

Microsoft Azure Workshop

Welcome

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#UKDXAzure

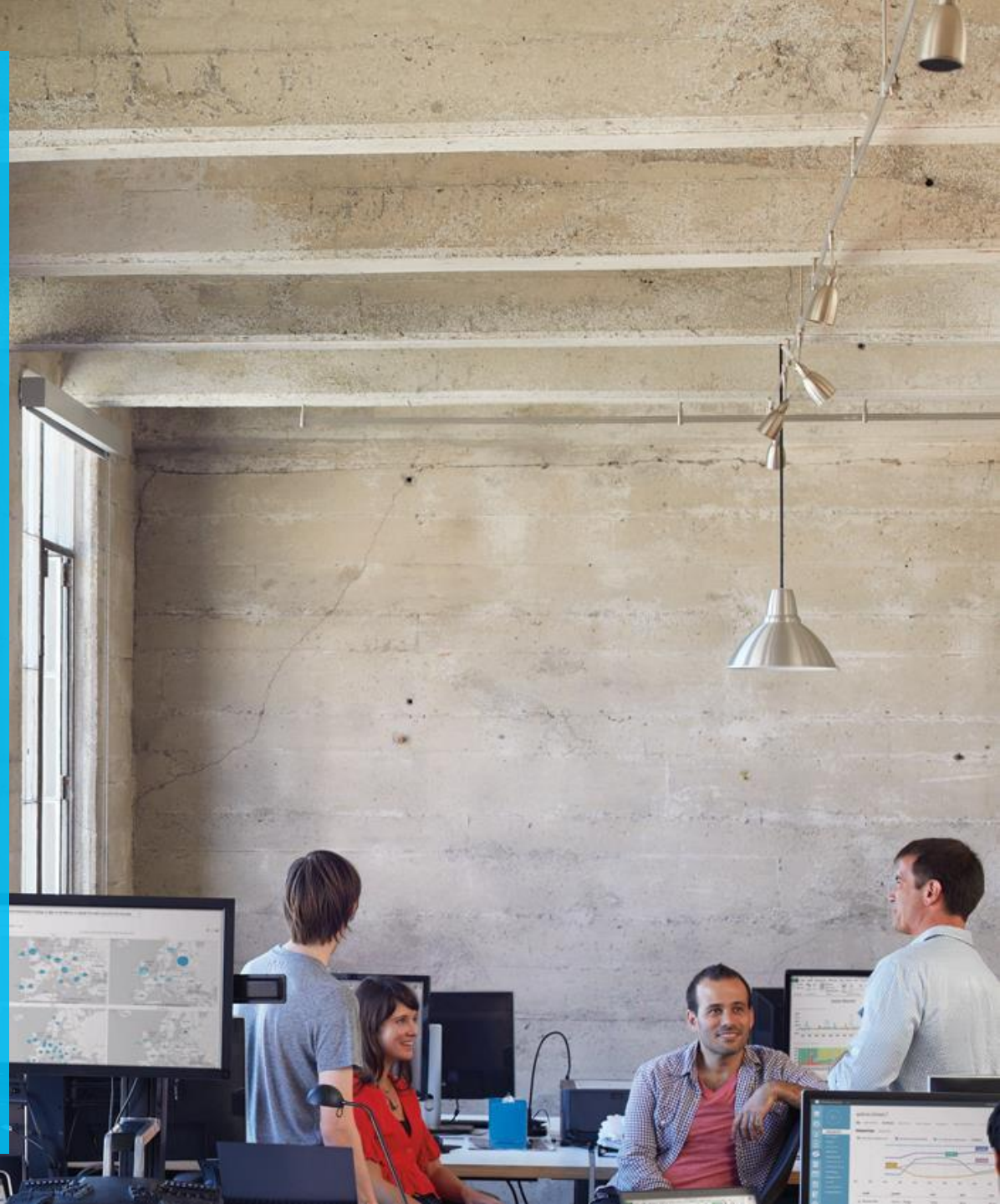
Agenda

- 9:30am *Registration opens*
- 10am *Workshop starts, with breaks for coffee and lunch*
- 2pm *Networking and informal one to one discussions*
- 3pm *Machine Learning Workshop*
- 4pm *Close*



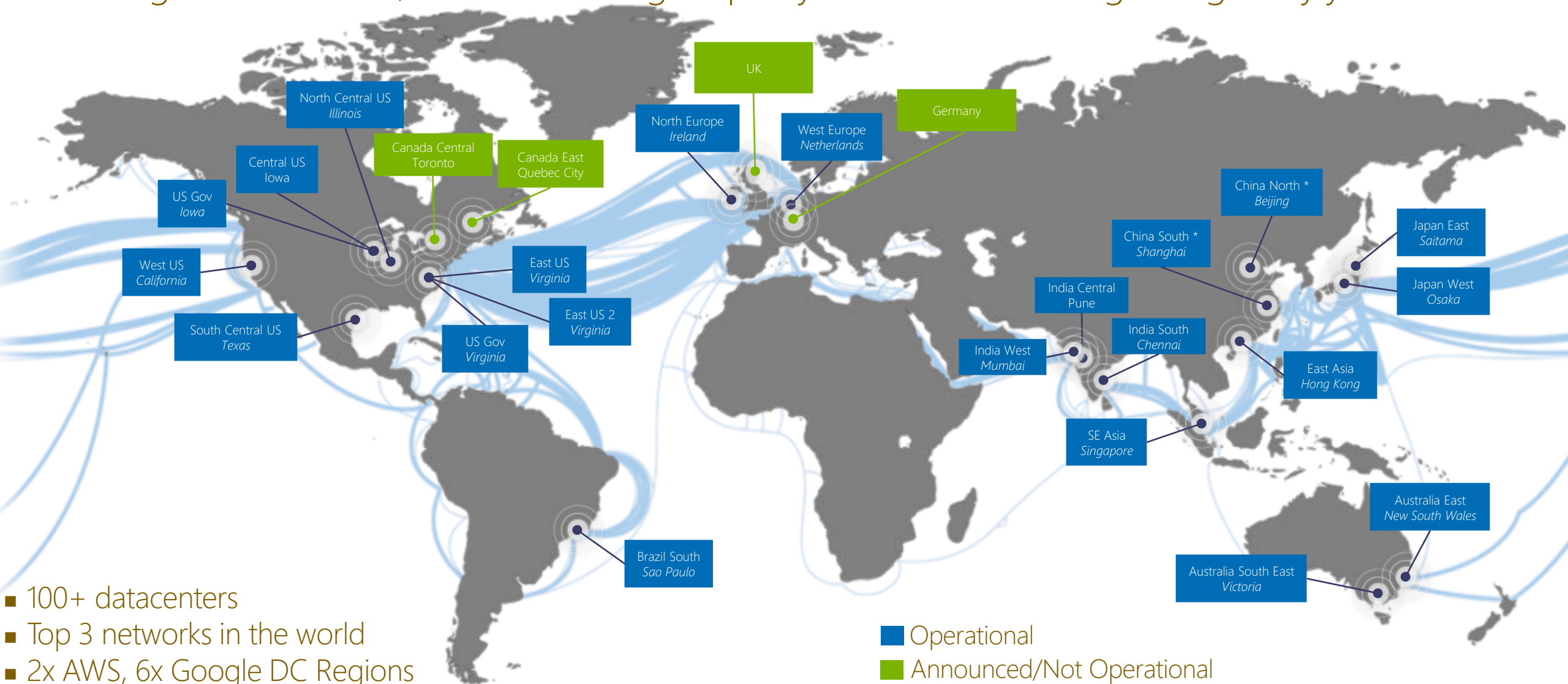
Microsoft Azure

The cloud platform
built for business and
innovation



Huge infrastructure scale is the enabler

24 Regions Worldwide, 22 ONLINE...huge capacity around the world...growing every year



- 100+ datacenters
- Top 3 networks in the world
- 2x AWS, 6x Google DC Regions
- G Series – Largest VM in World, 32 cores, 448GB Ram, SSD...

■ Operational

■ Announced/Not Operational

* Operated by 21Vianet

Azure momentum

~100,000

New Azure customer
subscriptions/month

20 Million

SQL database hours
used every day

> 50 Trillion

Storage objects
in Azure

> 5 Trillion

Storage transactions
every month

425 Million

Azure Active
Directory Users

60 Billion

Hits to Websites run on
Azure Web App Service

57%

Of Fortune 500 Companies
use Microsoft Azure

1 Trillion

Messages delivered every
month with Event Hubs

Azure is an Open Cloud

Integrated

Languages, Dev
Tools & App
Containers



CMS & Apps



Devices



Databases



Management



Operating
systems



Ecosystem Provided



Jenkins

Bring your own

Windows® **Web App Gallery**

Dozens of .NET & PHP CMS and Web applications



Xamarin



APACHE **CORDOVA™**

Via HTML/JS, cross-platform and native



cleardb



MySQL



mongoDB

DocDB

DataStax



ANSIBLE



SALTSTACK

libcloud

jclouds



VM Depot PREVIEW

by Microsoft Open Technologies



FreeBSD

Bring
your own

Azure Portal

The screenshot displays the Microsoft Azure Portal interface. At the top, a dark blue header bar contains the 'Internal' label, the 'Microsoft Azure' logo with a dropdown arrow, a 'Report bug' button, and a 'Search resources' input field. Below the header, a left-hand navigation pane lists various Azure services: New, Resource groups, All resources, Recent, App Services, SQL databases, Virtual machines (classic), Virtual machines, Cloud services (classic), Subscriptions, SQL servers, Storage accounts (class...), App Service plans, and Application Insights. The main content area is titled 'Dashboard' and includes an 'Edit' link. It features several tiles: 'All resources' (listing 'BandontheRunStreamAnalyticsJob', 'bandontherunjob', and 'bandontherun'), 'Service health' (showing a world map with green status indicators), 'BandOnTheRunAppln...' (Application Insights), 'BandontheRun-IoTHub' (Azure IoT Hub, Active), 'BandontheRunStrea...' (STREAMING JOB), 'bandontherunstorag...', 'Marketplace', 'Portal settings', 'Help + support', 'BandontheRun', 'Tour' (How it works), 'What's new', 'Feedback', 'Azure classic portal', and 'Audit logs'. The bottom of the navigation pane has a 'Browse >' link.

Platform Services

Security & Management

- Portal
- Active Directory
- Multi-Factor Authentication
- Automation
- Key Vault
- Store / Marketplace
- VM Image Gallery & VM Depot

Compute

- Cloud Services
- Service Fabric
- Batch
- Remote App

Web and Mobile

- Web Apps
- API Apps
- API Management
- Mobile Apps
- Logic Apps
- Notification Hubs

Developer Services

- Visual Studio
- Azure SDK
- Team Project
- Application Insights

Hybrid Operations

- Azure AD Connect Health
- AD Privileged Identity Management
- Backup
- Operational Insights
- Import/Export
- Site Recovery
- StorSimple

Integration

- Storage Queues
- Biztalk Services
- Hybrid Connections
- Service Bus

Analytics & IoT

- HDInsight
- Machine Learning
- Data Factory
- IoT and Event Hubs
- Stream Analytics
- Mobile Engagement

Data

- SQL Database
- SQL Data Warehouse
- Redis Cache
- Search
- DocumentDB
- Tables

Media & CDN

- Media Services
- Content Delivery Network (CDN)

Infrastructure Services

Compute

- Virtual Machines
- Containers

Storage

- BLOB Storage
- Azure Files
- Premium Storage

Networking

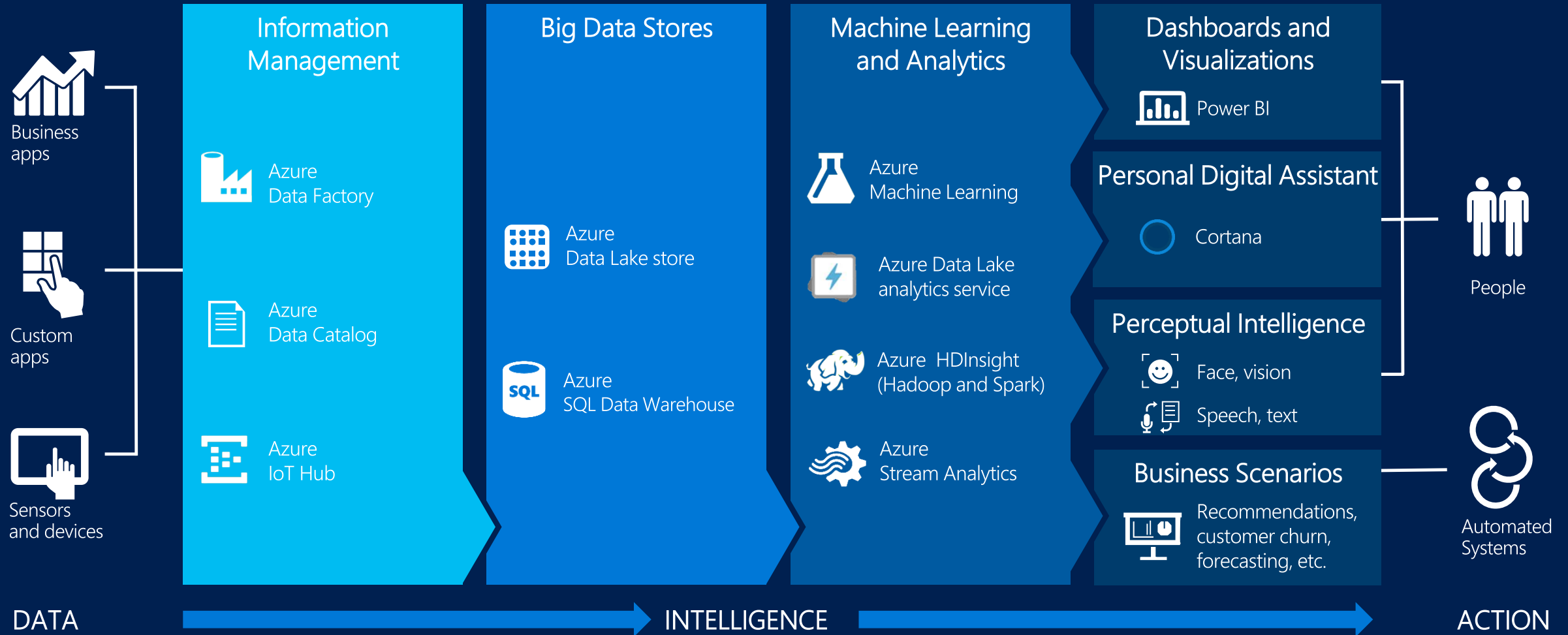
- Virtual Network
- Load Balancer
- DNS
- Express Route
- Traffic Manager
- VPN Gateway
- Application Gateway


Datacenter Infrastructure (24 Regions, 19 Online)



Analytics and IoT

Transform data into intelligent action





"The more data we have, the more we can learn and put together algorithms to predict problems. It's about taking information to make systems even more efficient and productive."

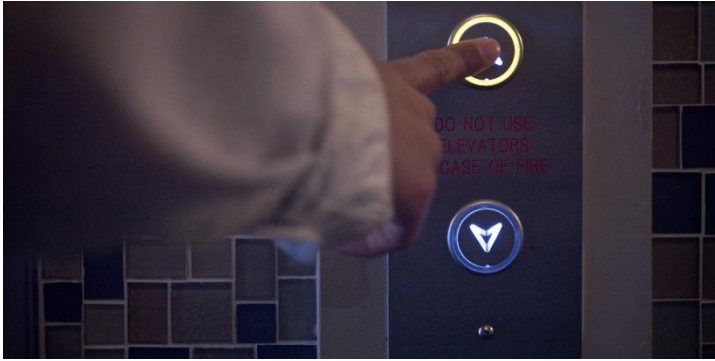
DOUG WEBER

BUSINESS MANAGER,
REMOTE APPLICATION MONITORING
ROCKWELL AUTOMATION

Rockwell
Automation



WATCH VIDEO



The Internet of Things gives the world's cities a major lift

[THYSSENKRUPP ELEVATOR VIDEO](#)

CHALLENGE

Leading global manufacturer ThyssenKrupp Elevator maintains more than elevators worldwide, including those at some of the **1.1 million** world's most iconic buildings. ThyssenKrupp wanted to better compete in their industry by offering dramatically **increased uptime**, taking preventative maintenance a step further to predictive and even **pre-emptive service**.

SOLUTION

ThyssenKrupp teamed up with Microsoft and CGI to create a connected, **intelligent** asset monitoring **system** based on Microsoft Azure Intelligent Systems Service, Power BI for Office 365, and Microsoft Azure Machine Learning. The solution connects thousands of sensors and systems in its elevators to the **cloud** and draws this data into a **dashboard** available on PCs and **mobile** devices for a real-time view of key performance indicators.

BENEFITS

- **Increases reliability** through predictive maintenance and rapid, remote diagnostic capabilities
- **Reduces costs** for ThyssenKrupp and their customers
- Rich, **real-time** data visualization
- Data continually feeds into dynamic predictive models



Create the Internet of Your Things

www.InternetofYourThings.com

"We wanted to go beyond the industry standard of preventative maintenance, to offer predictive and even preemptive maintenance."

Andreas Schierenbeck
CEO

Azure IoT Solutions

- Well known fried chicken fast food chain using Azure to monitor temperature of deep fat fryers
- World leading jet engine manufacturer monitoring engines to predict failure
- Biggest automotive manufactures tracking car telemetry
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