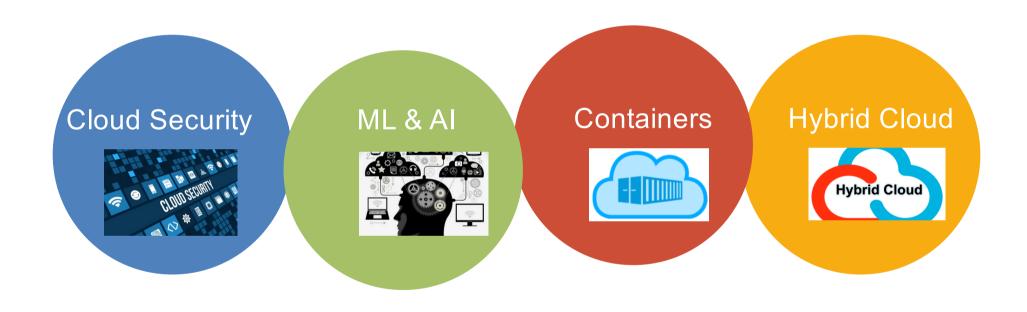


## Top Cloud Technology Trends





## Rapid growth in cloud adoption is driving the securing data, applications and workloads that now exist in cloud

#### Key findings for Cloud Security Services;

#### **Common Services**

- √ E-mail Security
- ✓ Identitiy and Access Management
- ✓ Web Security

#### Main Drivers<sup>1</sup>

- ✓ Cloud Native
- ✓ Reduced effort
- ✓ Cost Savings
- ✓ Reduced footprint

#### Most Preffered Tech1.

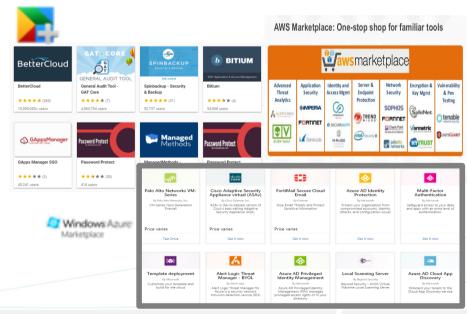
- ✓ Data Encyryption
- ✓ Network Encryption

1 Source: SDxCentral

✓ SIEM

**Security services** from dedicated hardware solutions to cloud-based **SaaS Model** 

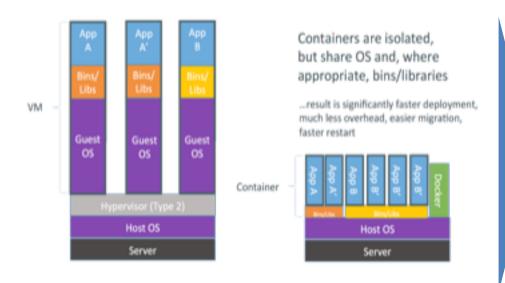
#### **Cloud Security Service Marketplaces**



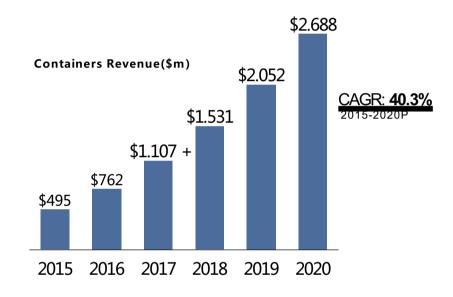




### The continued rise of containers



Containers provide **flexibility** and **low cost** compared to VMs.



Application containers will be a \$2.7bn market by 2020, representing a small but high-growth segment of the Cloud-Enabling Technologies market

Source: 451 Research

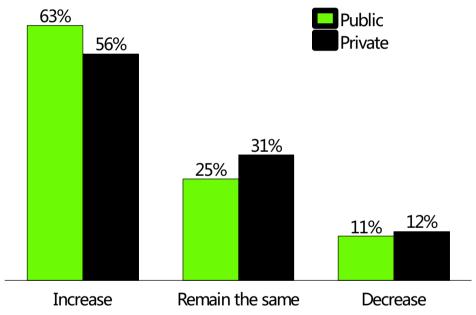






# Hybrid Cloud at the center stage of IT opportunities and growth

#### **Investment Plan in Cloud Deployment Options**



- ✓ Private Cloud still a priority for enterprises
- ✓ Both Public and Private cloud provides benefits to enterprises
- ✓ Hybrid adoption is now a reality for most enterprises

87% keep or increase for Private Cloud

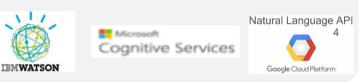
88% keep or increase for Public Cloud



### Artificial Intelligience(AI) is building a Smarter Cloud

Current landscape of cloud Al technologies, two major groups:

• Al Cloud Services Offering:



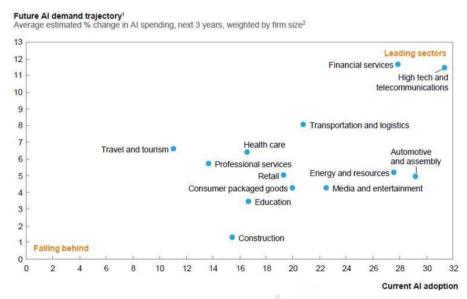
Cloud Machine Learning (ML) Platforms:







**Larger companies and industries** that adopted digital technologies in the past are more likely to adopt AI.

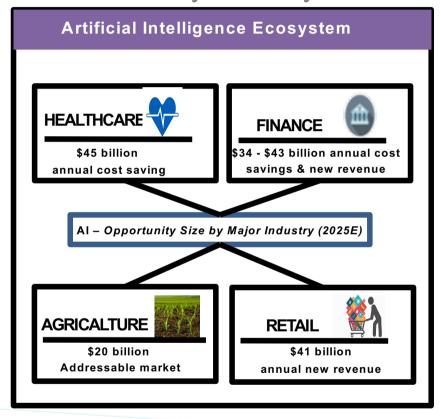


Banks, Financial services and healthcare are the leading noncore technology verticals that are adopting AI.

Source: Forbes, ComputerWorld, TechBeacon, McKinsey

Source: McKinsey

## Al and ML applications have implications for benefits and disruption across every industry





Source: Goldman Sachs, "Profiles in Innovation: Al" (November 14, 2016).

Source: Tractica, "Artificial Intelligence Market Forecasts" (September 2016).





## Health Value Chain is moving from a labor driven and technology enabled model to a digital driven and human enabled model

#### **Key Growth Drivers in the Healthcare Al Market**

Adoption of AI in research areas

Reduced workload and increased quality of care

Growing demand for precision medicine

Shortage of health workforce to meet patient demand

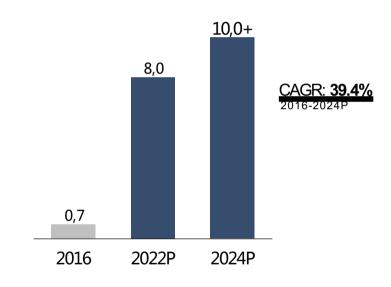
Need to reduce increasing healthcare costs

Growing number of cross-industry partnerships

- ✓ Global expenditures on healthcare: 9.0% of total GDP in 2000 to 9.9% in 2014
- ✓ The shift towards an aging population strains the current healthcare system

Global Market Insights, "Healthcare Al Market Size, Competitive Market Share & Forecast, 2024" (2017)

#### Global Healthcare Al Market Growth(Billion \$)





## Healthcare Analytics Use Cases

Healthcare Industry Participants →

	Hospitals	Clinics (GP & Specialists)	Allied Healthcare Providers	Health Insurance Companies	Pharma- ceutical Companies	Consumers / Patients	Government
← Use Cases →		5. Intelligent Assistant Service (for Doctors)	6. Chronic Disease Manage ment Decision Aids	7. Insurance Cost Control	<ul> <li>8. Population Consumption Data for Rx Drugs</li> <li>9. Clinical Trial Data Collection &amp; Analysis</li> </ul>	10. Patient Decision Aids for Triage, Self-Diagnosis, Treatment options. Intelligent Hospital / Clinic Guidance	<ul> <li>11. Government Healthcare Infrastructure Utilization &amp; Cost Optimization</li> <li>12. Healthcare Access for Population</li> <li>13. Chronic Diseases Analysis and Management</li> <li>14. Drug Consumption &amp; Price Controls</li> </ul>

## 5. Intelligent Assistant Service (for Doctors)

#### Solution

#### 01 Diagnosis Assistant

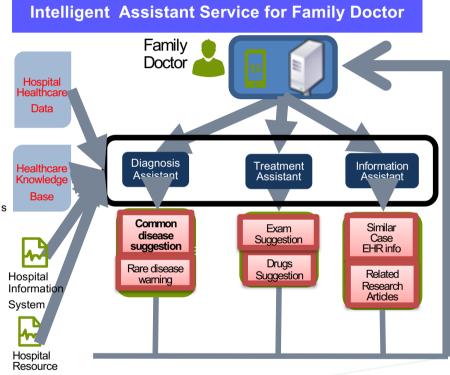
- According to Symptoms and Exam. results,
- Reasoning diagnosis results, warning rare disease based on Healthcare knowledgebase

#### 02 Treatment Assistant

- Reasoning exam. methods or possible drugs based on Healthcare Knowledge base and healthcare records
- Verifying medical orders

#### 03 Information Assistant

- Compliant with real-time requirements
- Based on healthcare records of one patient, providing similar EHR Cases and related research Articles



#### Benefits

#### 01 Diagnosis Accuracy

- TOP1 diagnostic compliance rate > 70%
- TOP3 diagnostic compliance rate > 80%

#### 02 Diagnosis Efficiency

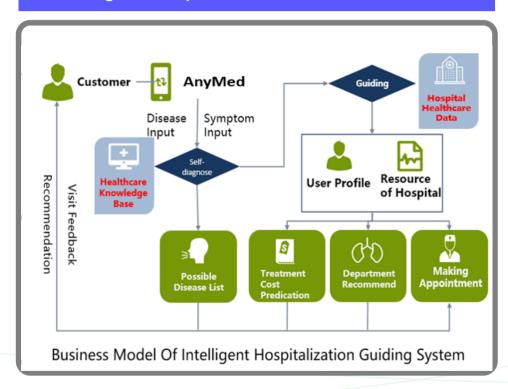
Improve diagnosis efficiency by 40%

#### 03 **Treatment Normalization**

Reduce misdiagnosis rate by 20%

## 10. Patient decision aids for triage, self diagnosis

#### Intelligent Hospitalization Guidance Platform



#### Self-diagnose

- According to the symptoms or disease inputted
- Based on the medical knowledgebase and specialized algorithms

#### Intelligent Hospitalization Guiding

Recommend suitable departments according to the real state of the hospitals

#### Registration and feedback collection

- Seamless connectivity with third-party HIS, making appointment and registration according to the result of diagnosis
- Feedback collection of visits

### Thank You.

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