Welcome IOT Auckland

IoT Auckland
Meeting #5

John McDermott: News

Microsoft for IoT:
John McDermott & Jourdan Templeton

Quick Pitch

IoT Auckland News

Reminder: IoT Conference Auckland 1 November

Discount code: MYOCOC $999

Ask for a leaflet

What Are We Doing?

Demonstration of Windows IoT Core on Raspberry Pi3

Fez Hat sensor board to create inputs and outputs

Information display on a connected display and a remote display

Creating and deploying a program with Visual Studio

Connecting data to Azure and Power BI Dashboard

What is Windows IoT?

Easier to first define what it isn't:
- It's not Windows as you know it!
- No Desktop
- No Windows applications
- Not even a native command line

So why use it?
- Yes, it's free
- Visual Studio integration, a complete developer IDE including debugger
- Powershell remote command line, and remote web management tool
- Universal Windows Platform API – one application for Pi, phone or desktop
- (wifi, bluetooth and UART are supported)

Replaces Windows embedded CE...?

The Demo

Raspberry Pi

Fez Hat Sensors
Temperature, push buttons, accelerometer, ...

Azure

Power BI

More About Azure

Platform Services

Security & Management
- Portal
- Azure Active Directory
- Azure AD B2C
- Multi-Factor Authentication
- Automation
- Scheduler
- Key Vault
- Store/ Marketplace
- VM Image Gallery & VM Depot

Services Compute
- Cloud Services
- Service Fabric
- Batch
- RemoteApp

Integration
- Storage Queues
- BizTalk Services
- Hybrid Connections
- Service Bus

Media & CDN
- Media Services
- Content Delivery Network (CDN)

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

Developer Services
- Visual Studio
- Azure SDK
- VS Online
- App Insights

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

Analytics & IoT
- HDInsight
- Machine Learning
- Stream Analytics
- Data Lake
- Data Factory
- Event Hubs
- Data Catalog
- IoT Hub
- Mobile Engagement

Hybrid Operations
- Azure AD Health Monitoring
- AD Privileged Identity Management
- Domain Services
- Backup
- Operational Analytics
- Import/Export
- Azure Site Recovery
- StorSimple

Infrastructure Services

OS/Server Compute
- Virtual Machines
- Container Service

Storage
- BLOB Storage
- Azure Files
- Premium Storage

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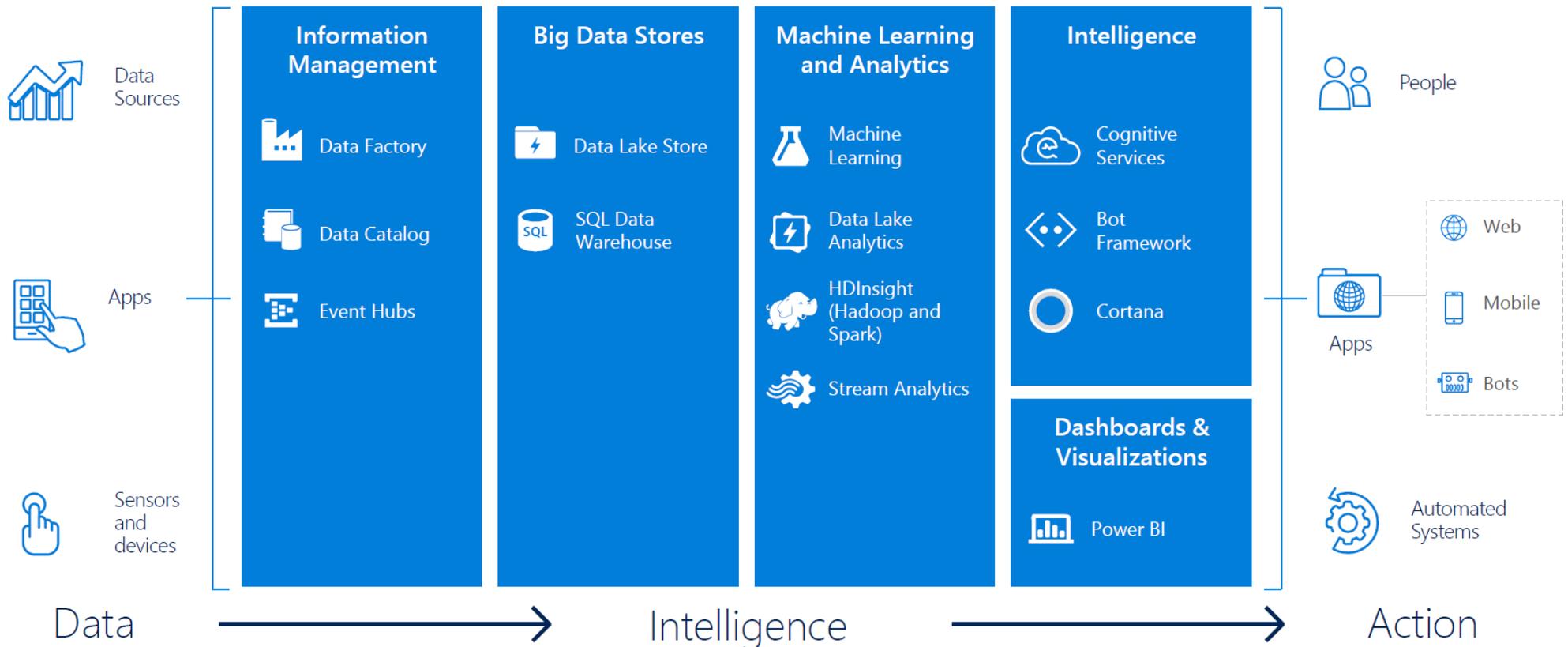- Express Route
- Traffic Manager
- VPN Gateway
- App Gateway

Datacenter Infrastructure (30 Regions, 22 Online)

Azure for IoT
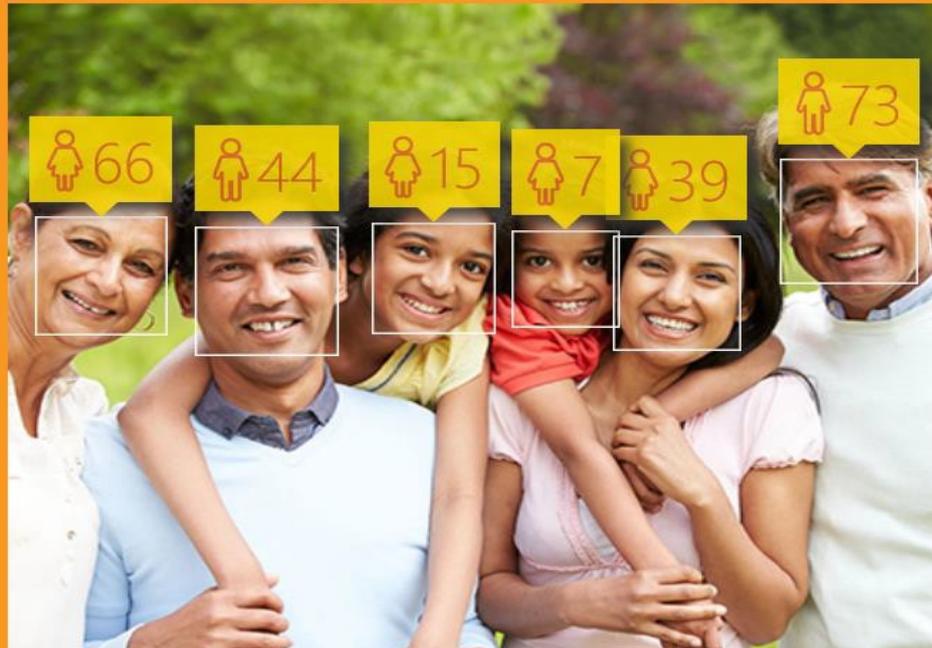
Transform data into intelligent action

Some Fun Stuff

IoT Auckland

Quick Pitch

Next month:
  a) **Repeat of today?**
  b) **Hossein Sarrafzadeh UniTec**
China-New Zealand Joint Research Centre for

Computational Intelligence for Environmental Engineering