Microsoft

# winhec

Taipei 2015

Microsoft

# Create the Internet of Your Things: Microsoft vision for IoT

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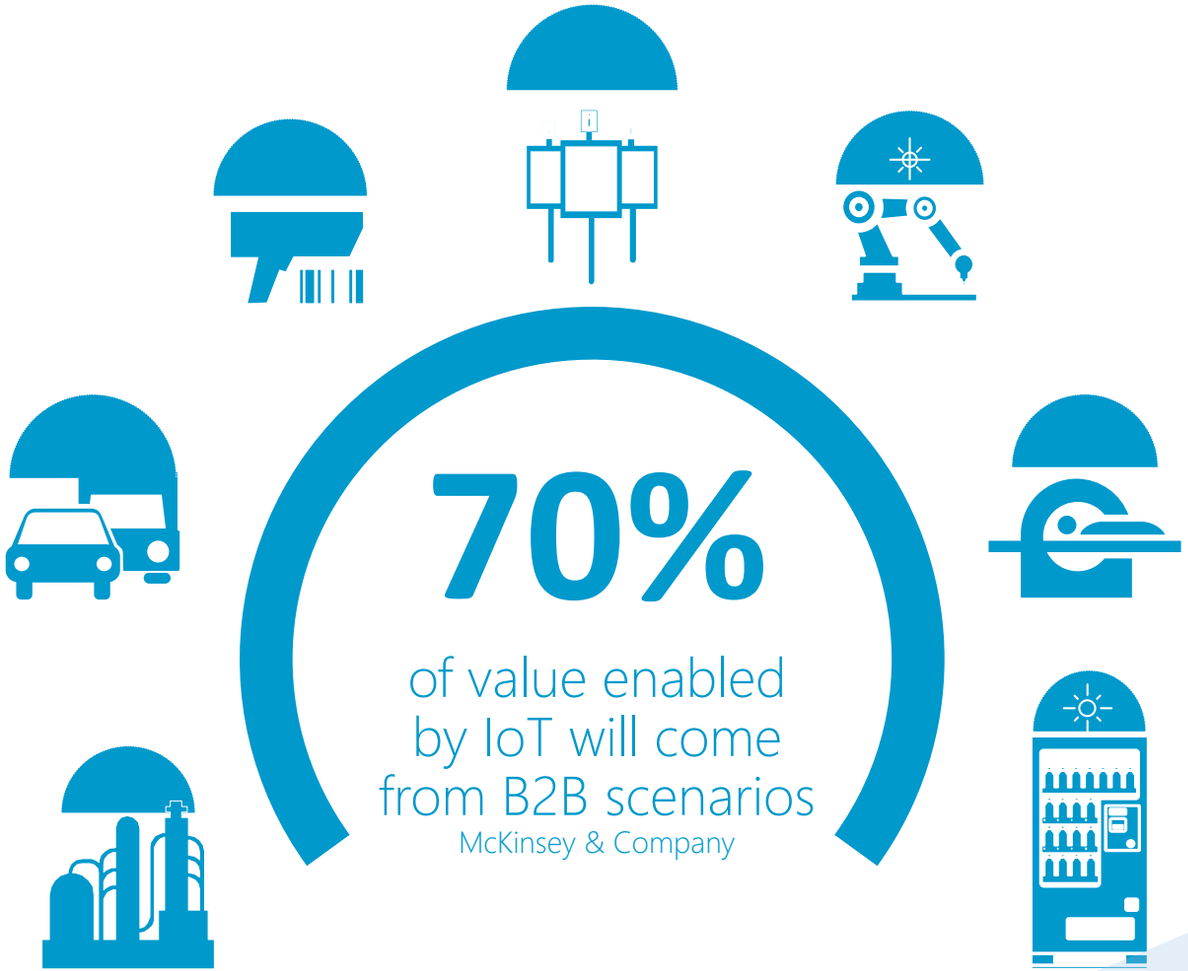
# Microsoft IoT Vision & Goals

Enable organizations transform their businesses by harnessing the power of intelligent devices and untapped data

## The Internet of Things starts with **your things**

# Internet of Things opportunity




**25 billion**

Connected "things" by 2020

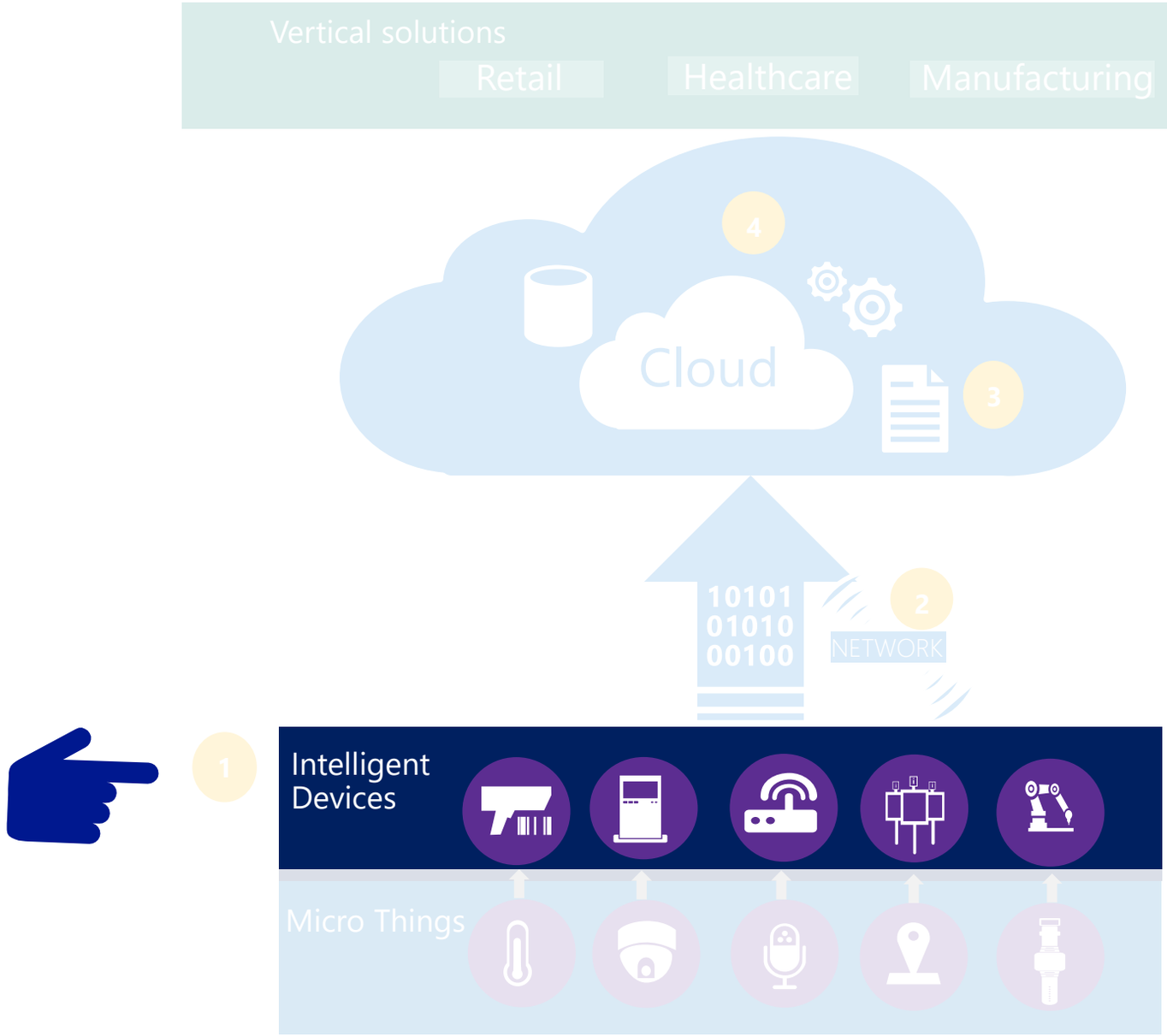
—Gartner

**$1.7 trillion**

Market for IoT by 2020

—IDC

# Internet of Things(IoT) Architecture - Simplified




1. Intelligent Devices and MicroThings
2. Secure Connectivity
3. Analytics & BI
4. Cloud Services

# Powering The Next Generation of Intelligent Devices

Windows 10

## One Windows Platform

Universal Windows Platform

Universal Windows apps and driver

One common deployment and management

## Secured

Enterprise-grade security

Granular UX Control and Advanced Lockdown

## Connected

Device connectivity

Cloud connectivity

# Windows 10 IoT Editions

**Windows 10 IoT Enterprise**

1 GB RAM, 16 GB Storage

X86

**Windows 10 Enterprise for IoT devices**

Enterprise Manageability and Security
Rich user experience
Win32 & UWP

**Windows 10 IoT Mobile**

512 MB RAM, 4 GB storage

ARM

**Windows 10 Mobile Enterprise for IoT devices**

Handheld devices
Modern Shell & UWP
Advanced lockdown and multi-user support

**Windows 10 IoT Core**

256MB RAM, 2GB storage

X86 or ARM

**New Windows 10 version for IoT devices**

Optimized for small & low cost IoT devices
Single UWP App experience
Low cost silicon

# Windows 10 IoT First Update Release

**Windows 10 IoT Enterprise**

1 GB RAM, 16 GB Storage

X86

No new updates in this release

**Windows 10 IoT Mobile**

512 MB RAM, 4 GB storage

ARM

Released to OEMs

**Windows 10 IoT Core**

256MB RAM, 2GB storage

X86 or ARM

Released to OEMs

New SKU to control updates

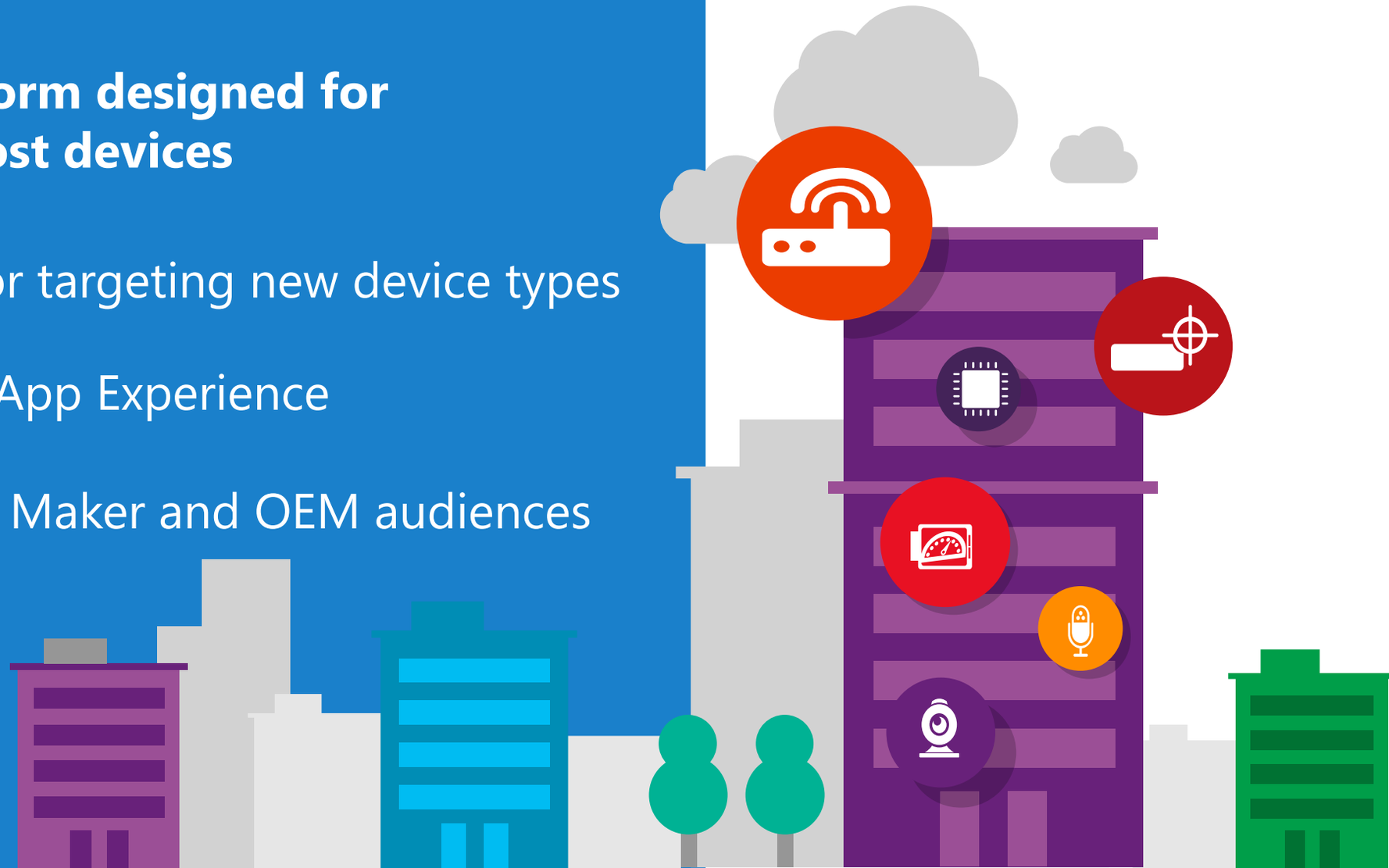
# Microsoft Windows 10 IoT Core

**Optimized platform designed for small and low cost devices**

Opportunities for targeting new device types

Single purpose App Experience

SKUs to address Maker and OEM audiences



# Windows 10 IoT Core Commercial Platforms

Farnell's Element14 announced a new customization service for RPi2 partners.

★ NEW

# Windows 10 IoT - Commercial Device Categories

| **Device Category** | Industrial | ATM | Medical | Security & Surveillance | POS | Kiosk & Digital Sign | Thin Client | Handheld | IoT Gateway |
|---|---|---|---|---|---|---|---|---|---|
| | Windows 10 IoT Enterprise | Windows 10 IoT Enterprise | Windows 10 IoT Enterprise | Windows 10 IoT Enterprise | Windows 10 IoT Enterprise | Windows 10 IoT Enterprise | Windows 10 IoT Enterprise | Windows 10 IoT Mobile Ent | Windows 10 IoT Enterprise<br>Windows 10 IoT Core |

# Build industry devices with Windows 10 IoT

Common and connected experience that scales across form factors

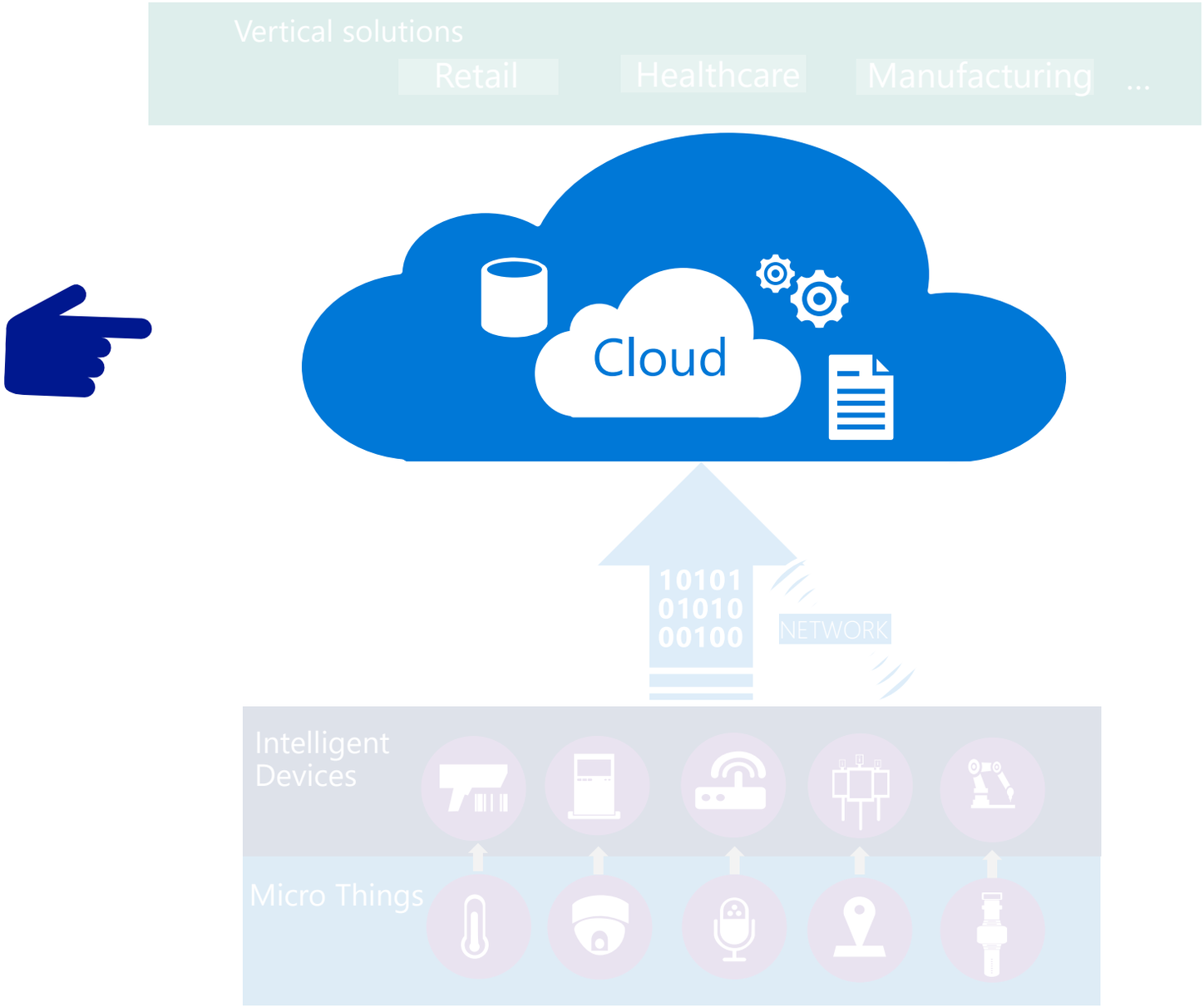
Large ecosystem of peripherals

Purpose built design – wide range of device types

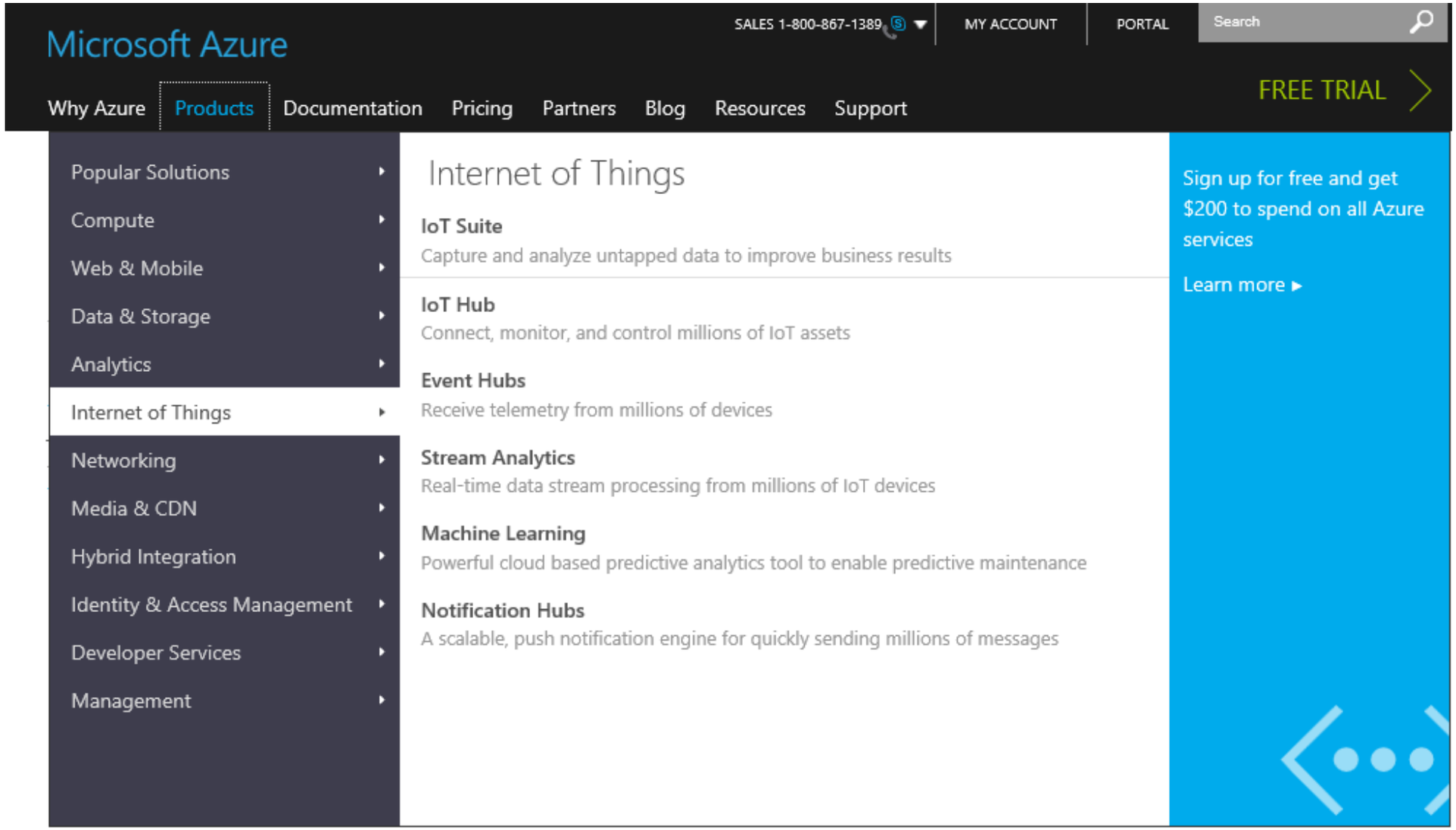
**Unlock new opportunities with Customers with the One Secure Platform that helps scale Next Generation IoT solutions**

Get the best Windows ever!

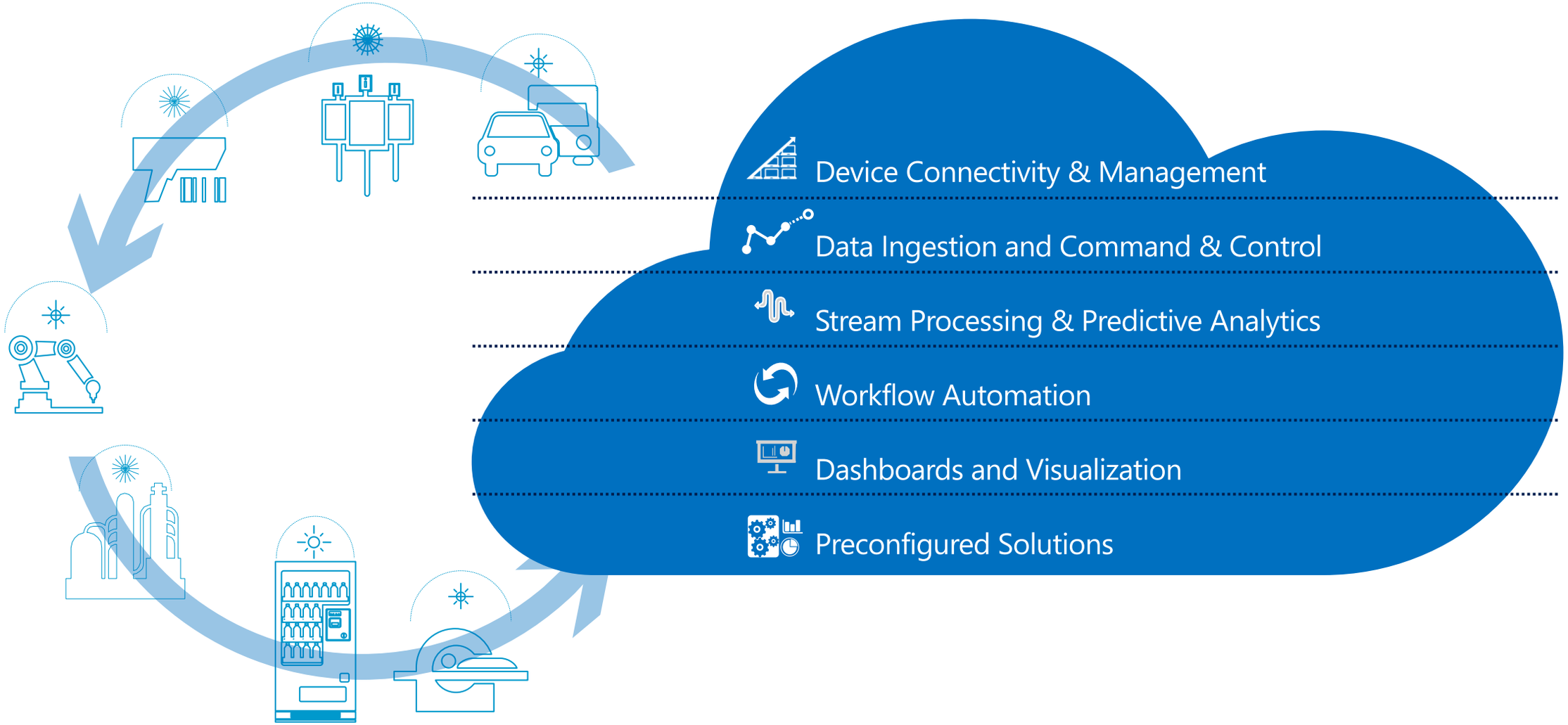
# Internet of Things(IoT) Architecture - Simplified



# Microsoft Azure for IoT



# Introducing Azure IoT Suite

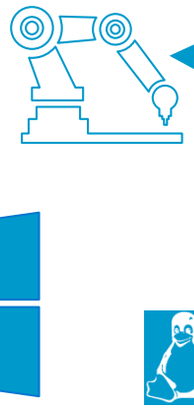


# Capture and analyze untapped data to transform your business

## Connect and scale with efficiency

## Analyze and act on new data

## Integrate and transform business processes



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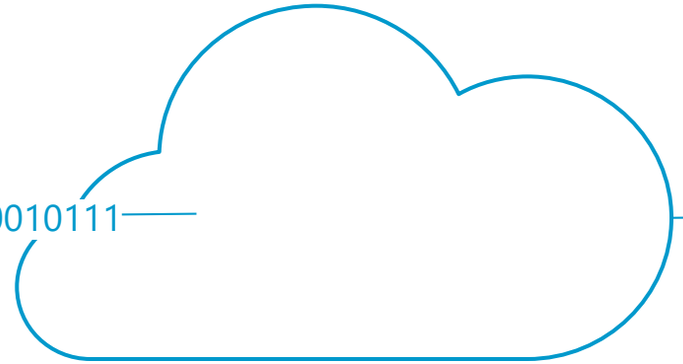

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Real-time operating systems

And more

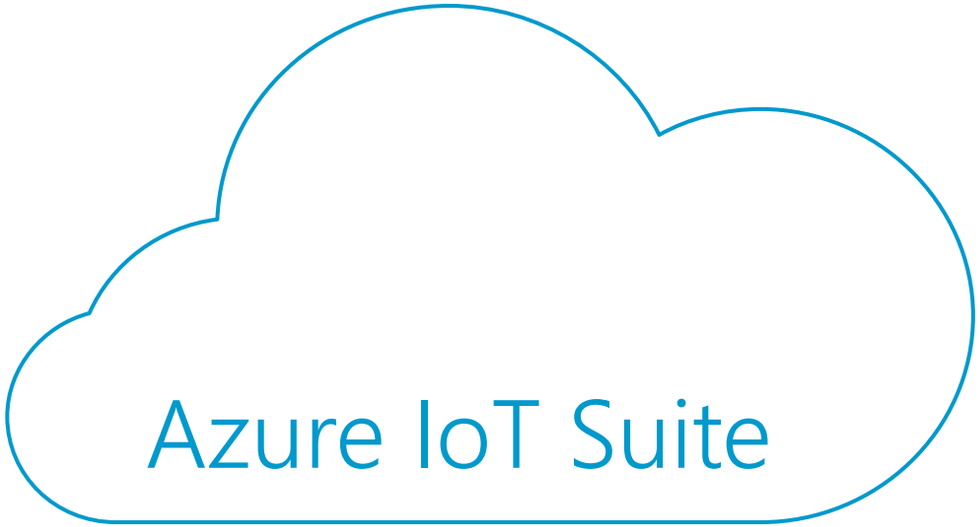
Analytics

Device Registry

Rules and Actions

Dashboards & Visualization

# Why Azure IoT Suite




## Comprehensive solution

Connect millions of devices and integrate your business systems with new insights to transform your business.

## Accelerate time to value

Get started quickly with preconfigured solutions for common IoT scenarios.

## Rich partner network

Leverage a worldwide ecosystem of experienced IoT partners to tailor IoT solutions to your needs.

# Microsoft Azure Certified for IoT

## Capitalize on IoT opportunities by getting certified

### Program overview

- Showcases partners with pre-tested offerings that easily connect to Microsoft Azure IoT solutions
- Guides businesses to partners who can help jumpstart IoT projects

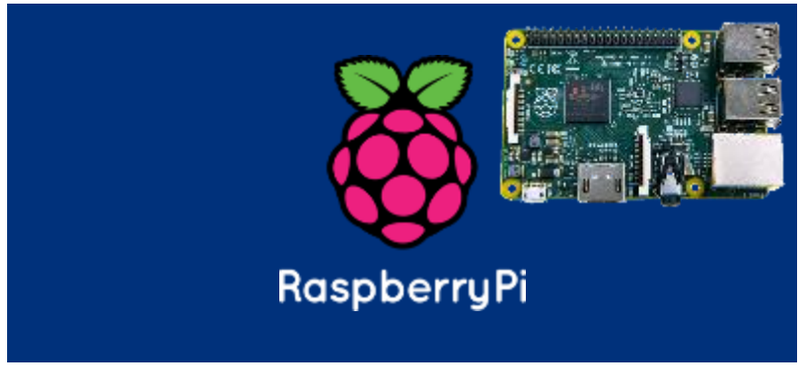
### Why certify?

**Extend your reach to new customers**

**Get certified with ease**

**Work with a leader in IoT**

# Windows 10 Platforms: Azure Certified for IoT



# Azure Certified for IoT launch partners

ARROW ELECTRONICS, INC.

freescale

TEXAS INSTRUMENTS

beagleboard.org

intel

resin.io

RaspberryPi

minnowboard.org

seeed
Grow the Difference

# Microsoft IoT – Windows & Azure IoT

| Windows | Azure IoT |
| --- | --- |
| IoT Editions Power a Broad Range of Devices | Cloud-Based IoT Services & Solutions |
| 20 years of history in embedded devices | Easy to provision, use and manage |
| One Windows platform for all devices | Pay as you go, scale as you need |
| Enterprise-ready, Maker-friendly | Global reach, hyper scale |
| Designed for today's IoT environments | End-to-end security & privacy |
| IoT Core edition includes a free SKU | Windows, Mbed, Linux, iOS, Android, RTOS support |

# Microsoft IoT Device & Solution Opportunities

Industrial Monitoring

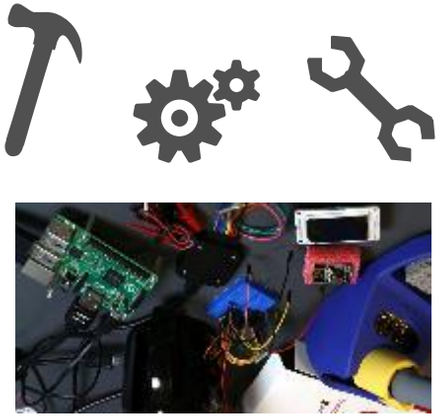
Retail Experience

Healthcare Operations Improvement

# Enabling Makers build the next Big Thing

Windows 10

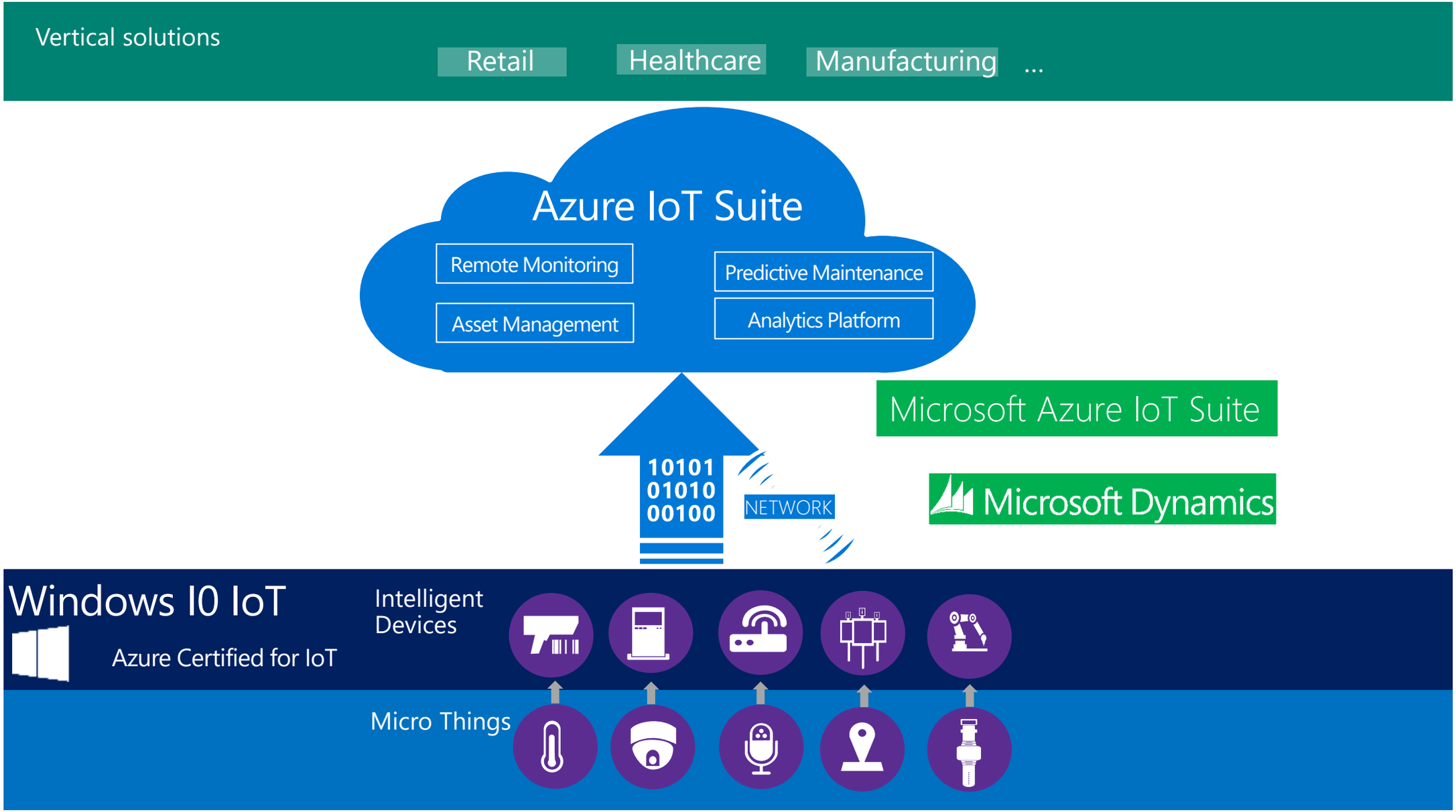
Visual Studio



Microsoft Azure

# Azure+Windows 10 Demo

# Bringing it all together



# Get started today

Familiarize with Windows 10 IoT by visiting us at www.windowsondevices.com

Learn more on Azure IoT Suite at internetofyourthings.com

Get started with Azure Certified for IoT Program at azure.com/certifiedforIoT

## Additional resources

**Windows for Business – IoT**
http://www.microsoft.com/en-us/WindowsForBusiness/windows-iot

**Windows 10 IoT Core download page**
http://ms-iot.github.io/content/en-US/Downloads.htm

Microsoft

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