



# THE REALITY WE ALL FACE

In an ever changing IT world, having a solid foundation is key

# **Digital Transformation is mandatory**

Turning your IT operations & strategy into a competitive advantage is key

# Cybersecurity is key

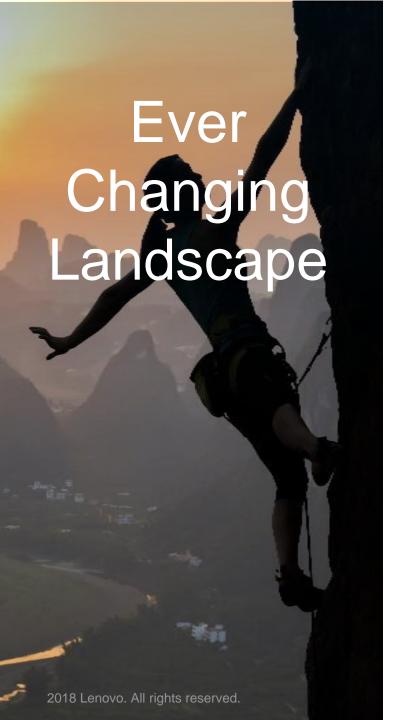
Security all depends on a foundation of security technologies.

# Monetizing data & analytics is a must

Data is your most valued asset and getting value and insights are key

# **Quality & Quantity drive business**

Speed to market and service sets a business apart.



27%

Of all companies will use **Blockchain** by 2020

30%

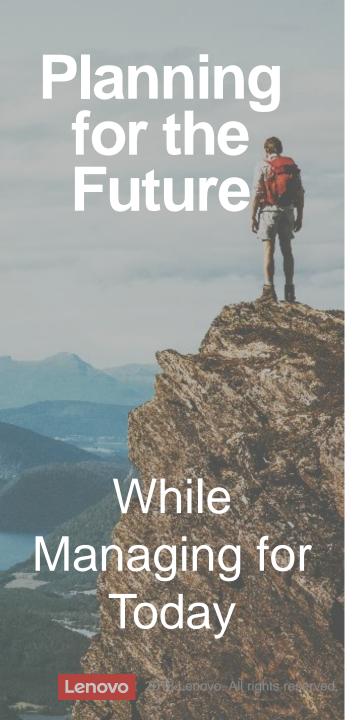
Growth in IoT "things" to 20 Billion in 2020

72%

Will roll out **Digital Transformation** strategies within the next two years

50%

Growth in adoption of Al and Cognitive technologies





52%

Need to create a more nimble technology platform.



## **FINANCING**

49%

Work with restricted budgets.

## **CHANGING BUSINESS MODELS**

39%

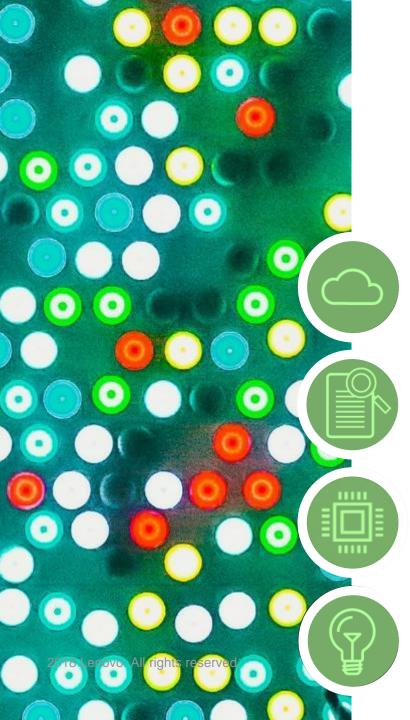
Want to work more with trusted partners.



# KEY REASONS TRANSFORMATIONS FAIL

- 1. Inability to experiment quickly (53%)
- 2. Legacy systems (52%)
- Poor collaboration between IT & business (49%)
- 4. Lack of a corporate vision for digital (39%)
- Insufficient budget (37%)





# FOCUSING ON INTELLIGENT TRANSFORMATION

Lenovo focuses on Intelligent transformation so you can focus on customer experience and growing your business.

#### **Cloud Transformation**

Private, hybrid, and public models offer on-demand delivery of resources and applications.

## **Business Analytics**

Data organizations inquire about and analyze actionable business intelligence.

### **Artificial Intelligence**

Computer systems perform tasks that normally require human intelligence.

#### **Solutions**

Accelerate deployment and reduce time-to-value with ready-to-run infrastructure.

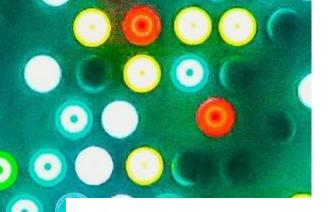


# DATA + ANALYTICS IN ACTION



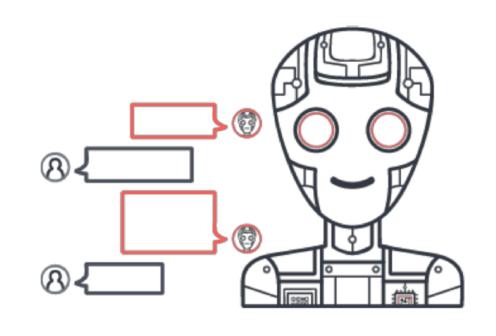
## The Data Analytics Value Chain

- Uses historical & real-time data to generate insights & predictions
- Leverages algorithms to make predictions about the future
- Best actions & likely outcomes are determined for various cases
- For example, data might indicate that a systemic quality issue exists



# SOME AREAS WHERE AI IS BEING APPLIED TODAY

- ✓ Advanced Data Analytics
- ✓ Customer Service
- ✓ Fraud Detection
- ✓ Speech Recognition
- ✓ Language Translation
- √ Facial Recognition
- ✓ Document Processing
- ✓ Cyber Defense
- ✓ Autonomous vehicles



# Al transforming enterprises

Reduce costs, make better decisions, gain competitive advantage and impact human lives

# Al Core Capabilities



Computer Vision

#### Use cases

MFG Quality control
Image diagnosis
Automated retail checkout



Natural Language Processing (NLP)

Training/document management

Call Center / Chat Bots



Predictive analytics

Knowledge

Machine maintenance,
Commercial IoT & Fraud detection

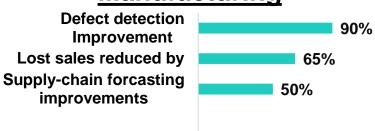
Knowledge management, document search

Compliance checks

#### **Healthcare**



#### **Manufacturing**



#### **Finance**

25-50%

Time savings with credit decisions

\$60 Billion

Global fraud savings



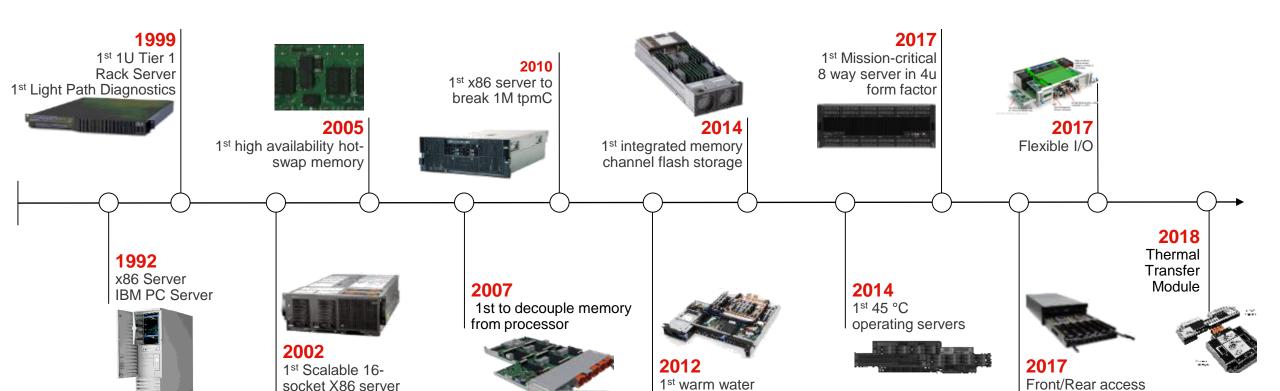
# Who is Lenovo The future is here today

# Data Center Group Vision

Be the most trusted data center partner empowering customers' Intelligent Transformation and solving humanity's greatest challenges.

# DCG's 26 years of innovation

A history dedicated to continuous increases on performance, agility, and reliability



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cooling technology

to all server components

SAP BWoH 4 SOCKET

**TPC-E** (*x2*) 2 SOCKET SPECvirt\_sc2013 (x2) 2 SOCKET

**SPEC**power

2 SOCKET

SPECibb2015 4 SOCKET

SPECmpiM2007

**STAC-M3** (x15) 2 SOCKET

SPECjbb2015 (x3)

8 SOCKET

SPECint base2006 8 SOCKET

# LENOVO HOLDS 121 WORLD RECORDS IN KEY WORKLOADS

242+ SINCE 2001

TPC-H 4 SOCKET

**STAC-M3** (x11) 4 SOCKET

2 SOCKET

SPC-1 Storage

**SPECjbb2015** (*x2*) 2 SOCKET

SPECvirt sc2013 (x2) 4 SOCKET

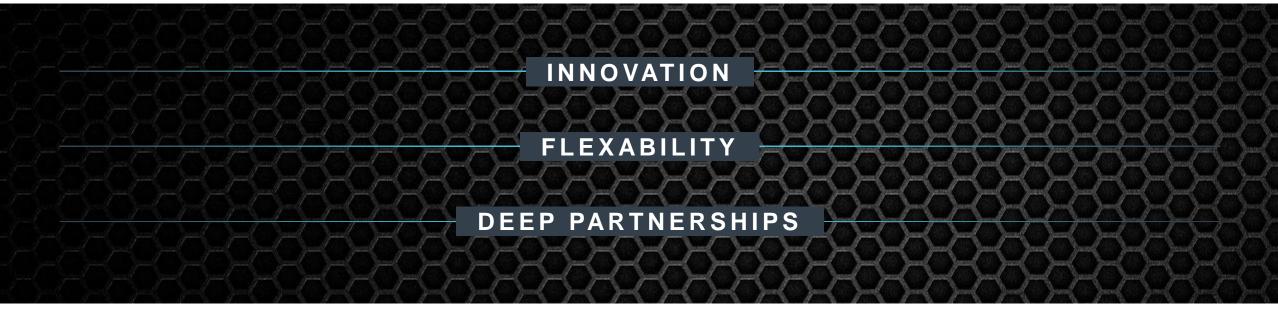
#1

World's largest TOP500
Supercomputing provider

Nearly One-Fourth of the World's 500 Most Powerful Supercomputers are Now Running Lenovo

Lenovo works together with leading institutions to help solve humanity's greatest challenges

# Lenovo DCG is Open













































# Highlighting Lenovo's Flexible Data Center Solutions

Modernize or **Transform IT** Customize Simplify IT into a Consolidate **Operations Service Center** Standardize Lenovo Lenovo Lenovo **Think**Agile **Think** Agile **ThinkSystem** Certified Nodes **Turnkey Cloud HCI** Appliances **Systems** Servers Integrated Systems **Switches** Storage Software-Defined **Simplified** Turnkey Specialized

**Products** 

Partners Services



Deployment

Professional Services

Reference Architecture

**Health Check** 















## Lenovo DCG Portfolio Spans The Entire Data Center

#### World class portfolio for end-to-end data center requirements

#### Server

in the industry

#### **ThinkSystem**

#### Storage



#### Networking

Best performance at lower cost





Transformative IT



#### Solutions

Best of breed **Engineered Solutions** 

ThinkSvstem



**HPC** The Racing Arm of Lenovo

ThinkSystem ThinkAgile

Highest reliability

Unbeatable Price Perf. & latest innovations



ThinkSvstem



#### **Certified Nodes**

Rack & Tower

**Entry SAN** 

Embedded





#### Mission Critical



Mid-range SAN





Top of Rack





Campus and Core

All-Flash & Hybrid SAN

**Integrated Appliances** 



#### Dense



Direct Attach & Archive



Cloud Network OS



Storage Switches

Blades



**Network Orchestration** 



ThinkAgile Network Orchestrator

**Integrated Systems** 



**VDI** 







CLOUDIAN.





**vm**ware



Cloud

**sed**hat

cloudera<sup>-</sup> IBM MAPR.

Big Data







Analytics







Database





Computing Orchestration









Artificial Intelligence at Scale



### HPC / AI

# Different Discovers Better

Next-generation IT can be used as a foundation of any HPC or AI infrastructure, Lenovo provides the flexibility to build and maintain your mission critical environment allowing you to focus on the business at hand.





#### Solving the world's problems

Developed robust and flexible systems involved in projects that help solve some of humanity's greatest challenges.



#### Leading provider of supercomputers

Lenovo is the #2 provider in the world for Supercomputers (and closing on #1 quickly)



#### Making Artificial Intelligence simple

Lenovo is making AI tech simpler for Enterprises with an end to end approach.

# Hyperscale

# Different Designs Better

Lenovo has dedicated end to end teams, industry leading engineering and technical capabilities, a highly rated supply chain that offers outstanding quality, flexibility & responsiveness and internal services & support ...

WE DESIGN IT, WE BUILD IT, WE DEPLOY IT ... all around the world





#### **Customer Focused**

Our **customer centric business** provides in-depth engagements, self-owned design, manufacturing and service support globally to understand needs and quickly deliver customized platforms



#### **Innovation by Design**

Lenovo provides **innovation on demand** by rapidly developing industry-leading technology that provides customers lower TCO and value add



#### **Optimized Fulfillment**

Lenovo Hyperscale offers a exceptional customer experience through an optimized launch process for frequent changes and dynamic fulfillment

# Solutions

# Different Partners Better

Increase business agility, extract insights from your data, and improve business outcomes with Lenovo solutions. Lenovo works closely with software partners to provide engineered, tested, and certified solutions in Cloud, Data, Analytics, Client Virtualization and more.





#### Faster Time-to-Value

Lenovo Solutions are designed and validated to simplify configuration and deployment of business solutions, resulting in lower TCO and faster ROI



#### Engineered, Tested and Certified

Lenovo Solutions are developed to scale based on your requirements using foundational ThinkSystem and ThinkAgile platforms and enterprise software applications



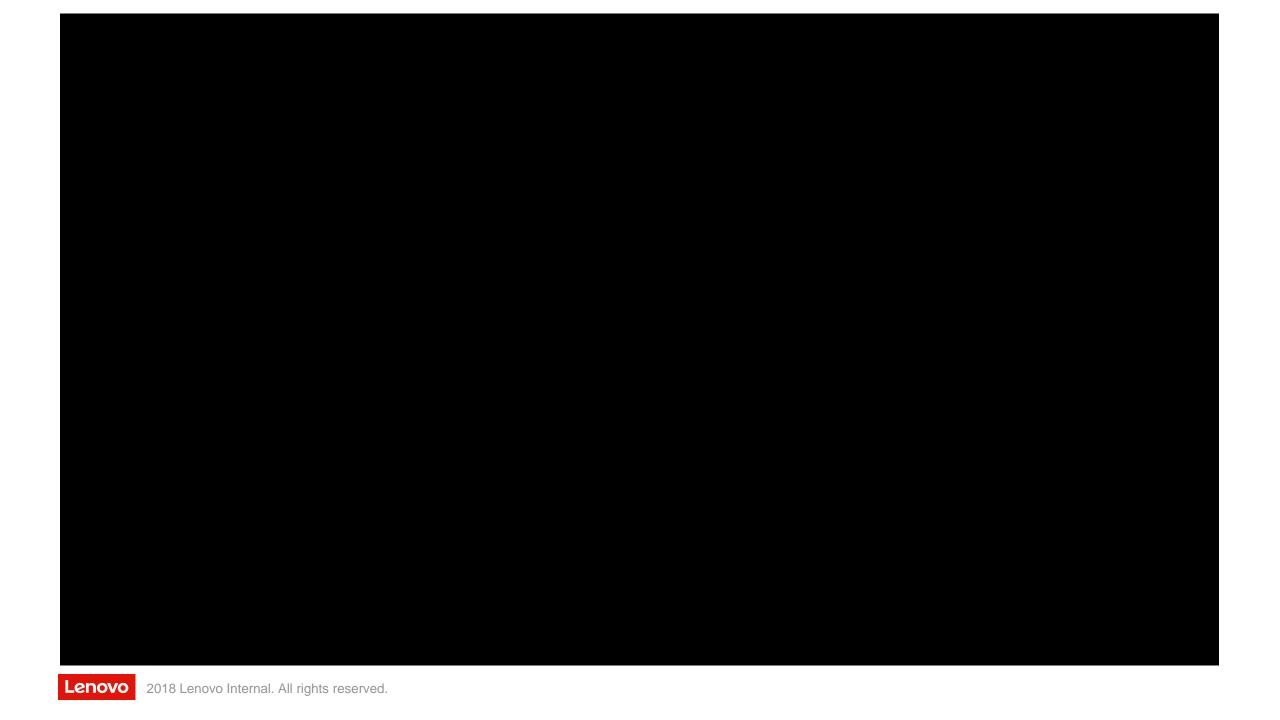
#### **Expertly Developed and Built**

Lenovo Solutions eliminate the guesswork and experimentation in determining the right combination of software and hardware to achieve your desired business outcomes



# INDUSTRIAL REVOLUTIONS

- 1. Mechanize production hands to machine
- 2. Modern enterprise using electric power & telegraph communication that made business faster and more complex
- 3. Digitize the enterprise using computers and the internet creating more global businesses with customers at the end of a cable, not a handshake
- 4. Ultimately, could we build a new world without disease, war and poverty? The power of big data and Artificial Intelligence may be the revolutionary technology to make that possible.



# Lenovo Provides Your Business with:

The #1 rated IT vendor for reliability and customer satisfaction

The ability to use future-defined IT & traditional infrastructure offerings to be more profitable

The resources to be faster to the marketplace than your competitors

A partnership that makes your IT part of your revenue growth and not just an expense

# thanas.

**Different is better**