

# Modernize or Lose the High Ground

## Bottom Line Up Front:

### MODERNIZE OR LOSE THE HIGH GROUND:

Diverting from proven technology and platforms will degrade mission capabilities. Focus, instead, on leveraging and enhancing your existing solutions to transform how you collect, analyze, produce and disseminate intelligence. These actions lead to better analysis and cataloging the order of battle, infrastructure, and environmental knowledge to support military plans and operations.

### SURVIVE THE CRUSHING FORCE OF DATA:

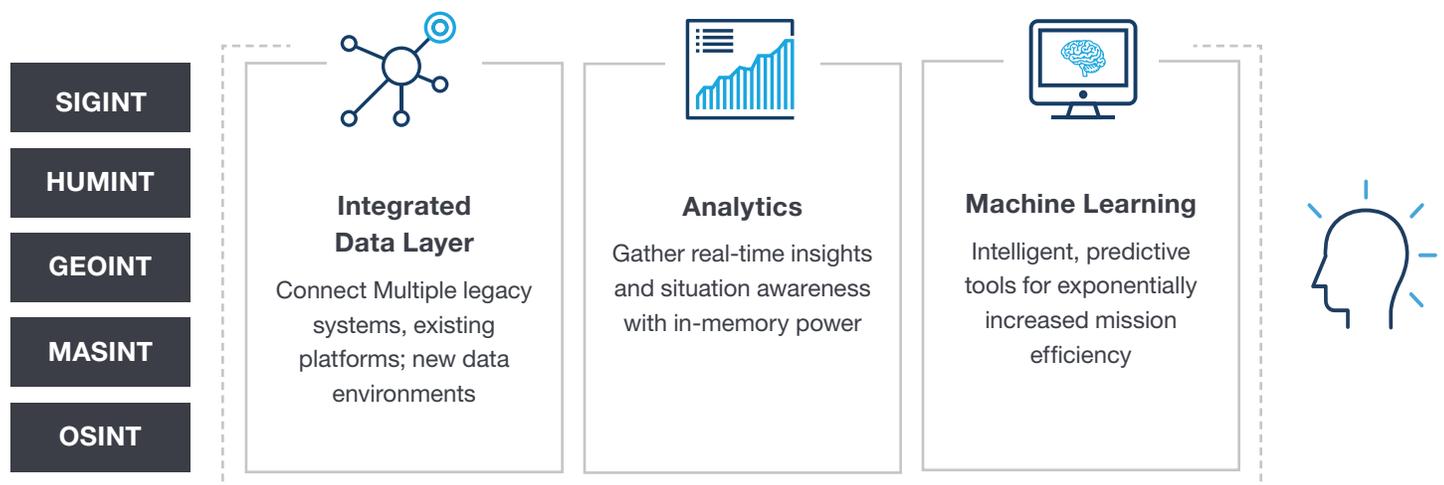
National Security and Defense communities will continue to succeed by choosing to use a data management architecture that powers existing cloud capabilities, along with state of the art data management software that works across the enterprise to make sense of all this information — at speed and scale.

### MANAGE CHAOS WITH ARTIFICIAL INTELLIGENCE

Data is growing at exponential rates from an explosion in the numbers and types of sensors & sources. To stay ahead of increased demand from this myriad data and avoid reduced mission effectiveness mission owners should deploy AI, machine learning, and predictive analytics to harness data that feeds the intelligence engines.

## Background:

The explosion of information from classified & unclassified sensors and sources -- in terms of volume, velocity, and variety -- impacts mission owner ability to produce meaningful intelligence for decision makers, from the Secretary of Defense to a squad leader on patrol. *SAP NS2 is uniquely qualified to tackle this challenge.*



## Commitment:

As a long-term platform a solution provider to National Security and Defense communities, with a deep understanding of the current environment, SAP NS2 can leverage the power and innovation of our technology to:

- 1** Ensure an improved cost-effective, pathway to digital innovation.
- 2** Improve your data and analytic practices for speed, scale and performance.
- 3** Outline a road map that bridges the gap between your current technology capabilities and mission needs.

## Approach — Data and Analytic Maturity Model

SAP NS2 proposes a three-phase approach paving a pathway and powering a process to enable advanced analytics and machine learning. Each phase increases maturity of data, technology, and analytic tools for efficient and effective intelligence generation.

### PHASE 1

#### DATA



Understand data — where it lives, what is important and how to access. Develop a robust foundation for enterprise information management containing data integration, data quality, data profiling, and text analysis. Your data maturity would be demonstrated by a data environment that is integrated, transformed, and able to deliver trusted data to your critical mission processes decisions makers in a timely, ingestible method. Clean, trusted information is at the core of every data initiative. Faced with huge data volumes and disparate data sources, mission users must harness and make sense out of chaos.

### PHASE 2

#### ANALYTICAL INSIGHT



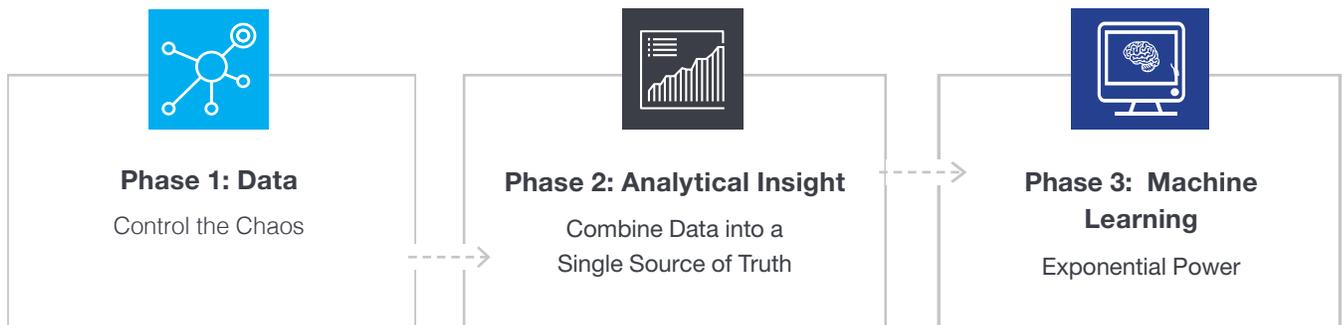
An available and usable analytic platform – with tools for generating advanced analytics from the various applications used by your customers. With a solid Phase 1 at the ready, the data platform will provide natural language processing, geospatial, predictive and graph. You can then maintain an enterprise-wide intelligence and analytics platform that simplifies analysis across multiple, scattered, heterogeneous applications and platforms.

### PHASE 3

#### MACHINE LEARNING



Leverage the data and analytics that were liberated in phases 1–2, Machine Learning will add immense value by infusing an entire set of solutions with more intelligence, at higher rates, on a platform for people. The entire ecosystem will be able to generate intelligence and increase mission capabilities from machine-learning solutions.



SAP NS2 — Data and Analytic Maturity Model

## Baseline capabilities we currently deliver for National Security customers:

- 2-way Modernized Integrated Database (MIDB) replication across more than 200 sites
- Multi-level security for multiple data environments
- Delivering more than 120 integrated intelligence applications

## NS2 delivers innovation built on top of MIDB solution for a Defense customer's cloud initiative:

- Tailored existing capabilities for Defense customers inside the Distributed Common Ground System (DCGS-A) to a more responsive, flexible, and agile threat visualization and reporting tool suite that ingests unstructured / structured live mission data
- Helped to deliver both traditional DCGS-A systems data and enterprise expertise, as well as web-based services and tools accessible to all users inside and out of theater as part of a common framework
- Processes and correlates intelligence data using integrated engines within SAP HANA®
- Reduced timeline for report availability from 10 minutes to 5 seconds
- Empowered analysts to generate kinetic targets in under 20 seconds
- Experienced 90% reduction in data volume

## Commercial Examples



### eBay is using SAP to provide stakeholders with actionable intelligence

- Leverages SAP predictive analytics to power their early signal detection system for the marketplace – to gain insights into their virtual economy, identify opportunities, and take corrective action.
- Relies on SAP solutions to ensure enhanced signal detection and notifications in real-time and to help eBay become better equipped to identify data anomalies and correct improprieties.



### NBA using our AI/ML and advanced analytics to extend customer intelligence

- SAP solutions are managing data from sensors, video feeds and statistics generated for every game to build and deliver the “NBA Stats” site.
- Resulting intelligence provides an easy to consume user experience where NBA staff, sports reporters and fans can easily access player statistics from across the league, as well as exploring statistics such as video box scores, player tracking information, and postgame infographics.