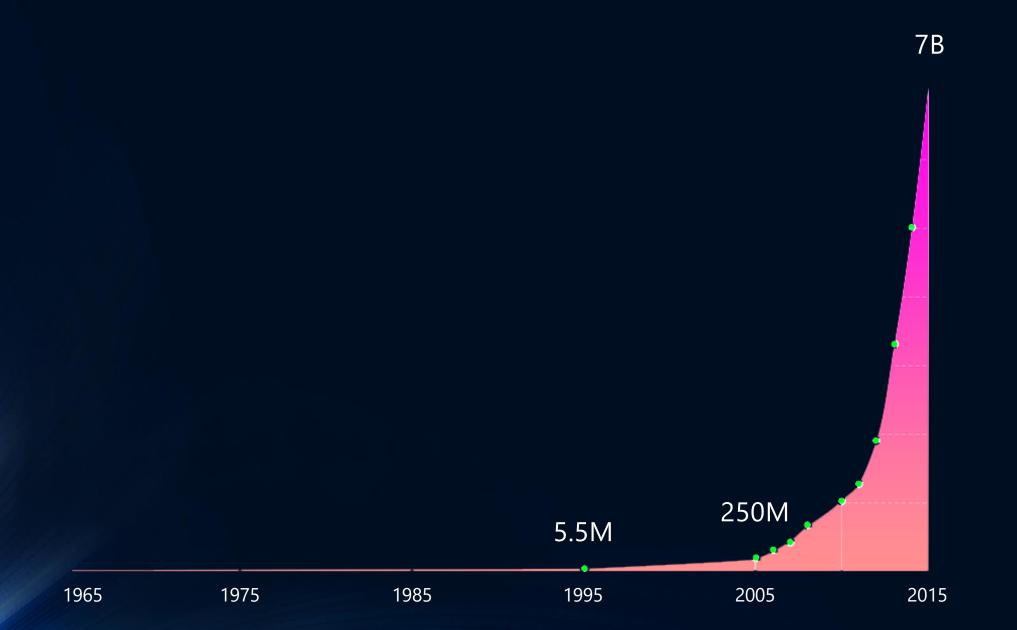


Why Now?

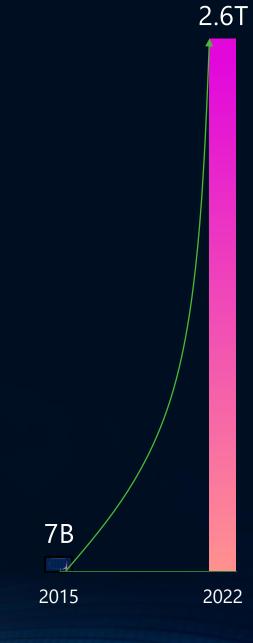






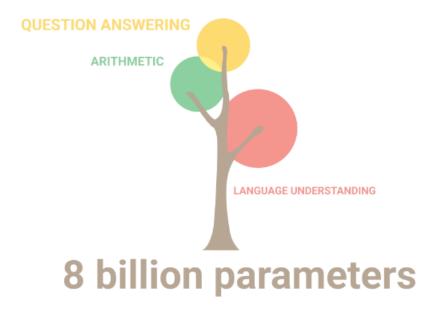


Compute Transistors



37 *Million* Percent Increase



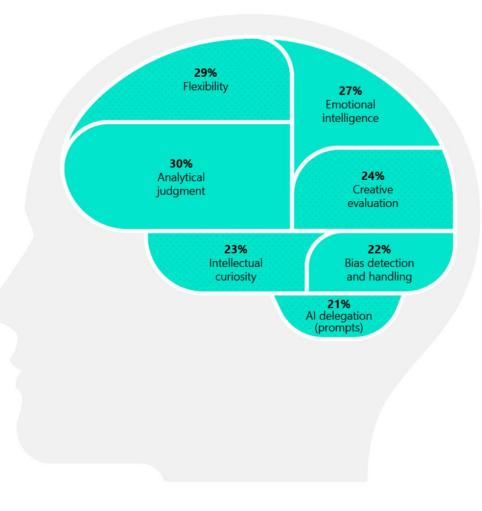


AI Applications

Oklahoma



Developing Al Aptitude





Traditional AI & Machine Learning

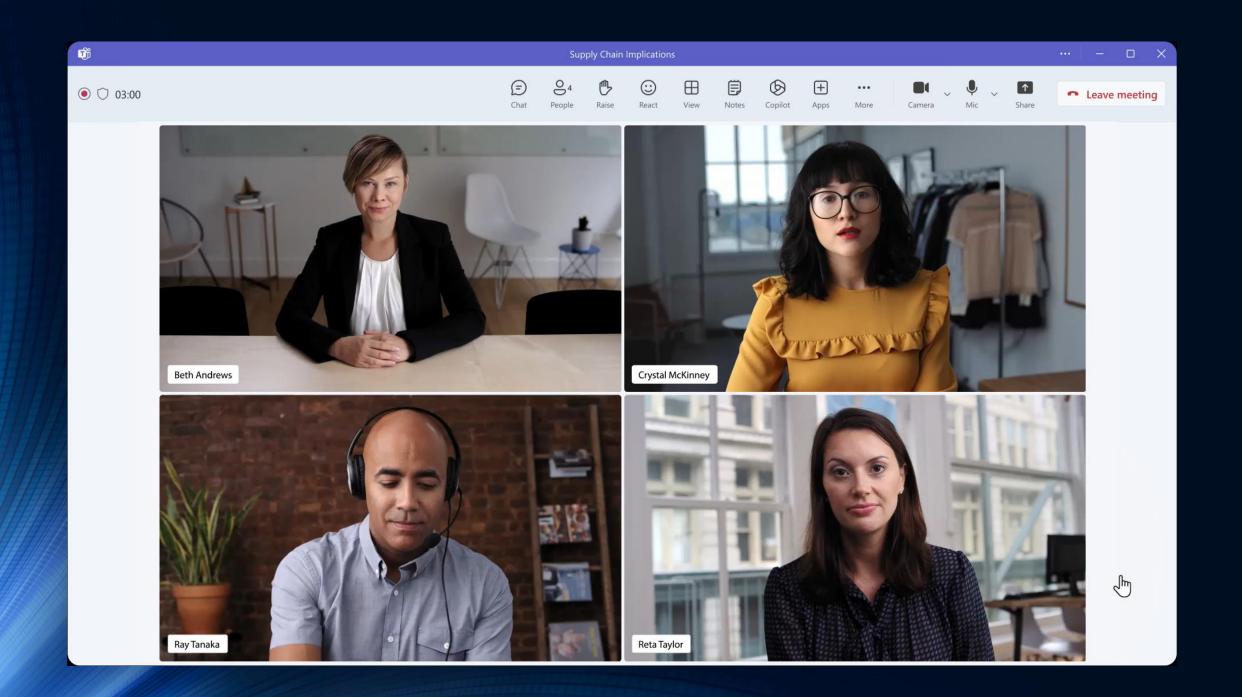


Generative Al

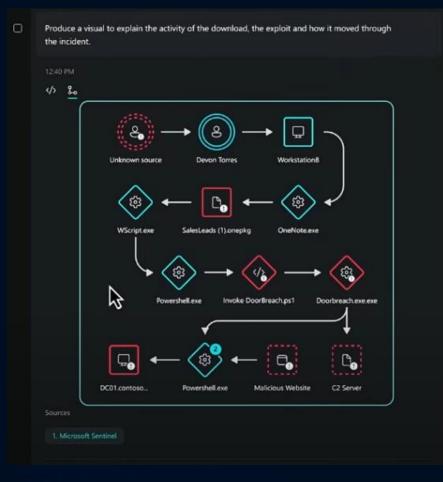


| Q1 Performance • Saved V | | | | ⊖ Search | | | | | (|) – o |) X |
|---------------------------------------|-------------------|----------------------------|---------------------------------|-----------------|------------------|-----------------------|----------------|---------------------------|-----------------|----------------|---------|
| File | Home Insert Formu | ulas Data Review Vie | w Automate Help | | | Ø | (4) | Comments | ∿ Catch Up | P Editing ~ 온 | Share 🗸 |
| 5 | ~ [î] ~ ≪ Ap | tos (Body) v 11 v | B <u> </u> | 🗏 ~ at | 2, ∰ ∨ Gen | eral ∨ ↔0 | .00 →.0 ₩ ~ | $\sum \sim z \nabla \sim$ | | 💽 🕞 Copi | ilot 🗸 |
| A1 \sim $\times f_x$ Country \sim | | | | | | | | | | | |
| | A | В | С | D | E | F | G | Н | 1 | J | K |
| 1 | Country 🗸 | Customer 🗸 🗸 | Product 🗸 | Discount Band 🤜 | Units Sold 🤜 Man | ufacturing Price 🥃 Sa | ale Price 🥃 G | ross Sales 🛛 🧹 🛛 |)iscounts 🥃 Sa | les 🗸 C | ogs |
| 2 | France | VanArsdel | Biodegradable Cleaning Products | Low | 4345 | \$10 | \$352 | \$1,529,440 | \$15,294 | \$1,514,146 | \$ |
| 3 | USA | VanArsdel | Biodegradable Cleaning Products | Low | 4245 | \$10 | \$352 | \$1,494,240 | \$14,942 | \$1,479,298 | \$ |
| 4 | Australia | VanArsdel | Biodegradable Cleaning Products | None | 4124 | \$10 | \$352 | \$1,451,648 | \$0 | \$1,451,648 | \$ |
| 5 | Mexico | VanArsdel | Biodegradable Cleaning Products | Medium | 3954 | \$10 | \$352 | \$1,391,808 | \$83,508 | \$1,308,300 | \$ |
| 6 | France | Contoso Pharmaceuticals | Biodegradable Cleaning Products | Low | 4952 | \$10 | \$127 | \$628,904 | \$6,289 | \$622,615 | \$ |
| 7 | France | Contoso Pharmaceuticals | Recycled Can | Low | 4903 | \$5 | \$127 | \$622,681 | \$6,227 | \$616,454 | \$ |
| 8 | Canada | Proseware | Natural Personal Care Products | Low | 1954 | \$270 | \$302 | \$590,108 | \$5,901 | \$584,207 | \$5 |
| 9 | Canada | Proseware | Biodegradable Cleaning Products | High | 1990 | \$220 | \$302 | \$600,980 | \$84,137 | \$516,843 | \$2 |
| 10 | USA | VanArsdel | Compostable Food Packaging | Low | 1254 | \$3 | \$380 | \$476,520 | \$4,765 | \$471,755 | |
| 11 | USA | Proseware | Natural Personal Care Products | Medium | 1465 | \$224 | \$302 | \$442,430 | \$26,546 | \$415,884 | \$30 |
| 12 | USA | Proseware | Sustainable Snack Packaging | Medium | 1410 | \$120 | \$302 | \$425,820 | \$25,549 | \$400,271 | \$1 |
| 13 | Australia | Proseware | Natural Personal Care Products | Medium | 1369 | \$224 | \$302 | \$413,438 | \$24,806 | \$388,632 | \$3 |
| 14 | USA | VanArsdel | Compostable Food Packaging | Medium | 1052 | \$3 | \$380 | \$399,760 | \$23,986 | \$375,774 | |
| 15 | Canada | VanArsdel | Compostable Food Packaging | Low | 980 | \$312 | \$380 | \$372,400 | \$3,724 | \$368,676 | \$3 |
| 16 | Australia | Proseware | Sustainable Snack Packaging | Medium | 1298 | \$120 | \$302 | \$391,996 | \$23,520 | \$368,476 | \$17 |
| 17 | Australia | VanArsdel | Compostable Food Packaging | None | 954 | \$3 | \$380 | \$362,520 | \$0 | \$362,520 | |
| 18 | Canada | Contoso Pharmaceuticals | Biodegradable Cleaning Products | Low | 2785 | \$110 | \$127 | \$353,695 | \$3,537 | \$350,158 | \$3 |
| 10 | > = Data + | Cashees Discoursestingly | Davaakla Opetsinees | | | | | ¢954.009 | ¢0.547 | | ₽sr |
| < Coloui | | General Workbook Statistic | | | | | | | ✓ Give Feedback | to Microsoft — | 100% + |

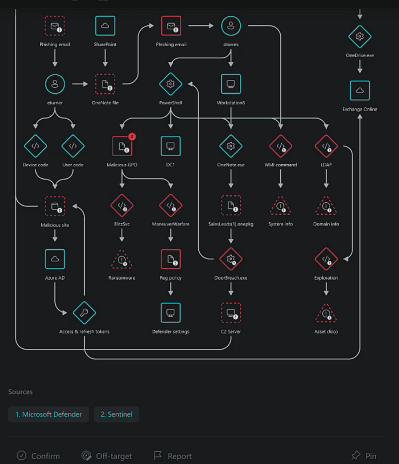
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"Produce a visual to explain the activity of the download, the exploit and how it moved through the incident"



Microsoft Security Copilot / Alert on compromised account and device on Contoso.com 🗸



🗞 🛛 Type "/" or ask anything about security

| | <u>e</u> |
|-----|----------|
| 100 | |

Alert on compromised account and device on Contoso.com

OneNote WMI PowerShell AMSI Kinsing Muhstic Sabsik Wacatac

Summary S Pinned items (5)

Alert Summary

This alert indicates that a device belonging to Devon Torres, a user of the contoso.com domain, was targeted by an emerging, financially motivated activity group that uses OneNote attachments to deliver remote access malware. The alert provides details about the suspicious process (ONENOTE.EXE) that was launched from a downloaded file (SalesLeads (1).onepkg) and its parent process (explorer.exe), as well as the device's hostname (workstation8), OS version (Windows 21H2), and risk score (High). The alert also shows the device's last seen time, external and internal IP addresses, and antivirus status. The device has a user-defined tag (ContosoDemo) and is onboarded to Microsoft Defender for Endpoint (MDATP).

Attack Steps

The account dtorres@contoso.com was involved in a series of suspicious actions on the workstation8 host, indicating a possible compromise by a malware campaign.

The following attack steps were observed:

- Malicious OneNote package file downloaded
- · Malicious scripts executed via WScript.exe
- Attempted AMSI tampering and process injection
- Suspicious Microsoft Defender Antivirus exclusion and startup folder addition
- Suspicious LDAP query and process discovery
- Suspicious WMI process creation
- Suspicious PowerShell command line and script execution

Attack Details

Malicious OneNote package file downloaded









40% Higher quality results

25% Completed more quickly

12% More tasks completed





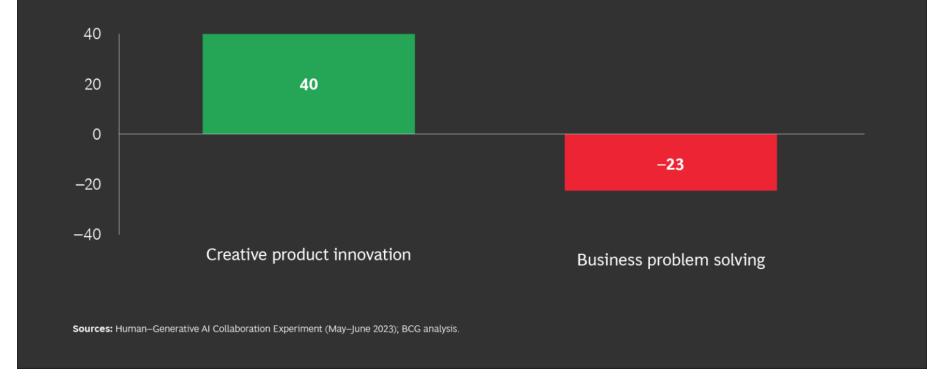






Source: 9/16/2023 – Harvard Business School & Prof. Ethan Mollick (oneusefulthing.org)

Difference in individual performance with GPT-4 compared with control group (%)







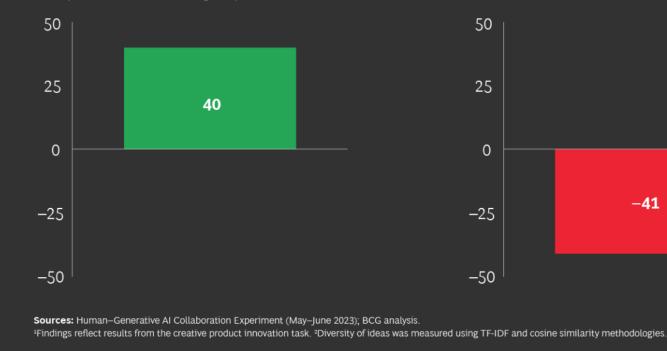






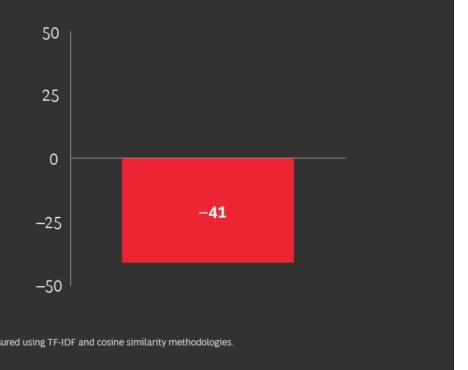
Individual performance

Difference in individual performance with GPT-4 compared with control group (%)¹



Collective diversity of ideas

Total change compared with control group $(\%)^2$













Source: 9/16/2023 – Harvard Business School & Prof. Ethan Mollick (oneusefulthing.org) Possibilities

Responsible AI

Framework

Fairness

Reliability & Safety

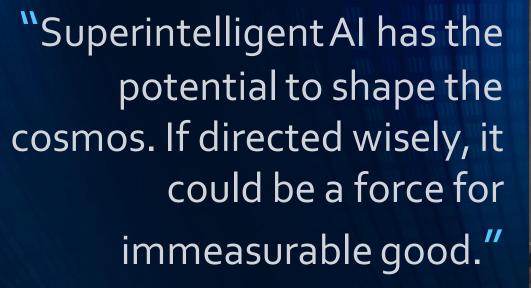
Privacy & Security

Transparency

Human Accountability

Source: Microsoft Responsible AI Framework





- Nick Bostrom Al Leader



Thank You

Workforce Readiness