



Azure AI

Enterprise-ready AI services for your production workloads

The future of AI is now

► AI ADOPTION CONTINUES TO ACCELERATE

95%

Of enterprises consider AI technology to be important for their digital transformation efforts

► AI IS NOT THE FUTURE, IT IS NOW

80%

Of enterprises report that they are using some form of AI in production

► DELIVERING BUSINESS RESULTS

81%

Of enterprises report positive ROI in less than two years

Source:

1. [*AI use, adoption gains momentum with enterprise amid pandemic – 451 survey*](#)
2. [*State of AI for Enterprises*](#)
3. [*Thriving in the era of pervasive AI*](#)

Customer Adoption Patterns

Solve common business scenarios

Knowledge Mining

60%

Icertis reduced compliance costs to track its supply chain and inventory management system

Conversational AI

90%

Reduction in support cost as seen by **Nedbank** with AI chat fielding 80% of inquiries

Business Process Automation

90%

Data confidence **NHS BSA** sees with digitization of document processing of paper forms/prescriptions a month

Machine Translation

1B

Words translated in 40 languages using Machine Translation helping **Volkswagen** serve customers worldwide

Speech Transcription & Analytics

98%

Increase in cost savings for **Allstate** using automated speech transcription of claim calls

Build, deploy and manage custom ML models

~2min

Time it takes for **Nestle** to process threat detections using MLOps and handle them faster

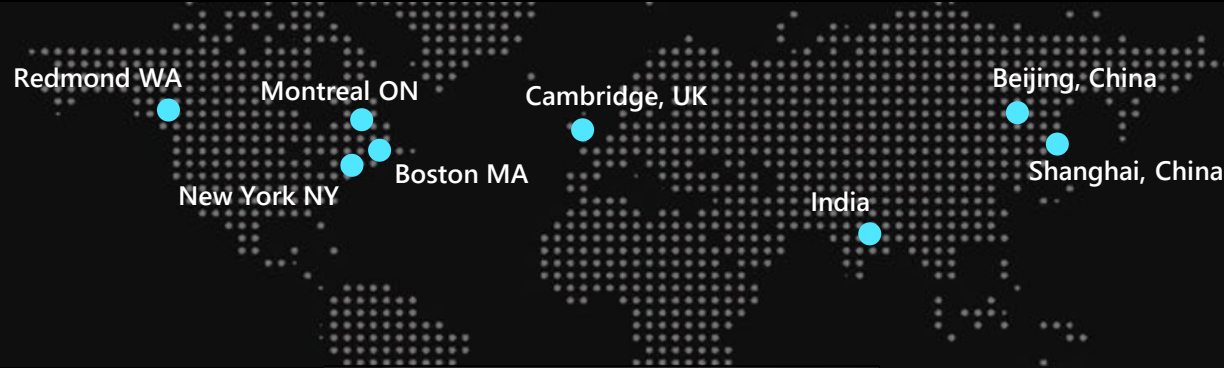
96%

Rate of accuracy **SAS** can predict fraud using Automated ML, improving sales forecasting

1.3M

Number of calls **AGI** inferences using MLOps, increasing speed-to-value

AI innovation fueled by research



8

Global
research
centers

1k+

Researchers
employed
worldwide

20k

AI-related
patents

1k+

AI research
papers
published

1st

Human parity
milestone on
vision, speech, and
language

Azure AI Momentum

28B

Inferences per month using **Azure Machine Learning**



24B

Queries per month using **Azure Cognitive Search**

53B

Transactions per month using **Azure Cognitive Services**



4B

Messages per month through **Azure Bot Service**

Microsoft Portfolio for AI

Business
Users &
Citizen
Developers

Applications

 Microsoft 365

 Microsoft
Dynamics 365

Partner Solutions

Power Platform


Power BI


Power Apps


Power Automate


Power Virtual Agents

Azure AI

Scenario-Based Services

Applied AI Services

Bot Service

Cognitive Search

Form Recognizer

Video Analyzer

Metrics Advisor


Immersive Reader

Customizable AI Models

Cognitive Services


Vision


Speech


Language


Decision

ML Platform



Azure Machine Learning

Developers &
Data Scientists

Azure AI (1 of 3)

Azure Applied AI Services



Azure Cognitive
Search



Azure Form
Recognizer



Azure Bot
Service



Azure Video
Analyzer



Azure Metrics
Advisor



Azure Immersive
Reader

Azure Cognitive Services



Language



Vision



Speech



Decision

ML Platform



Azure Machine Learning



Azure Machine Learning

Accelerate the end-to-end machine learning lifecycle

Seamless studio experience

Notebooks

Automated ML

Designer

Responsible ML tools

Comprehensive MLOps

Reproducibility

Automation

Deployment

Re-training

Security & Governance

Unified management across clouds and on-premises



Azure

Azure ML Managed
Compute

Customer Managed
Kubernetes



Edge & Hybrid

Azure Arc-enabled
Kubernetes

Edge/IoT Devices

Machine Learning Scenarios



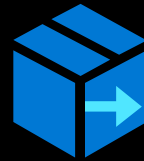
Predictive
maintenance



Anomaly
detection



Intelligent
recommendations



Inventory
management



Demand
forecasting



Sales
forecasting

Azure AI (2 of 3)

Azure Applied AI Services



Azure Cognitive
Search



Azure Form
Recognizer



Azure Bot
Service



Azure Video
Analyzer



Azure Metrics
Advisor

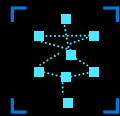


Azure Immersive
Reader

Azure Cognitive Services



Language



Vision



Speech



Decision

ML Platform



Azure Machine Learning

Accelerate AI models with Cognitive Services



Customizable pretrained models

Built with breakthrough AI research



Deploy anywhere

Cross-cloud and edge support with containers



No ML expertise required

Get started quickly regardless of experience level



Responsible AI in action

Develop responsibly and empower responsible use



Azure Cognitive Services

Language

Language understanding
Custom Question Answering
Text Analytics
Translator

Vision

Computer vision
Custom vision
Face API

Speech

Speech to text
Text to speech
Speech translation
Speaker recognition

Decision

Anomaly detection
Content Moderator
Personalizer

Azure AI (3 of 3)

Azure Applied AI Services



Azure Cognitive
Search



Azure Form
Recognizer



Azure Bot
Service



Azure Video
Analyzer



Azure Metrics
Advisor



Azure Immersive
Reader

Azure Cognitive Services



Language



Vision



Speech



Decision

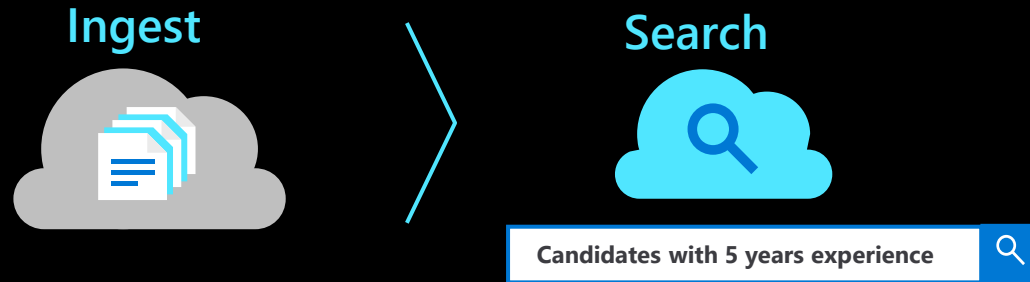
ML Platform



Azure Machine Learning

Cognitive Search - AI can help make search intelligent

Traditional
Search
Methods



1. **Use AI for Knowledge Mining**
Apply NLP, OCR, language detection, etc. to "mine" documents and make them structured

2. **Apply AI to understand user intent**
Use semantic search to improve the quality of search results

AI-powered
search





*Ensure that artificial
general intelligence (AGI)
benefits humanity.*



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

GPT-4 &
GPT-3.5-Turbo

Text

GPT-4o &
GPT-4 with Vision

Multi-model

DALL·E 3

Image

Whisper

Transcription & Translation

Azure OpenAI | Top 4 Capabilities & Use Cases



Content Generation

Call Center Analytics:
Automatically generate
responses to customer inquiries

Generate personalised UI for
your website



Summarization

Call Center Analytics: Summary
of customer support
conversation logs

Subject Matter Expert Document
Summarization (e.g. financial
reporting, analyst articles)

Social Media Trends
Summarization



Code generation

Convert Natural Language to
SQL (or vice versa) for telemetry
data

Convert Natural Language to
Query Proprietary Data Models

Code Documentation



Semantic Search

Search reviews for a specific
product / service

Information Discovery and
Knowledge Mining

OpenAI Capabilities to Microsoft services

Built in (Copilot)



Microsoft 365



Viva Sales Insights



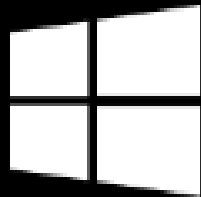
Github



Bing



Dynamics 365



Windows

B.Y.O. (build your own apps)



Azure Machine Learning



Cognitive Services



Azure AI Infrastructure



Azure OpenAI Service



Copilot (Bing Chat)



interaction with
web content

Copilots
for Web

Copilot for M365



Word, Outlook, Excel,
PowerPoint, Teams

Copilot
for Productivity

Copilot in Windows



interaction with OS,
apps, and files

Copilot
for Everyday

Designer



digital creations

Copilot
for Creativity

Azure



Azure platform operations
and optimizations

Copilot
for Cloud

Fabric Copilot



data analytics and
business intelligence

Copilots
for Analytics

Power BI



Unlock your insights

Copilot
for Dashboard

Security Copilot



threat detection,
identification, and mitigation

Copilot
for Security

Dynamics Copilot



sales and customer
support

Copilots
for Business

GitHub Copilot



code development

Copilot
for Development

Power Platform



creation of apps,
and workflows

Copilot
for Low/No Code
Development

Copilot Studio



creation of your agents

Extend your
Copilot for Microsoft 365

Custom Copilot

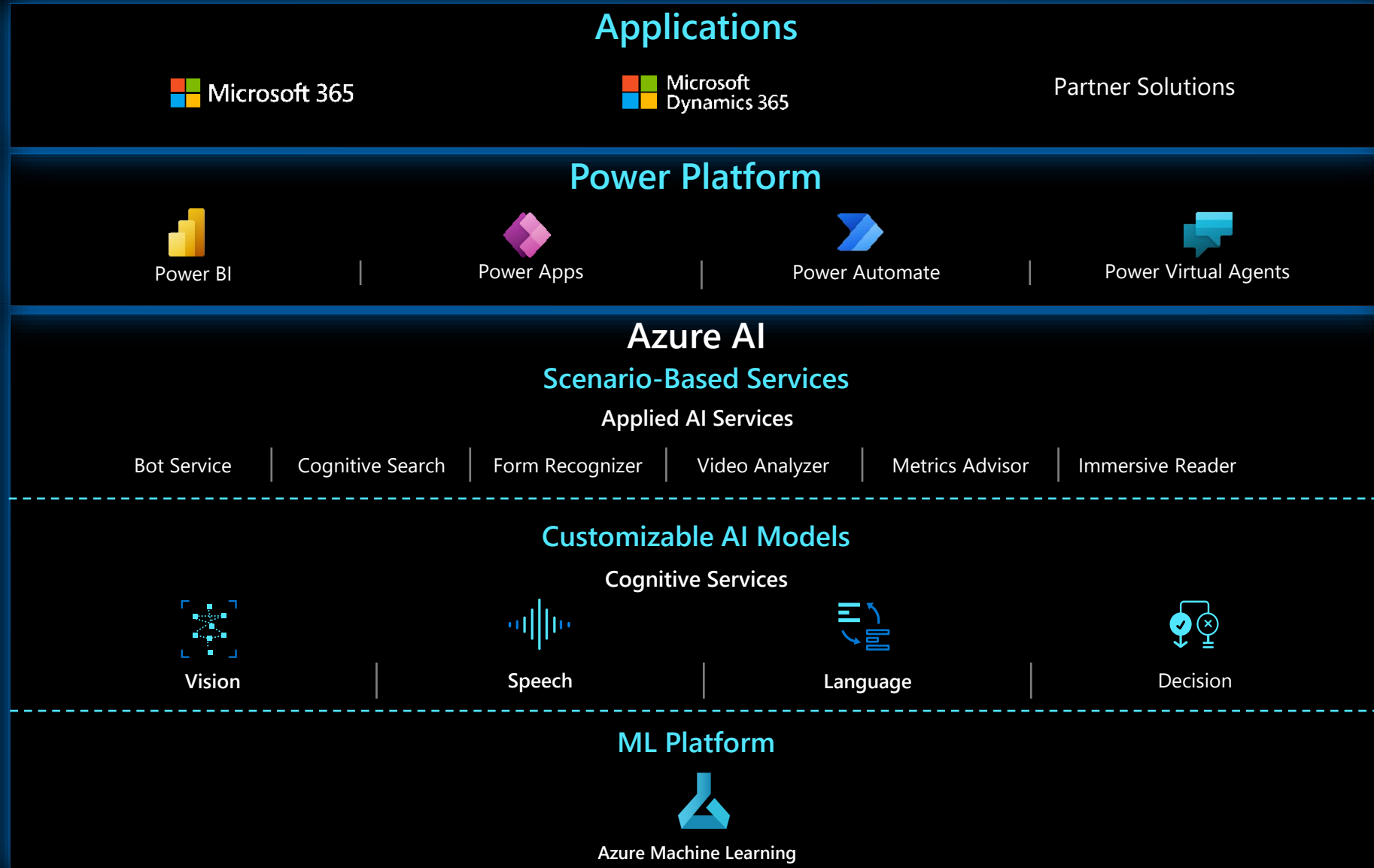


Create your
own copilot

AI Platform

Microsoft Portfolio for AI

Developers &
Data Scientists



USMC Integrated Mission and Data Fabric

Manuever

Terrain Analysis
Target Identification
Situational Awareness

Intelligence

Advanced Analytics
Threat Analysis
IPB Monitoring

Command & Control

Combat Power Analysis
Integrated Planning
COP Integration

Fires & Effects

Coordinated Targeting
Effects Analysis
Weather Integration

Force Protection

Noncombatant Tracking
Threat Detection
Forensic Analysis

Information

Civil Military Operations
Cyber Planning
Joint Integration

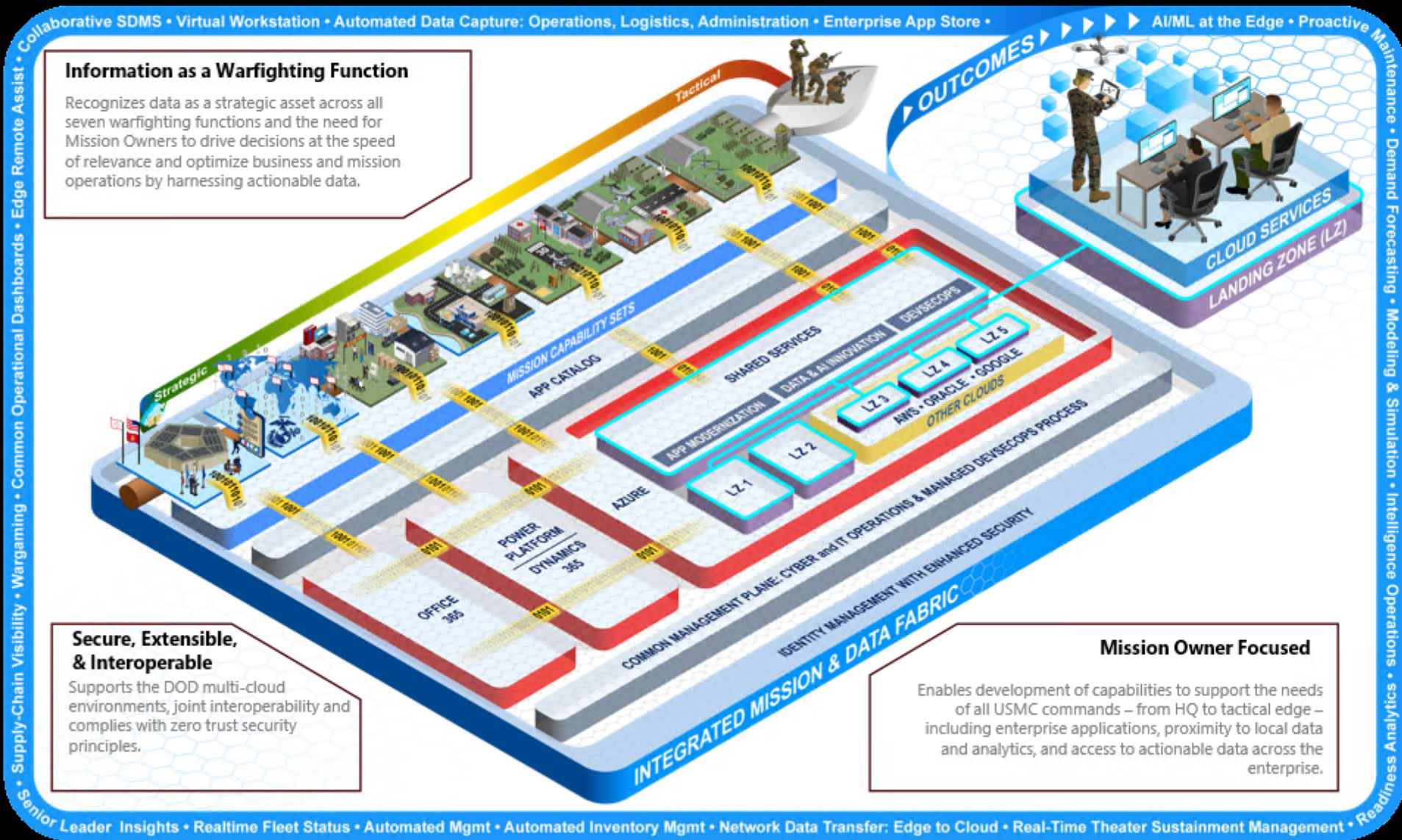
Logistics

Consumption Estimation
LOGPAC Planning
Route Analysis

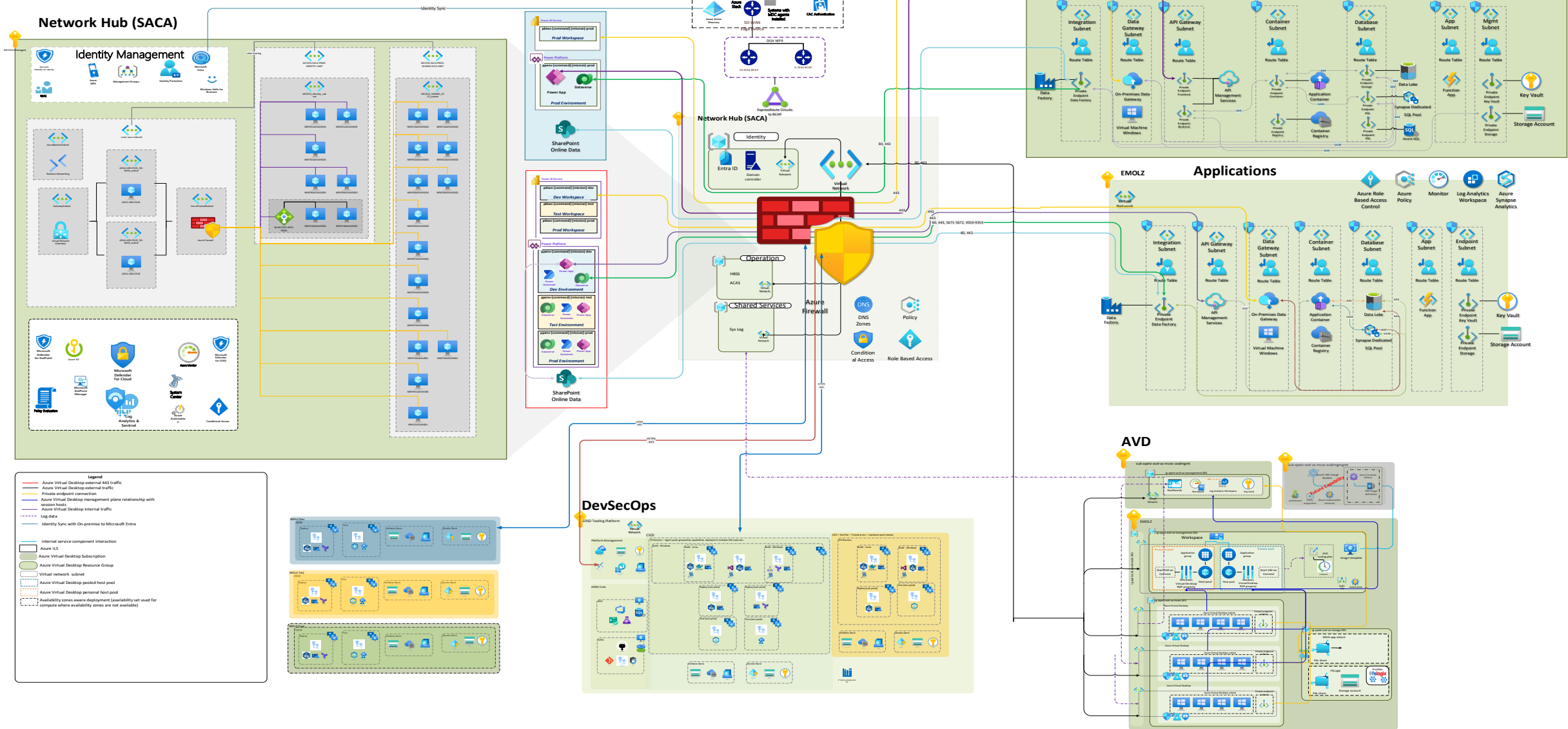


USMC INTEGRATED MISSION & DATA FABRIC

Compute, storage, and transport of data and capabilities at the point and time of need



USMC IMDF Architecture





Thank you