



Tech intensity: Novidades Tecnológicas nas 3 clouds

Pedro Custódio
Partner Technical Consultant
Microsoft Portugal



Tech intensity

Power Platform

Microsoft 365

Dynamics 365

Developer Tools

Trust

Azure



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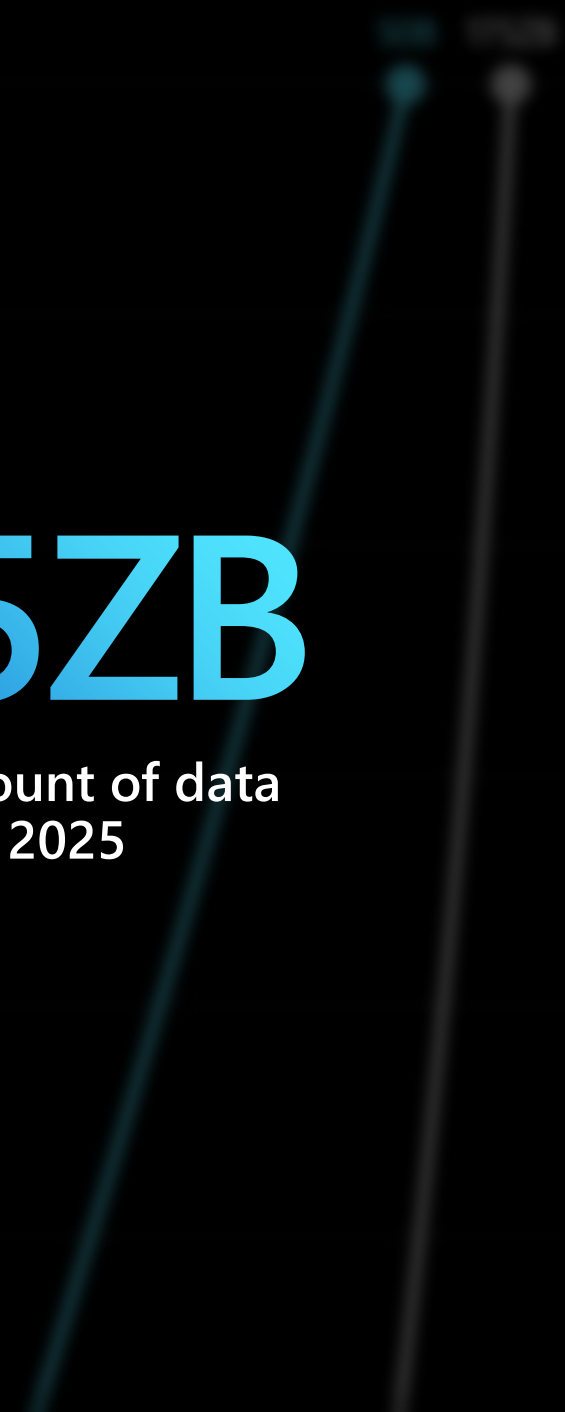
Azure

50B

connected devices
by 2030

175ZB

total amount of data
by 2025



Azure

The world's computer



54

**Azure regions
worldwide**



Most reliable network

More than 160 Edge sites and 20,000 peering connections
30 billion packets per second over WAN

On-premises to on-premises connectivity
with Azure Global WAN



Operating models

Development environments

Infrastructure stack



Azure

Infrastructure

Hybrid

Cloud
Native Apps

Data +
Analytics

Artificial
Intelligence

Azure

Infrastructure

Hybrid

Cloud
Native Apps

Data +
Analytics

Artificial
Intelligence

Comprehensive VM offerings



Entry level



Compute intensive



Graphics intensive



General purpose



Storage optimized



High-performance computing



Burstable



Memory optimized



SAP HANA certified

Windows Virtual Desktop

GENERALLY AVAILABLE

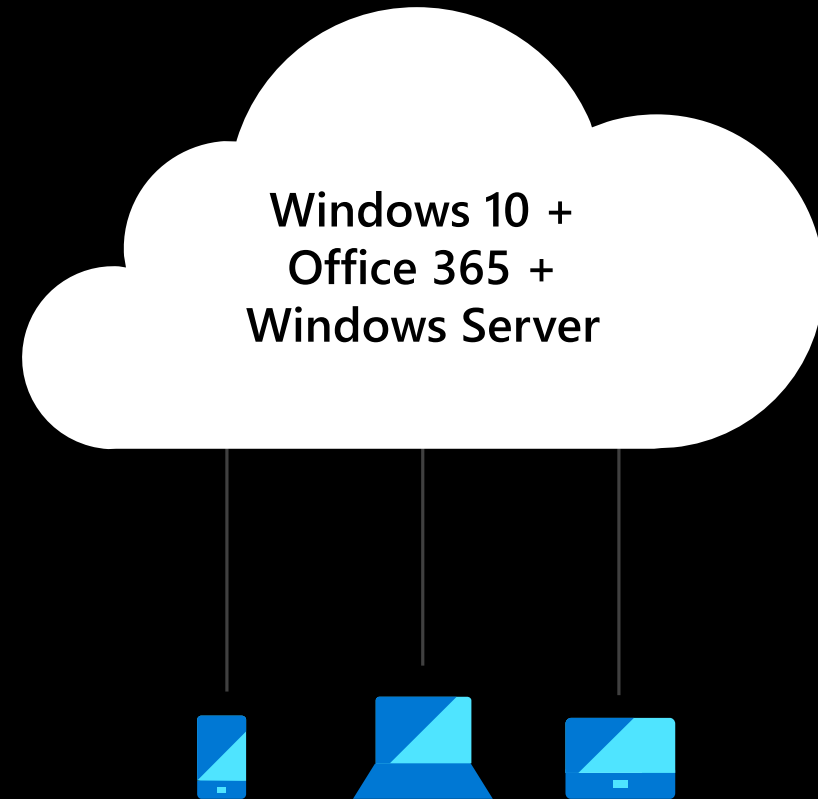
Only multi-user Windows 10 experience

Optimized for Office 365 ProPlus

Deploy and scale in minutes

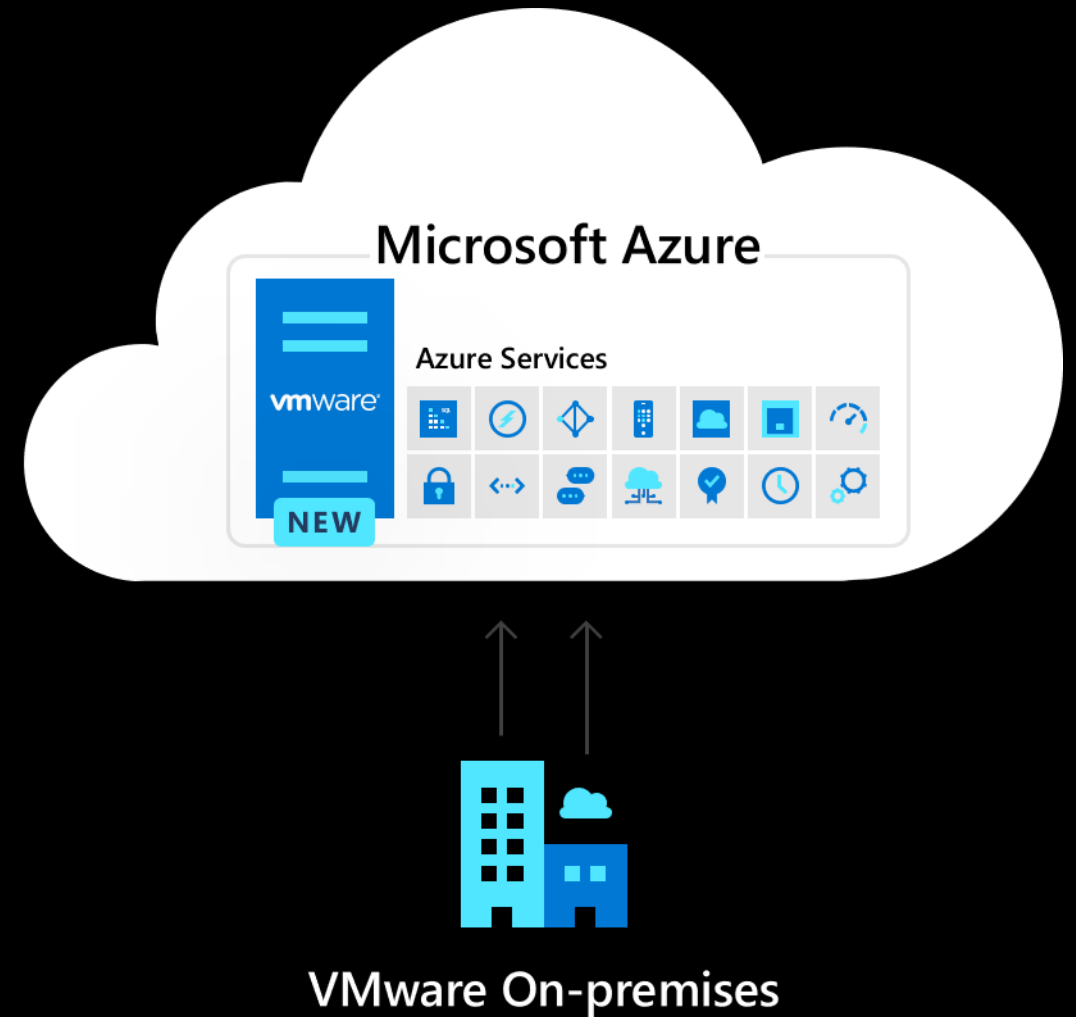
Virtualize desktops and apps

Pay for usage only



Azure VMware solutions

Run your native VMware workloads in Azure
Leverage existing VMware investments and skills
Direct integration with Azure Services



Azure

Infrastructure

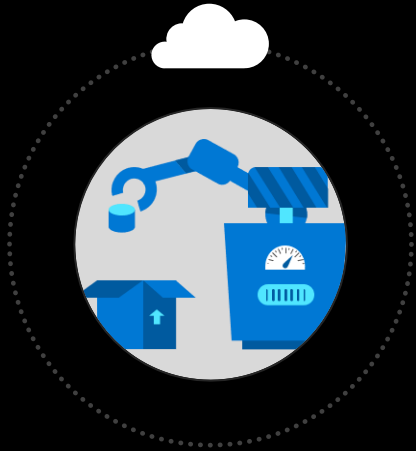
Hybrid

Cloud
Native Apps

Data +
Analytics

Artificial
Intelligence

Why Hybrid?



At the edge
and disconnected



Meet every regulatory
requirement



Cloud application
model on-premises

Azure Hybrid

Innovation anywhere with Azure



Azure IoT
Any edge device



Azure Arc
Any datacenter, cloud, edge



Azure Stack
Integrated systems



Management | Security + Identity | App + Data Services | Dev Tools + DevOps

Azure Hybrid

Innovation anywhere with Azure



Azure IoT
Any edge device



Azure Arc
Any datacenter, cloud, edge



Azure Stack
Integrated systems

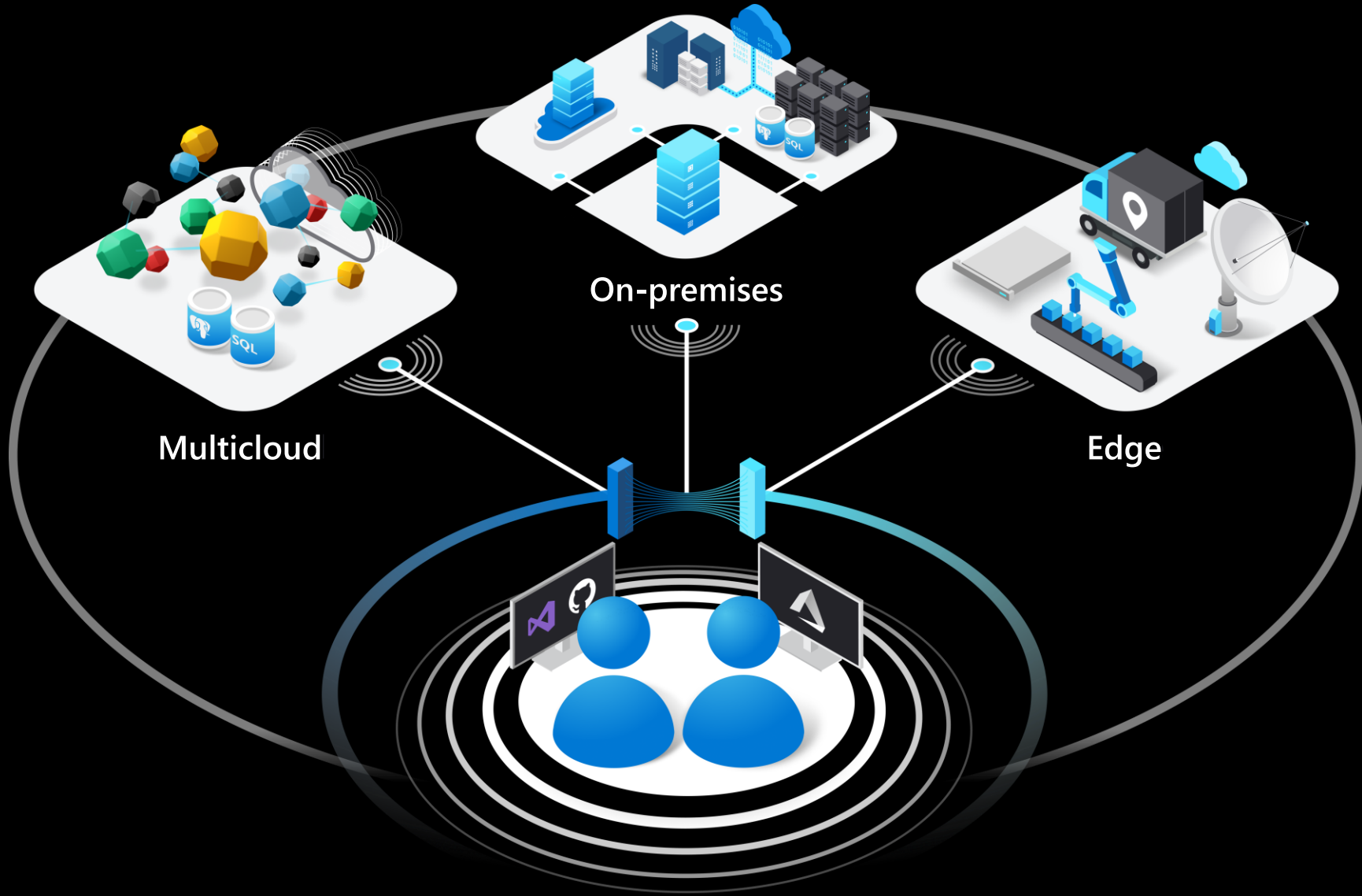


Management | Security + Identity | App + Data Services | Dev Tools + DevOps

Announcing

Azure Arc

PREVIEW



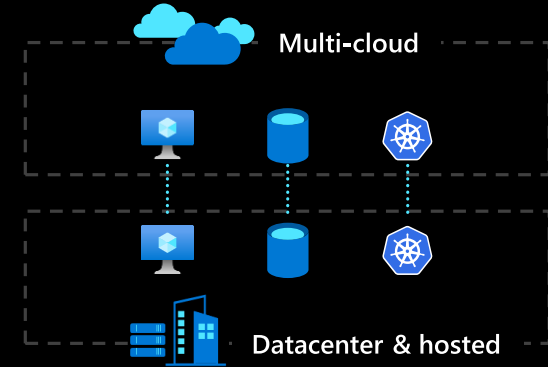
Azure Arc use cases



Manage VMs and
Kubernetes at scale



Run Azure data services
anywhere



Organize, govern, and
secure across environments

Azure

Infrastructure

Hybrid

Cloud
Native Apps

Data +
Analytics

Artificial
Intelligence

SQL runs everywhere



On-premises

SQL Server



Azure

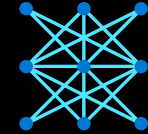
Azure SQL DB

SQL Server



Multi-cloud

Azure SQL DB (Arc)



Edge

Azure SQL DB Edge

PREVIEW

SQL keeps getting better

Built-in AI for peak performance

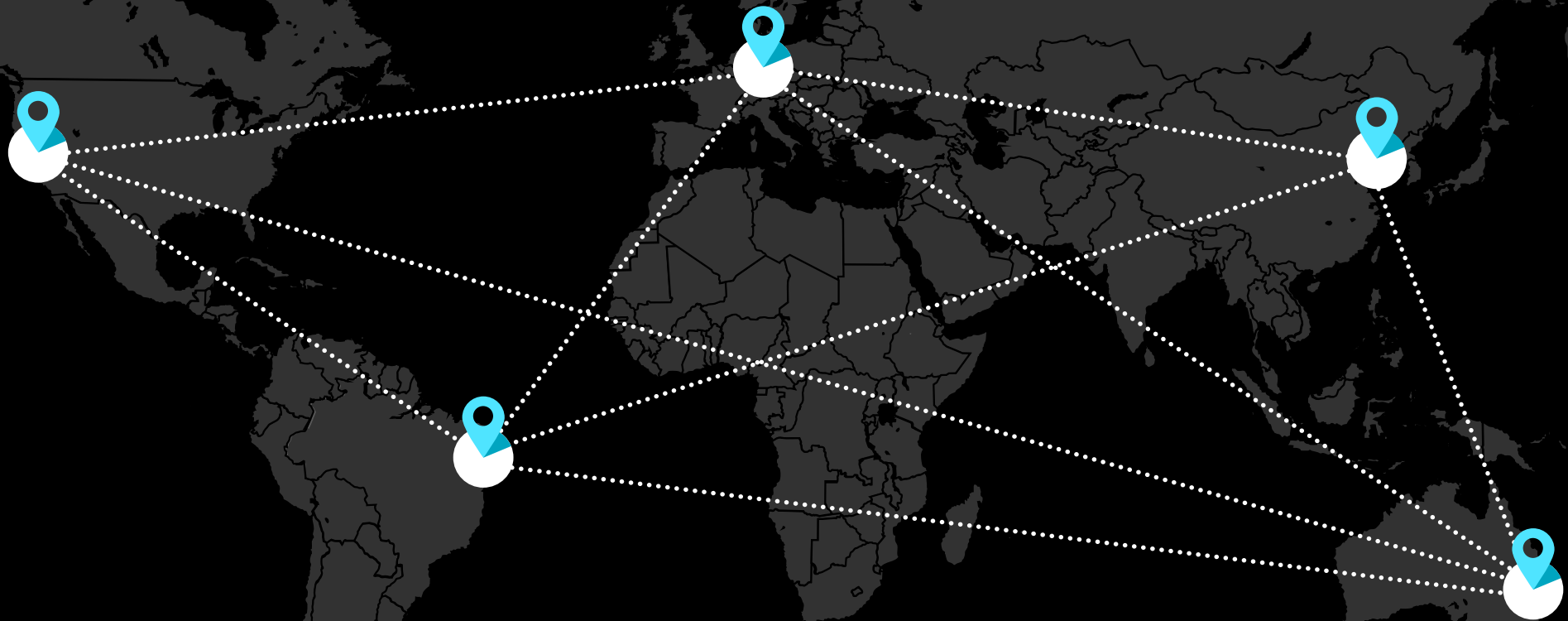
Serverless workloads

Evergreen in Azure



Azure Cosmos DB

The world's first globally distributed database service



Azure

Infrastructure

Hybrid

Cloud
Native Apps

Data +
Analytics

**Artificial
Intelligence**

Azure AI momentum



AI Apps and Agents

5 billion

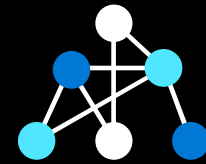
Cognitive Services transactions
per month



Knowledge Mining

6 billion

Documents processed by
Cognitive Search per day



Machine Learning

1 million

Machine Learning experiments
per month

Democratizing AI

AI Apps and Agents with Azure Cognitive Services

Deploy and run anywhere using containers



Vision



Speech



Search



Language



Decision

Announcing

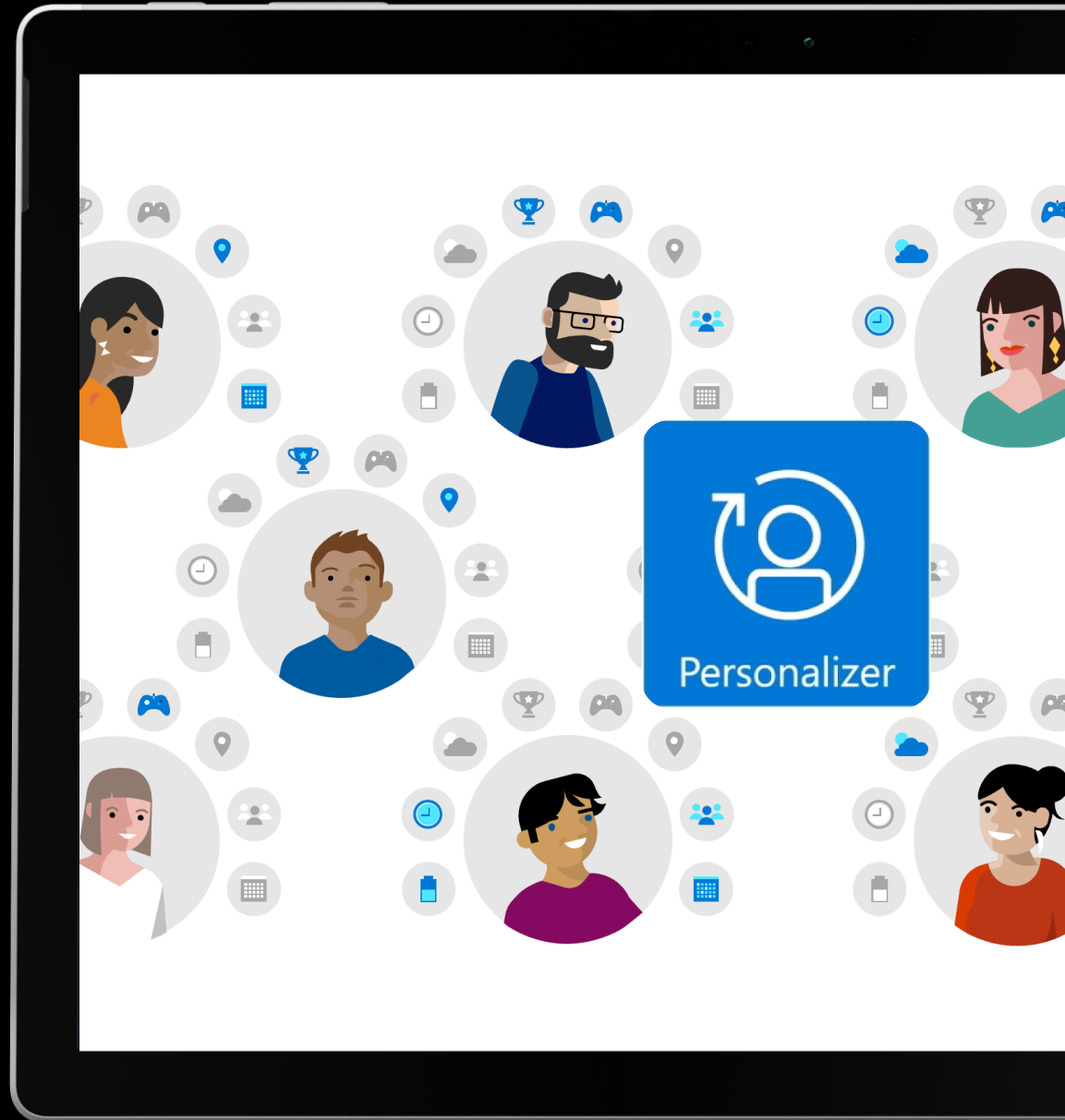
Personalizer

GENERALLY AVAILABLE

Rich, personalized experiences for every user

Simple access to powerful reinforcement learning

Strata 2019 innovative product winner





Speech

NEW CAPABILITIES

Custom Neural Voice

Learns your organization's terminology
with Office 365 data



Language detection



Face detection



Organization entity
extraction



Location entity
extraction



Key phrase extraction



And more...

Knowledge Mining with Azure Cognitive Search

Ingest all types of content

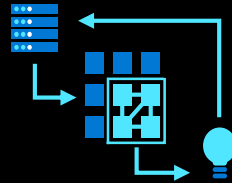
Enrich using built-in models

Explore using immersive search experiences

Azure Machine Learning



For all
skill levels



Industry
leading MLOps



Open and
interoperable

Machine Learning Ops



Model reproducibility

Model validation

Model deployment

Model retraining

Tech intensity

Power Platform

Microsoft 365

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Developer Tools

Trust

Azure

Trust



Privacy



Responsible AI



Security

Cost of cybercrime

\$1T

in cybercrime costs

Cybersecurity

Comprehensive security



Identity



Devices



Cloud apps



Data

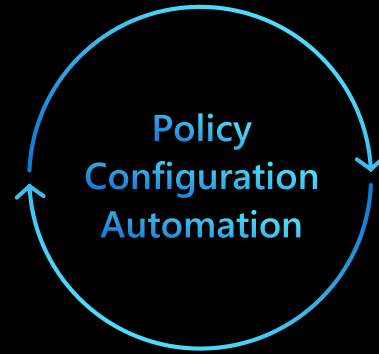


Infrastructure

Microsoft Endpoint Manager

Azure Arc

Management



Microsoft Threat Protection



Identity



Devices



Cloud apps



Data



Infrastructure

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Job openings for software engineers

61%

of job openings for developers
are outside of tech sector

Other industries

Tech industry

Complete toolchain for developers



Visual Studio



Azure DevOps



GitHub

The screenshot shows a GitHub issue page for the repository 'lostintangnt / Conduit', which is a fork of 'gothinkster/django-realworld-example-app'. The issue title is 'Cleanup some TODOs in the Python code #8'. The issue is currently open, was created by 'arjun27' 4 days ago, and has 0 comments. The issue is labeled 'good first issue' and assigned to 'lostintangnt'. The main comment from 'arjun27' asks for help with TODOs in the Python codebase and suggests using Visual Studio Online environment. The right sidebar shows settings for assignees, labels, and projects.

lostintangnt / Conduit
forked from gothinkster/django-realworld-example-app

Unwatch 2 Unstar 2 Fork 214

Code Issues 1 Pull requests 1 Actions Projects 0 Wiki Security Insights Settings

Cleanup some TODOs in the Python code #8

Open arjun27 opened this issue 4 days ago · 0 comments

arjun27 commented 4 days ago · edited by lostintangnt

Collaborator + 😊 ...

There are a couple of todos in the Python codebase. Could someone take care of those? To simplify your setup, you can spin up a [Visual Studio Online environment](#). Directly from the browser! 🚀🔥

arjun27 added the **good first issue** label 4 days ago

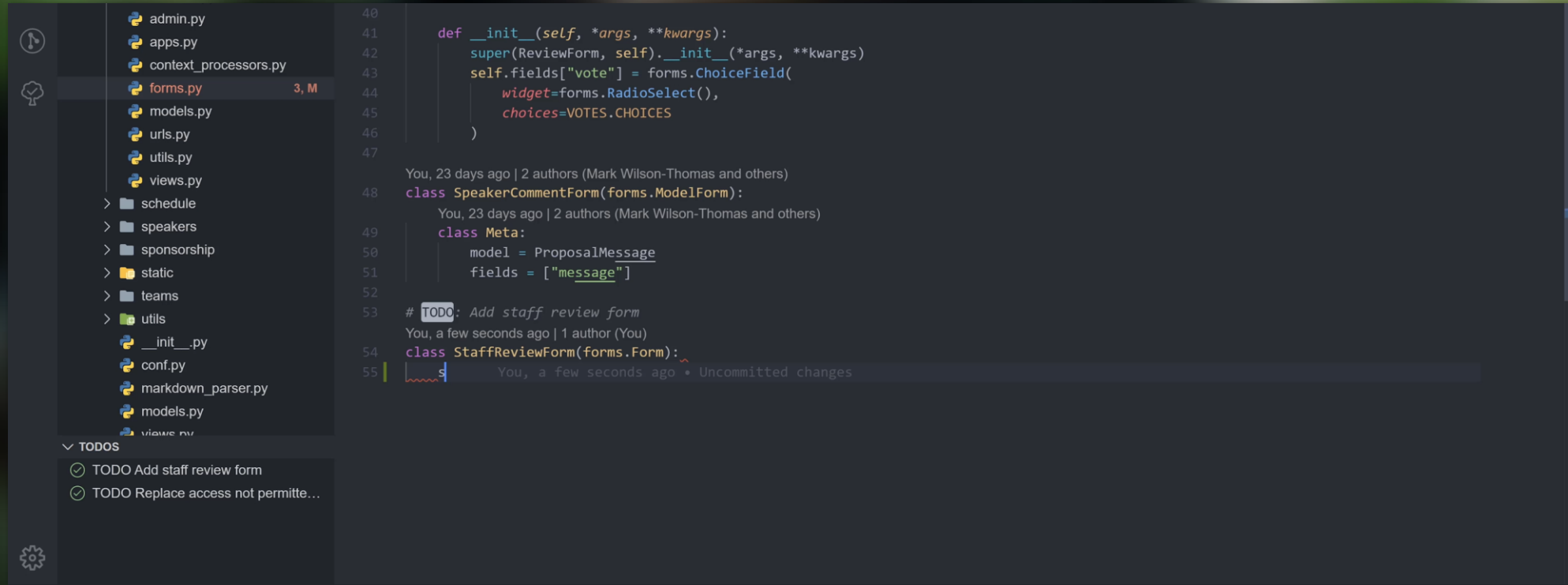
arjun27 assigned lostintangnt 4 days ago

Assignees: lostintangnt

Labels: good first issue

Projects: None yet

Visual Studio Online



Visual Studio IntelliCode

The screenshot displays the Visual Studio Live Share interface. On the left, a sidebar contains a list of contacts (Erich Gamma, Peter Lisy) and a 'Suggested contacts (0)' section with an 'Invite participants...' button. Below this is a 'HELP' section with links for 'Tweet us your feedback', 'Report a problem', 'Configure Settings', and 'More Info'. The main area is a code editor showing Python code for Django forms. The code includes a `SpeakerCommentForm` class and a `StaffReviewForm` class. A `# TODO: Add staff review form` comment is visible. The right sidebar shows a chat window with a message from Arjun Attam: 'Hey, welcome to the team! I'm excited to be your mentor. Feel free to ping me for any questions'. The status bar at the bottom indicates 'Python 3.7.5 64-bit (pythonenv3.7: venv)', 'Jonathan', 'Live Share', and 'Azure: joncart@microsoft.com'.

```
44         widget=forms.RadioSelect(),
45         choices=VOTES.CHOICES
46     )
47
48     You, 23 days ago | 2 authors (Mark Wilson-Thomas and others)
49     class SpeakerCommentForm(forms.ModelForm):
50         You, 23 days ago | 2 authors (Mark Wilson-Thomas and others)
51         class Meta:
52             model = ProposalMessage
53             fields = ["message"]
54
55         # TODO: Add staff review form
56         You, a few seconds ago | 1 author (You)
57         class StaffReviewForm(forms.Form):
58             staff_ids = forms.CharField(
59                 label=_("Staff IDs"),
60                 max_length=5000,
61                 help_text=_("Staff IDs")
62             )
```

Visual Studio Live Share

Tech intensity

Power Platform

Microsoft 365

Dynamics 365

Developer Tools

Trust

Azure



1970



1990



2010

Reactive



Production line down



Service center operator logs issue



Emergency service visit



Customer disruption resolved

MOISTURE



±3%RH

NITROGEN
19ppm

Recommendation:
25ppm

POPULATION
45%
358444.1

FOOD PRODUCTS
56%
685442

TEMPER





Heart rate at steady rhythm. No immediate concerns. Patient health at premium level for surgical procedure.

Monitoring system secure and downloaded to main server. Video playback enabled. To be shared with residence in the left wing only.

BP stable

Step 3 of 7: 4 hours remaining
Primary incision made



EXIT

\$39

TAKE AN ADDITIONAL 20% OFF YOUR PURCHASE

RECEIVE 20% OFF WITH PURCHASE

Customer data recorded and applied


40

\$199

TAKE AN ADDITIONAL 20% OFF YOUR PURCHASE

Smart device applies all sales available to items collected


Reactive



Production line down



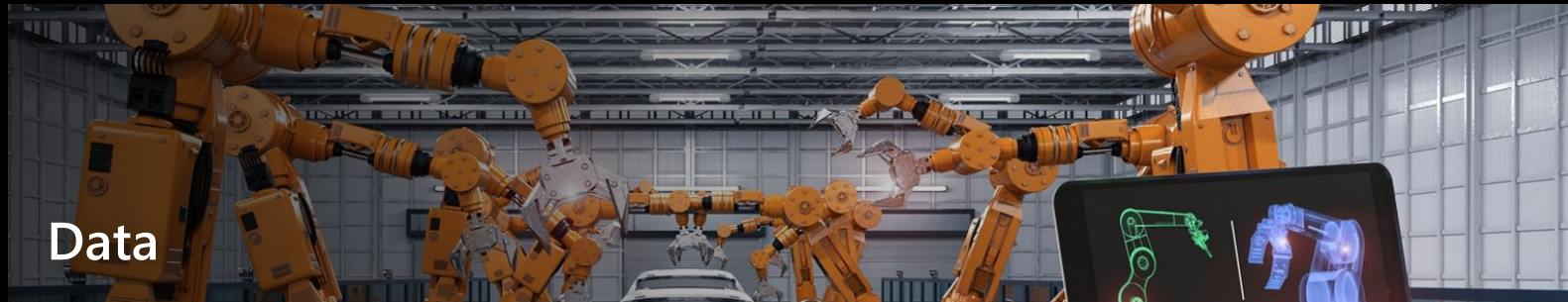
Service center operator logs issue



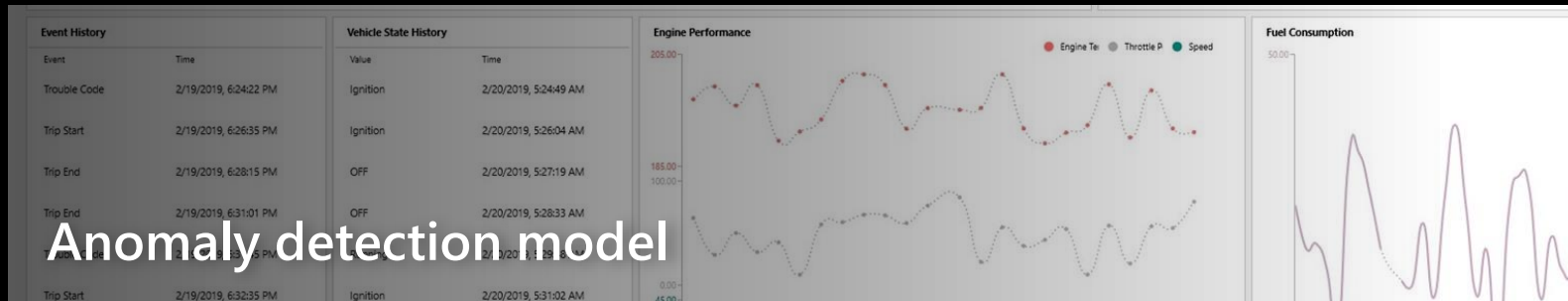
Emergency service visit



Customer disruption resolved



Data



Anomaly detection model

Proactive



Proactive maintenance visit

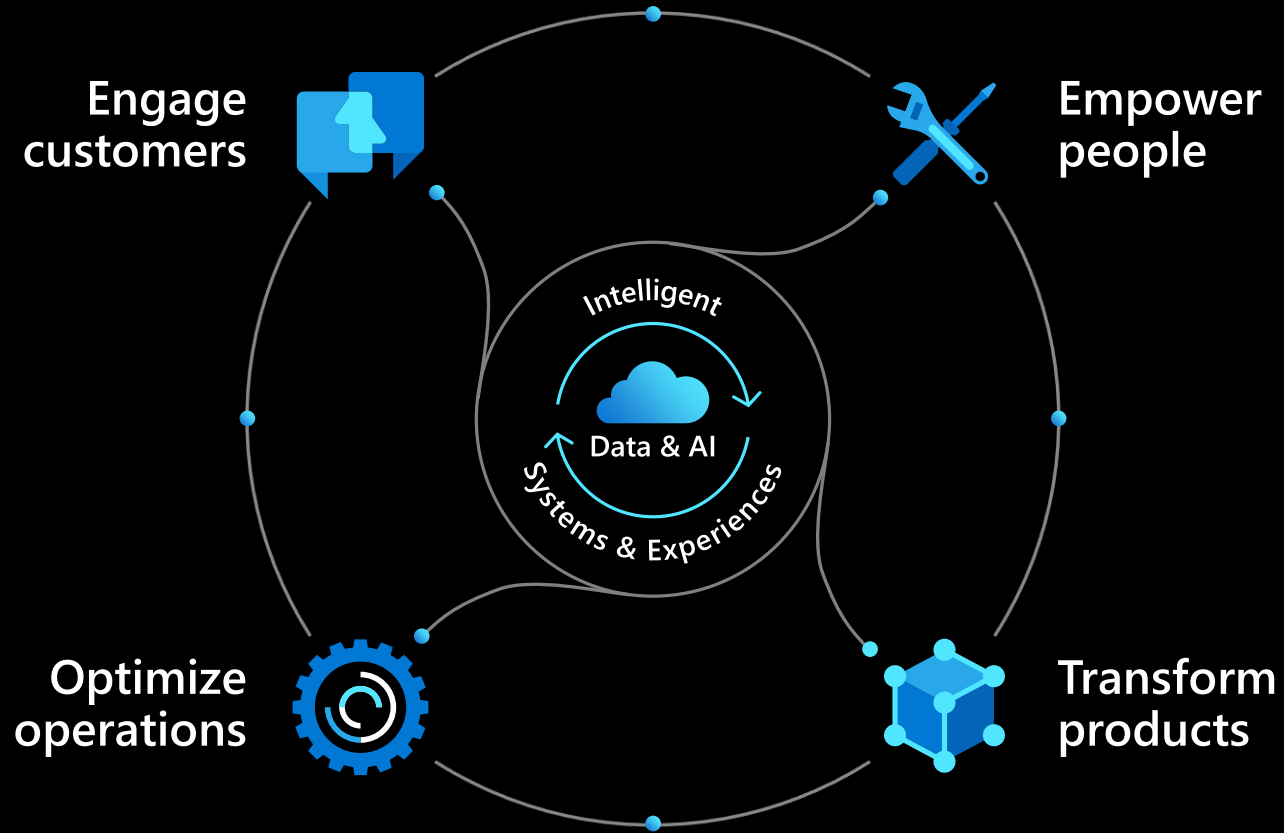


Customer never disrupted

AI

IoT

Mixed reality



Microsoft Business Applications

February 2020

Dynamics 365
Finance

Dynamics 365
Supply Chain Management

Dynamics 365
Project Service Automation

Dynamics 365
Guides

Finance and Operations

Dynamics 365
Human Resources

Human Resources

Dynamics 365
Commerce

Dynamics 365
Fraud Protection

Dynamics 365
Connected Store

Commerce

Dynamics 365
Business Central

SMB

Dynamics 365
Market Insights

Dynamics 365
Customer Insights

Dynamics 365
Product Insights

Customer Data Platform

Power Apps

Power Automate

Power BI

Power Virtual Agents

Microsoft Power Platform

Dynamics 365
Marketing

Marketing

Dynamics 365
Sales

Dynamics 365
Sales Insights

Dynamics 365
Product Visualize

Sales

Dynamics 365
Customer Service

Dynamics 365
Customer Service Insights

Dynamics 365
Field Service

Dynamics 365
Remote Assist

Service

Forms Pro

Dynamics 365
Layout

Additional Products

Tech intensity

Power Platform

Microsoft 365

Dynamics 365

Developer Tools

Trust

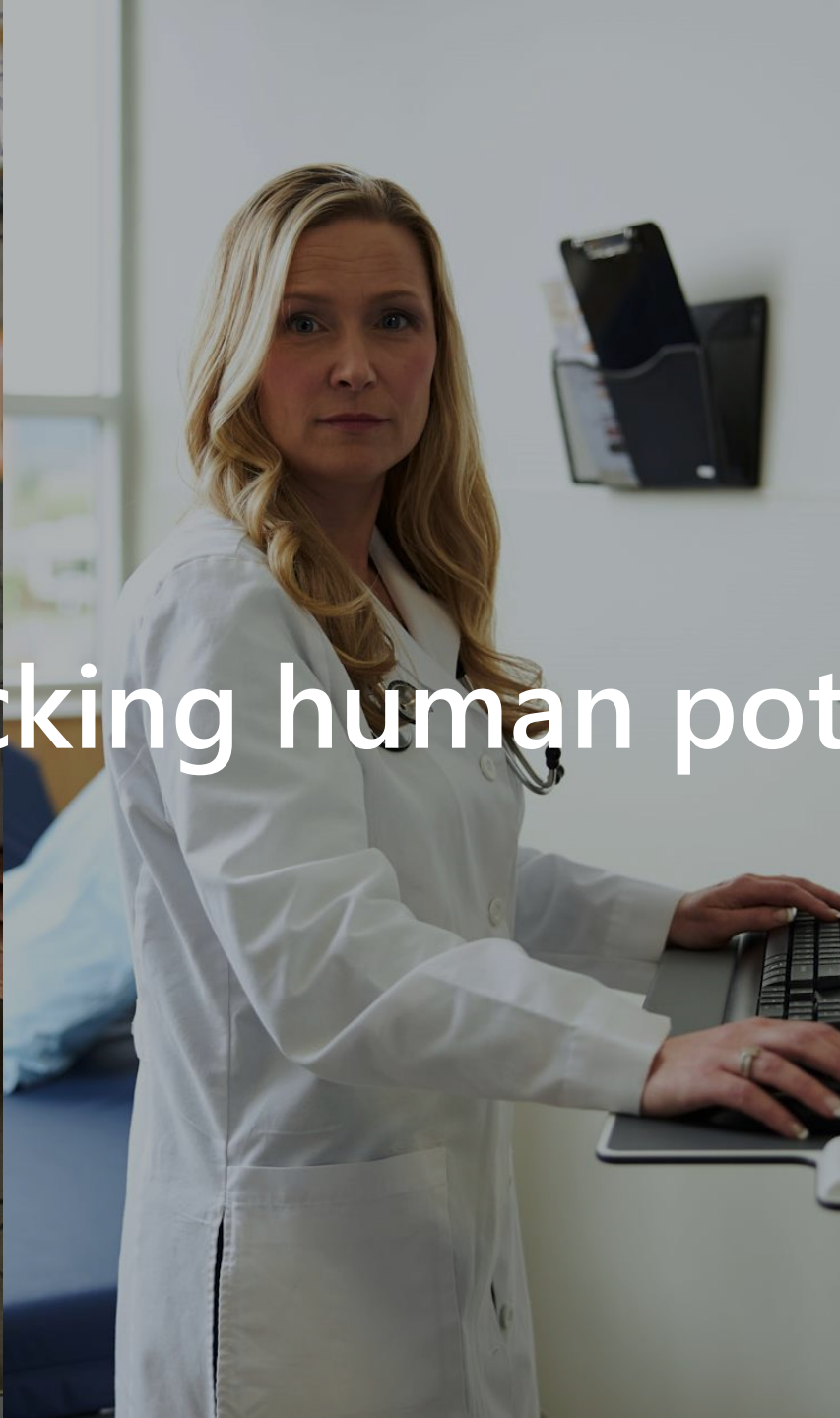
Azure

25

minutes to return to original task
after being interrupted

40%

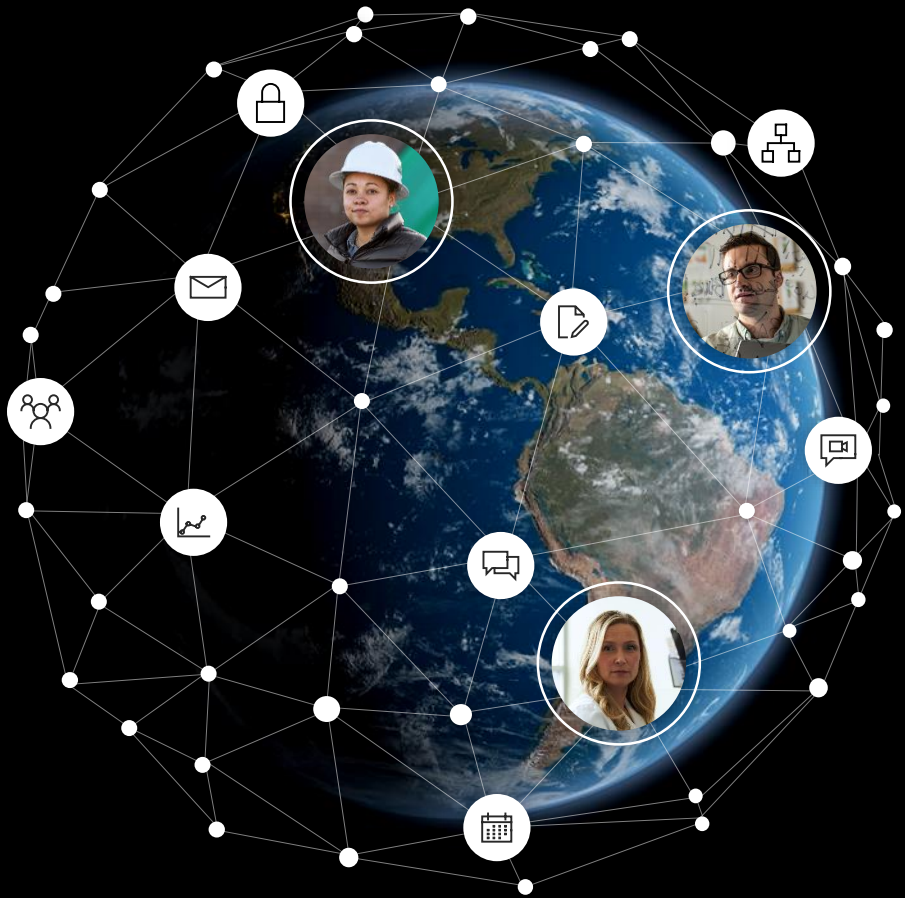
decrease in productivity
when multitasking



Unlocking human potential

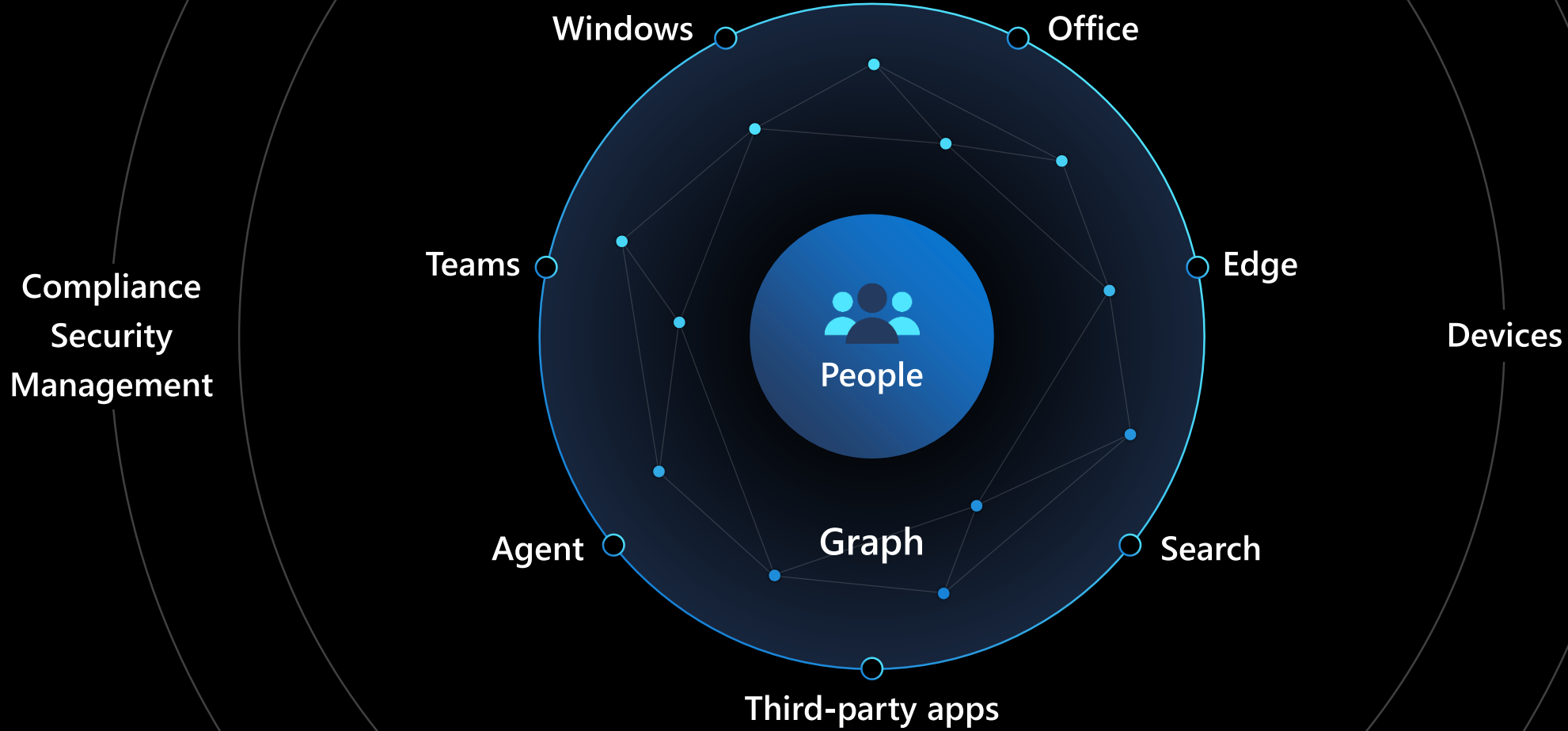


**Empower every person and
every organization on the
planet to achieve more**



Microsoft 365

The world's productivity cloud



- 1 Microsoft Project Update
- 2 Project Scope
 - Implement aspects of our branding for customer recognition and continuity
 - Communicate the unique benefits of our latest innovation
 - Minimize the risk of missing key milestones
 - Gather success and future key takeaways from prior iteration
- 3 Goals
 - Showcase our cognitive services
 - Build on our previous success
 - Connect with our customers
 - Interest branding should be unique and creative
 - Emotional connection to AI is key
- 4 Milestones
 - 11/7 - Budget planning
 - 11/14 - Research phase
 - 12/15 - Content/design concept development
 - 1/3 - Research phase 2
 - 1/20 - Content design web site creation
 - 3/12 - Market testing
 - 3/20 - Finalize website design and content
 - 6/5 - Release to market

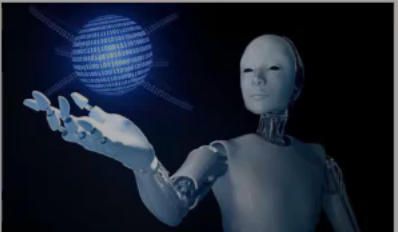
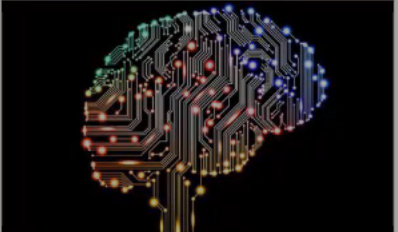


Microsoft Project Update

AI and Cognitive Services

Ideas (Preview)

Search Bing

Creative Commons only

You are responsible for respecting others' rights, including copyright. [Learn more here](#)

Powered by Bing

File Home Insert Page Layout Formulas Data Review View Help Table Design

Clipboard: Paste, Cut, Copy, Format Painter

Font: Calibri, 11, Bold, Italic, Underline, Color, Background Color

Alignment: General, Merge & Center

Number: \$, %, .00, .0

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format

Editing: AutoSum, Fill, Clear, Sort & Filter, Find & Select

Ideas: Ideas

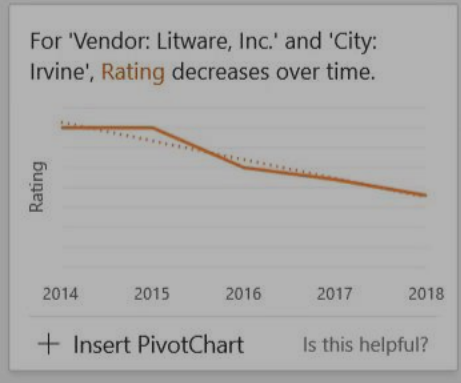
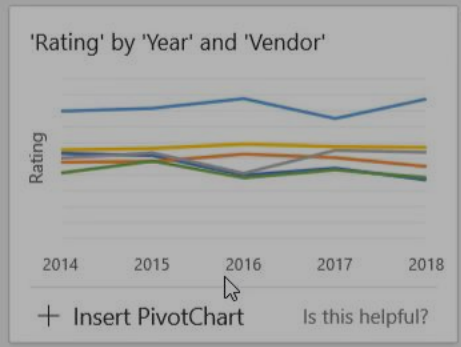
A3 Year

Year	Vendor	City	Avg. Parts Cost	Rating
2017	Fabrikam	Atlanta	\$ 70	44%
2014	Fabrikam	Charlotte	\$ 60	80%
2016	Fabrikam	Mexico City	\$ 60	23%
2017	Fabrikam	Boston	\$ 51	32%
2018	Fabrikam	Irvine	\$ 41	44%
2018	Northwind	San Francisco	\$ 340	47%
2017	Northwind	Atlanta	\$ 270	62%
2016	Northwind	Chicago	\$ 260	64%
2014	Northwind	Silicon Valley	\$ 250	60%
2015	Northwind	Seattle	\$ 180	46%
2015	Lucerne	Calgary	\$ 711	60%
2014	Lucerne	Detroit	\$ 561	44%
2016	Lucerne	Denver	\$ 502	40%
2017	Lucerne	Atlanta	\$ 470	50%
2018	Lucerne	Charlotte	\$ 451	66%
2015	Litware, Inc.	Atlanta	\$ 440	52%
2014	Litware, Inc.	Atlanta	\$ 240	20%
2016	Litware, Inc.	Atlanta	\$ 230	38%
2017	Litware, Inc.	St. Louis	\$ 220	50%

Ideas

Irvine \$7,947
St. Louis \$7,000

+ Insert PivotTable Is this helpful?





Details People

Update from the field

Published on 10/14/2019 by Mary Votava Sheppard Company 6 0

Share Add to watchlist Like

View settings

Transcript

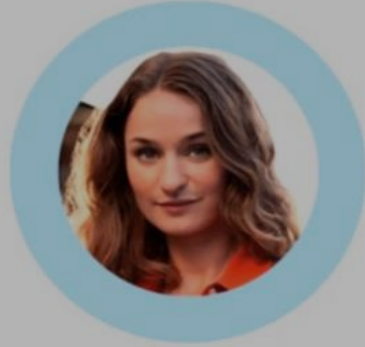
Search transcript

- 00:01 Hey folks got your messages I'm looking into the unit failure.
- 00:05 We will have a permanent fix rolling out shortly. But in the
- 00:09 meantime, we've come up with a work around. It's basically a
- 00:12 manufacturer issue where if you're running for a long period
- 00:15 of time, there seems to be some thermal issues that are tripping
- 00:19 a breaker so if you're running for short periods of time you

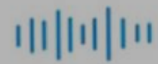
More from trending videos

- Updates from the executive offsite 2 views 01:03
- Contoso Marketing Opportunity 1 view

4:21



flag that for later



Microsoft Teams

The hub for teamwork



Chat



Meetings



Collaboration



Business process

- Teams**
- Your teams
 - Project Tailspin
 - General
 - Design
 - Digital Assets Web
 - Go to Market Plan
 - Launch Event
 - 1 hidden channel
 - Event Planning
 - General
 - Giveaways
 - Logistics
 - New Features (NDA)** 🔒
 - 3 hidden channels
 - Sales
 - General
 - Executed Contracts 🔒
 - Market Research
 - Master Service Agreements 🔒
 - Project Estimates
 - 3 hidden channels
 - Mark8 Project Team
 - Join or create a team

New Features (NDA) Posts Files +

Channel

Aya Tange sent a Poll
Due by Fri, Nov 8, 2019 11:30 AM

Event staff attire

Responses are visible to everyone


- T-shirt
- Hoodie
- Quarter zip
- Polo

Aya Tange, Megan Bowen, Marissa Salazar and 1 other responded

[Submit Vote](#) [View Result](#)

← Reply

Marissa Salazar 10/16 1:23 PM 📎 🔔



Recent polls indicate a 20% uptick in user compatibility

With the roll out of user testing last month, each week we have seen a slow increase in user compatibility. This last week we saw the largest jump thus far, moving us into the 80% range ahead of launch!!!

← Reply



Lynne Robbins



Alex Wilber



Diego Siciliani



Megan Bowen

08:54

Pop out meeting





Yammer

Communities About

Feed

CEO Connection

Conversations

About

Files

Events

My Communities

CEO Connection

New Employee Onboar...

Sales Best Practices

Giving Campaign

Ask HR

View All



✓ Joined

CEO Connection



Share something with this group



Megan Bowen

49m ago

Seen by 1

Be sure to join our upcoming townhall on Nov 11th where we'll be announcing our new CEO! 🎉

Members 20



Info

Edit

Contribute your ideas and ask your questions to our leadership team. And tune in for regular Employee Q&A live events. You can learn more about what's top-of-mind at our Leadership Connection site.

How to ask a question:

👁️ Read through this group to see if your question has already been asked. If so, vote it up by liking or commenting.

🗉 Don't see it? Post a new question.

🗣️ Patti will answer questions based on what's on most employees' minds.

Create New Event

File Home Send / Receive Folder View Help Tell me what you want to do

New Email New Items Delete Archive Reply Reply All Forward Quick Steps Move Move to: ? To Manager Team Email Rules Assign Policy Categorize Follow Up New Group Browse Groups Search People Address Book Filter Email Read Aloud Get Add-ins Send to OneNote Share to Teams Insights

- Inbox 16
 - Sent Items
 - Deleted Items 21
- MeganB@MSIgnite2019a.OnMic...
 - Inbox 16**
 - Drafts
 - Sent Items
 - Deleted Items 21
 - Archive
 - Conversation History
 - Junk Email
 - Outbox
 - RSS Feeds
 - Search Folders
 - Groups
 - Online Archive - MeganB@MSIg...

Search Current Mailbox Current Mailbox

Focused Other By Date

Today

- Lee Gu Website updates Hi Megan, I wanted to touch

Yesterday

- There's new activity in ... You have 1 message, 1 mention Mon 8:56 AM Social Media Lets use this

Last Week

- Nestor Wilke Sales Team Weekly Meeting Fri 10/25
 - There's new activity in ... You have 2 mentions Thu 10/24 Hi Launch Event, here is the
 - VC210 Staff Meeting Thu 10/24 Your request was accepted.
 - Aya Tange in Teams Aya sent a message Tue 10/22 Awesome - looking forward to
 - Marissa Salazar Lunch? Tue 10/22
 - You have new messag... Nestor and Marissa sent 2 m... Tue 10/22 Does anyone have a

Website updates

Lee Gu <LeeG@MSIgnite2019c.OnMicrosoft.com>
To Megan Bowen

Website Copy v3.docx 166 KB
Design Guidelines.pptx 7 MB

Reply Reply All Forward

Tue 10/29/2019 5:25 AM

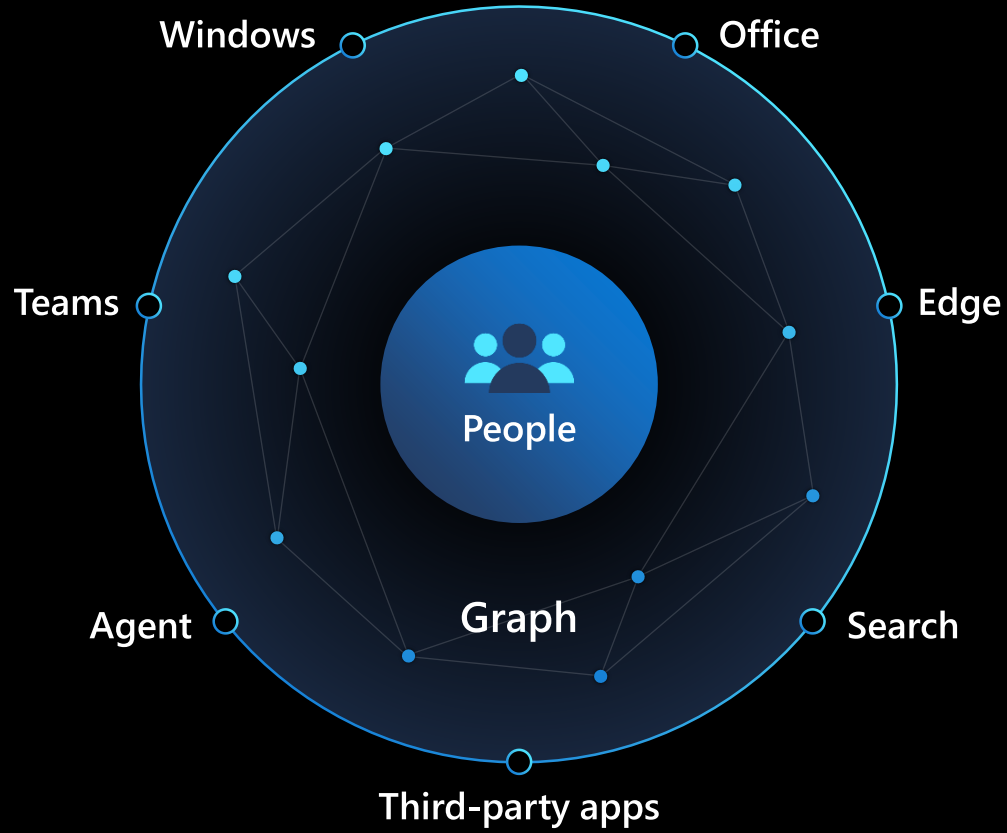
Action Items + Get more add-ins

Hi Megan,

I wanted to touch base on the design updates to our website we discussed last week. I've attached our design guidelines, as well as some website copy I've been working on.

Will you speak with your team and let me know if it's something you think you can help us with? Thanks!

Compliance
Security
Management



Devices

Knowledge



Productivity / Workflow / Management / Security / Compliance / Knowledge

New Microsoft 365 services and updates

Microsoft Teams / Compliance Score / Microsoft Edge and Bing / Office Mobile App / Fluid Framework / AI in Office

Microsoft Stream / Microsoft Endpoint Manager / Project Cortex / Power Platform integration with Teams / Office Scripts

Microsoft Authenticator / Global Reader / Yammer / Application Guard for Office / Microsoft Defender Advanced Threat

Protection (ATP) / Office 365 Groups / Workplace Analytics / Insider Risk Management / Microsoft Productivity Score

Onboarding Hub / Microsoft Project / New value in Azure AD / Microsoft Search / Cortana / Managed Meetings Rooms

Microsoft 365 Business: Security



Defend against
cyberthreats



Protect
business data



Manage
your devices

Office 365 Advanced Threat Protection

Microsoft Defender

+ Azure Multi Factor Authentication **NEW**

+ Self Service Password Writeback **NEW**

Office 365 Data Loss Prevention

Azure Information Protection

Exchange Online Archiving

+ Conditional Access **NEW**

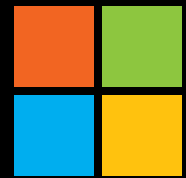
Intune

Windows Virtual Desktop **NEW**

+ Office 365
Shared Computer Activation **NEW**

Hydra Security





Coffee Break

Tech intensity

Power Platform

Microsoft 365

Dynamics 365

Developer Tools

Trust

Azure

Power Platform momentum

> 700%

growth in PowerApps production apps in the last year

> 300%

growth in PowerApps Monthly Active Users in the last year

> 3M

Monthly Active Developers on the Power Platform

97%

of all Fortune 500 companies using Power Platform

> 20PB

of data ingested into Power BI each month

> 25M

data models hosted in the Power BI service

> 25B

Microsoft Flow steps run each day

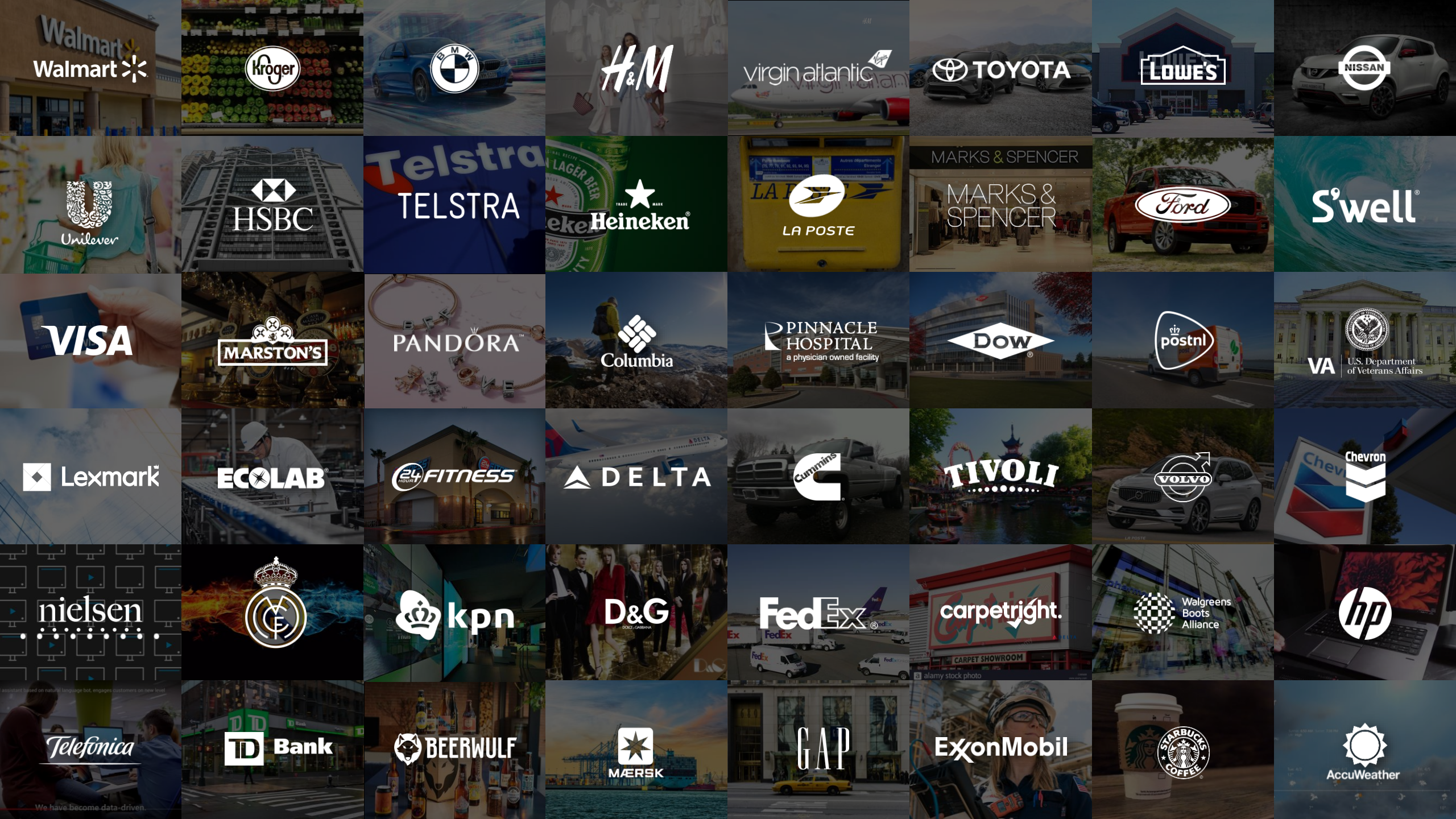
Business apps

500M+

business apps by 2023

529M

72M



Walmart



H&M

virgin atlantic

TOYOTA

LOWE'S



HSBC

TELSTRA



MARKS & SPENCER



S'well

VISA

MARSTON'S

PANDORA



PINNACLE HOSPITAL
a physician owned facility

DOW

postnl

VA
U.S. Department of Veterans Affairs

Lexmark

ECOLAB

24 HOUR FITNESS

DELTA



TIVOLI



nielsen



kpn

D&G
DOLCE & GABBANA

FedEx

carpetright.



Telefonica

TD Bank

BEERWOLF



GAP

ExxonMobil



Power Platform

**Empowering
citizen developers**

2.5M

citizen developers

Microsoft Power Platform



Power BI



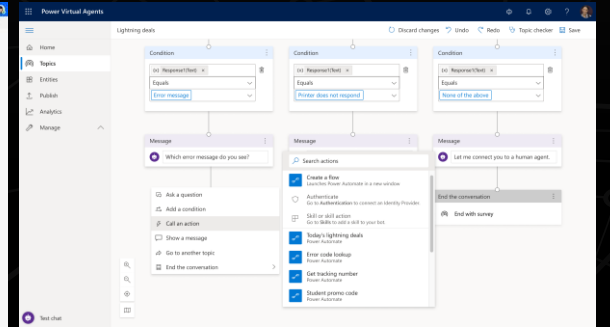
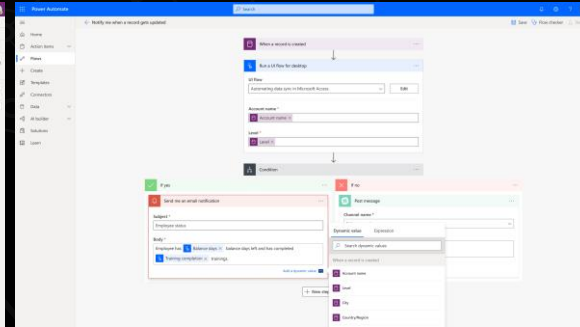
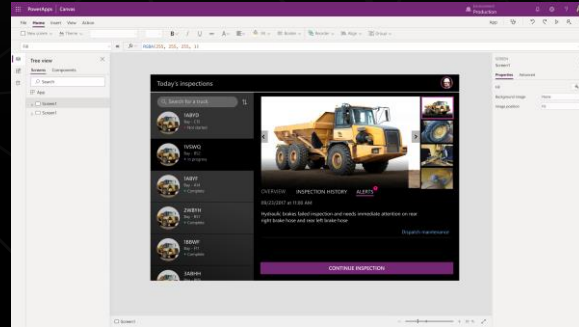
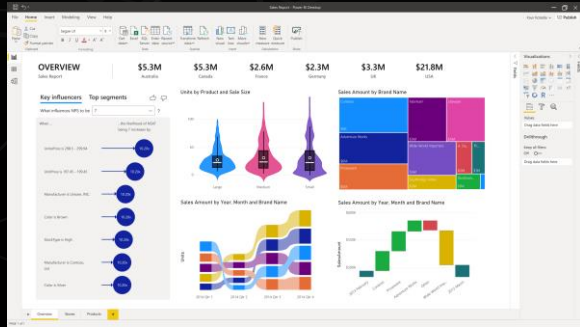
Power Apps



Power Automate



Power Virtual Agents



Common Data Service



Connectors to hundreds of data sources

PowerApps: a low-code approach to building apps



Easily build apps with a full featured low-code / no-code platform



Connect to your existing data with 250+ pre-built connectors and custom connectors



Store your data in the Common Data Service



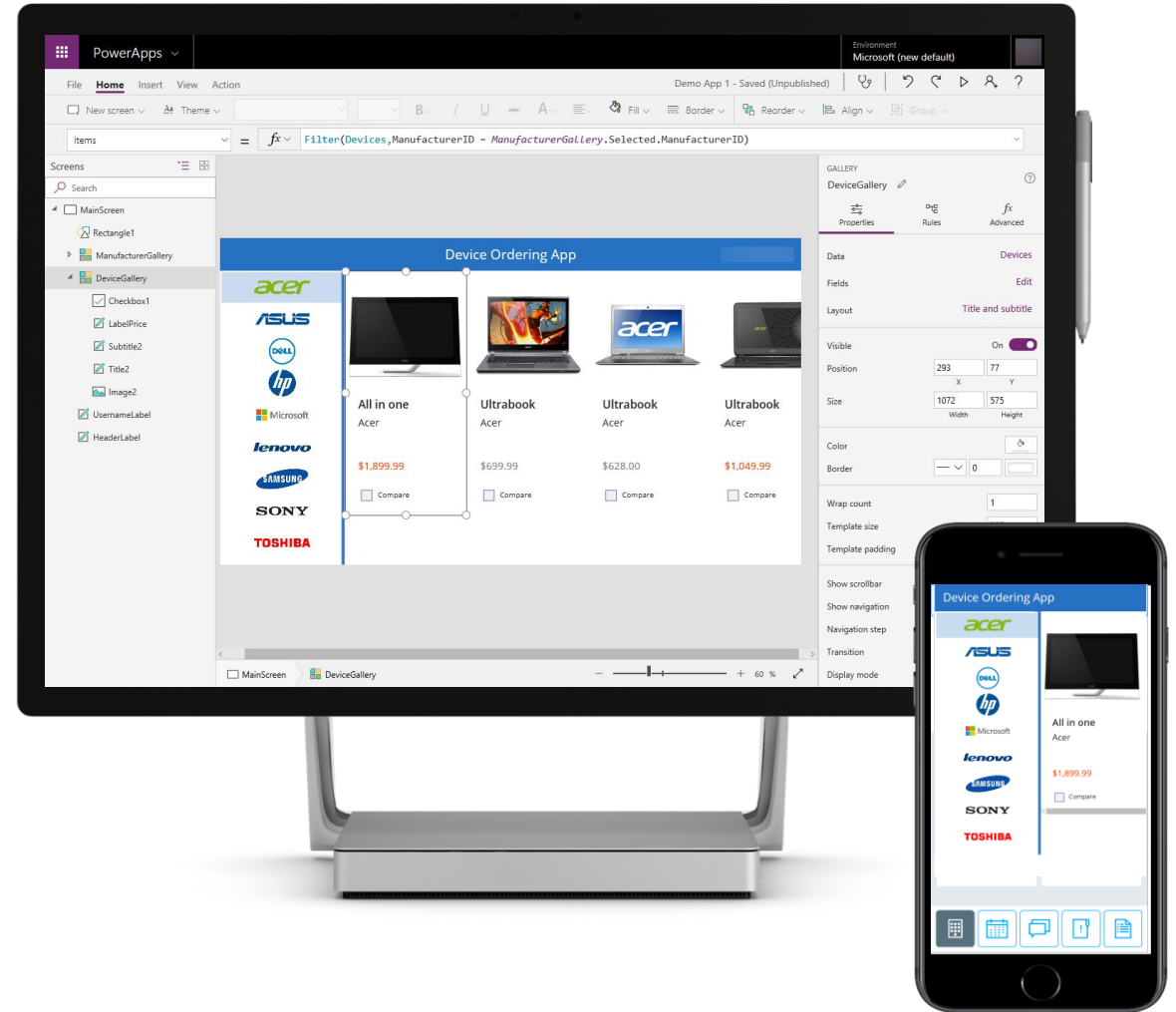
Integrated with Office 365, Azure, Dynamics 365, and Power BI



Strong enterprise governance & security

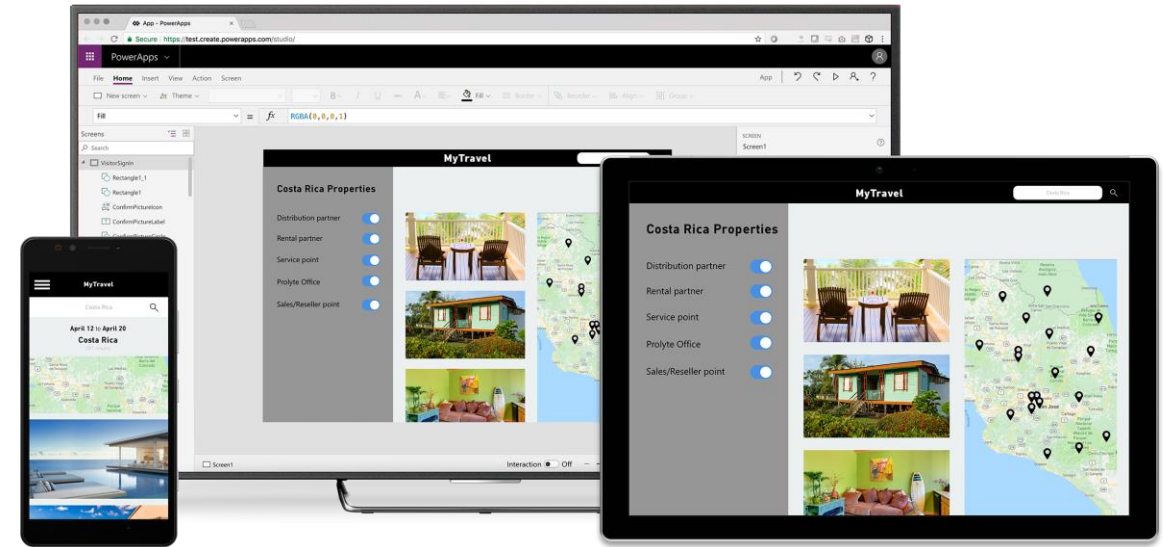


Pro-dev extensibility



Build and consume solutions for web and mobile with PowerApps

- Build highly customized task- and role-based canvas apps with data from one or multiple sources
- Generate immersive model-driven apps, starting from your data model and business processes
- Consume fully accessible apps across web and mobile, embedded or standalone, on any device



Enterprise-grade

Cloud and on-premises connectivity

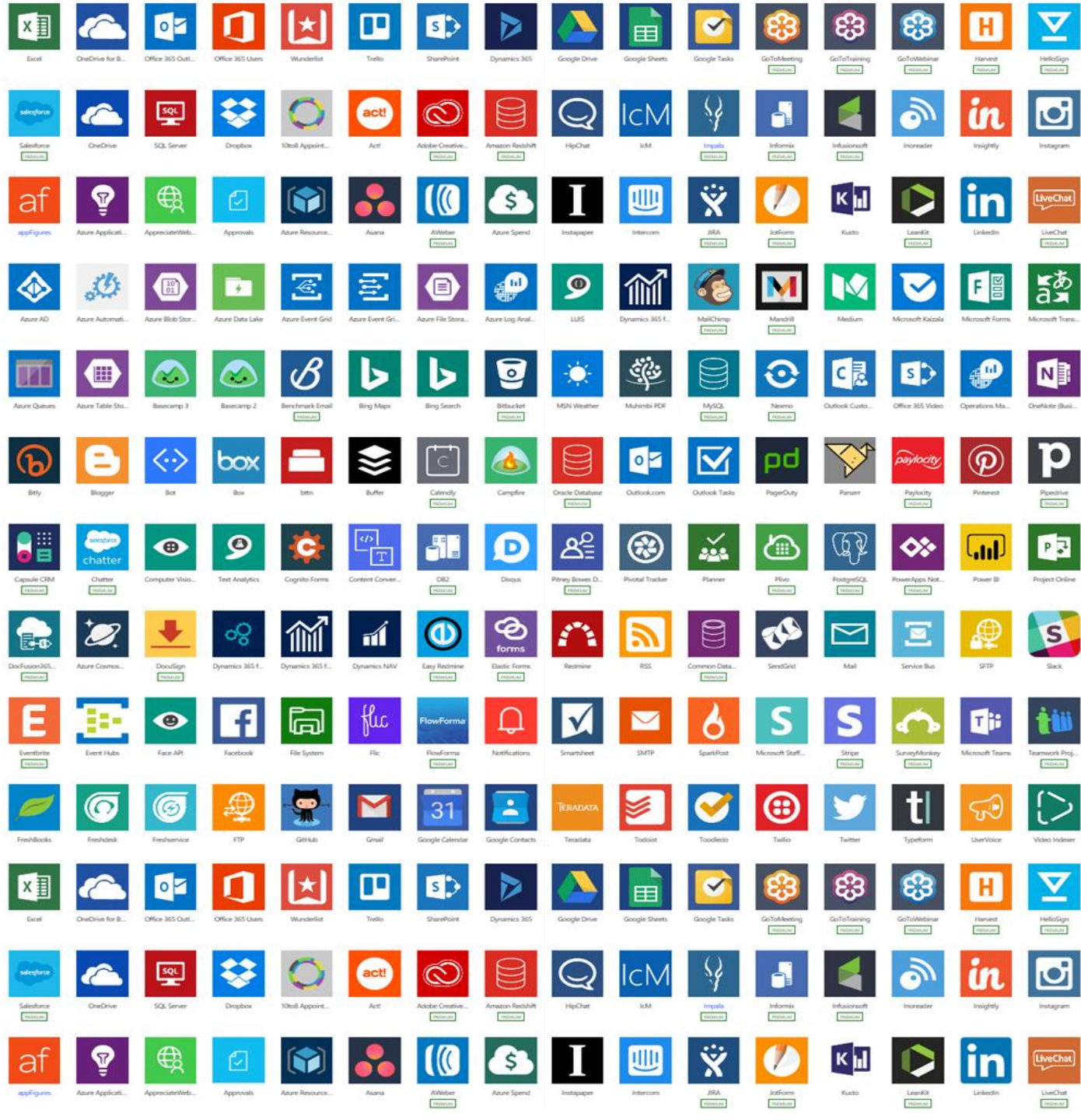
Pro-developer extensibility

230+ built-in connectors + custom connectors

Seamless hybrid connectivity to on-premises systems via the On-Premises Data Gateway

Custom Connector support allows the registration of developer / IT systems as a building block for citizen developers

Use multiple data sources in a single application for processes that span systems.



Hydra Power

