



Low-code, no-code, code – Microsoft Power Platform and developers

Juha Karvonen

8.9.2022

Uutinen

Low-code-ohjelmointi on tekemässä läpimurtoa – ”jo 2 viikon jälkeen oli näytettävää”

TIVI 2.9.2022 10:08 | päivitetty 2.9.2022 10:08 OHJELMISTOKEHITYS

Vähäkoodisiin kehitysalustoihin on liitetty paljon toiveita ohjelmistokehityksen kiihdyttämisestä. Viimein toiveet ovat muuttumassa todeksi.



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No-code and Low-code: Making software development access available to all

The low-code/no-code platforms have spanned into various fields to make the task of product-building easier. Its first and foremost application is in website building. To build a website, you no longer need to be an expert in HTML, CSS, or other programming languages. It even reduces the barriers to the adoption of data science in small and medium-sized businesses. Parabola, Above, and Obviously AI can be used to predict data in minutes without any code.

ETCIO • September 06, 2022, 08:49 IST



UK TECH NEWS

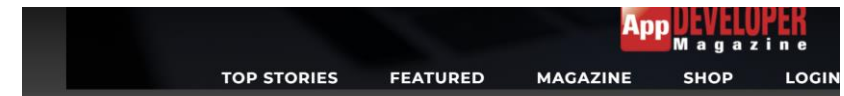
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How to use low-code app development to eliminate mountains of paper and become an app factory

INDUSTRY NEWS TECH THOUGHT LEADERSHIP



App DEVELOPER Magazine

TOP STORIES FEATURED MAGAZINE SHOP LOGIN

Will low code solve developer shortages



Michael Peres in Low Code No Code Thursday, September 1, 2022

A 2021 McKinsey survey found that 87% of US companies were seeing a developer shortage or were expecting one within the next few years, and skills and labor shortages are top on the list of CEOs' concerns. With the US Bureau of Labor Statistics predicting a 1.2 million shortfall in developers in the

Michael Peres (Mikey Peres) goes into detail about low-code and if low-code is enough to solve the developer shortage gaps, to what extent that

Welcome

jukarvon@microsoft.com

<https://www.linkedin.com/in/juha-karvonen/>

Cloud Solution Architect, App & Innovation (ISV)





Low-code, no-code, code – Microsoft Power Platform and developers

Why Care?

History

“The number of programmers available per computer is shrinking so fast that most computers in the future must be put to work at least in part without programmers”

James Martin, 1982

In his book: “Application Development Without Programmers”

4GL, Case tools, RAD...

Promised more than they could offer

Did not support best practices

Timing was off – Technology wasn't ready

Traditional application development is not an option

500 million
new apps will be built in
the next 5 years – more
than all apps built in the
last 40 years*



Tech
talent limitations



Ground up software
development takes time



Surging digital
demand

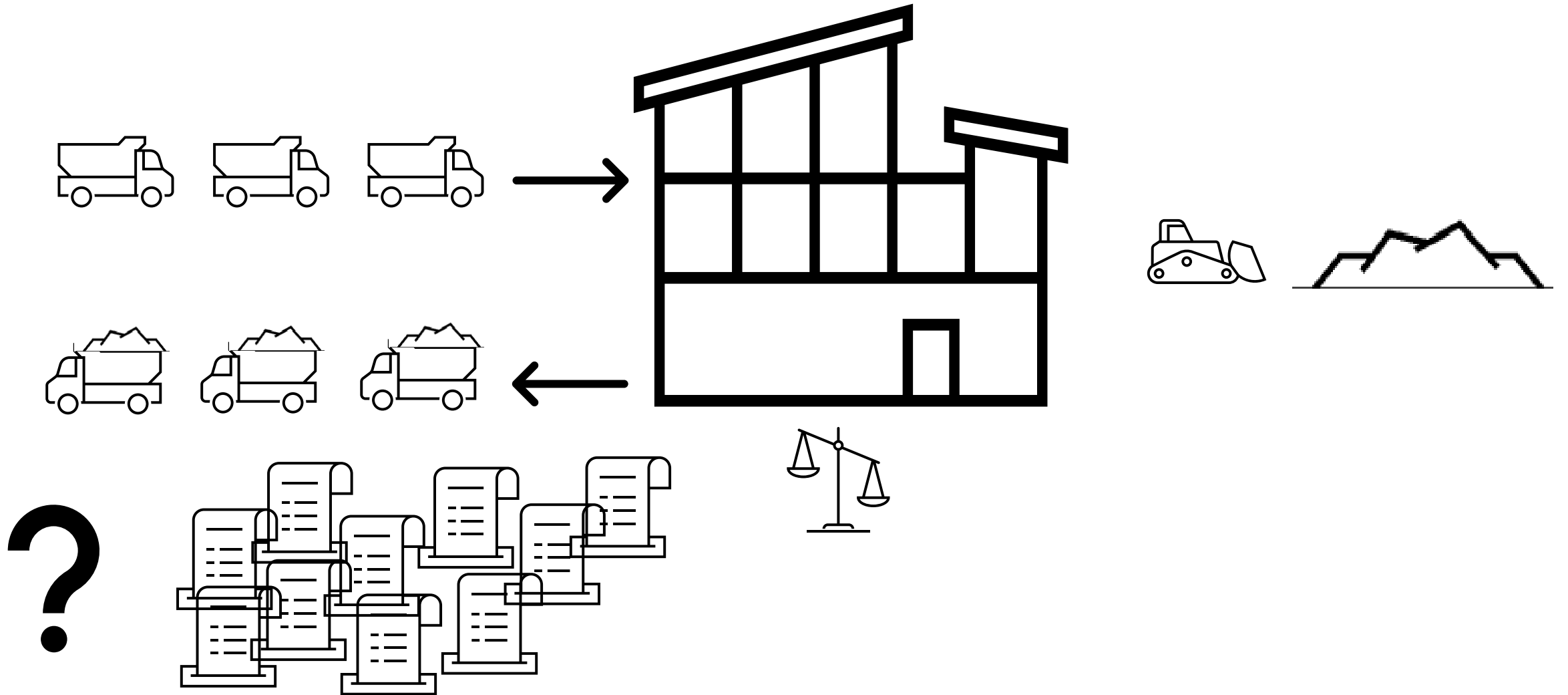


Security and
compliance Risks

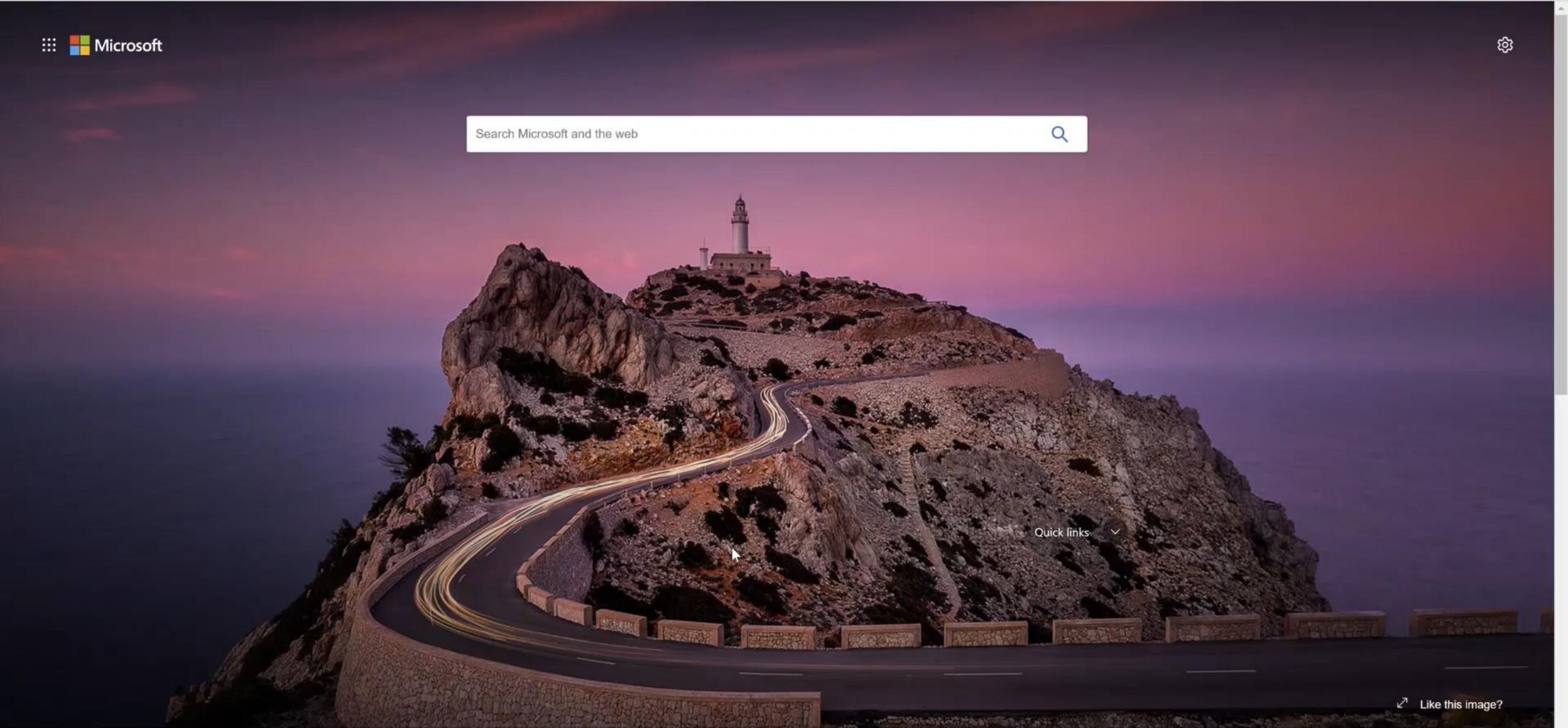
The need for resilience has never been clearer, but there are simply not enough developers to meet the growing need for digital transformation.

DEMO

Problem



Search Microsoft and the web

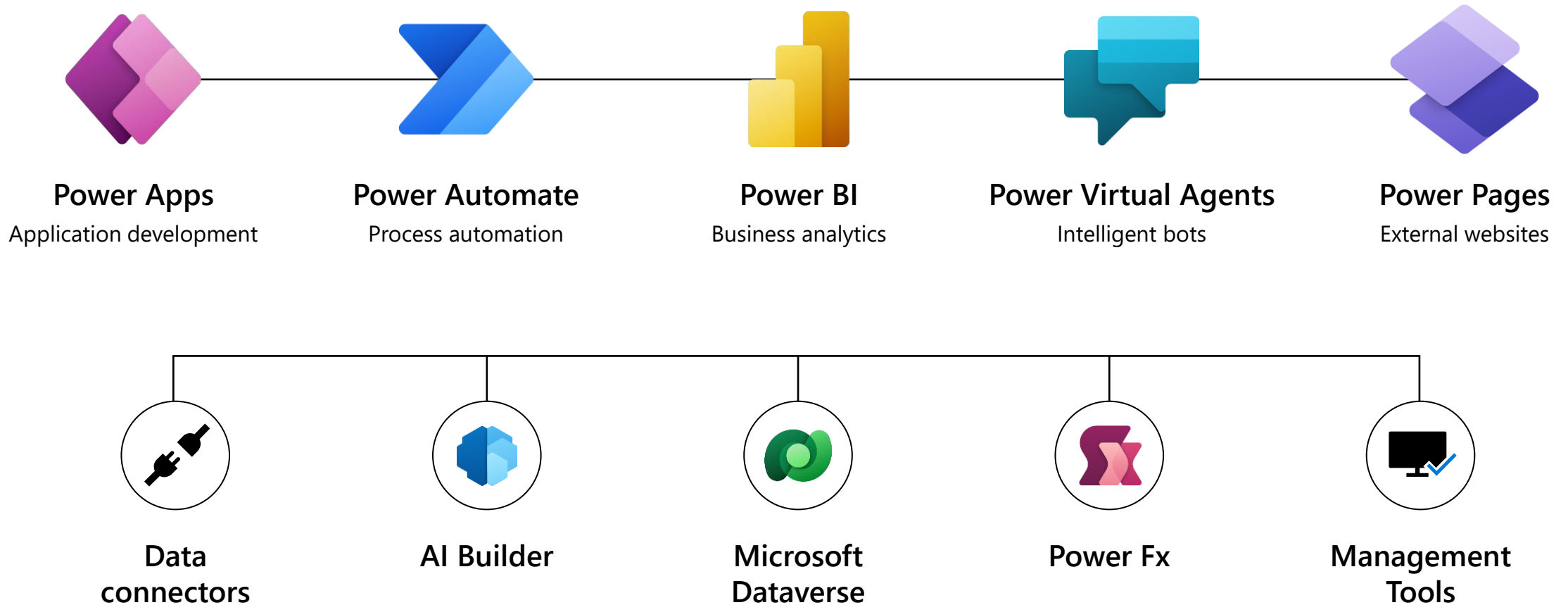


Quick links

Like this image?

Microsoft Power Platform

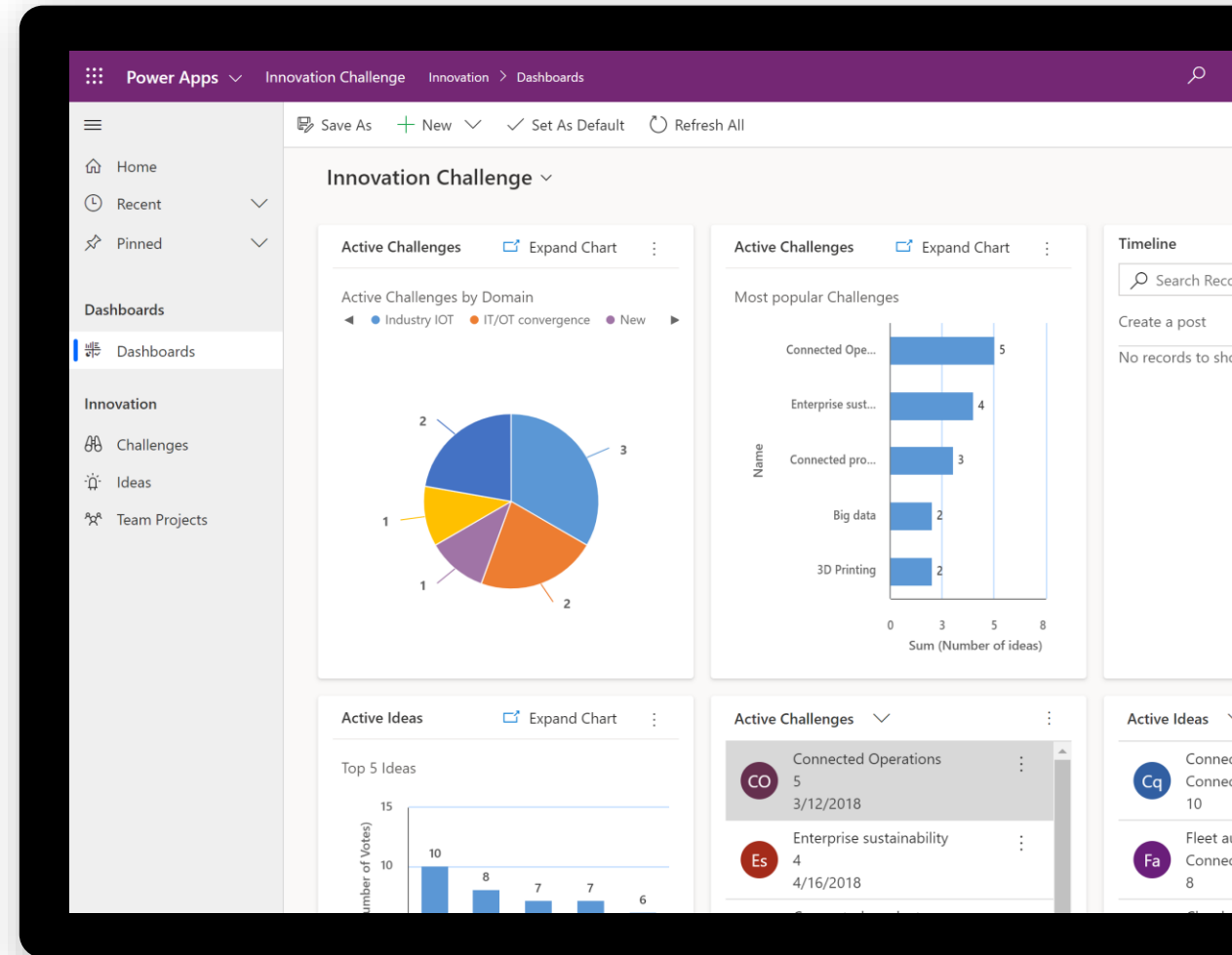
The low-code platform that spans Office 365, Azure, Dynamics 365, and standalone applications



Power Apps

Empower everyone to create apps

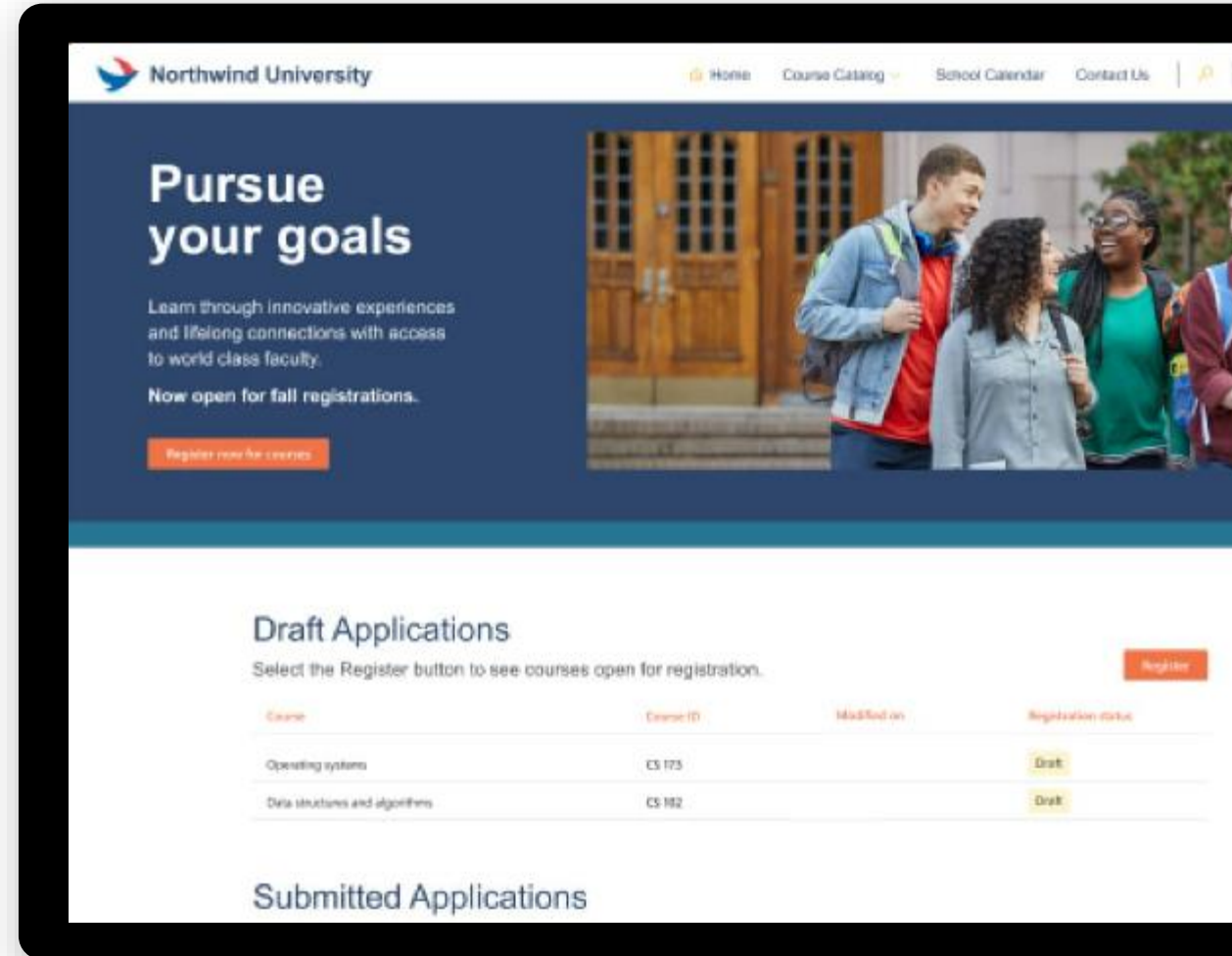
- Use Power Apps to rapidly create web and mobile front ends using a drag and drop UI.
- Build once and deploy apps in one click across iOS, Android, Windows, and Web.
- Customize every detail of an app to optimize for specific tasks, roles, and industries.
- Enable pro developers to create re-usable components to share with citizen developers.
- Connect to data using pre-built or custom connectors.



Power Pages

Empower everyone to create websites

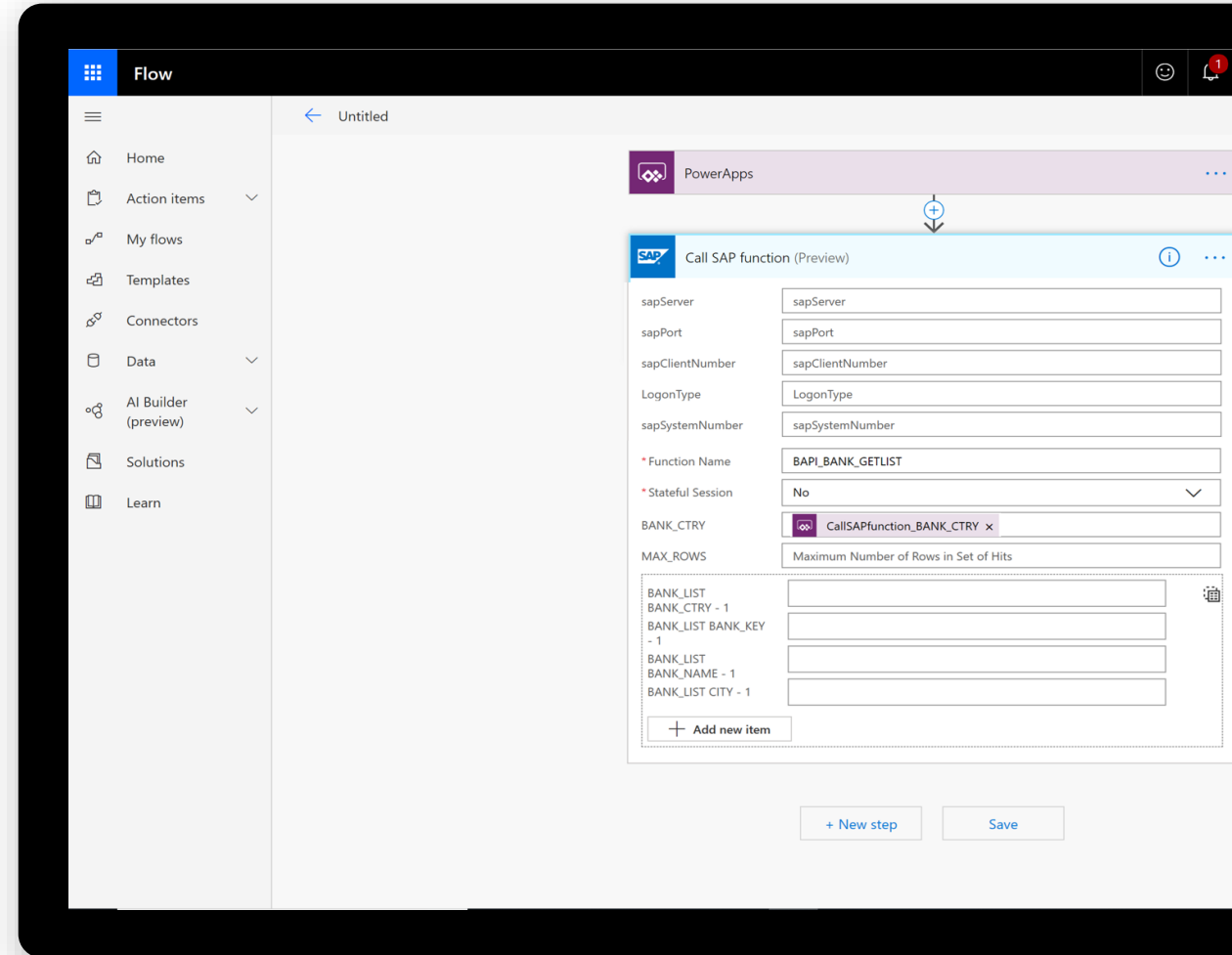
- Use Power Pages to rapidly create secure, low-code business websites.
- Securely store and manage your data in Microsoft Dataverse.
- Get started quickly with templates that are ready to go, out of the box.
- Create pixel perfect sites in the design studio allowing complete control over every aspect of design.
- Build with pro tools and give developers the ability to add rich functionality in Visual Studio Code, Github, and Azure DevOps.



Power Automate

Automate business processes across Power Platform

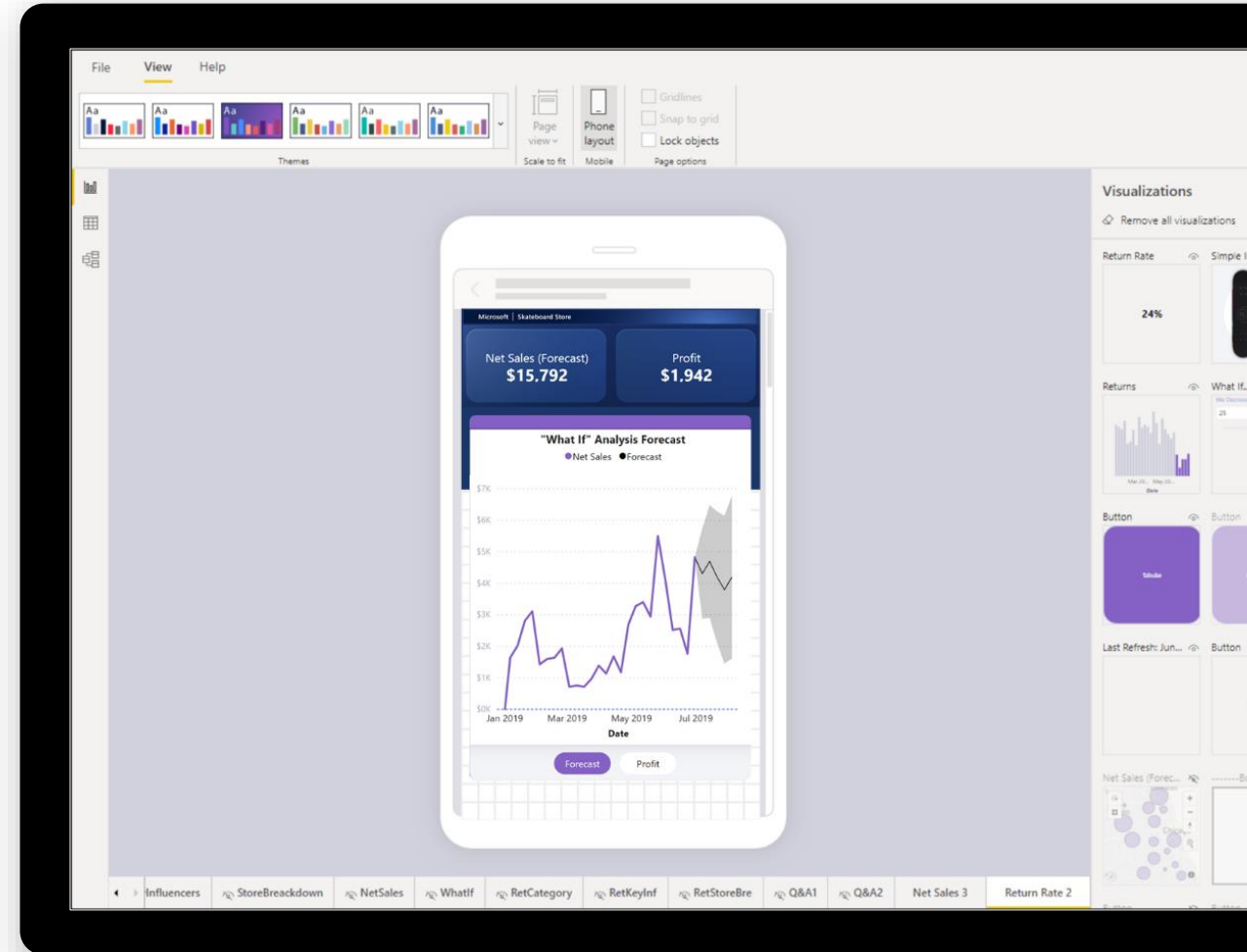
- Expand and improve business processes with integrated RPA workflows.
- Send automatic reminders for past due tasks.
- Move business data between systems on a schedule.
- Connect to over 300 other data sources or any publicly available API.
- Create a flow once and enable makers to use it across the Power Platform.



Power BI

AI infused experiences with the familiarity of Office

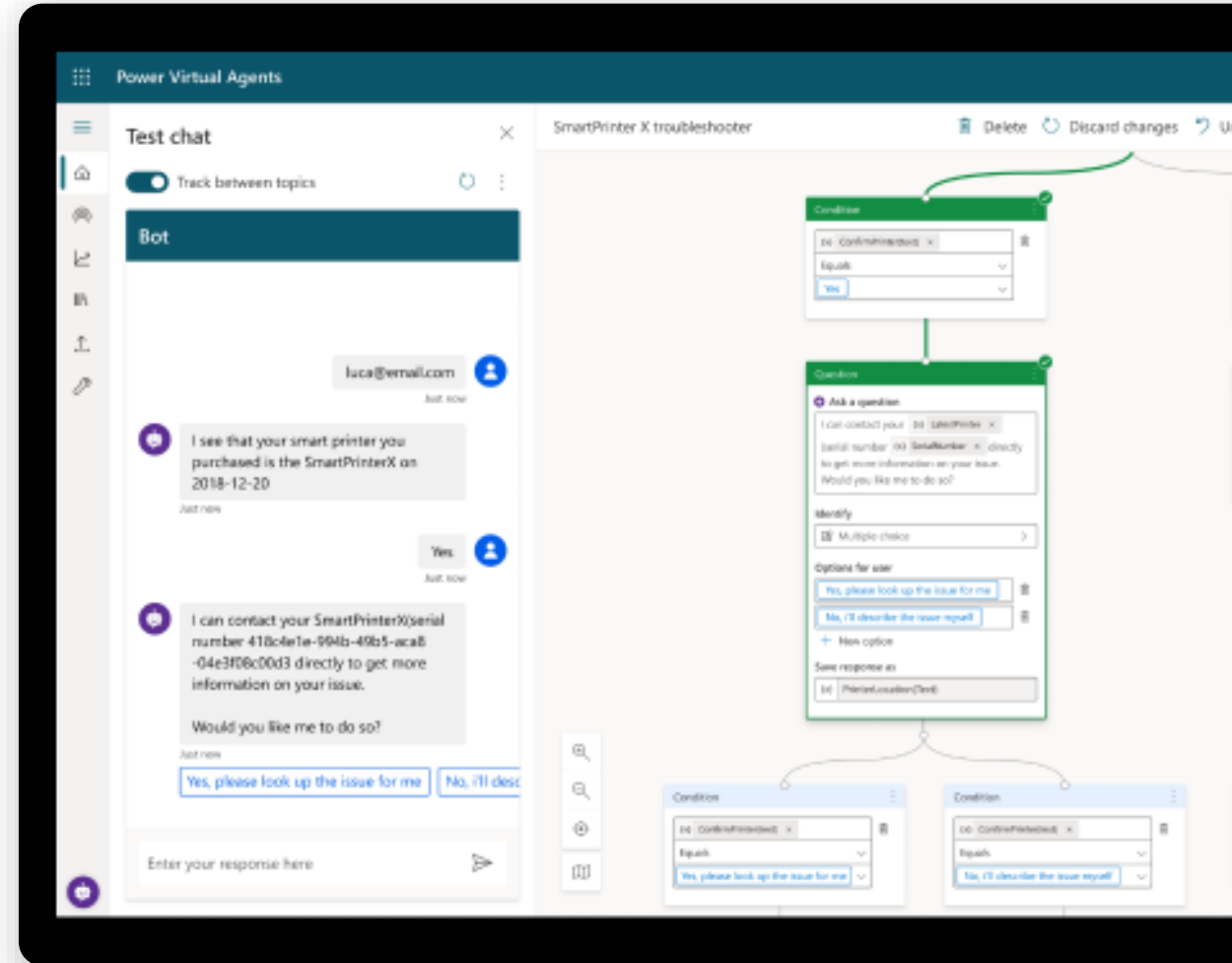
- Enable everyone to create real time dashboards & interactive reports using low-code tools and pre-built formats.
- Empower end-users to explore and personalize visuals based on their unique needs.
- Add dynamic, interactive narratives to reports with the flexibility to edit language and format.



Power Virtual Agents

Automate business processes across Power Platform

- Create and manage powerful chatbots – without the need for code or AI expertise – with an easy-to-use graphical interface.
- Easily integrate your chatbots with the products and services you use every day.
- Look up records, personalize conversations, hand off conversations to live agents, and call APIs.
- Choose from hundreds of prebuilt connectors, build custom workflows using Power Automate, or create complex scenarios with Microsoft Bot Framework.
- Monitor and improve your chatbot's performance using AI and data-driven insights.



Pre-built connectors

Connect to Microsoft and third-party data sources with ease

- Built-in connectivity to 700+ cloud services, content services, databases, APIs, etc.
- Seamless hybrid connectivity to on-premises systems via the on-premises data gateway.
- Develop and register custom connectors as a building block for citizen developers.
- Connect data silos by using multiple data sources in a single application.



AI Builder

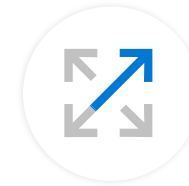
Low-code AI for apps and processes



Low-code AI solutions for Power Platform leveraging the power of Azure AI.



Native integration with Common Data Service enables data from Dataverse, Azure Data Lakes.



Leverage predictions directly from Common Data Service across your Power Platform solutions, Dynamics 365, or Microsoft 365.

Prediction

Binary classification

Predict and classify fields in Dataverse.

Vision

Forms processing

Extract structured data from digital paper, PDFs, and forms.

Vision

Object detection

Detect any object (via custom training) through camera or image control.

Language

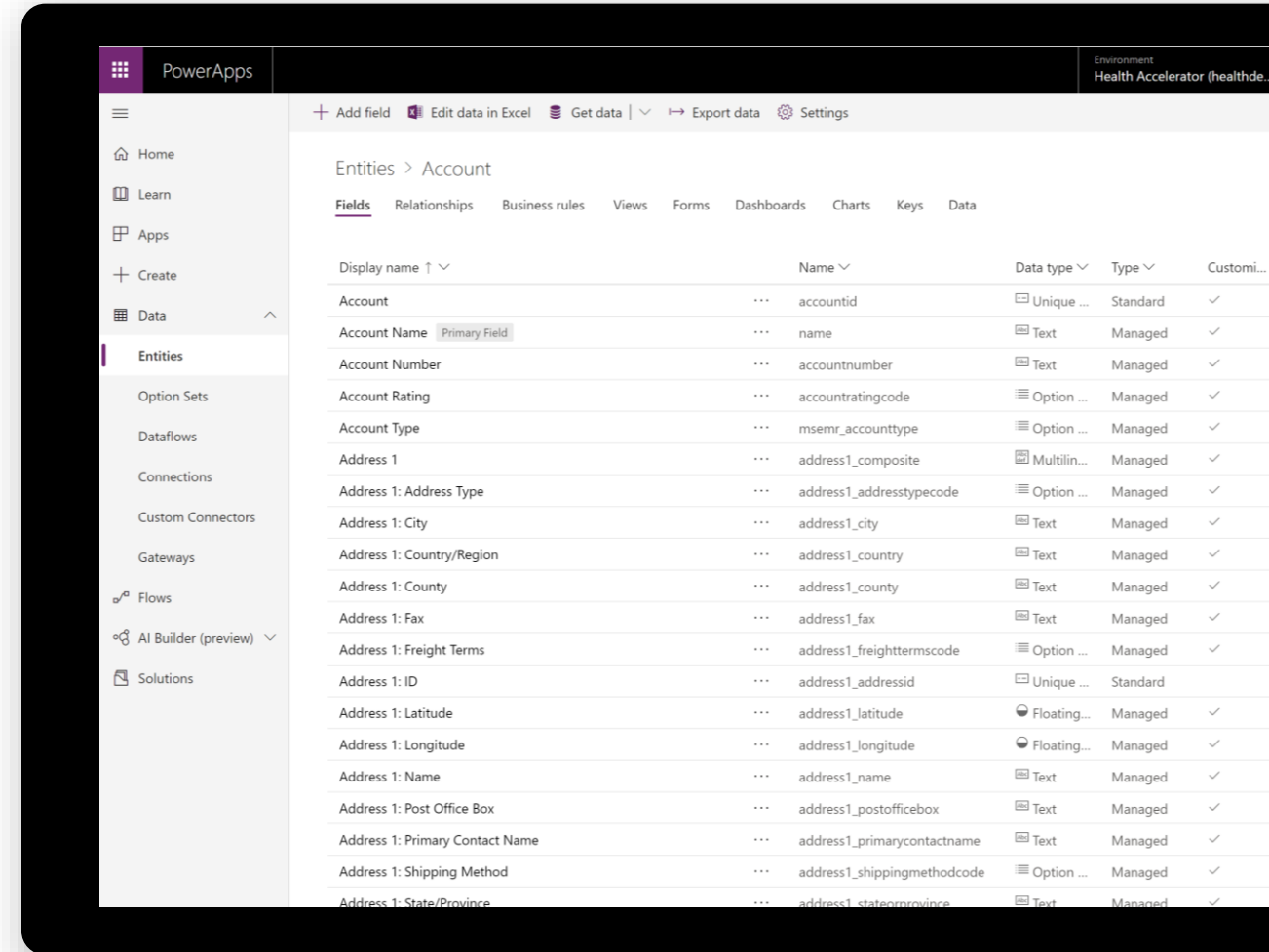
Text classification

Classify, group and categorize any text in Dataverse.

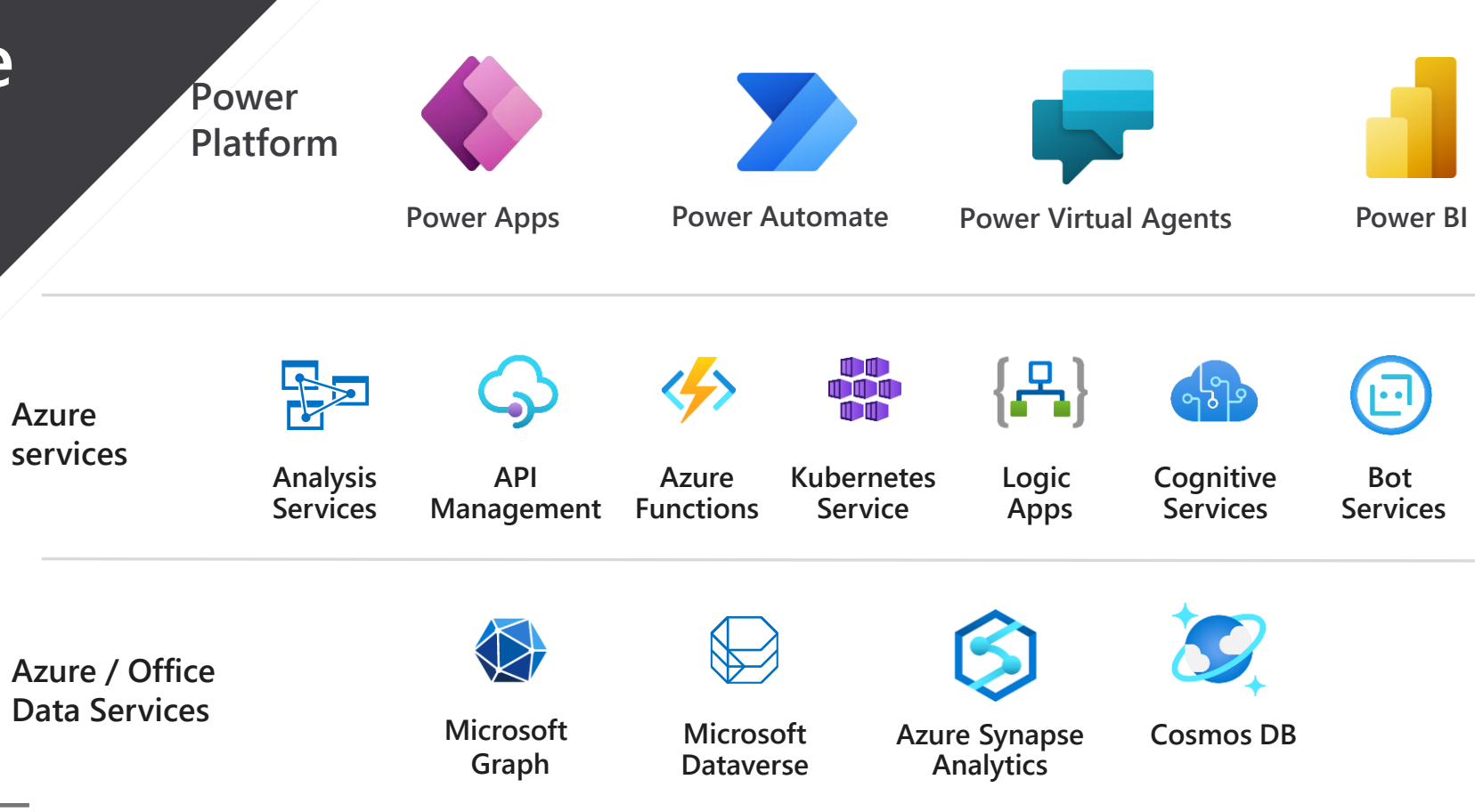
Dataverse

Put all your data to work

- Jumpstart apps using an extensible data model with business logic, security and integration built in.
- Extend data and processes to external and anonymous users with Power Apps portals.
- Support all your data: relational data, file and blob storage, logs and search indexing.
- Effortless Dynamics 365, Office 365 and Azure integration as well as powerful integration capabilities.



A developer platform – for everyone



Embracing low-code transformation



Low-code platforms enable a **visual approach** to building apps and workflows.



Reduce the time and effort spent wrangling your data and gather AI-driven insights to make confident decisions.



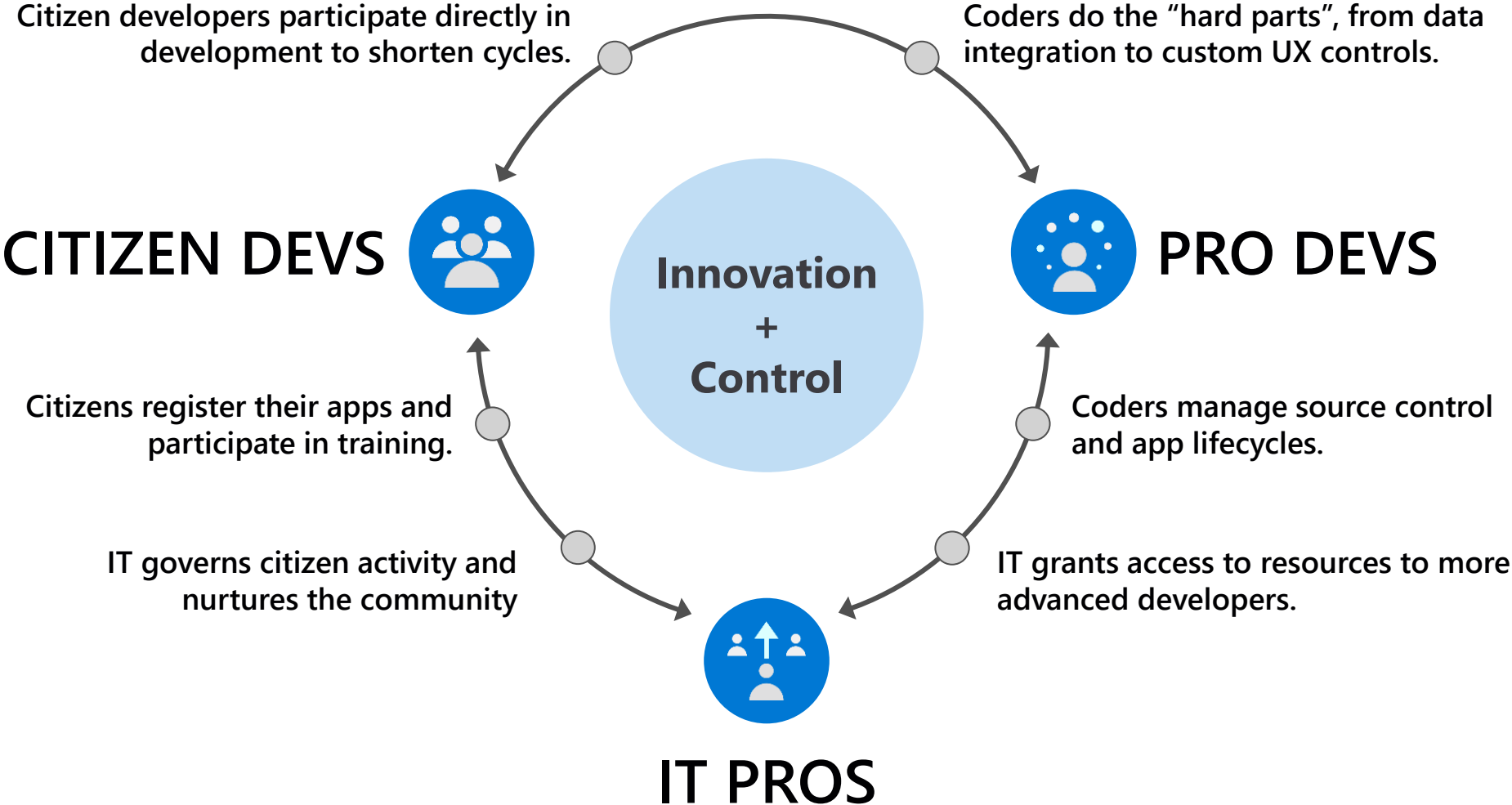
Lower the technical barrier to solving business challenges with technology.



Bridge the gap between IT, pro dev, and the business, driving a collaborative approach to problem solving.



Power Platform development is a team sport

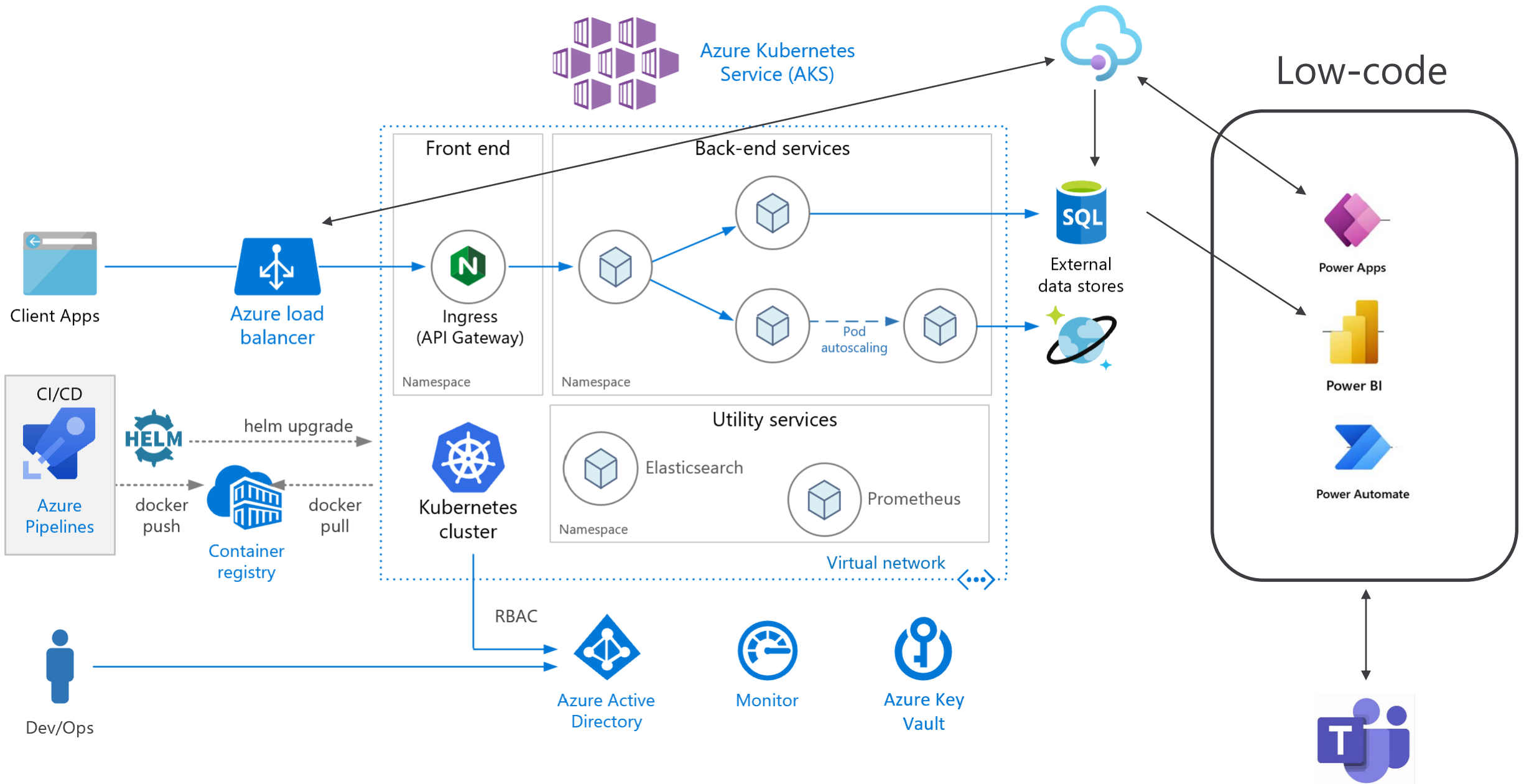


Top 3 use cases for professional developers

POC,
sketching,
planning

Provide data
and
functionality

Create new
solutions



Links

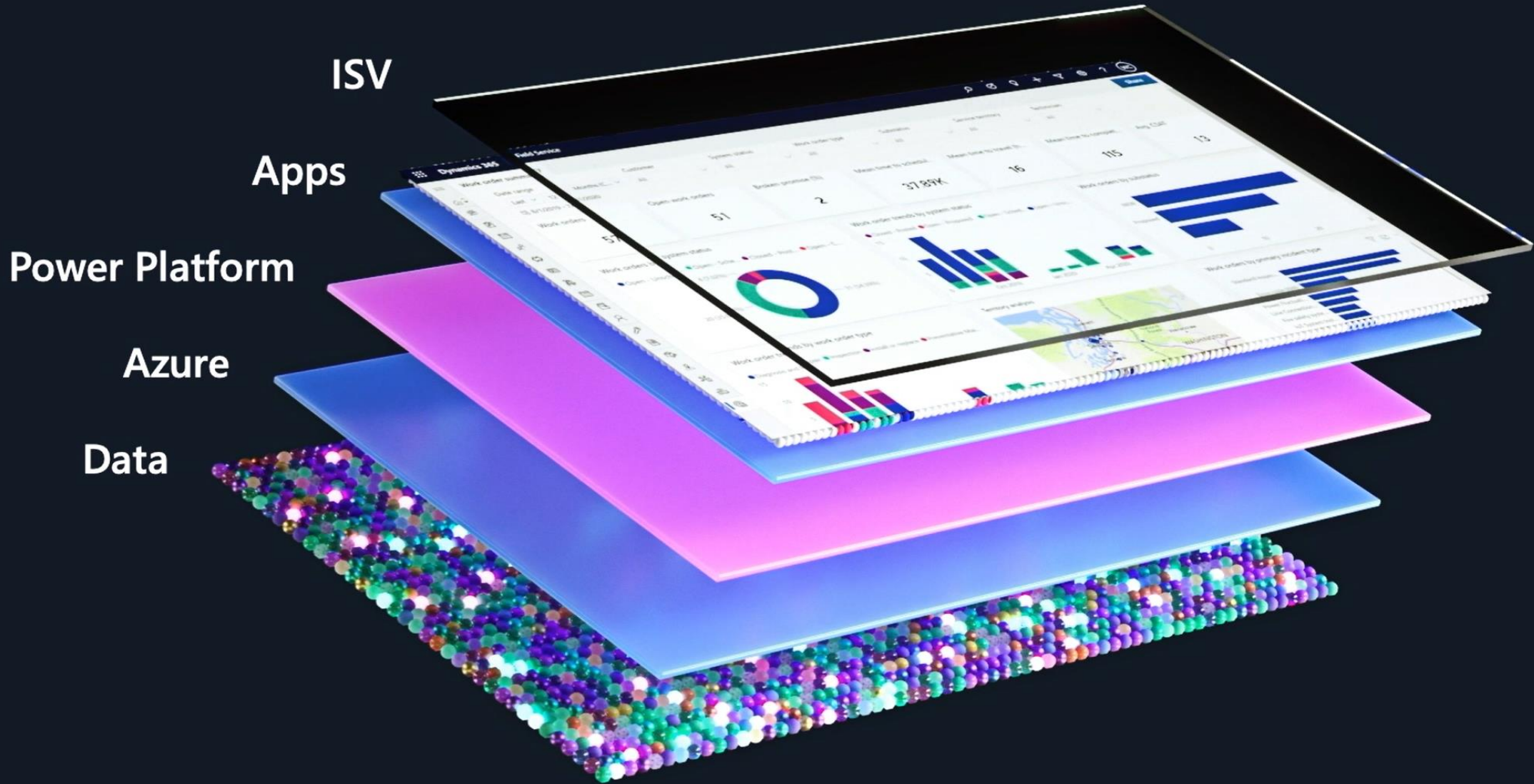
<http://make.powerapps.com/>

docs.microsoft.com/learn

github.com/microsoft/industry/tree/main/foundations/powerPlatform

aka.ms/kumppanitunti

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Thank you!