IOT BEREC stakeholder's Forum 15/10/2015

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We have entered the age of the customer/ citizen



Age of manufacturing Age of distribution

Mass manufacturing makes industrial powerhouses successful Global connections and transportation systems make distribution key

Age of information

Connected PCs and supply chains mean those that control information flow dominate

Age of the customer

Empowered buyers demand a new level of customer obsession Beyond

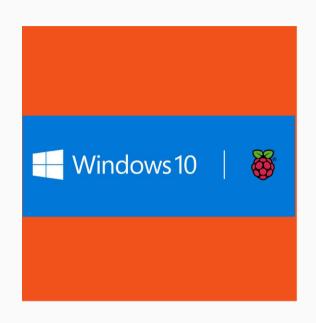
Source: Forrester October 2013 "Competitive Strategy In The Age Of The Customer"

IoT



IoT and Microsoft

Windows 10 version will be publicly available for all Raspberry Pie's





Windows 10 IoT version can run on all devices, with or without screens

Open source communication standard for IoT devices supported by Microsoft





IoT devices will heavily depend on cloud services

Microsoft Azure IoT services

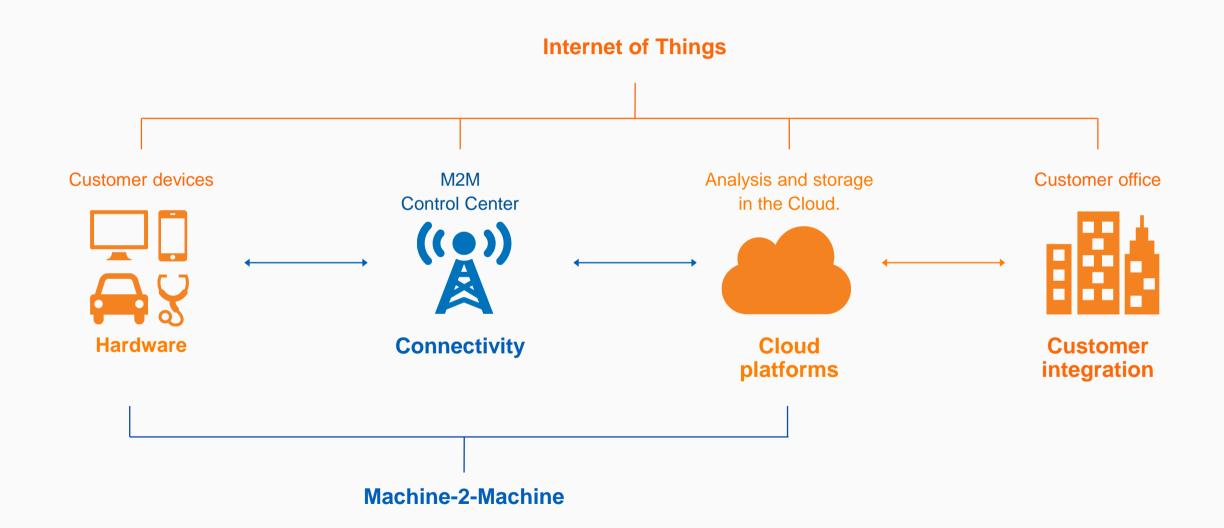
Producers	Data Transport	Storage	Analytics	Presentation & Action
	Event Hubs (Service Bus)	SQL Database	Machine Learning	Azure Websites
	Heterogeneous client agents	Table/Blob Storage	HD Insight	Mobile Services
	External Data Sources	{ } DocumentDB	Stream Analytics	Notification Hubs
		External Data Sources	Cloud Services	Power BI
				External Services

IoT enabled (incremental) revenue by Domain 2020

(Gartner)

Big Data, User Analytics Layer 5: Analytics \$262 Billion Layer 4: Apps & • Services Cloud, Data Centers, Servers, Storage Layer 3: \$18 Computing & Billion Storage Middleware Components, Protocols, Standards Device side API, enterprise side API, device management, app development framework, data compression, encryption, security Layer 2: 2G/3G/4G, Mesh, WiFi, ZigBee, WWAN, \$17 Communications & Billion Ethernet, WLAN, WPAN, Weightless... Networking Standards and Protocols MQTT, D2D, D2S, S2S, CoAP, SOAP, DTLS... Layer 1: Things: \$31 Billion Hardware, Power, Protocols

Evolving business models and partnerships



IoT Framework and Security Implications

Information and analysis

- Understanding behavior
- Enhanced situational awareness
- Sensor-driven decision analytics
- Process optimization
- Optimized resource consumption

Automation and control

Complex autonomous systems

Secure Development

Data Ownership

Incident Response

THANK YOU

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