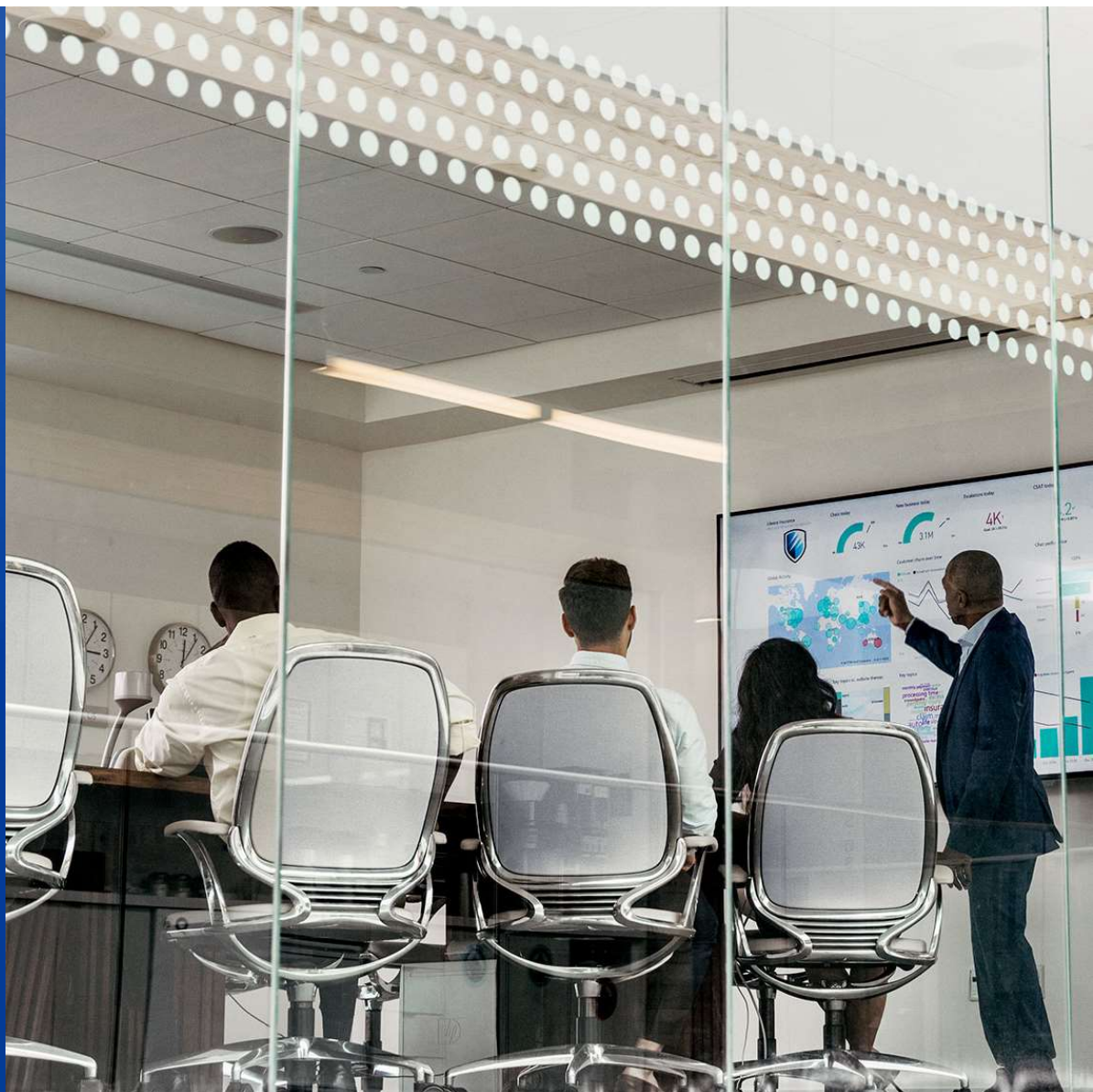**Microsoft**

Defence/Intelligence Accelerator: OSINT Use Case

Illustrating how Microsoft can help address capability requirements for Defence and Intelligence

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Worldwide Public Sector

Disclaimer

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Customer Objective

How can technology reliably and efficiently **make the right information available** *and reduce the amount of human intervention and effort?*

These technologies should be **deployed as modular capabilities** *to augment a customer's existing enterprise search and intelligence solutions*

Demonstration of Modular Capabilities

Computer vision
- Object identification
- Optical Character Recognition (OCR)

Text Analysis
- Language Identification
- Entity Identification

Geo-Spatial Enrichment
- Geo-Coding locations

Mobile/Edge Support
- Mobile access to search
- Submit content for enrichment

Existing Core Enterprise Capability

Search Interface	
Security Service	Data Repository
IdAM	Access
Data Integration	

Intelligence Distribution
- Automatic Report Generation
- Saving a lot of copy/paste

Language Translation
- 90 Languages/Dialects

Video Indexing
- Transcription
- Scene Identification
- ….

Low Code Integration
- Accessing the Core Enterprise Search from external applications

Demonstration Use Case:

Maintain *Situational Awareness* of the South China Sea using <u>Real/Live Open Source Intelligence (OSINT)</u>

Generate a Daily SIGACT (Significant Activity) Summary based on Open Source and Commercially available intelligence

Identify Significant Activities that impact the region (i.e Freedom of Navigation Ops, Exercises, accidents, collisions, boardings)

Use AI/ML Tools to provide enrichment/analysis of the collected information in a variety of formats (documents, images and video) providing automated meta-tagging of the information

Illustrate how to integrate the results of the enrichment process with existing Core Enterprise Intelligence/Search Tools

Enable an operator/collector in the field to search and submit observations for analysis using a mobile device

Enable the analyst to examine the enrichments

Automatically generate an (editable) intelligence product (SIGACT Summary) for dissemination to analysts and decision makers

Data Sources

The demonstration has been designed to be a <u>live system, enriching and analyzing new data as it's published</u> from a variety of Open Sources. This information is correlated with commercial intelligence sources

Scheduled Internet Searches
- News (Documents with embedded images and video)
- Images
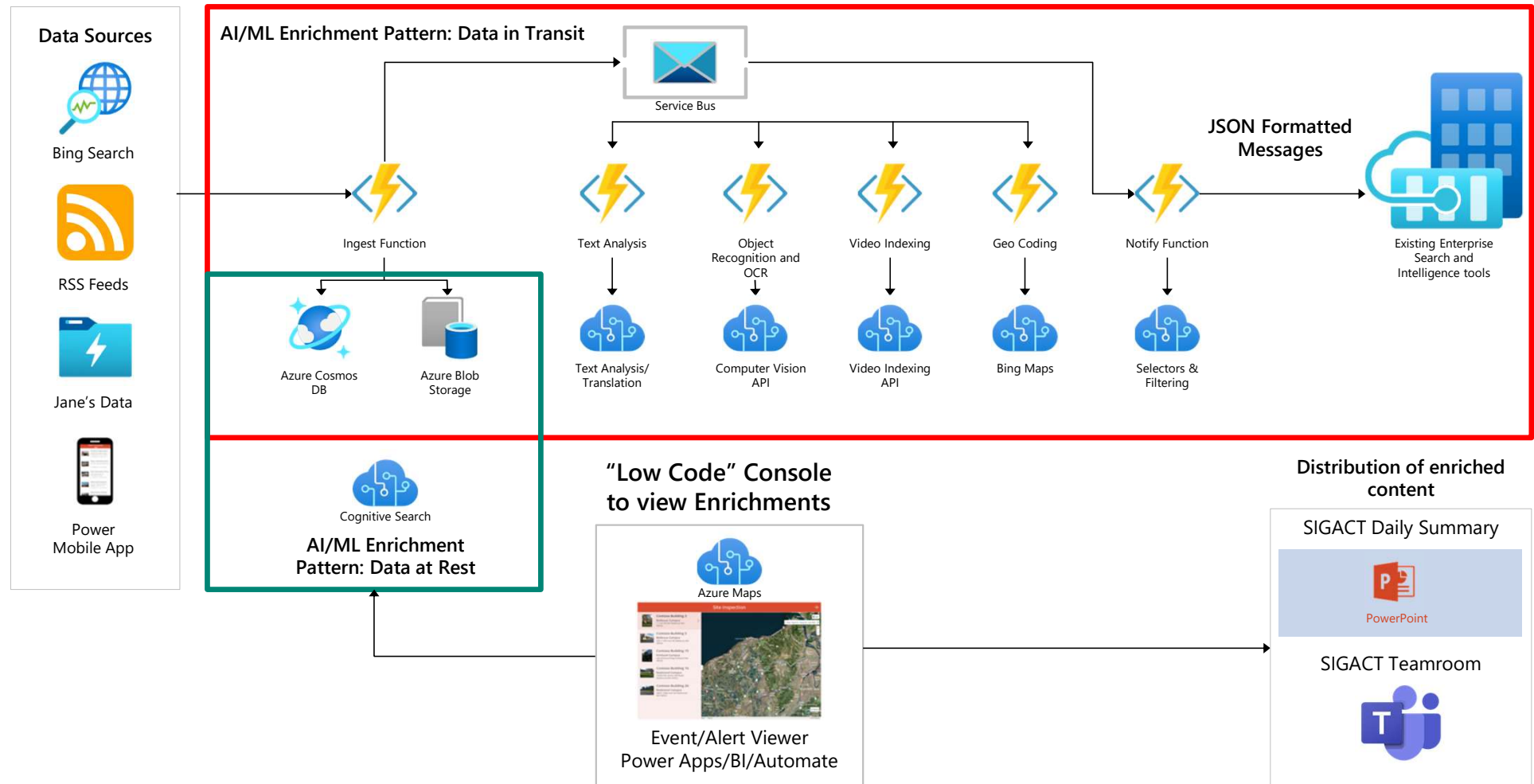- Video

Public/Published RSS Feeds
- General News Sources (South China Sea Focused)
- Languages: English, Chinese, Japanese, Russian…..

Commercial Intelligence from Janes'
- IMINT (Imagery Intelligence)
- News Events
- Military Equipment

OSINT Demo Architecture

Data Sources
- Bing Search
- RSS Feeds
- Jane's Data
- Power Mobile App

AI/ML Enrichment Pattern: Data in Transit

Service Bus

JSON Formatted Messages

Ingest Function

Text Analysis → Text Analysis/ Translation

Object Recognition and OCR → Computer Vision API

Video Indexing → Video Indexing API

Geo Coding → Bing Maps

Notify Function → Selectors & Filtering

Azure Cosmos DB

Azure Blob Storage

Cognitive Search

AI/ML Enrichment Pattern: Data at Rest

Existing Enterprise Search and Intelligence tools

"Low Code" Console to view Enrichments

Azure Maps

Site Inspection

Event/Alert Viewer
Power Apps/BI/Automate

Distribution of enriched content

SIGACT Daily Summary

PowerPoint

SIGACT Teamroom

Defence Industry Accelerator: What's in the box

Custom Configuration Code
- Azure Logic Apps, Power Automate, Power Canvas Apps, Power Mobile Apps, etc.

Deployment Kit
- Scripts/Templates/Installation Guide to rapidly spin up your own instance

Cost Calculator
- Enables you to examine cost components impacting users/capacity/performance

Documentation
- Architectural Diagrams, Service Configurations, Security Warnings, Metrics, Billing

Next Steps

To accelerate your AI/ML journey, Microsoft will make the assets (configuration code, architecture diagrams, etc) for this demonstration available to existing Azure customers at no additional charge

Note: Use and distribution of this accelerator is limited to certain geographies and is by invitation only

Please contact Marco DiVirgilio (madivi@microsoft.com) to schedule an Industry Accelerator Deployment Workshop for a deep dive on the demonstration, the process used to assemble this cloud-based solution, the modular components and review how to rapidly deploy in your own "sandpit" environment

Thank you