



Azure

Your vision. Your cloud.



“Data creates opportunity. It's the oil of the 21st century.

Whoever has the right data will ultimately win.”

Peter Sondergaard, senior vice president of Global Research at Gartner
<https://www.nyse.com/network/article/Gartner-Whats-Next>

Devices everywhere!

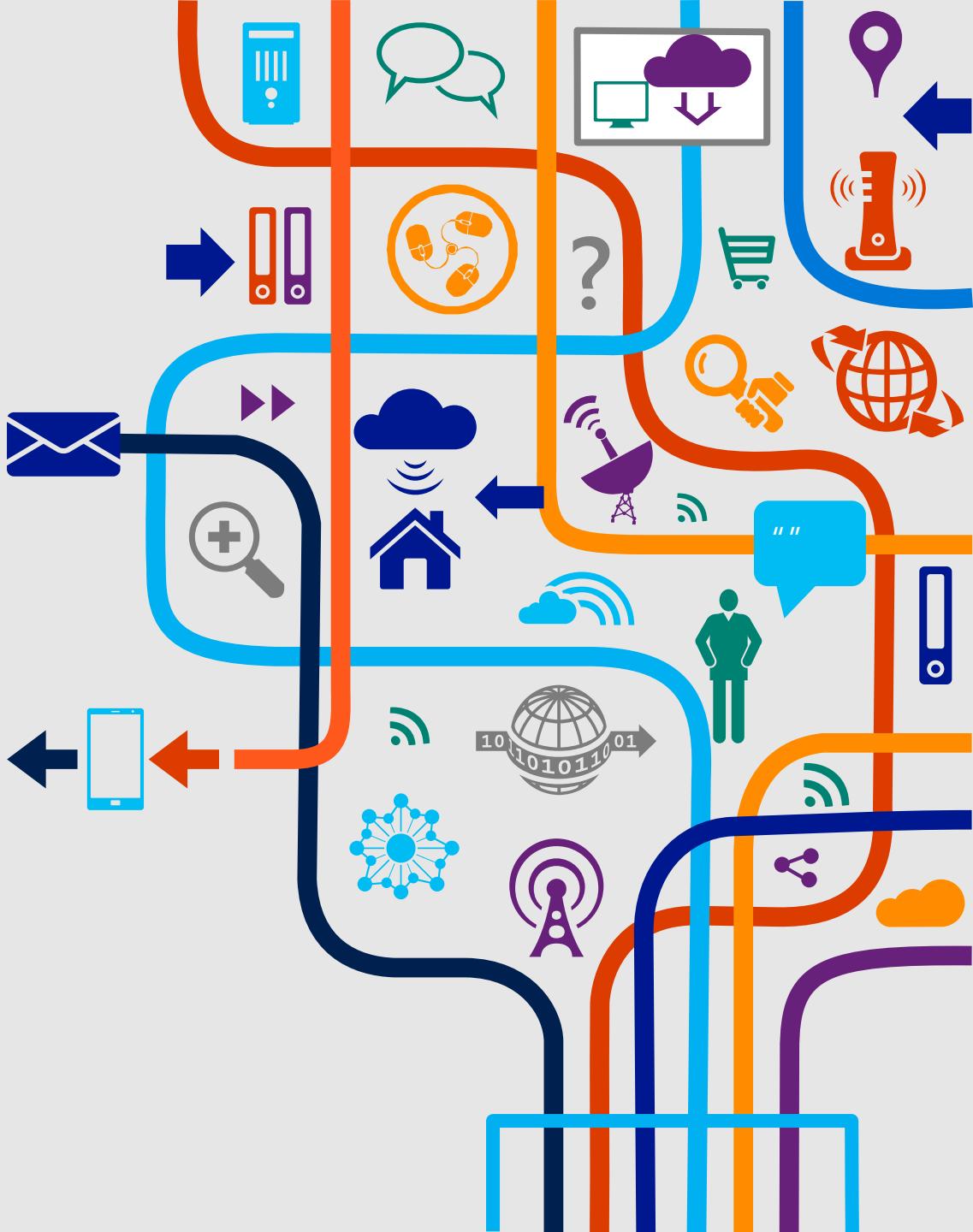
IoT: The network of physical objects that contain embedded technology to communicate and interact with their internal states or the external environment.

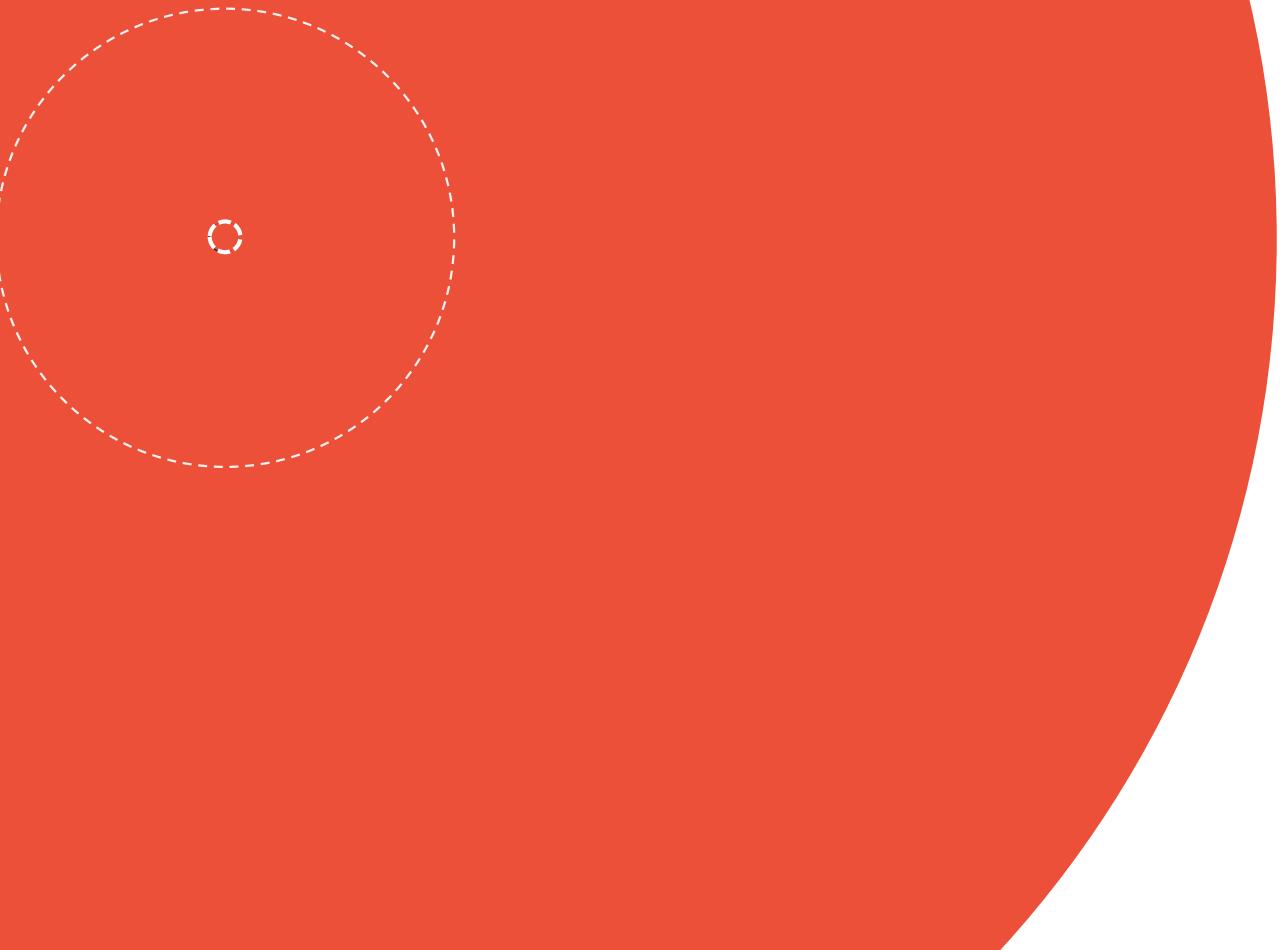
Source: Gartner

1 million
devices per
hour

212B

"things" globally by the end of
2020 – IDC



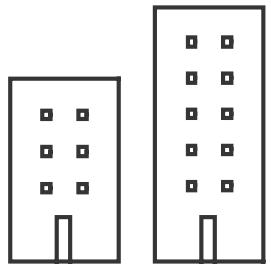


44
2020

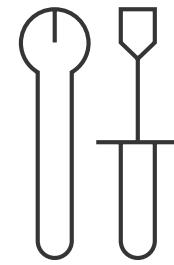
**ZETTABYTES
OF DATA**

KILOBYTE (KB)
MEGABYTE (MB)
GIGABYTE (GB)
TERABYTE (TB)
PETABYTE (PB)
EXABYTE (EB)
ZETTABYTE (ZB)

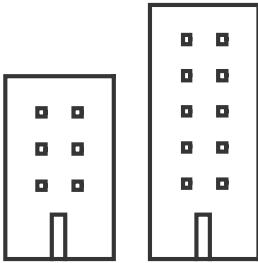
1 ZETTABYTE = 1 B TERABYTES



Business needs

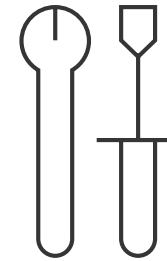


IT challenges



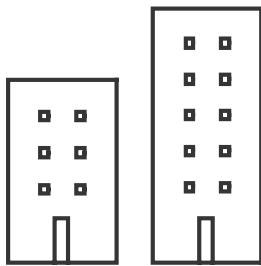
Business needs

 Rapid innovation



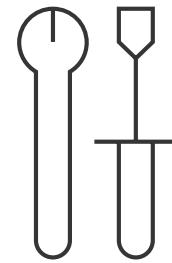
IT challenges

 **72%** budget assigned to
keep-the-lights-on functions



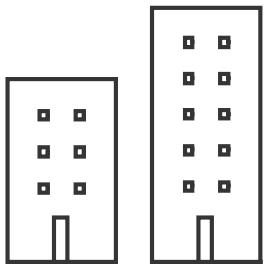
Business needs

-
- Rapid innovation
 - Connect with customer and empower employees



IT challenges

-
- 72%** budget assigned to keep-the-lights-on functions
 - Demand for mobile apps **>5x** the capacity of IT

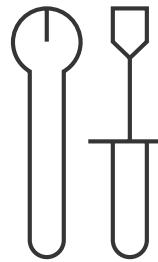


Business needs

Rapid innovation

Connect with customer
and empower employees

Close the gap from data
to decision



IT challenges

72%¹ budget assigned to
keep-the-lights-on functions

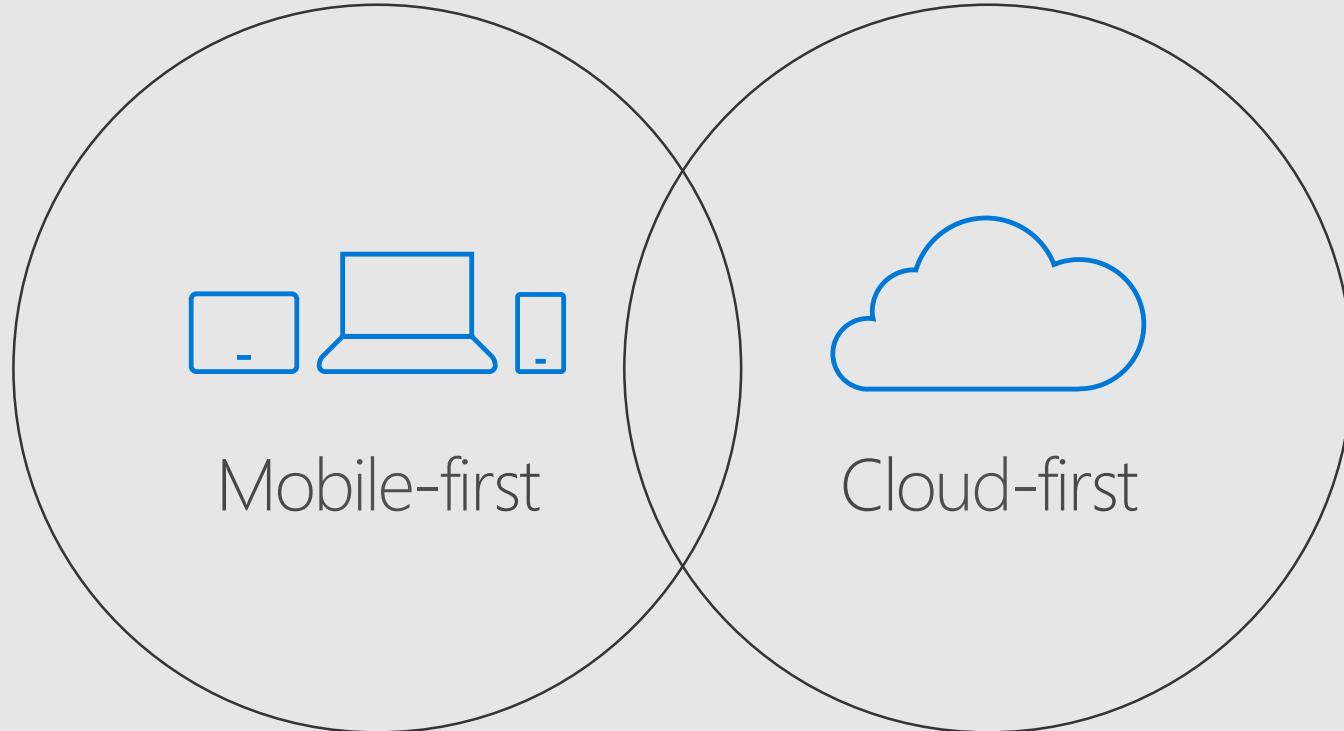
Demand for mobile
apps **>5x** the capacity of IT

Only half decision makers
could get help from
technologists with their
analysis needs ²

Breakthroughs Enabling Intelligence



Microsoft's worldview



Microsoft's worldview

Agents & Bots

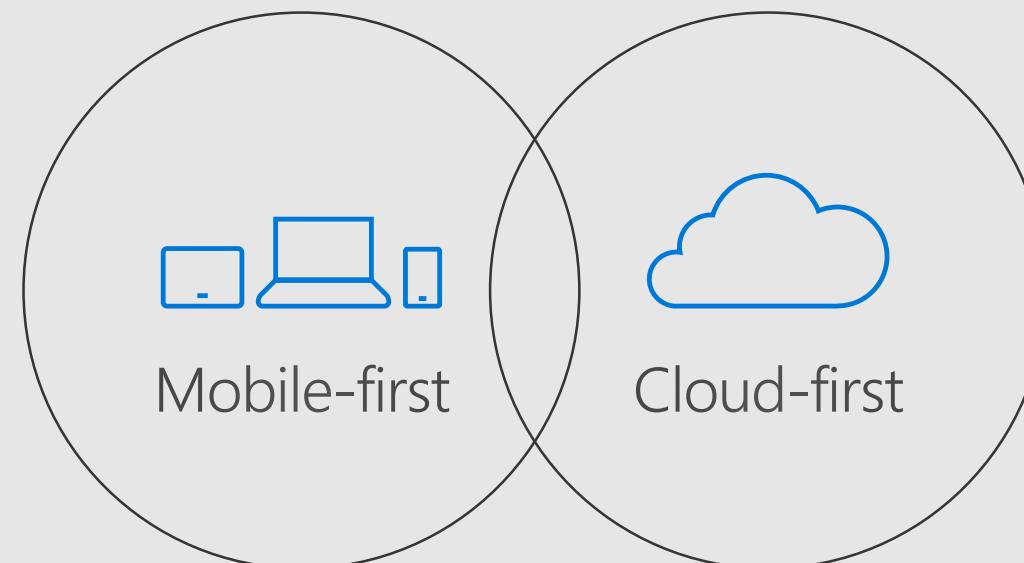
Natural &
conversational
user interfaces

Mixed Reality

Artificial
Intelligence

Advanced analytics
& workflows

Internet of
Things



Microsoft's worldview



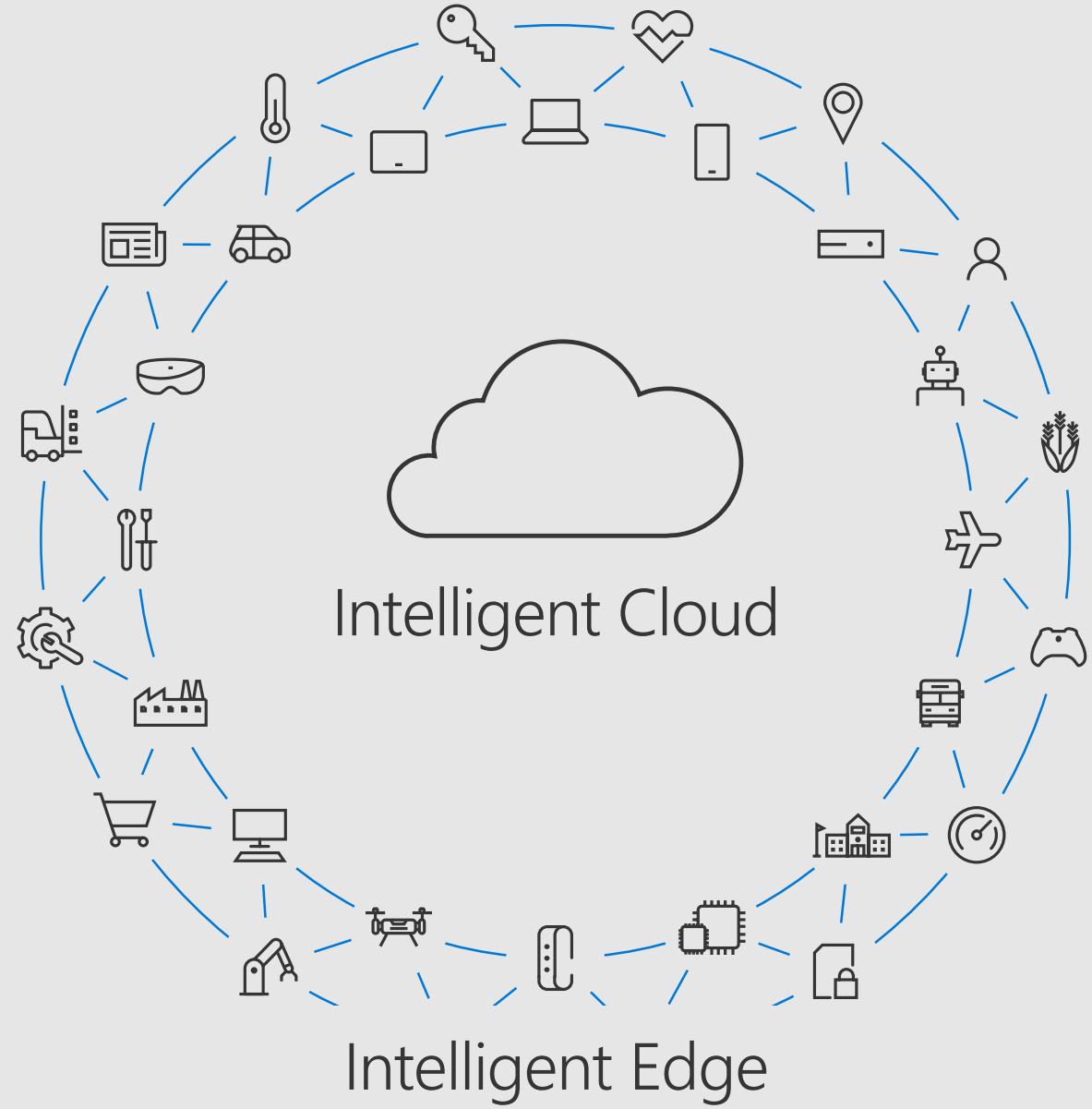
Multi-device, Multi-sense



Artificial Intelligence



Serverless



Azure. Cloud for all.



Productive



Hybrid



Intelligent



Trusted





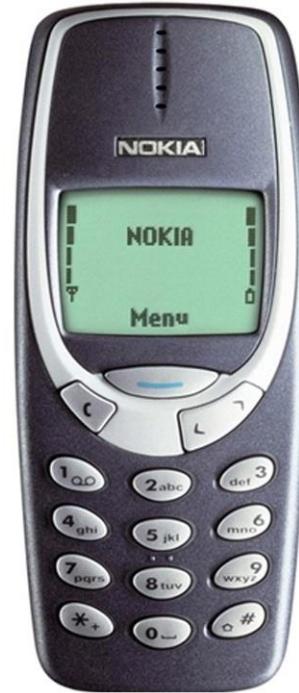
42 Azure
regions

Learn more:
Microsoft.com/datacenter





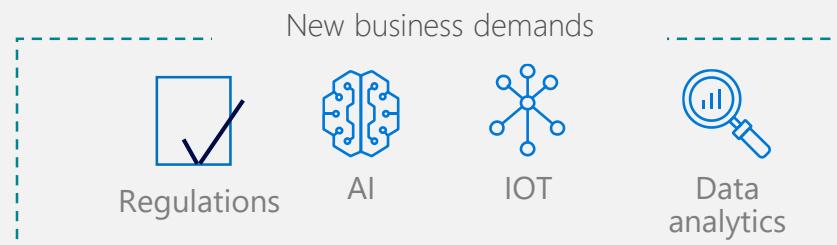
A completely
new generation
of infrastructure
and services



The capacity you need



Demand for infrastructure



Azure Marketplace

- start in minutes,
not hours or days

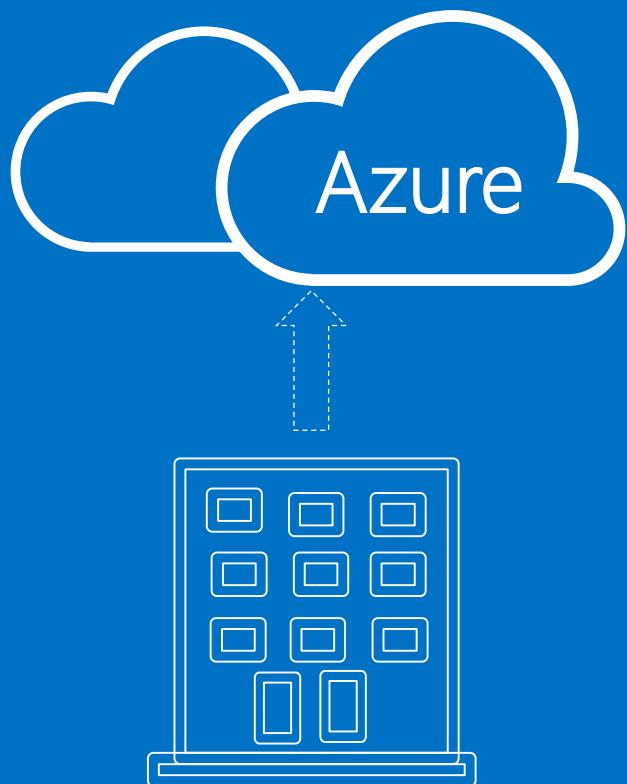
Featured apps

| | | | | | | | |
|--|--|---|---|---|--|---|---|
|  | DataStax Enterprise By DataStax, Inc. NoSQL multi-model scalable enterprise database platform that supports graph, search and analytics |  | CIS Windows Server 2016 Benchmark v1.0.0.10 - L1 By Center For Internet Security, Inc. Hardened according to a CIS Benchmark - the consensus-based best practice for secure configuration. |  | CloudGuard IaaS - Firewall & Threat Prevention By Check Point Check Point CloudGuard IaaS - Next Generation Firewall & Advanced Threat Prevention |  | Informatica Intelligent Cloud Services - PAYG By Informatica Informatica Intelligent Cloud Services automates data migration and integration with Azure. |
| Price varies | Test Drive | Price varies | Get it now | Price varies | Test Drive | Price varies | Get it now |

Trending

| | | | | | | | |
|--|--|---|---|---|---|---|---|
|  | OrientDB Enterprise Edition 2.2.17 By OrientDB Ltd OrientDB Enterprise is a 2nd Generation NoSQL, Multi-Model, Multi-Master Distributed Database. |  | H2O VM By H2O.ai 100% open source, fully distributed in-memory machine learning platform with linear scalability |  | GitLab Enterprise Edition By GitLab Enterprise open-core collaboration and source control management: code, test, and deploy together! |  | IBM WebSphere MQ 9.0 By MidVision Ltd Hourly licensing of IBM's WebSphere MQ 9.0 on the Azure Marketplace. |
| Price varies | Get it now | Price varies | Get it now | Price varies | Get it now | Price varies | Get it now |

Move any workload
or application to
Azure



Any workloads

- Applications
- SAP, .NET, Java, Node.js
- Virtual machines
- Windows Server, Linux
- Databases
- SQL Server, Oracle, MySQL, DB2

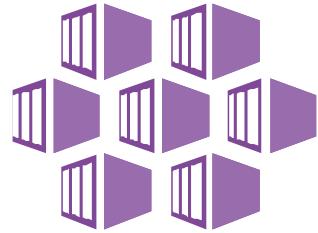
Easy to migrate

- Integrated migration tools for both data and apps
- [Data Migration Assistant](#)
- Vast network of partners

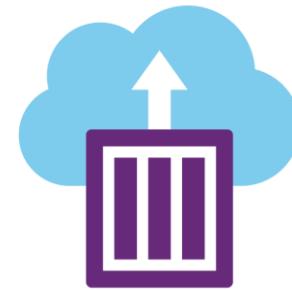
Open source support

| | | | | | | | | | |
|--------------------------|---|---|---|--|--|--|--|---|--|
| DevOps |  Nagios® |  VAGRANT |  ANSIBLE |  GRUNT |  Hadoop |  Android |  Xamarin |  Jenkins |  |
| Management |  CHEF™ |  puppet labs |  ANSIBLE |  SALTSTACK |  Redis |  mist.io |  libcloud |  SCALR CLOUD MANAGEMENT |  |
| Applications |  WordPress |  Joomla! |  Drupal™ |  GitHub |  APPRENDA |  Hadoop |  Jenkins |  Docker | |
| App frameworks and tools |  PHP |  nodeJS |  Python |  JS |  Ruby |  IntelliJ IDEA |  Eclipse | | |
| Databases and middleware |  Hadoop |  redis |  CLEARDB |  cloudera |  MySQL™ |  MongoDB |  Couchbase | | |
| Infrastructure |  Ubuntu |  Ubuntu |  Red Hat |  SUSE |  Debian |  bitnami |  Oracle Linux |  FreeBSD |  Docker |

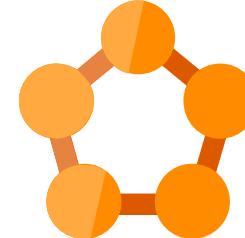
Azure Container Technologies



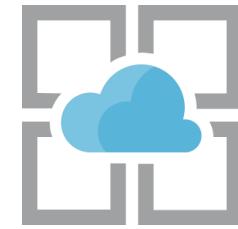
Azure Container
Services (AKS)



Azure Container
Instances



Azure Service
Fabric



Azure App Service



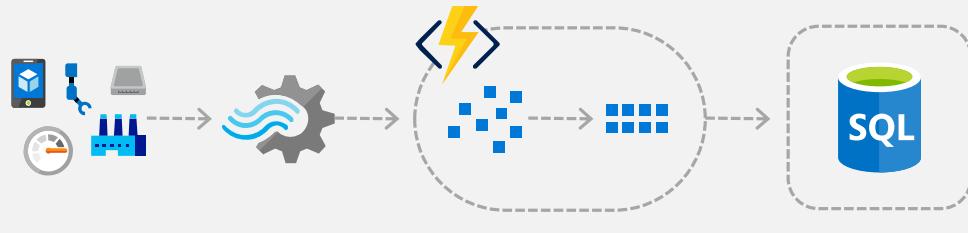
Infrastructure Control

Developer productivity

Scenarios for Serverless

Anything that needs to respond to events

Real-time stream processing



Millions of devices feed into Stream Analytics

Transform to structured data

Store data in SQL DB

Timer-based processing



Every 15 minutes

Find and clean invalid data

Clean table

Backends (Mobile/IoT/Web)

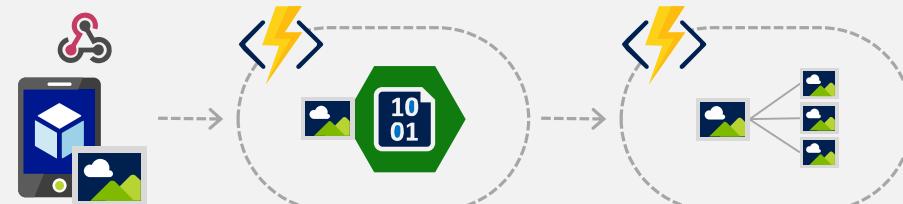
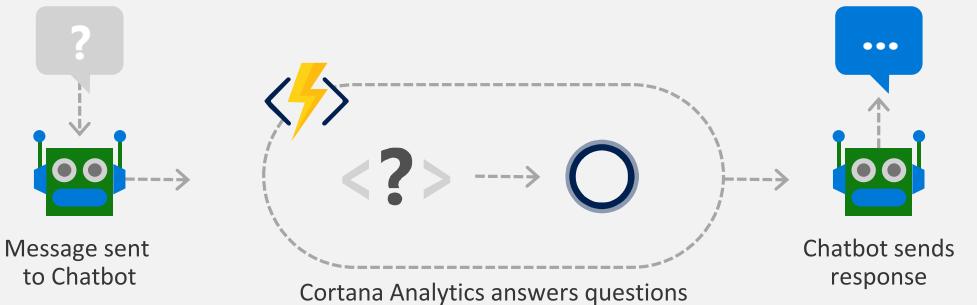


Photo taken and WebHook called

Stores in blob storage

Produces scaled images

Real-time bot messaging

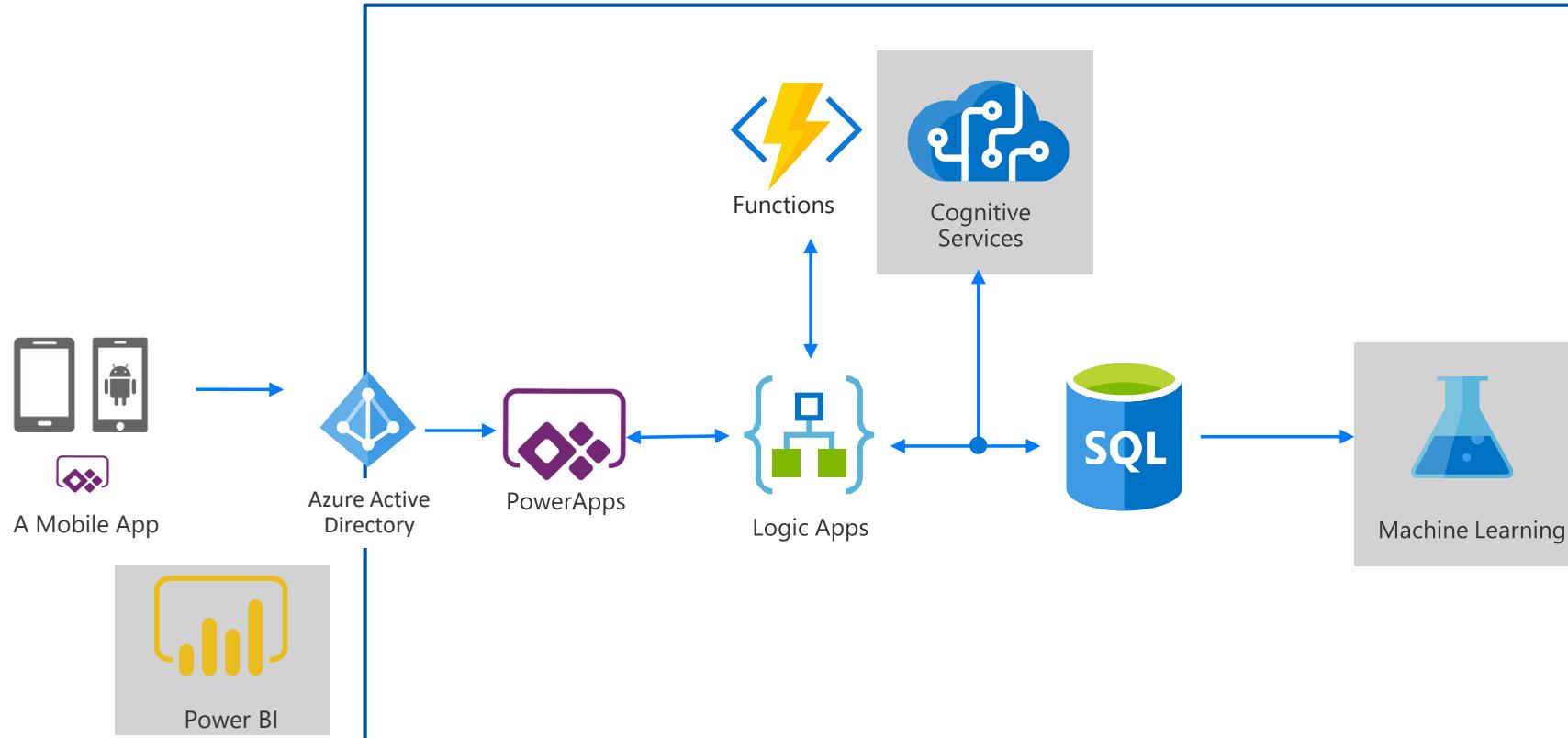


Message sent to Chatbot

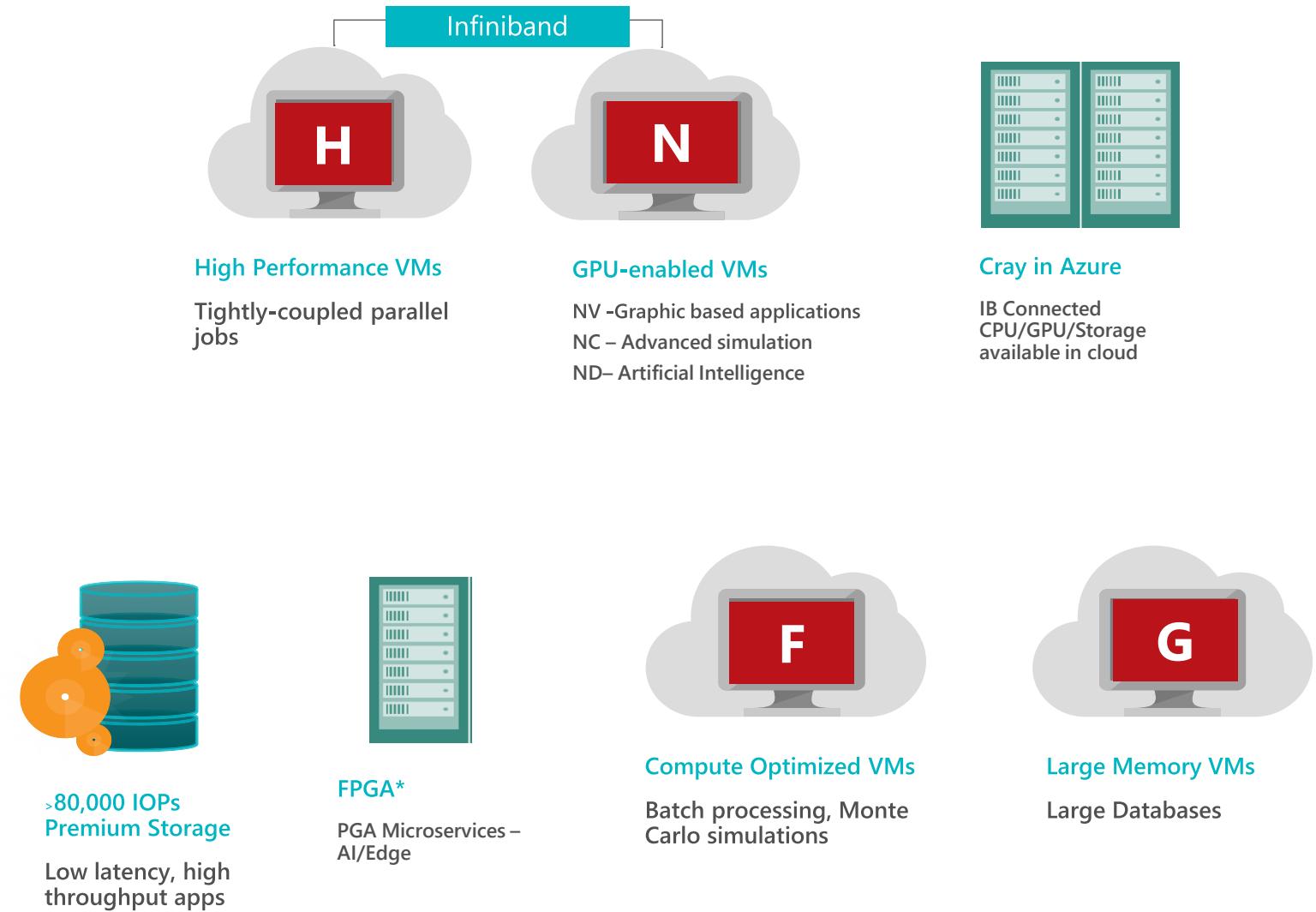
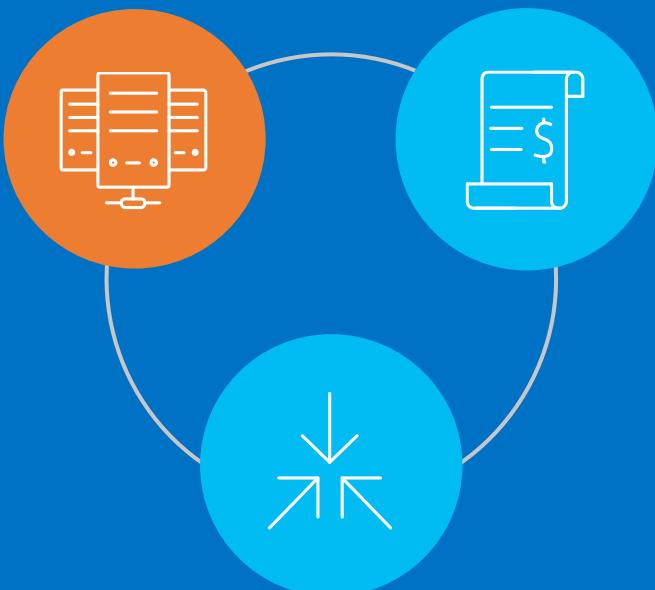
Cortana Analytics answers questions

Chatbot sends response

Smarter apps with Artificial Intelligence



Specialized infrastructure for Big Compute



Azure Security Center

Protection through best practices

Detect threats and attacks

Remediate issues

The screenshot shows the Microsoft Azure Security Center - Overview page. The left sidebar contains a navigation menu with sections: GENERAL (Overview, Security policy, Quickstart, Welcome, Events, Onboarding to advanced sec..., Search), PREVENTION (Recommendations, Security solutions, Compute, Networking, Storage & data, Applications, Identity & Access), and DETECTION (Security alerts, Advanced cloud defense). The main content area is divided into several cards:

- Overview:** Shows 17 Total recommendations, 1 Healthy security solution, 5 New alerts & incidents, and 0 Event logs.
- Prevention:** Shows 88 Total Compute alerts, 43 Total Networking alerts, and 82 Total Storage & data alerts.
- Detection:** A chart titled "Security alerts" shows counts for High Severity (4), Medium Severity (9), and Low Severity (4) across dates from 3 Sun to 24 Sun.
- Most attacked resources:** Lists ContosoWebFE1, contosoweb1, and contosojumpbox.
- Advanced cloud defense:** Shows a slider for "Just in time VM access - last week (Preview)" with 4 VMs PROTECTED out of 14 total.
- Adaptive application controls (Preview):** Shows 3 of 19 VMs configured.

More Certifications than any other cloud provider

GLOBAL



ISO 27001



ISO 27018



ISO 27017



ISO 22301



SOC 1 Type 2



SOC 2 Type 2



SOC 3

cloud
CSA security
allianceTM

CSA STAR
Self-Assessment

cloud
CSA security
allianceTM

CSA STAR
Certification



cloud
CSA security
allianceTM

CSA STAR
Attestation

INDUSTRY



PCI DSS
Level 1



CDSA



MPAA



FACT UK



Shared
Assessments



FISC Japan



HIPAA /
HITECH Act



HITRUST



GxP
21 CFR Part 11



MARS-E



IG Toolkit UK



FERPA



GLBA



FFIEC

REGIONAL



Argentina
PDPA



EU
Model Clauses



UK
G-Cloud



China
DJCP



China
GB 18030



China
TRUCS



Singapore
MTCS



Australia
IRAP/CCSL



New Zealand
GCO



Japan My
Number Act



ENISA
IAF



Japan CS
Mark Gold



Spain
ENS



Spain
DPA



India
MeitY



Canada
Privacy Laws



Privacy
Shield



Germany IT
Grundschatz
workbook

Commitment to sustainability

2012

Carbon
neutral

2018

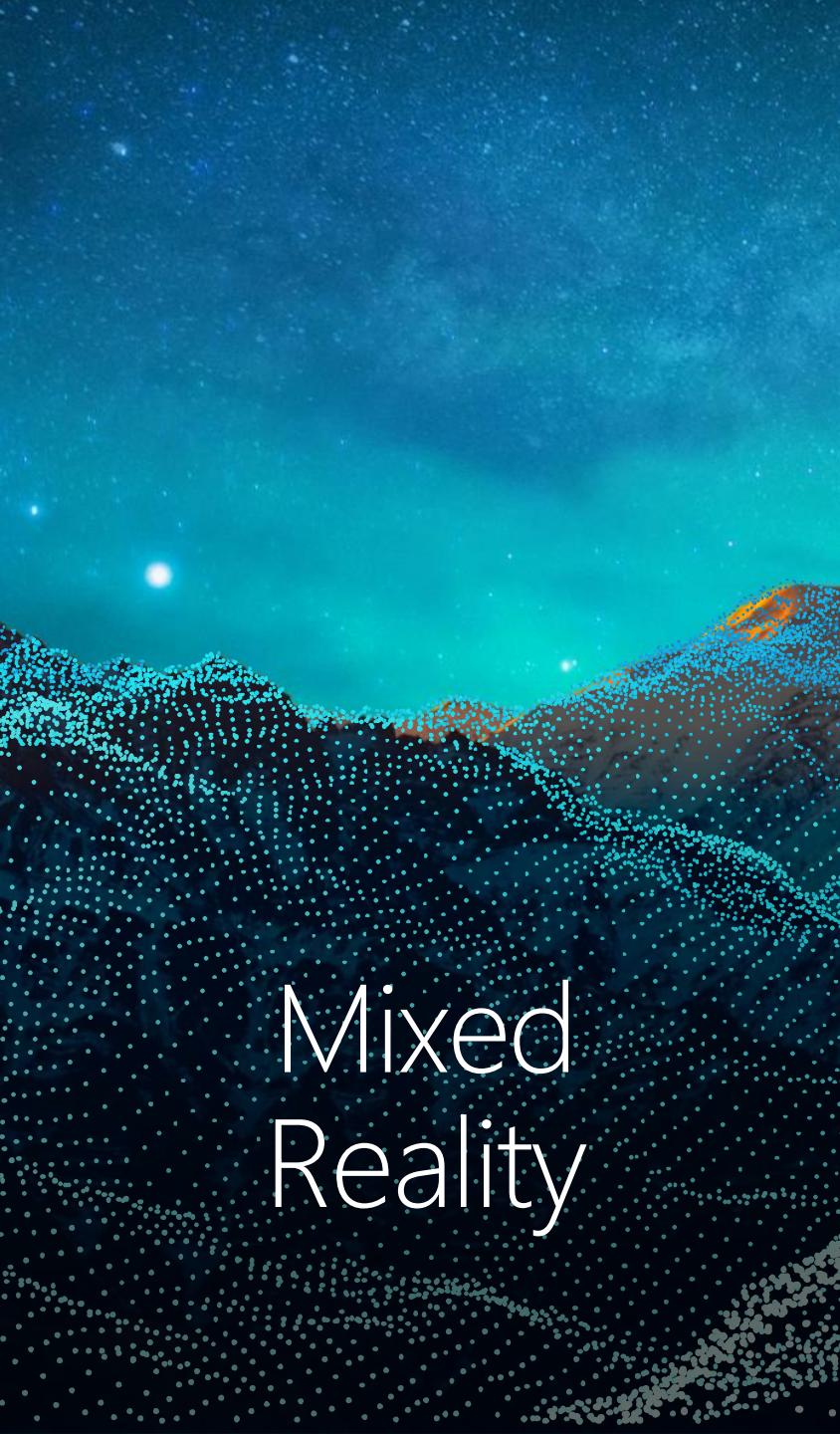
50% energy use from
wind, solar &
hydropower

2020

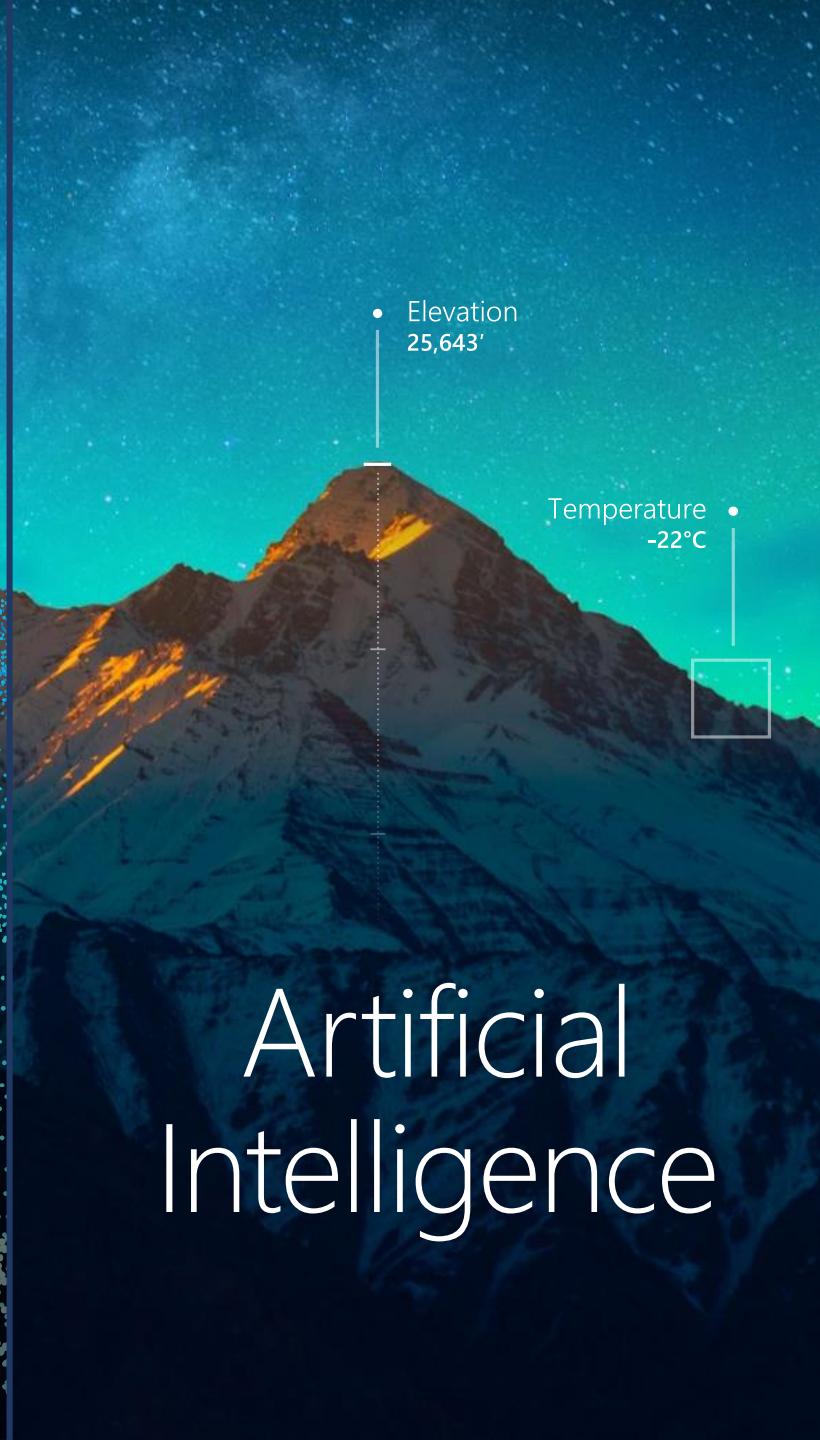
60% energy
use from wind,
solar &
hydropower

Long-term
goal

100% energy
use from wind,
solar &
hydropower



Mixed
Reality



Artificial
Intelligence



Quantum
Computing



Empower every person and every organization
on the planet to achieve more

