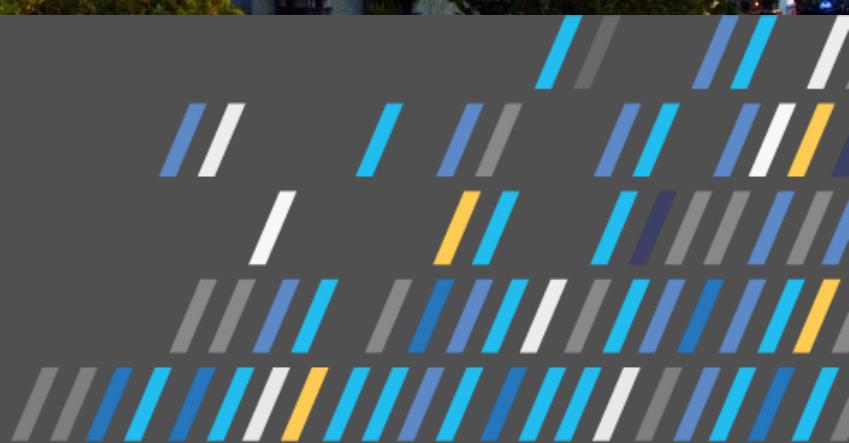




Microsoft Build 2017





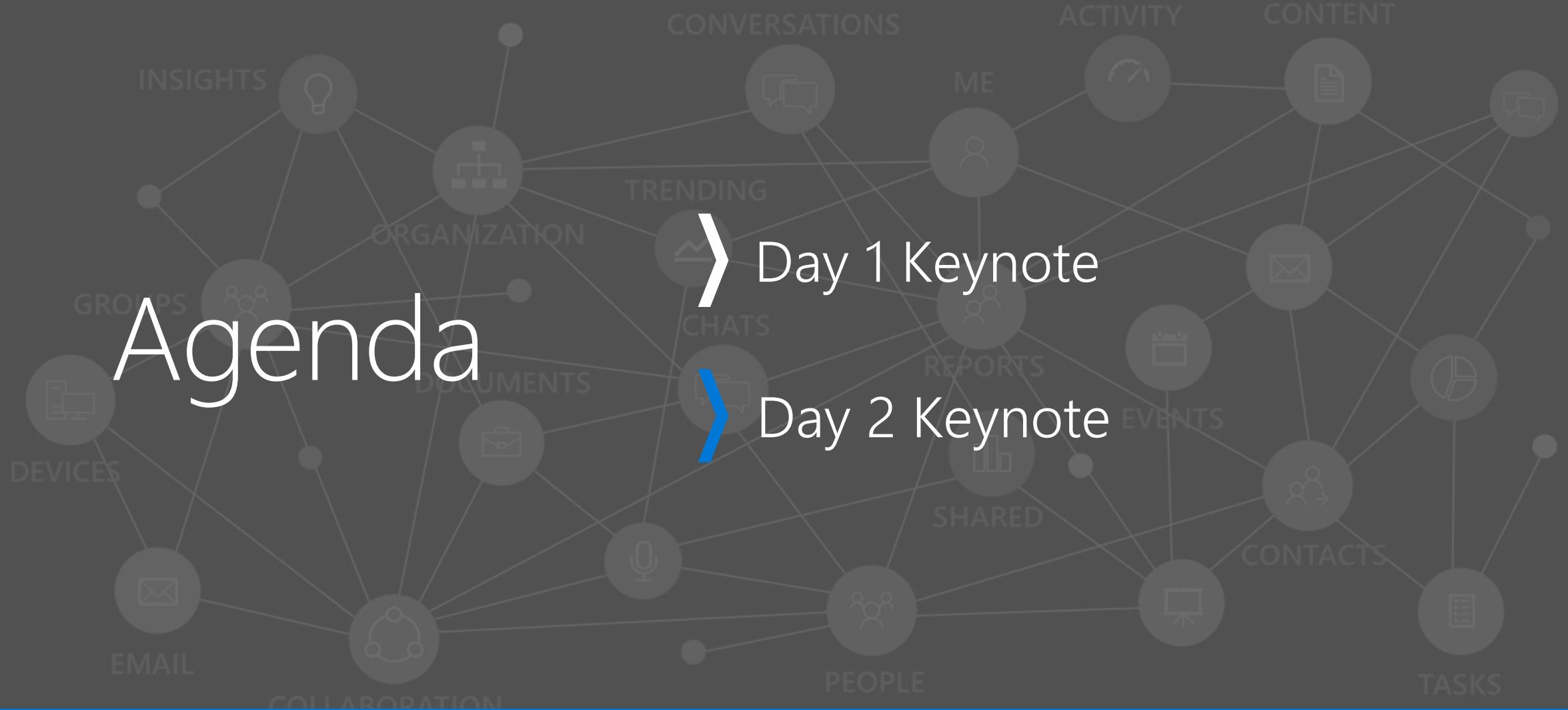
Microsoft Build 2017 Update

신승운

Microsoft MVP

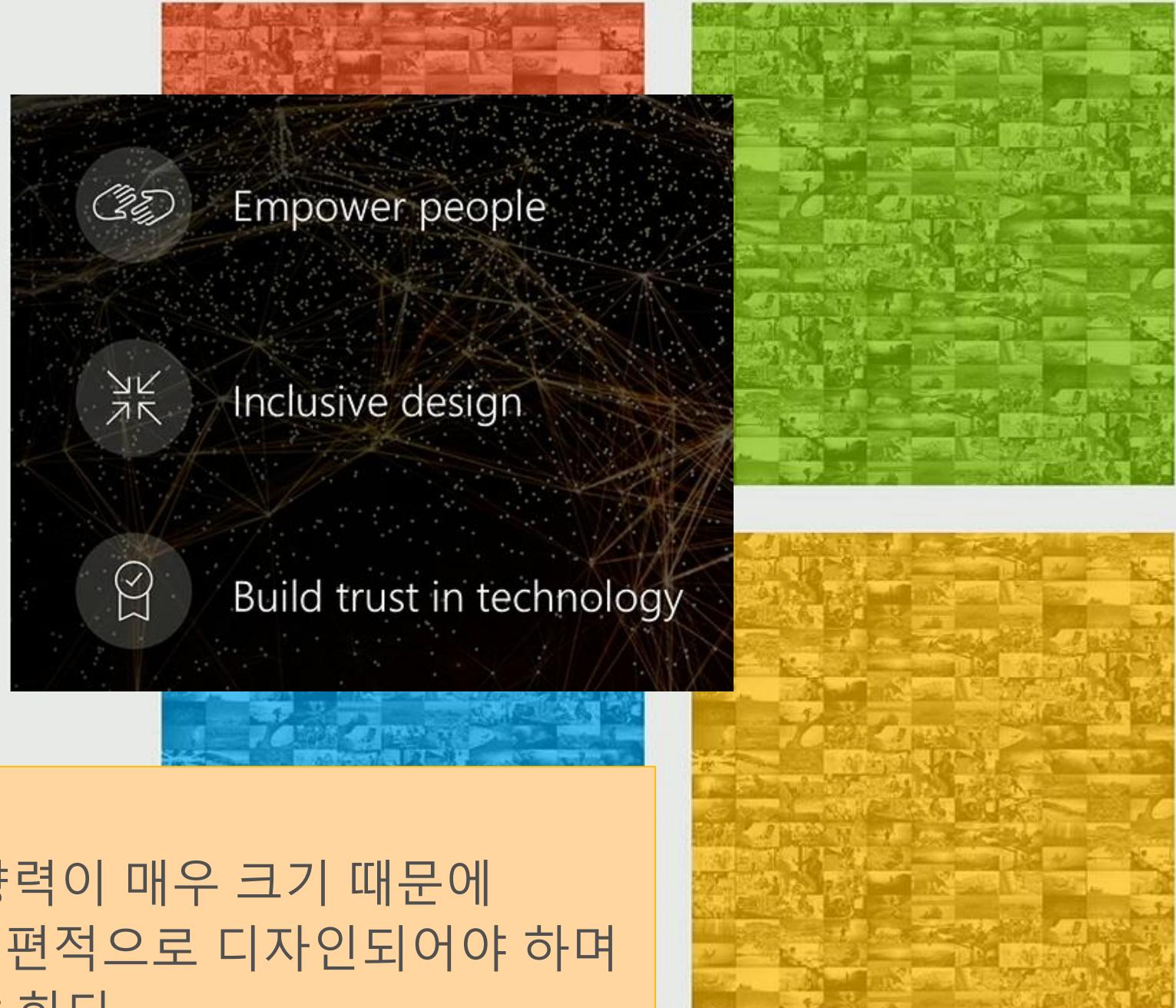


Agenda



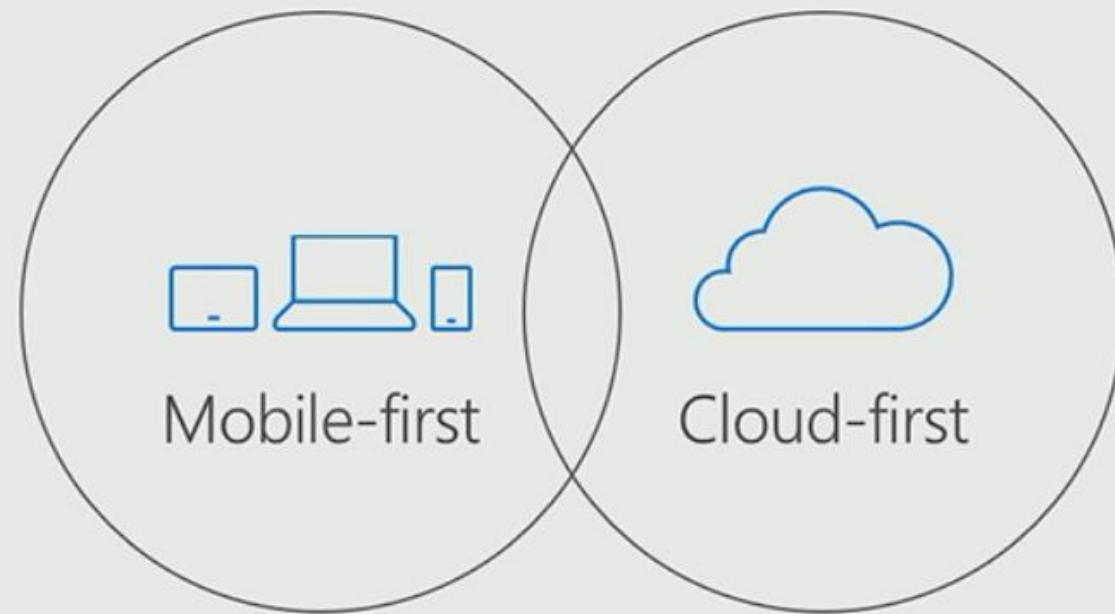
Announce

Timeless values
and principles



Microsoft의 AI는?

AI 기술이 가지고 있는 사회적 영향력이 매우 크기 때문에
사람에게 도움이 되는 방식으로 보편적으로 디자인되어야 하며
신뢰할 수 있는 기술로 구현되어야 한다



Agents & Bots

Natural &
conversational
user interfaces

Mixed Reality

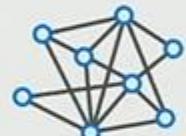
Artificial
Intelligence

Advanced analytics
& workflows

Internet of
Things



Multi-device

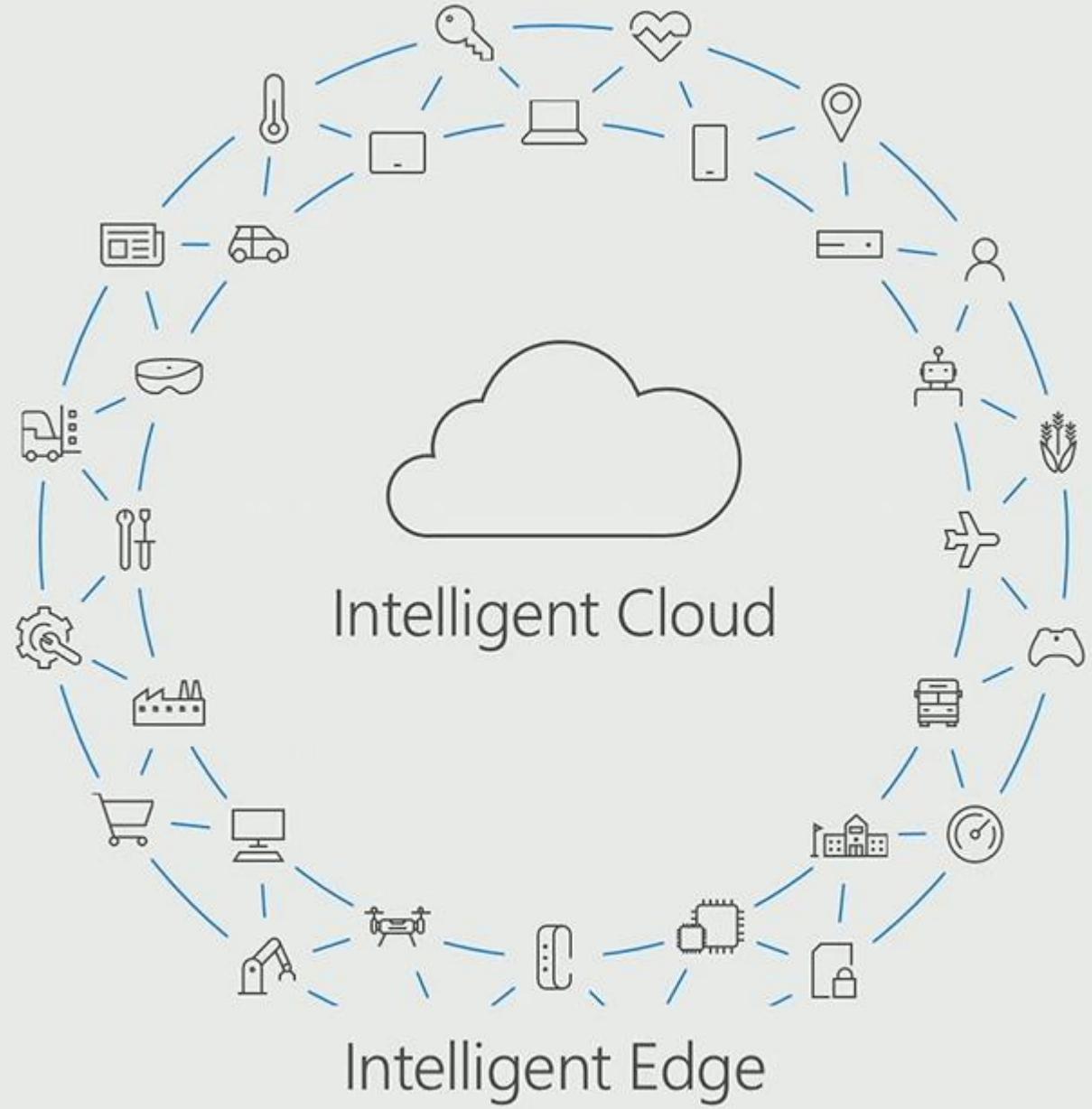


Artificial
Intelligence



Serverless

Cloud 시장의 패러다임 변화
Computing -> Function



Cortana H/W - Invoke



A screenshot of the Cortana mobile application interface. At the top, a message says "Would you like me to let the other attendees know, and connect you when it starts?" with "8:40AM". Below are "YES" and "NO" buttons. The main screen shows a woman with curly hair sitting in a car seat, smiling. To the right, there are several cards: "FM Radio" playing "90.3 MHz - KEXP The Morning Show" (AM, FM, back, forward buttons), "Directions" (map of Seattle area), and "Alerts" for "9 AM - Packaging Review Room 305".

Activity 1

Search

Favorites 1

Chat 1

Product Design

General

Build Product Review

Daily Huddle

Industry News

Newsroom

Product Packaging

Social Chatter

Marketing

General

Community Outreach

Insights

Sales

Strategy

Xbox Fans

General

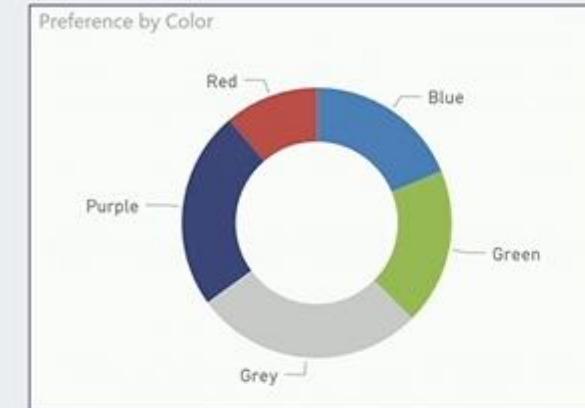
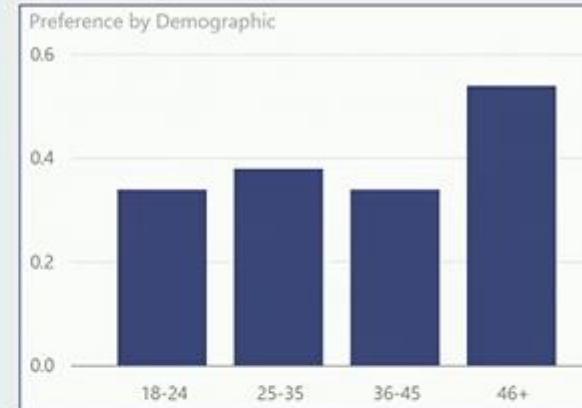
Latest Games

Leaderboard 1

Add team

Product Design > Product Packaging

Conversations Files Wiki Power BI LinkedIn +



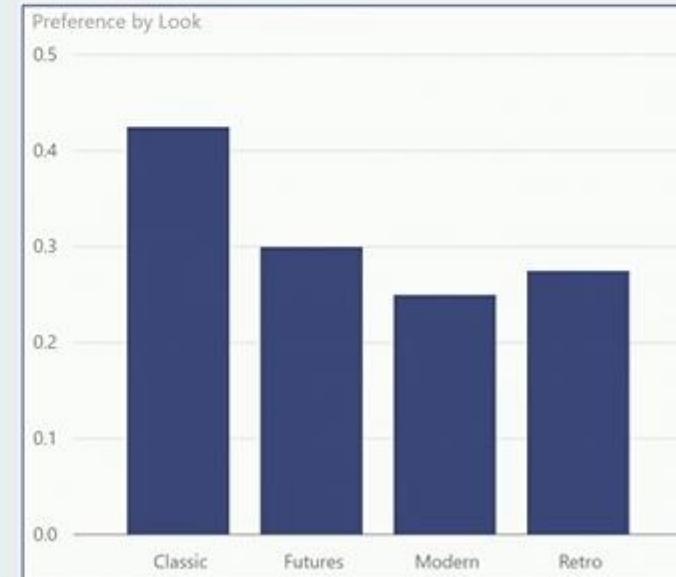
Income

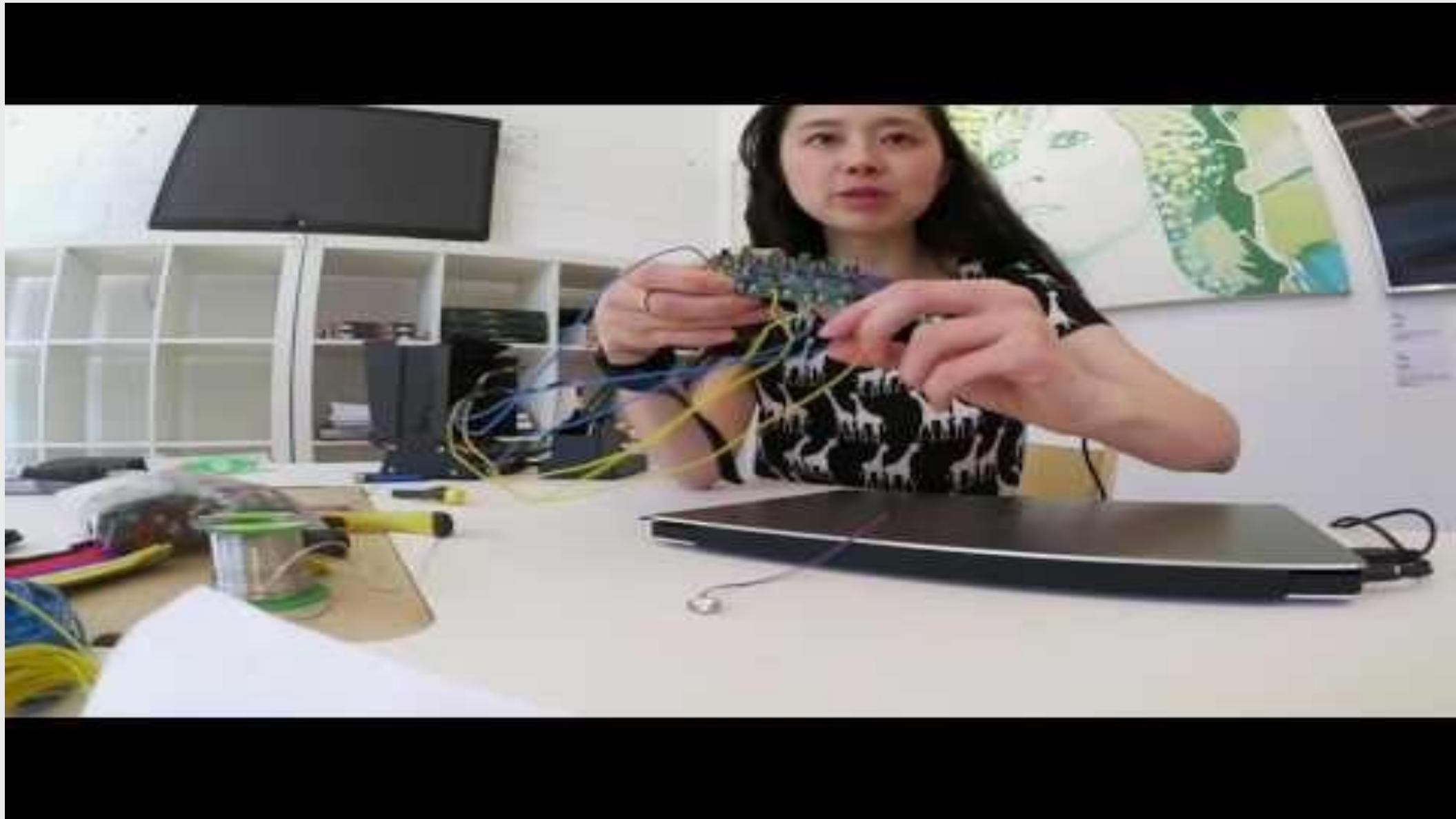
- \$30,000 - \$50,000
- \$50,000 - \$75,000
- \$75,000 - \$125,000
- \$125,000+

Date

Last 1 Years

5/11/2016 - 5/10/2017



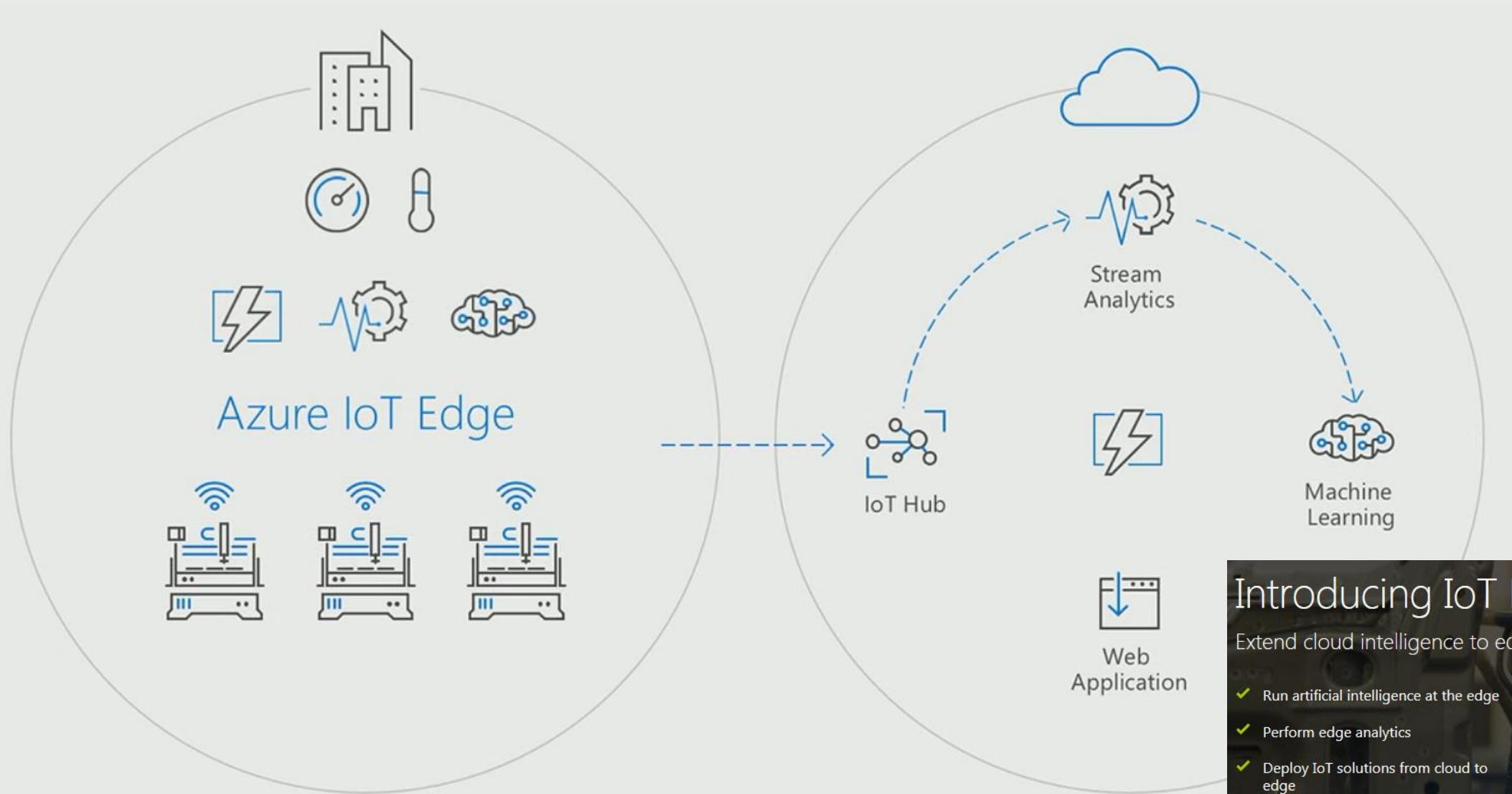




- Azure IoT Edge
- Azure Cloud Shell
- Azure Mobile Portal
- Visual Studio snapshot debugging for Azure
- Visual Studio for MAC
- Azure Data Migration Service
- PostgreSQL as a Service
- MySQL as a Service
- Azure Cosmos DB
- Visual Studio 2017: Azure Function, Azure Logic App
- New Cognitive Services
- Azure Batch BI Training



Azure IoT Edge

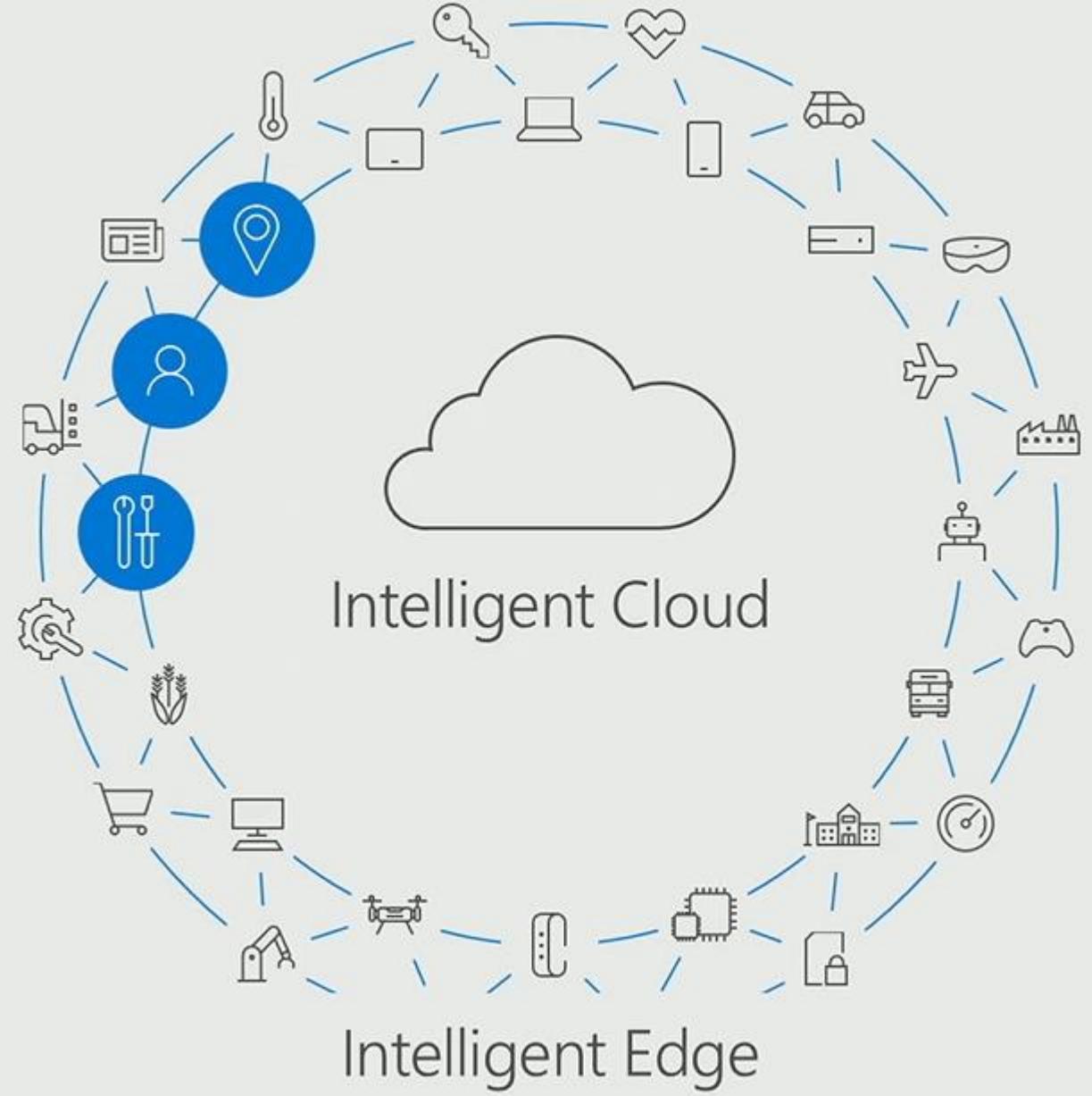


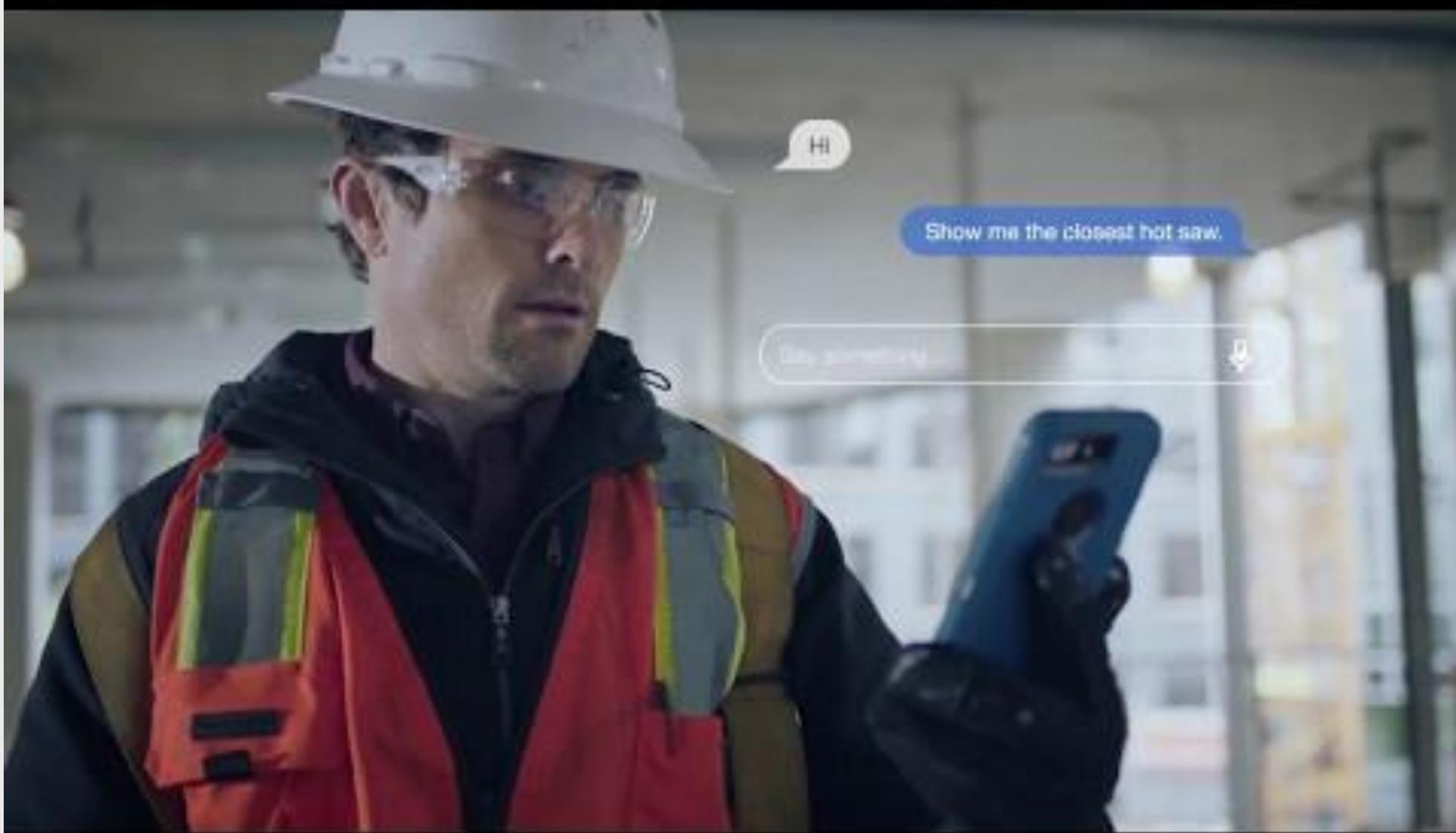
Introducing IoT Edge PREVIEW

Extend cloud intelligence to edge devices

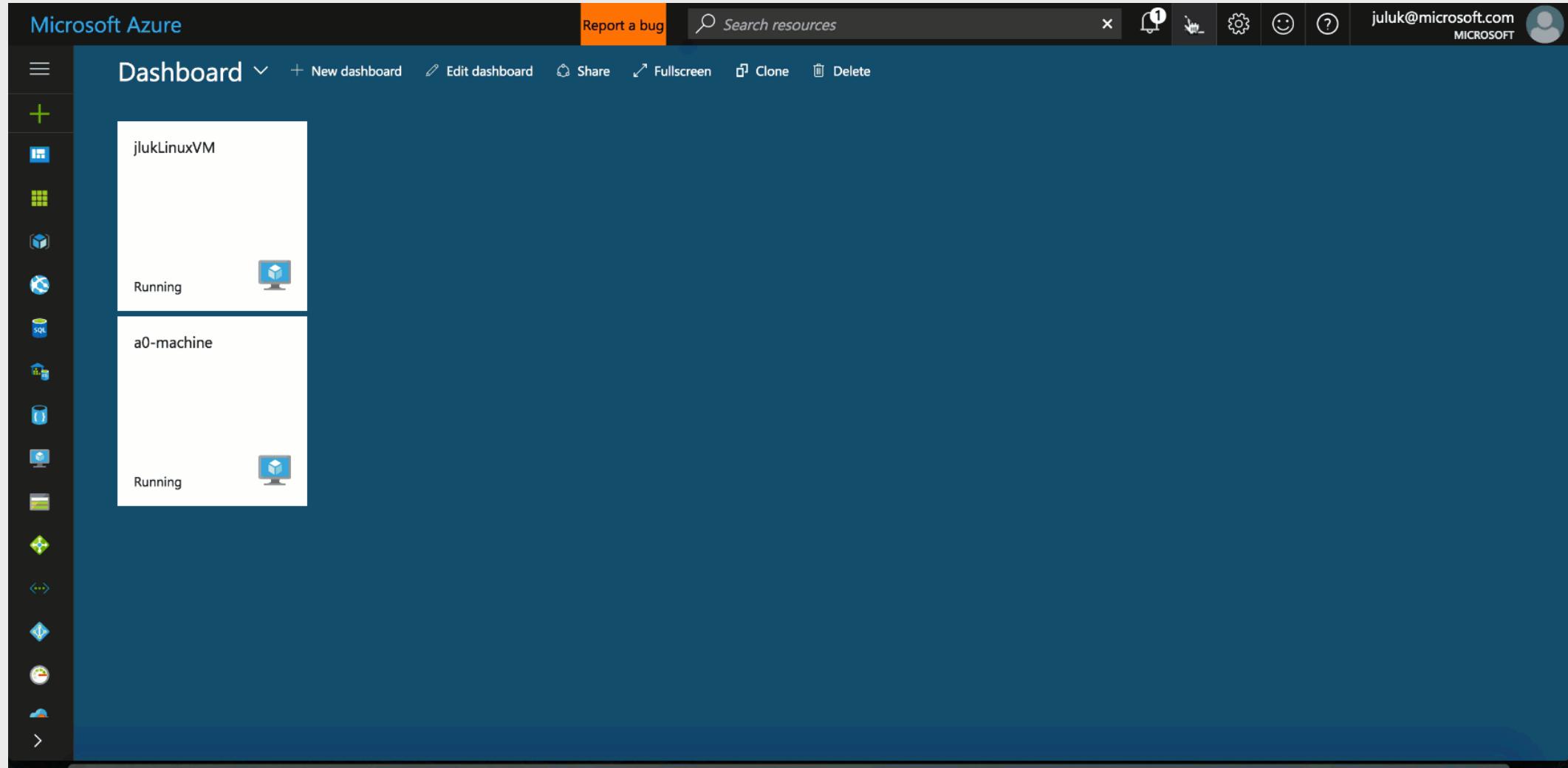
- ✓ Run artificial intelligence at the edge
- ✓ Perform edge analytics
- ✓ Deploy IoT solutions from cloud to edge
- ✓ Manage devices centrally from the cloud
- ✓ Operate with offline and intermittent connectivity
- ✓ Enable real-time decisions
- ✓ Connect new and legacy devices
- ✓ Reduce bandwidth costs

AI for workplace safety





Azure Cloud Shell



Azure Mobile Portal



Bash ⓘ ?

```
Requesting a Cloud Shell.. Succeeded.  
Connecting terminal...  
  
Welcome to Cloud Shell (Preview)  
"az account list" for subscriptions  
"help" to learn more  
modernclouddemo1@Azure:~/clouddrive$
```

A screenshot of a mobile device displaying a terminal window titled "Bash". The window shows the process of requesting a Cloud Shell, which has succeeded. It then connects to a terminal session. The terminal displays a welcome message from "Cloud Shell (Preview)" and provides instructions for listing subscriptions and getting help. The command prompt is "modernclouddemo1@Azure:~/clouddrive\$". A virtual keyboard is visible at the bottom of the screen.

All resources (47)

- Network security group
- visitors219 Network interface
- VisitorsApp-vnet Virtual network
- visitorsappdiag342 Storage account
- VisitorsCrmSvcFx Web App
- visitorsdb SQL database
- VisitorsWeb Web App
- visitorswebf02e Web App
- visitorswebplan App Service plan
- Web Application Insights
- worker-01 Virtual machine
- worker-01-ip Public IP address

Favorites Resources Notifications Cloud Shell

A screenshot of the Azure Mobile Portal's "All resources" page. The page lists 47 resources, including a Network security group, a Network interface named "visitors219", a Virtual network named "VisitorsApp-vnet", a Storage account named "visitorsappdiag342", a Web App named "VisitorsCrmSvcFx", a SQL database named "visitorsdb", a Web App named "VisitorsWeb", a Web App named "visitorswebf02e", an App Service plan named "visitorswebplan", Application Insights named "Web", a Virtual machine named "worker-01", and a Public IP address named "worker-01-ip". At the bottom of the screen, there are navigation icons for Favorites, Resources, Notifications, and Cloud Shell.

Azure Database Migration Service

SQL Server 2017

Run on Windows Server, Linux, Docker

Industry leading performance with adaptive query processing

In-database advanced Machine Learning with R & Python



SQL Server
2017

The logo for SQL Server 2017 features a large blue circle at the top, partially overlapping a white cylinder. Below the cylinder, the words "SQL Server" are written in a dark gray sans-serif font, followed by "2017" in a larger, bold, dark gray sans-serif font.

PostgreSQL as a Service / MySQL as a Service



Announcing new Azure Services
PostgreSQL as a Service
MySQL as a Service

Built-in high-availability and security
Elastically scale up or down with no application downtime
100% compatible with all existing drivers, libraries, tools

Azure Cosmos DB

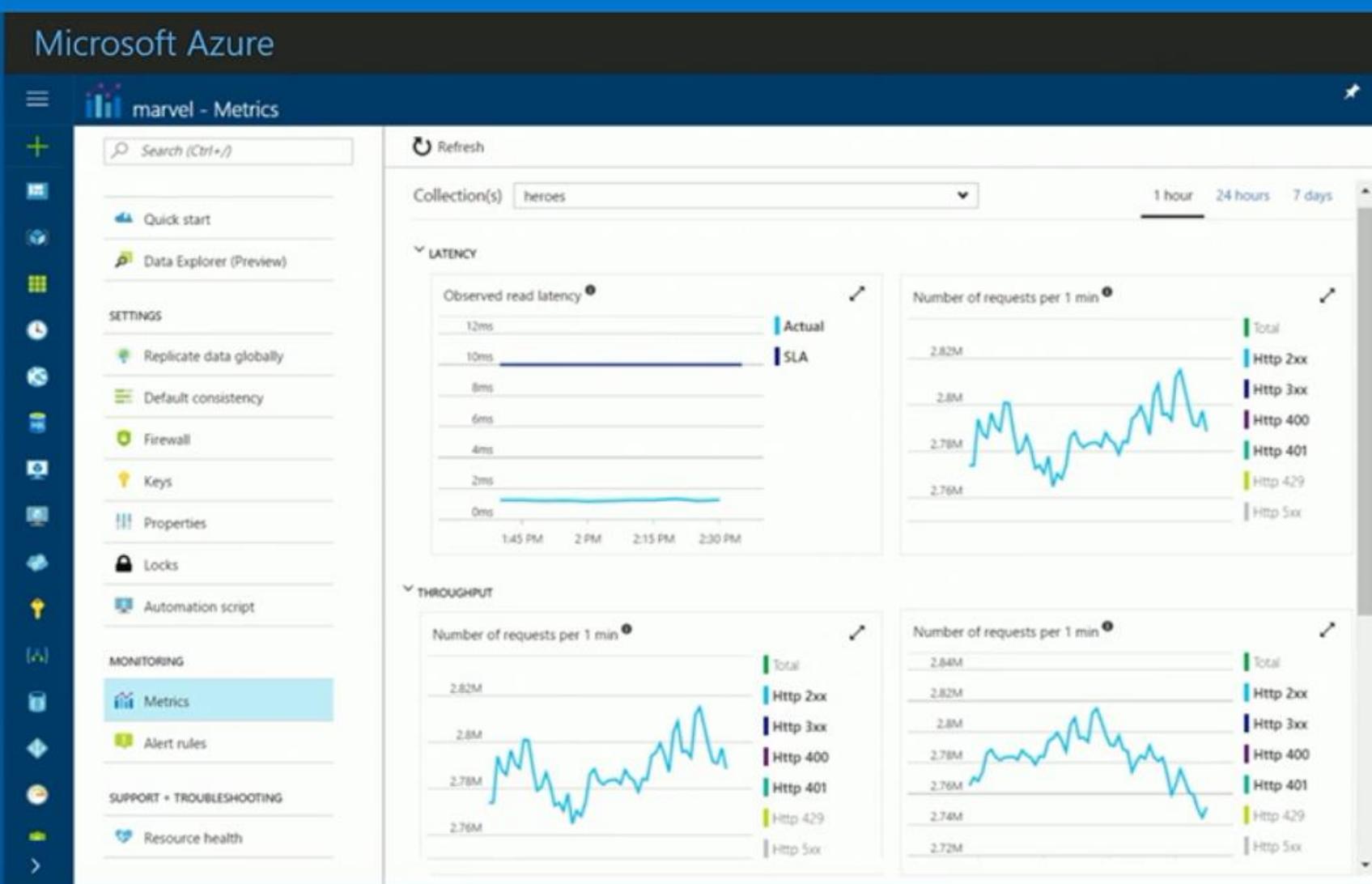
Only database with comprehensive SLAs across 4 dimensions

High Availability

Performance Latency

Performance Throughput

Data Consistency



Available today

New Cognitive Services

Bot Framework updates

Azure Batch AI Training

Microsoft Azure

Why Azure Solutions Products Documentation Pricing Training Partners Blog Resources Support

Sales 1-800-887-1089 | MY ACCOUNT | PORTAL | Search | FREE ACCOUNT >

Cognitive Services

Enable natural and contextual interaction with tools that augment users' experiences using the power of machine-based intelligence. Tap into an ever-growing collection of powerful artificial intelligence algorithms for vision, speech, language, and knowledge.

Explore Cognitive Services: Pricing details Documentation Blog Community

pivothead GRAYMETA PIC•COLLAGE UBER

Put intelligence APIs to work

Microsoft Cognitive Services let you build apps with powerful algorithms using just a few lines of code. They work across devices and platforms such as iOS, Android, and Windows, keep improving, and are easy to set up.

See just one of the many insights we can infer from your data with this demo of the Emotion API. We don't keep any images uploaded to this demo.

See it in action

Detection result:
4 faces detected

JSON:

```
[{"faceRectangle": {"Top": 114, "Left": 212, "Width": 65, "Height": 65}, "Score": {"Anger": 1.0570484E-09, "Contempt": 1.52679547E-09, "Disgust": 1.60232943E-07, "Fear": 6.00660563E-12, "Happiness": 0.9999998}}
```

Image URL Submit



Cognitive Services



Vision



Language



Speech



Search



Knowledge

Computer vision

Face

Emotion

Content Moderator

Video

NEW
Video Indexer

NEW
Cognitive Services Labs

NEW
Custom

Vision Service

Text analytics

Spell check

Web language model

Linguistic analysis

Translator

Speaker recognition

Speech

Web search

Image search

Video search

News search

Autosuggest

Academic knowledge

Entity linking service

Knowledge exploration

Recommendations

QnA maker

NEW
Custom

Custom

Language
Understanding

Custom

Speech Service

NEW
Custom

Search

NEW
Custom

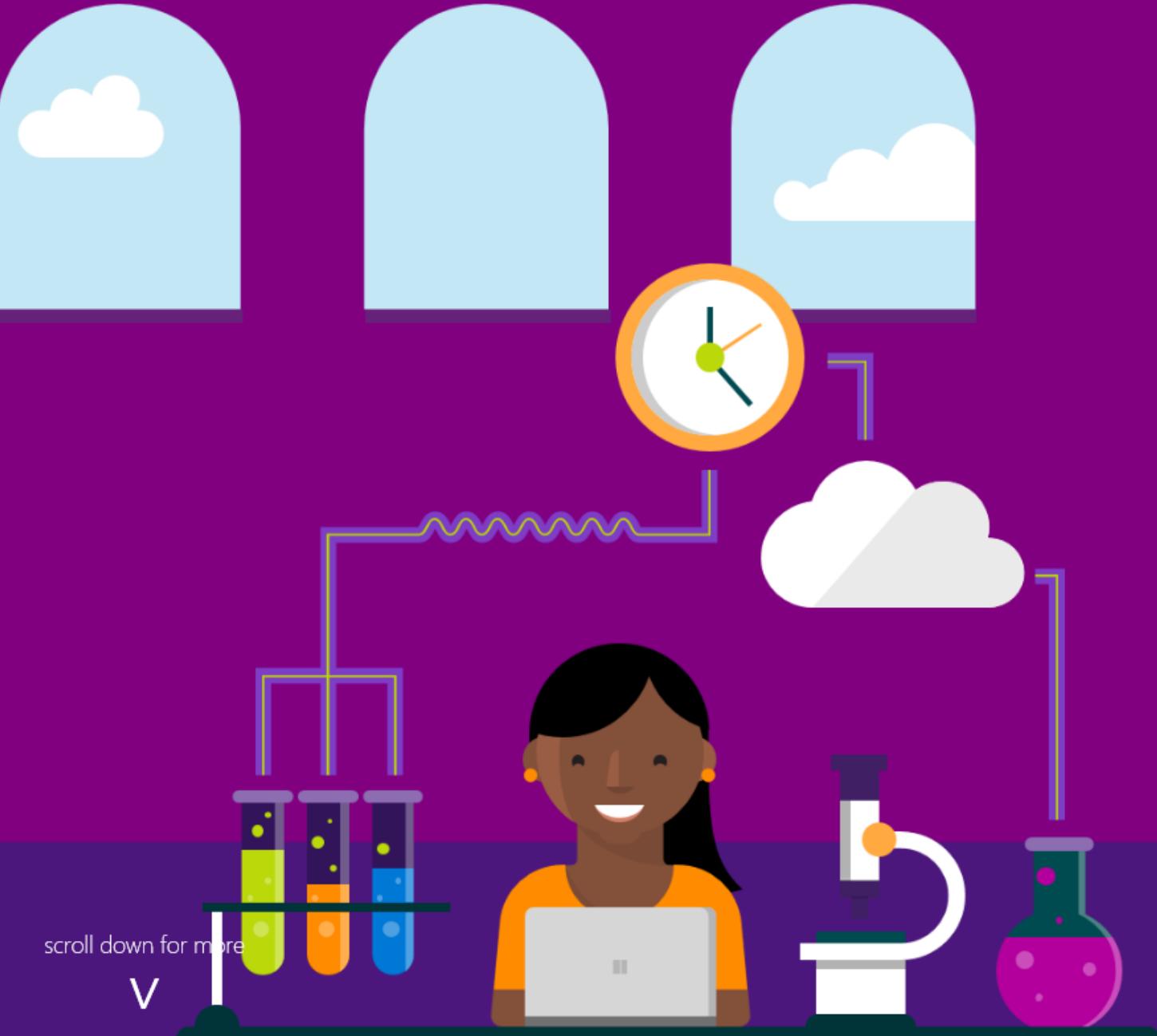
Decision Service

Introducing Azure Batch AI Training

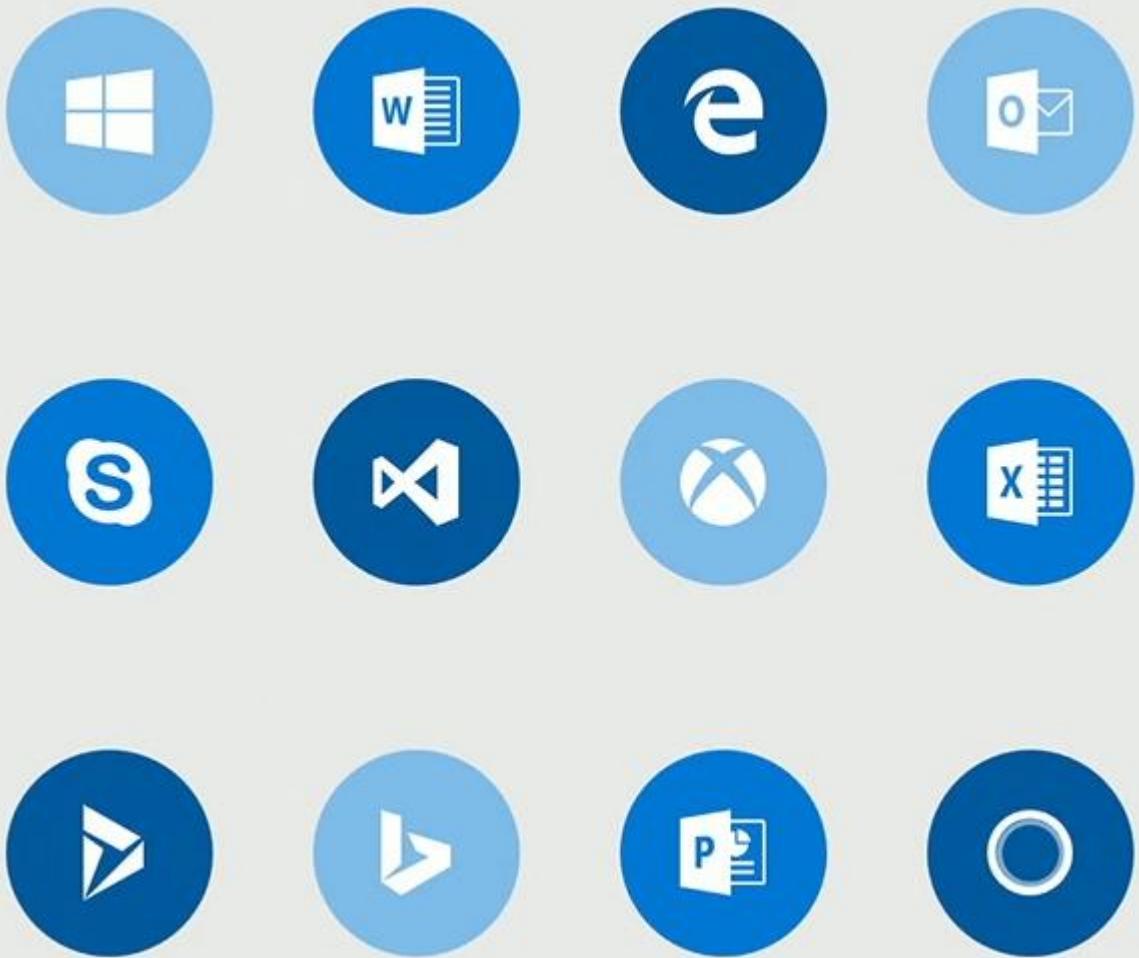
AI Training At Scale with Azure

Azure Batch AI Training helps you experiment in parallel with your AI models using any framework and then train them at scale across clustered GPUs. Simply describe your job requirements and configuration to run, and we'll handle the rest.

[REGISTER NOW →](#)



Redefining
Microsoft
with AI



AutoSave: off

File Home Insert Design Transition

From Beginning Current Slide Present Custom Slide Online Show Start Slide Show

1 Seattle |

2 Contents

3 Economy

4 Click to add title

Slide 1 of 9

Type here to search

Microsoft Translator

Your name

Yina

What language will you be speaking?

Spanish

What language would you like to display the subtitles in?

English

- English
- Estonian
- Fijian
- Filipino
- Finnish
- French
- German
- Greek
- Haitian Creole
- Hebrew
- Hindi
- Hmong Daw
- Hungarian
- Indonesian
- Italian
- Japanese
- Kiswahili
- Klingon
- Korean

Sign in

Share

Translate Slides

to add subtitle

1 5

Account News (Proseware Deal Room) | Microsoft Teams

Search Activity

Favorites

- Proseware Deal Room
 - General
 - Account News**
- VanArsdel
- Adatum Corp
- Contoso Deal Room
 - General
 - Account News**
- Fabrikam Inc
- Lucerne Deal Room

Conversations Files Wiki Tact +

Lily Nguyen Yesterday 6:03 PM
In our Friday account planning meeting, I would like to hear about the subsidies we can offer Proseware for adopting our beta lines. These are a big hit with my FY15 accounts before being discontinued but this year they came back. We are poised for a great year and this could be the opportunity that pushes us over the threshold and win account team of the year. We could all use a good trip to Hawaii!!!

Tact Yesterday 6:03 PM
Account Alert: Proseware Inc
Proseware Names Former VanArsdel Exec its New CMO

Reply

Calendar - yina@richdiz X +

Microsoft Corporation [US] outlook.office.com/owa/realm=didemos.net%26exvrfN

Search Calendar New Add calendar Interesting calendars Share Print

May 2017 < > May 14–20, 2017 Day Work week Week Month Today

S	M	T	W	T	F	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

Your calendars

- Calendar
- United States holidays
- Birthdays
- Other calendars

Groups

- VanArsdel
- Lucerne Deal Room
- Fabrikam Inc
- Adatum Corp
- Contoso Deal Room
- Proseware Deal Room
- More

Search Activity

Favorites

Conversations Files Wiki Tact +

Proseware Deal Room

- General
- Account News**

VanArsdel

Adatum Corp

Contoso Deal Room

- General
- Account News**

Fabrikam Inc

Lucerne Deal Room

Daily Account Trx 15 Monday

Weekly 1:1 with C 16 Tuesday

Daily Account Trx 17 Wednesday

Daily Account Trx 18 Thursday

Daily Account Trx 19 Friday

Project Falcon Team 8a

Mark 1:1 9a

Lily 1:1 10a

Tricia 1:1 11a

Lunch presentation to Contoso 12p

Lunch wth Peter 1p

Weekly pipeline 3p

Monthly business n 3p

Contoso presentati 4p

Account planning 5p

Travel time 6p

See more

9 replies from you and TactBot

TactBot 10:42 AM Who would you like to include on the lead follow-up reminder?

Entire Team My Directs Top Collaborators

Yina Arenas 10:43 AM TactBot Top Collaborators

TactBot 10:43 AM Finding availability with top collaborators (Yina Arenas, Lily Nguyen, Tricia Green)...
Option 1 Wednesday, May 17, 2017 at 4:30 PM PST (100% available)
Suggested because it is one of the nearest times when all attendees are available.

- Yina Arenas (free)
- Tricia Green (free)
- Lily Nguyen (free)

Schedule it!

Reply

See less

Yina Arenas 10:42 AM Tact Search Office 365 for Julia Spears and VanArsdel

Tact 10:42 AM Please wait, searching Office 365...

I found a team named **VanArsdel Deal Room** owned by **Tricia Green**. It contains **10 references** to a "Julia Spears".

Content Type (Chat, Files, Notes, Meetings)

6 2 1 1

Content Sentiment 84% (positive)

negative (0) neutral (50) positive (100)

Search LinkedIn View Team

See less

Yina Arenas 10:42 AM Tact Search LinkedIn

Tact 10:42 AM Please wait, searching LinkedIn...

Here are some matches from LinkedIn:

Julia Spears - 2nd Chief Marketing Officer at Proseware

Connect Full profile

Yina Arenas 10:42 AM Tact Connect with Julia Spears (Chief Marketing Officer at Proseware)

Tact 10:42 AM Working on it...

Ok, I've sent the LinkedIn request and created a lead in Dynamics for Julia Spears

View LinkedIn View Lead

Who would you like to include on the lead follow-up reminder?

Entire Team My Directs Top Collaborators

Visual Studio for Mac

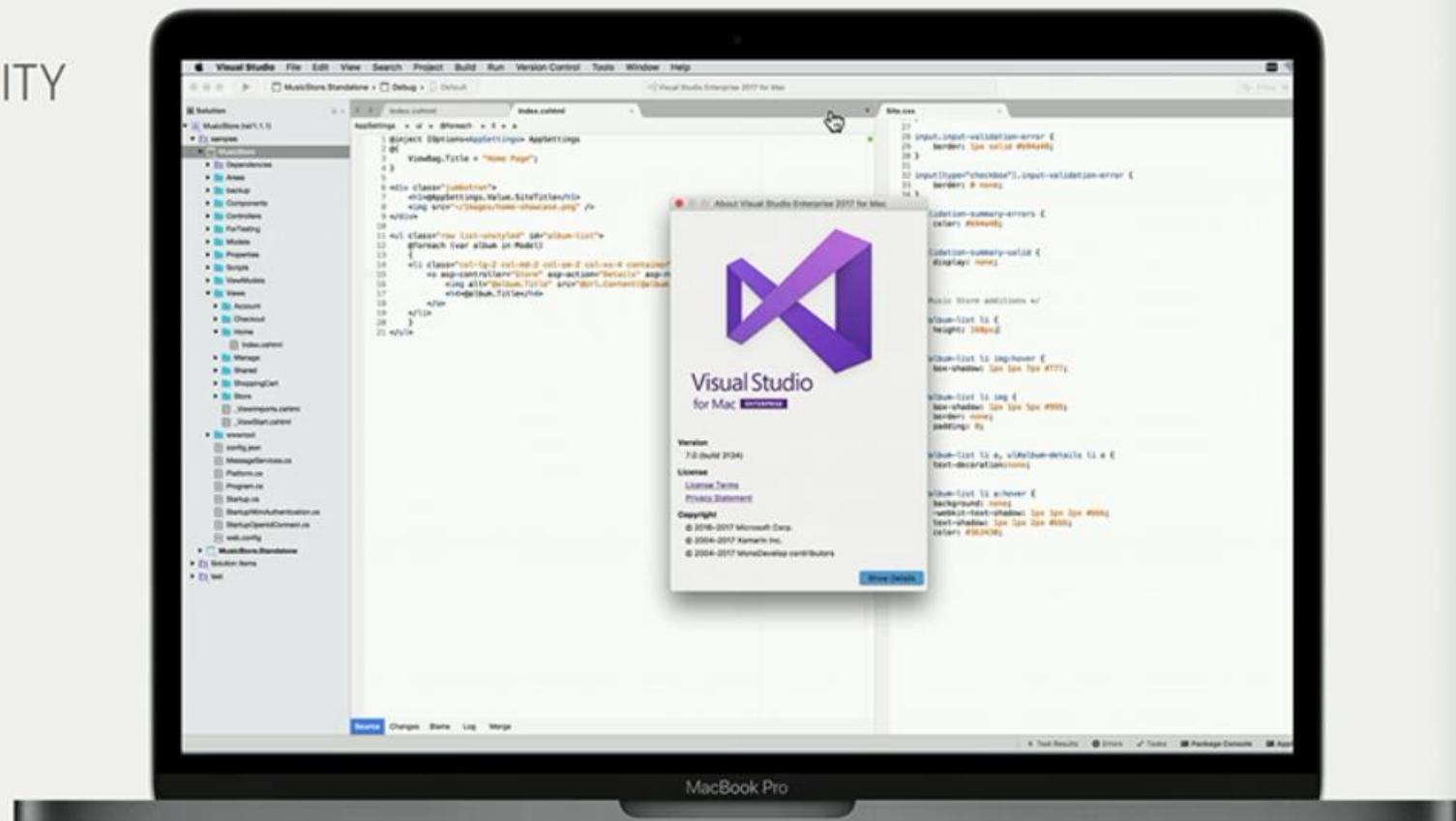
ANNOUNCING: GENERAL AVAILABILITY

Visual Studio for Mac

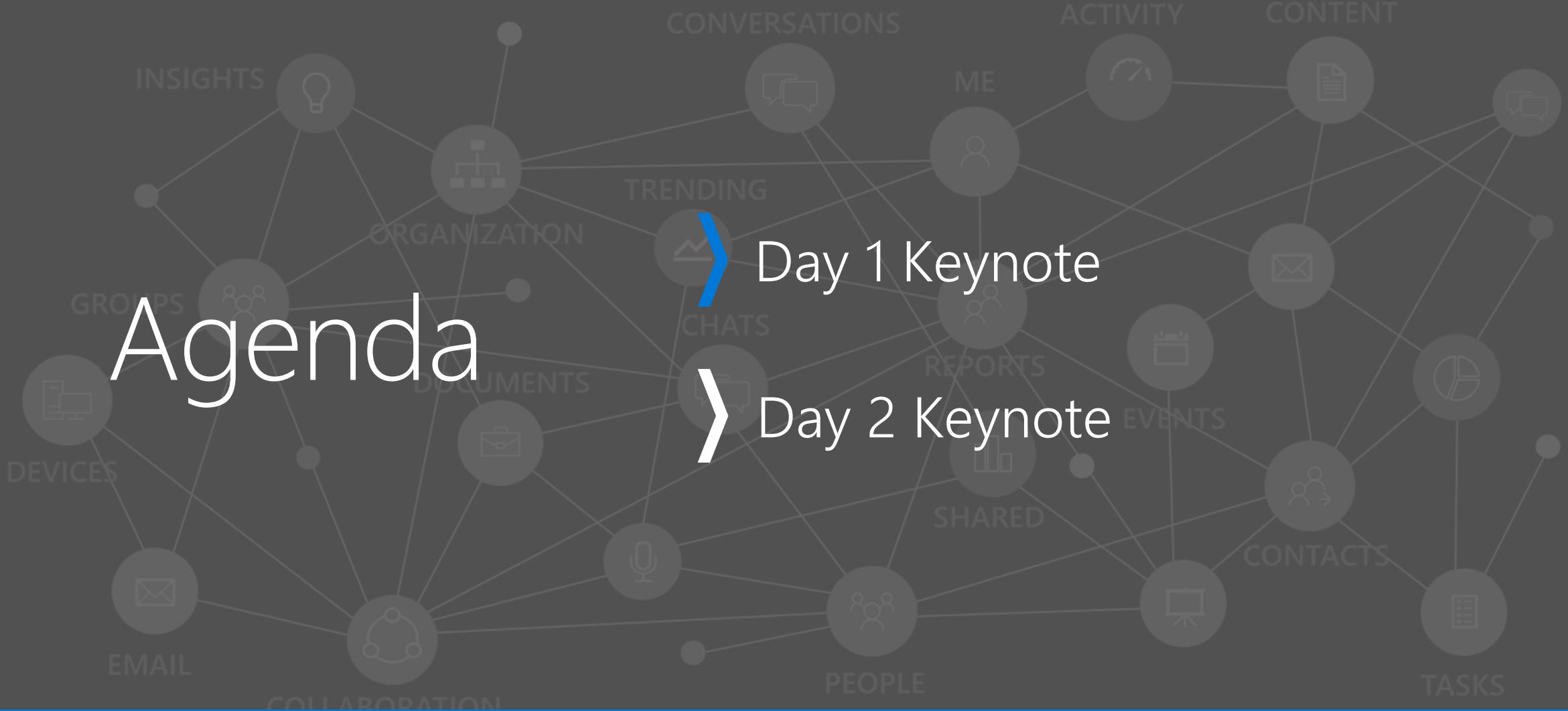
Mobile + Web + Unity + Azure

.NET Core & ASP.NET Core support

Collaborate across PC & Mac



Agenda



Keynote #2 - Day 2

Microsoft Fluent Design System

Cloud powered Clipboard

Timeline

Story Remix

.NET Standard

XAML Standard 1.0

Project Rome SDK for iOS

Windows 10 S

Windows Store: iTunes, SAP Boardroom, Ubuntu, OpenSUSE, Fedora

Visual Studio debugging with iOS

HoloLens

ANNOUNCING



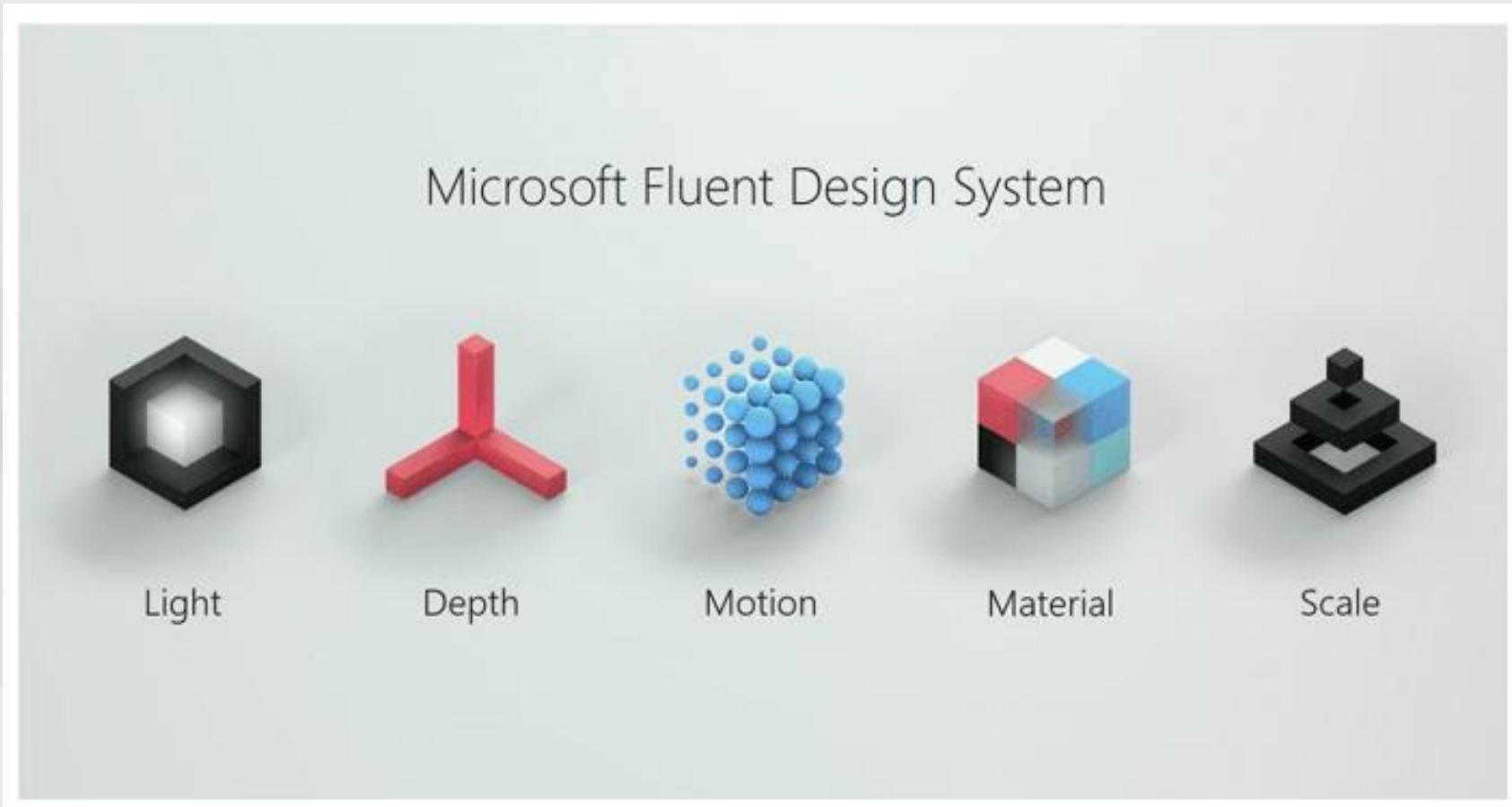
Fall Creators Update

HoloLens 와 새로운 Mixed Reality 기기

새로운 Windows 10 업데이트 공개



1. Microsoft Fluent Design System



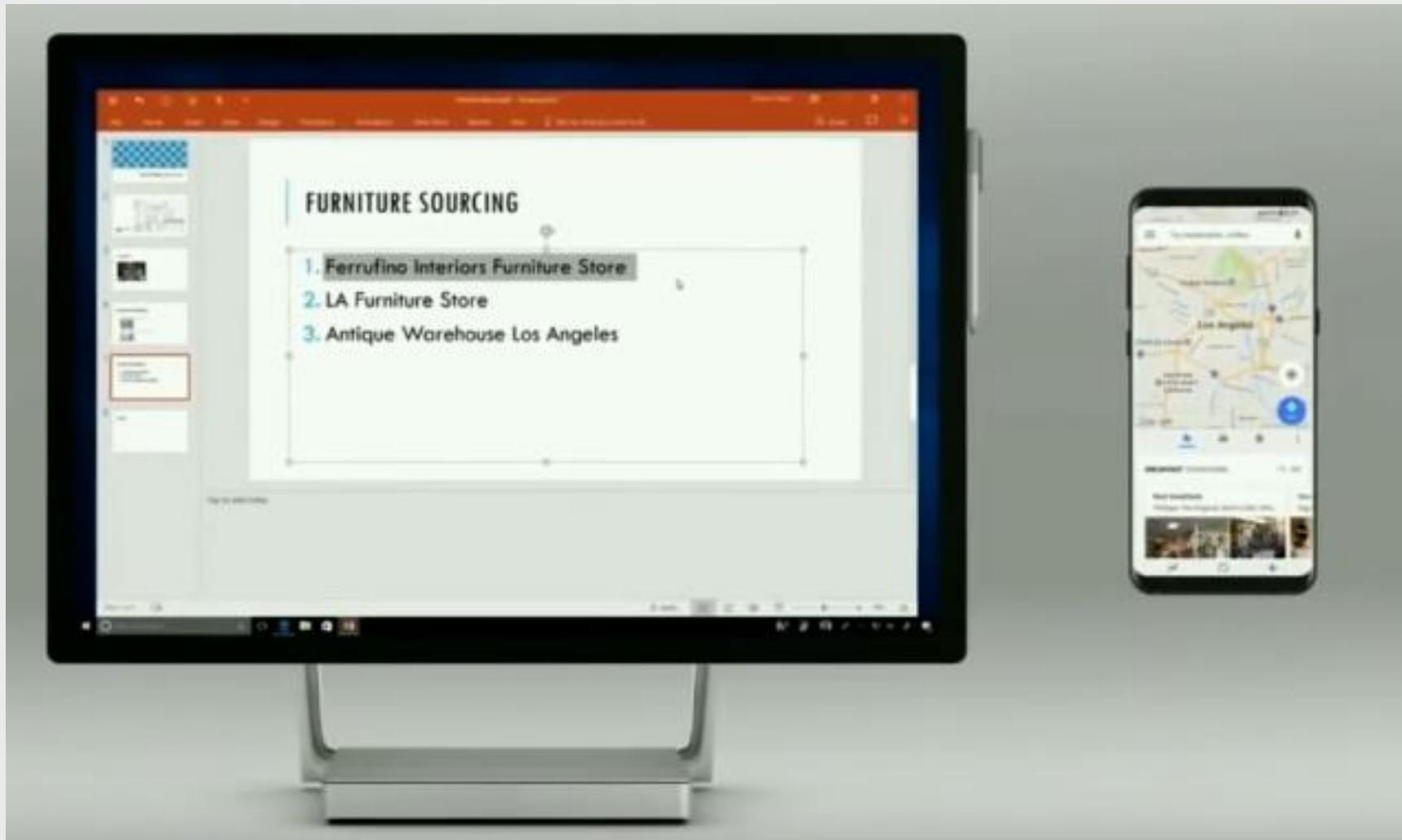
'프로젝트 네온'

개발자가 다양한 윈도우 기반
기기를 넘나들며 앱 개발을
할 수 있도록 지원

다양한 디바이스 간의
직관적이고, 조화로우며,
즉각적으로 반응하는 사용자
경험 및 인터랙션 제공

윈도우, iOS, 안드로이드
모두에서 사용 가능

2. Microsoft Graph 기반 기술



다양한 기기를 사용하는 사람들과 연결

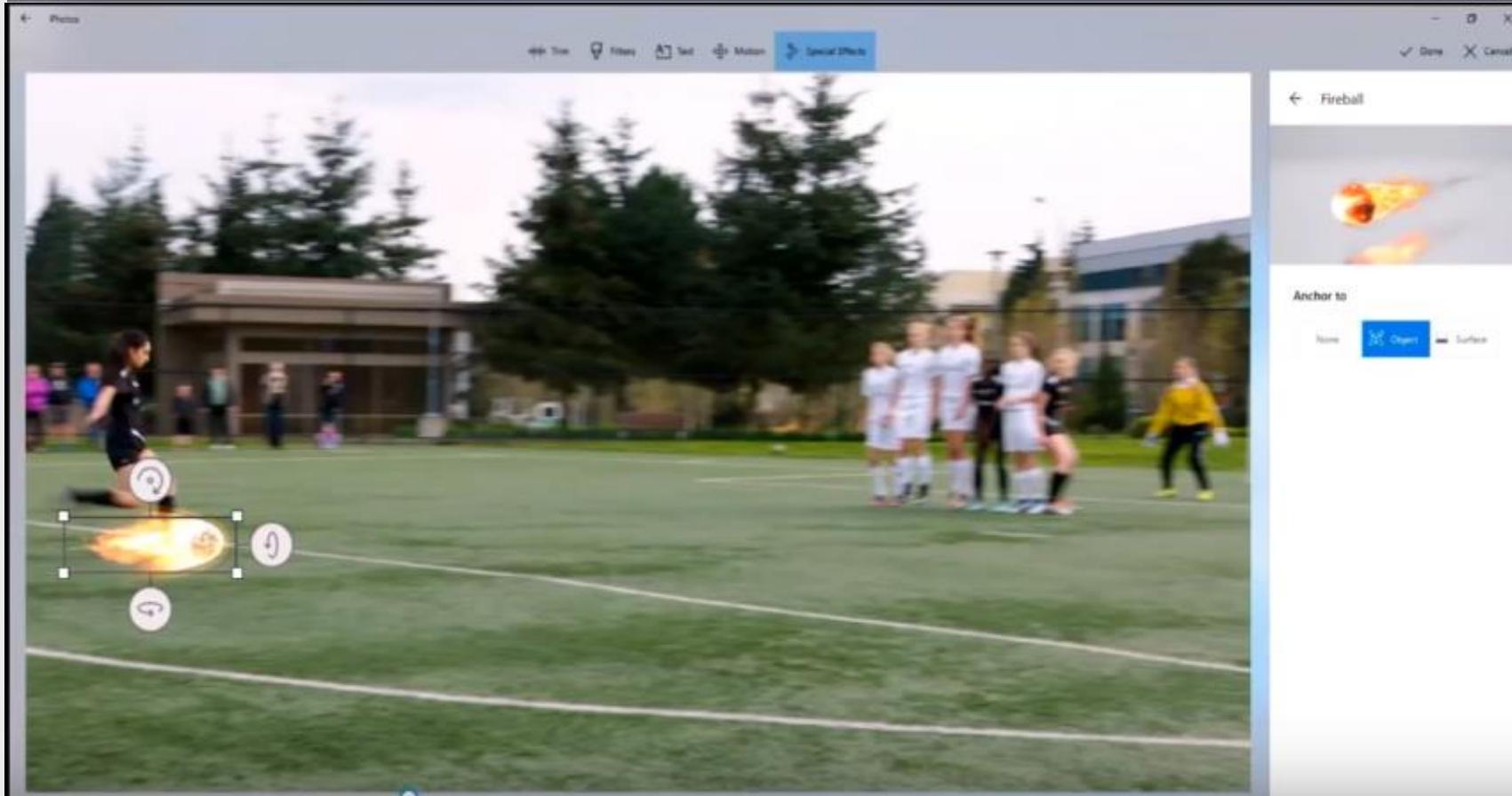
클라우드를 이용하여 여러 대의 PC, 혹은 모바일 기기에서 파일을 동기화하여 사용

클라우드를 이용하여 여러 기기간에도 클립보드 내용을 복제할 수 있게 제공

Microsoft Cloud 기반의 Microsoft Graph 을 바탕으로 작동

기기 간의 물리적, 혹은 운영체제적인 장벽이 허물어짐

3. Story Remix



인공지능과 딥러닝 기술 기반

새로운 사진과 동영상 제작 도구

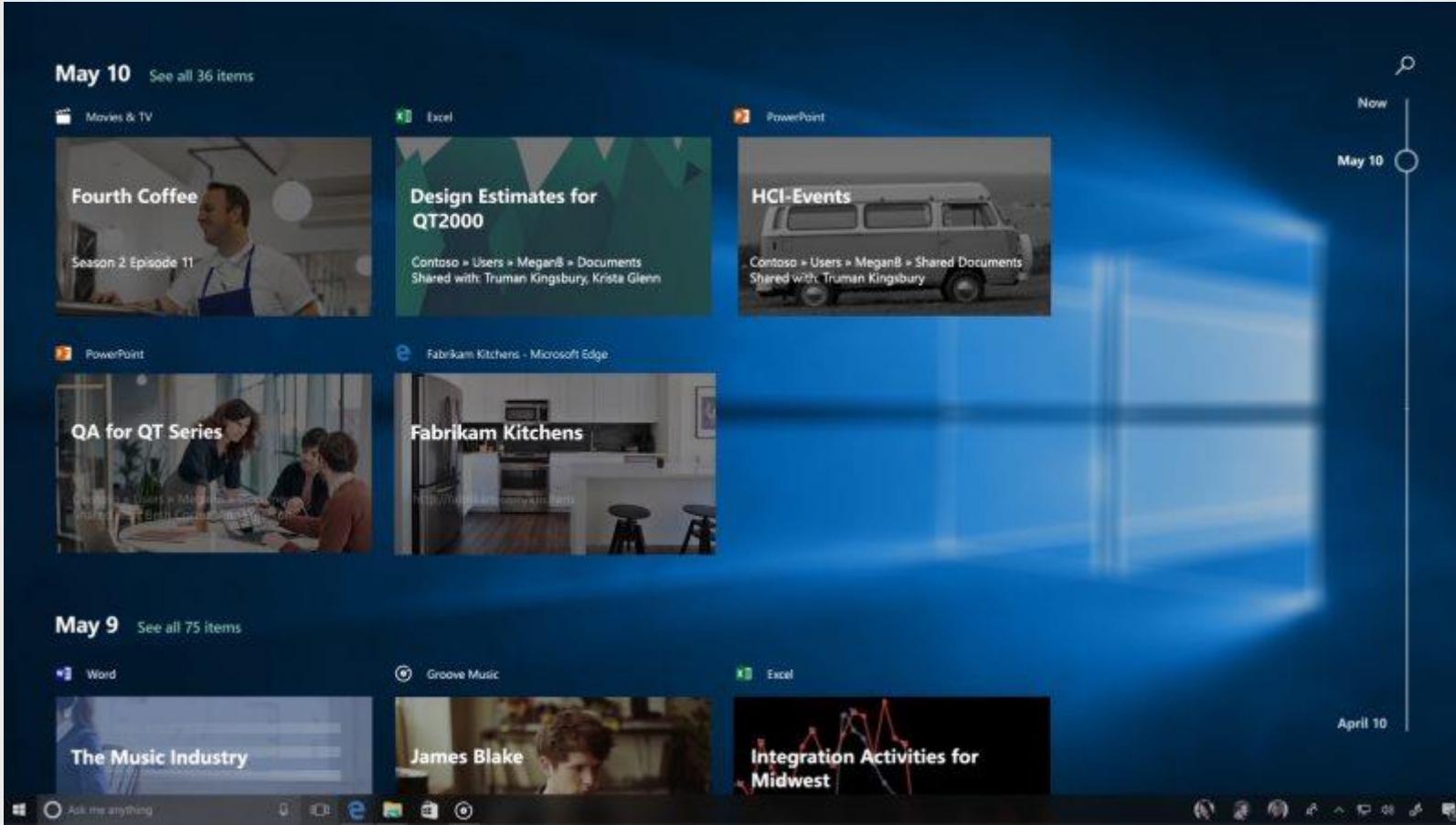
사진과 동영상 속 객체를 구분
(사람, 동물, 풍경 등)

주제에 맞게 선별하여 영상 제작, 원하는 객체 선정하여 주인공 영상 제작

배경음악, 테마 연동 가능

내장된 Remix 3D 기능으로 사진과 동영상에 3D 와 MR 효과 추가

4. Timeline



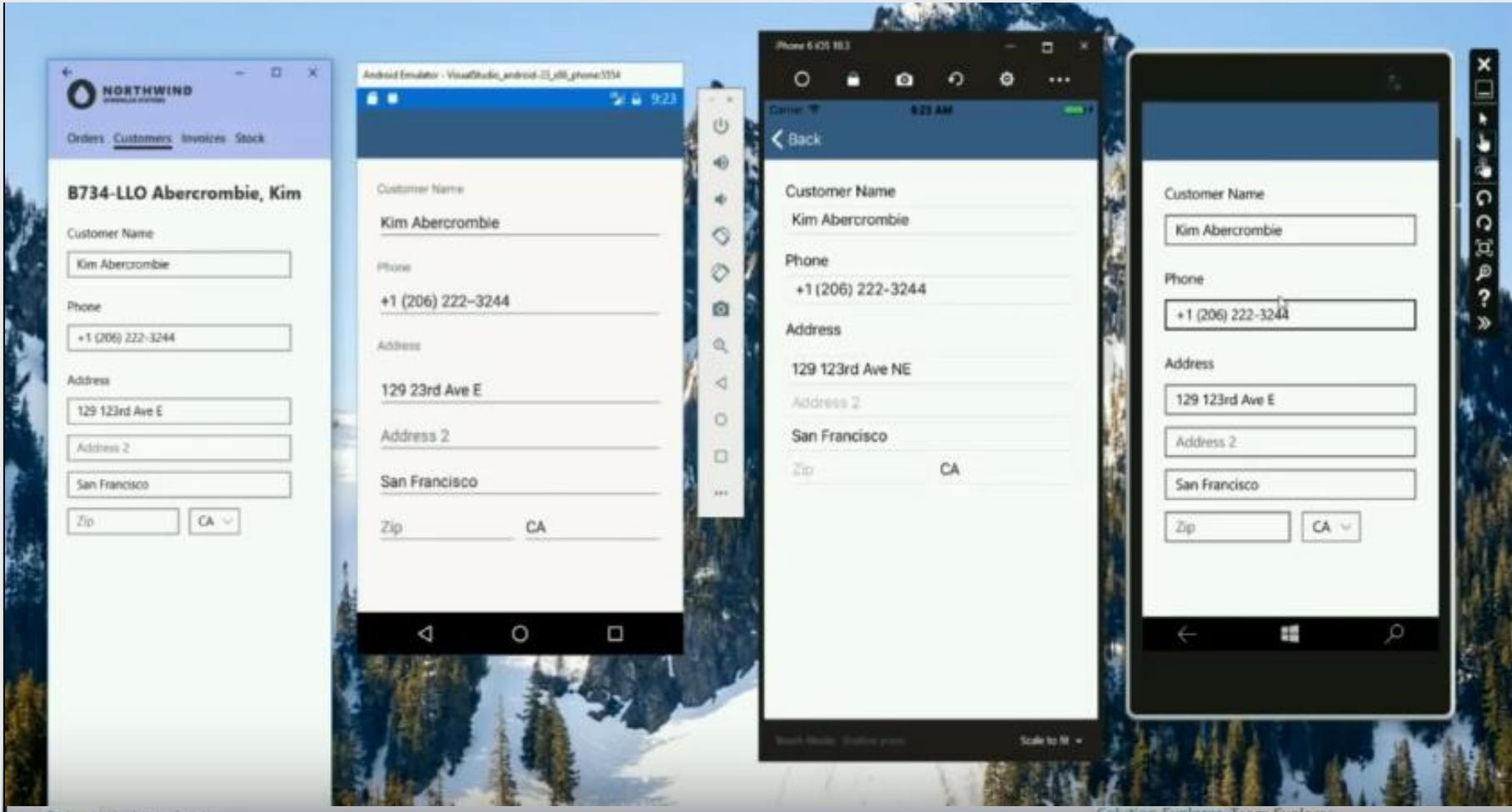
Windows 10에서 이전에
했던 작업을 한눈에
정리해주는 기능

어떤 앱에서 어떤 작업을
했는지 시간별로 확인 가능

어떤 PC에서든 이전
작업으로 되돌아가거나 다시
불러오기 가능

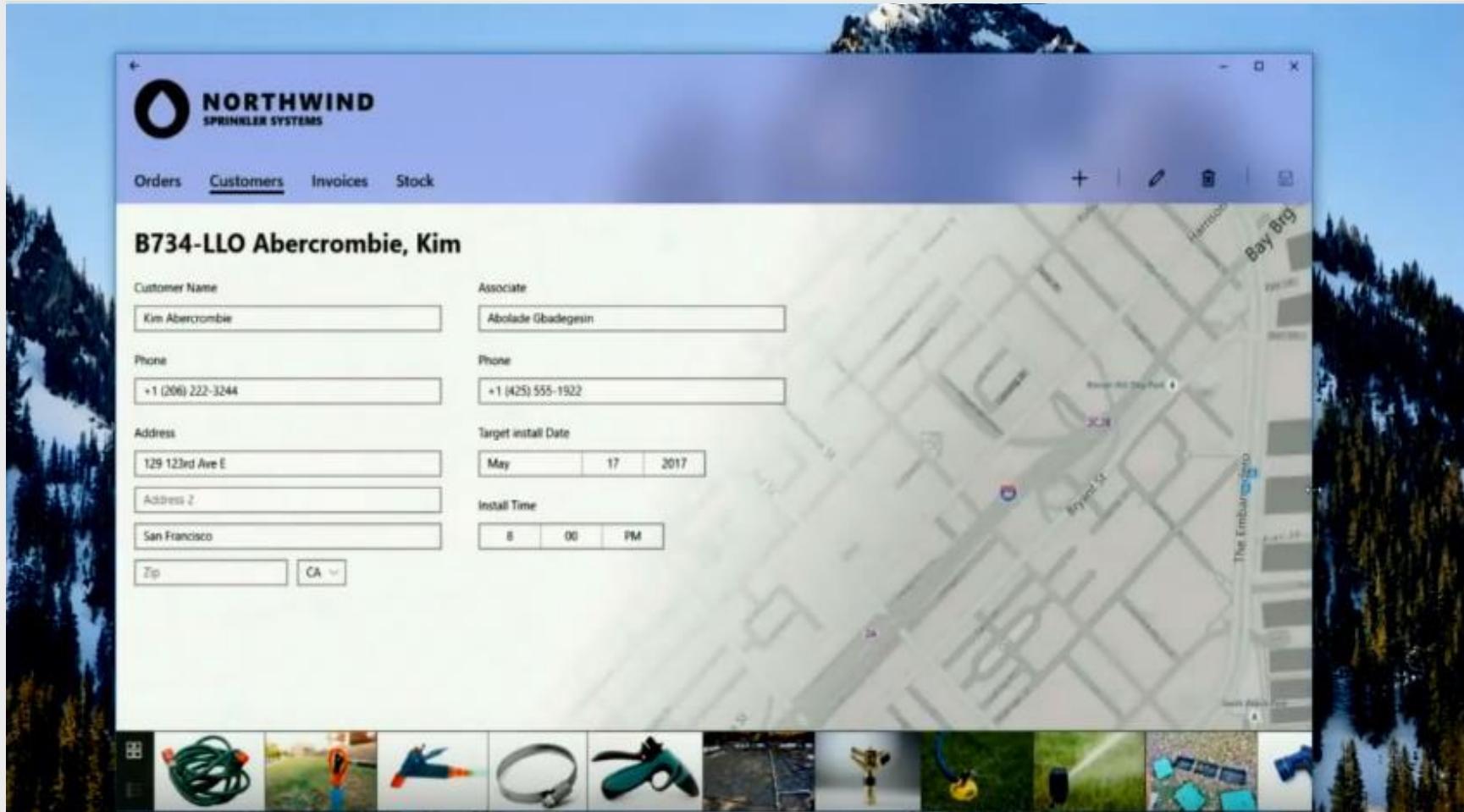
Microsoft ID를 통해 진행
내역이 클라우드 상에 동기화

5. .NET Standard 2.0



Web, C++, .NET 및
UWF 등의 모든
개발자들을 위한
새로운 UWF 표준 발표

6. XAML Standard 1.0



iOS, 안드로이드, Windows PC 및 Phone 등을 모두 지원

다양한 스크린 사이즈를 지원

7. Project Rome SDK for iOS

ANNOUNCING

Project Rome SDK for iOS
<https://aka.ms/projectrome>

Also available:

[Windows 10 Insider Preview SDK](#) | [Project Rome SDK for Android](#) | [Microsoft Graph REST APIs](#)

개발 도구의 개방성 확대

Windows PC에서 iOS용 앱을
개발, 테스트, 디버깅 가능

하나의 Visual Studio에서
Windows용 앱, 안드로이드
용 앱, iOS용 앱을 모두 개발
가능

8. Windows 10 S



Windows 10 S 기반 교육용
신규 제품 및 서비스 공개

교실 안의 협업과
커뮤니케이션을 돋는
Microsoft Teams 와
마인크래프트 코딩 및 MR
기능을 통해 디지털 교육
환경 구축 지원

Windows 10 S 는 Windows
Store 에서 내려 받은 앱만
설치 가능

Office 365 기본 제공

대학생에게 최적화된 새로운
서비스 노트북인 서비스 랩톱
비

9. Windows Store 강화

: iTunes, SAP Boardroom, Ubuntu, OpenSUSE, Fedora



Store 에 아이튠즈 출시 예정

애플 뮤직, 아이튠즈 스토어
사용 가능

모든 Windows 10 및 Windows
10 S PC 환경에서 애플
디바이스의 지원도 받을 수
있음

9. Windows Store 강화

: iTunes, SAP Boardroom, Ubuntu, OpenSUSE, Fedora

ANNOUNCING



SAP Digital Boardroom

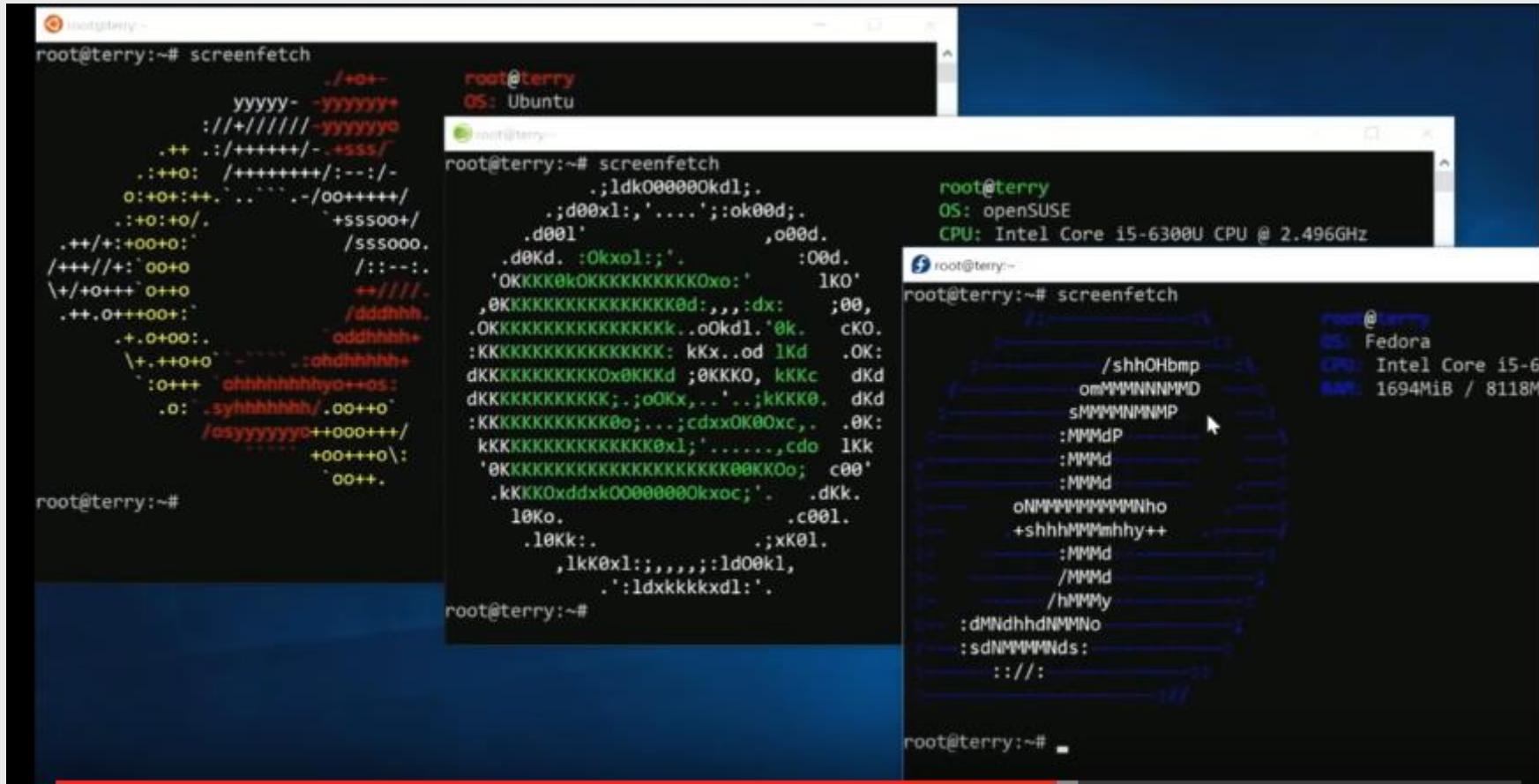
Coming to the  Windows Store

SAP Digital Boardroom은
차세대 경영회의 지원 포털

비즈니스 앱의 데이터를
활용하여 기업이 실시간으로
중요한 결정을 내릴 수 있는
정보 제공을 도움

9. Windows Store 강화

: iTunes, SAP Boardroom, Ubuntu, OpenSUSE, Fedora



Windows Store 에서 Ubuntu, SUSE, Fedora 를 다운받아 사용 가능

기존 Windows 10 은 Ubuntu 기반 Bash Shell 만 제공

가상머신에서 구동되는 것이 아니라, 네이티브로 구동되어 리눅스 자체를 Windows 에 포함

그래픽 사용자 환경이 제거된 버전으로 명령어 기반으로 사용

10. MR : Mixed Reality



Windows MR 헤드셋을
새롭게 선보임

Acer (\$299)와 HP (\$329)
용으로 MR 개발도구 출시

미국과 캐나다 거주
개발자들은 Microsoft Store
에서 사전 주문 가능 (올 여름)

Window 10 Fall Creator
Update 를 통해 MR 개발
도구로 MR 컨텐츠 개발 가능

최신 모션 컨트롤러 공개

