**InQuisient**

DoD Data Strategy

The New DoD Data Commandments

Introduction

In October of 2020, the Department of Defense (DoD) leaders released the DoD Data Strategy, which outlines a new vision for DoD data management and standards, with the goal of unifying data processes across the department to fully maximize the power of data in the DoD in both warfighting and support scenarios. The Data Strategy, as part of the Digital Modernization program, sets a new framework for technologies from Artificial Intelligence (AI), to Intelligence, Surveillance and Reconnaissance (ISR), to logistics, and 5G-enabled edge communications. It focuses on efforts across the department, from Joint Warfighting, Senior Leader Decision Support, and Business Analytics. The end state goal is a Data-Centric DoD enterprise.

On its surface, implementing the strategy may seem like a daunting task. But with the right principles, capabilities, and technologies, the vision can be attained. In this whitepaper, we will demonstrate how this strategy is not only achievable, but how it is currently in practice in organizations across DoD thanks to enabling technologies such as the InQuisient Platform.
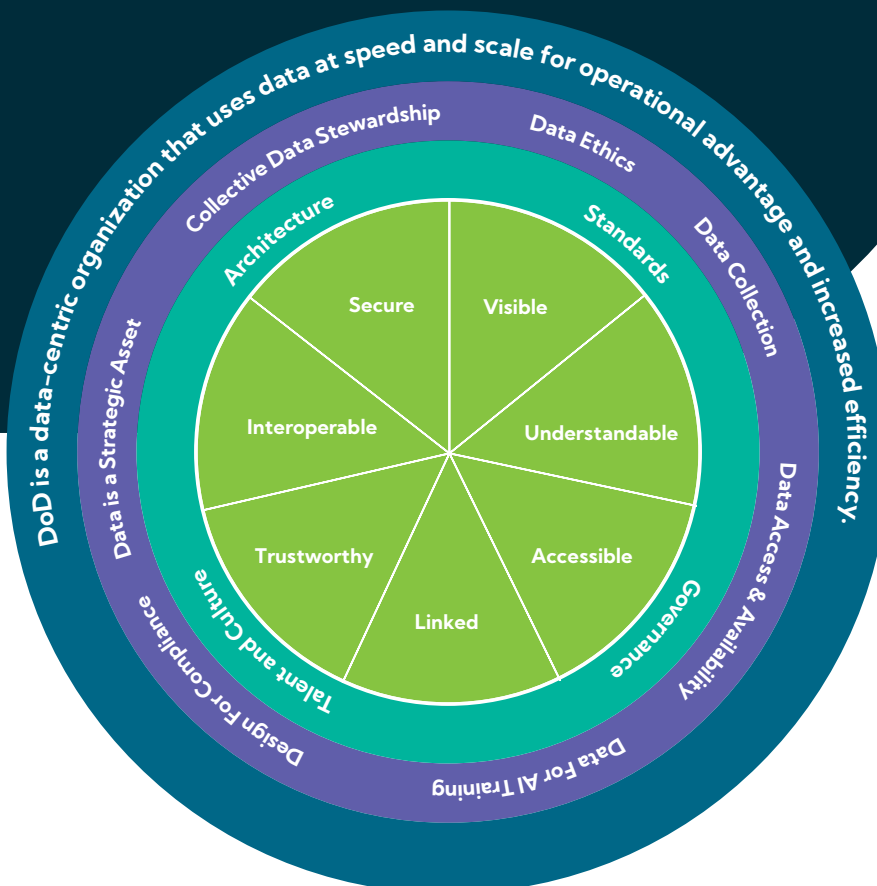
VISION STATEMENT

GUIDING PRINCIPLES

ESSENTIAL CAPABILITIES

GOALS

# InQuisient is Leading the Charge for the Data–Driven Defense Enterprise

InQuisient is a strategic enterprise portfolio planning and data management software platform. The IQ Platform includes tools for data integration and metadata management, enterprise architecture and technology asset management, portfolio and project management, risk modeling, and process optimization all in one solution. InQuisient enables leaders to make informed decisions and take decisive action to achieve mission success.

Created to solve the very problems defined within this new DoD strategy, InQuisient has spent the last two decades working closely with the DoD, as we've evolved and enhanced the platform, which is now Gen10 and more robust, extensible, and powerful than ever.

The InQuisient Platform converges four key pillars of the enterprise shift to digital – data visibility and quality, powerful analytics, business capability maximization, and human resource optimization – to enable better collaboration, automation of business processes, and efficient upskilling for transformative outcomes that minimize disruption and risk.

In short, InQuisient makes data a primary and permanent asset, separate from systems or applications that create and manage it – exactly the kind of solution to enable DoD to realize its data–centric vision.

Most importantly, the IQ Platform is already responsible for driving data–centric innovation across DoD, with more than $6B in DoD IT systems currently managed by our platform. From our founding in 2004, we have driven innovation in data management, analysis, and governance across DoD and the national security community, working to create the momentum that has culminated in the 2020 Data Strategy. What has, to–date, been incremental progress can now be department–wide.
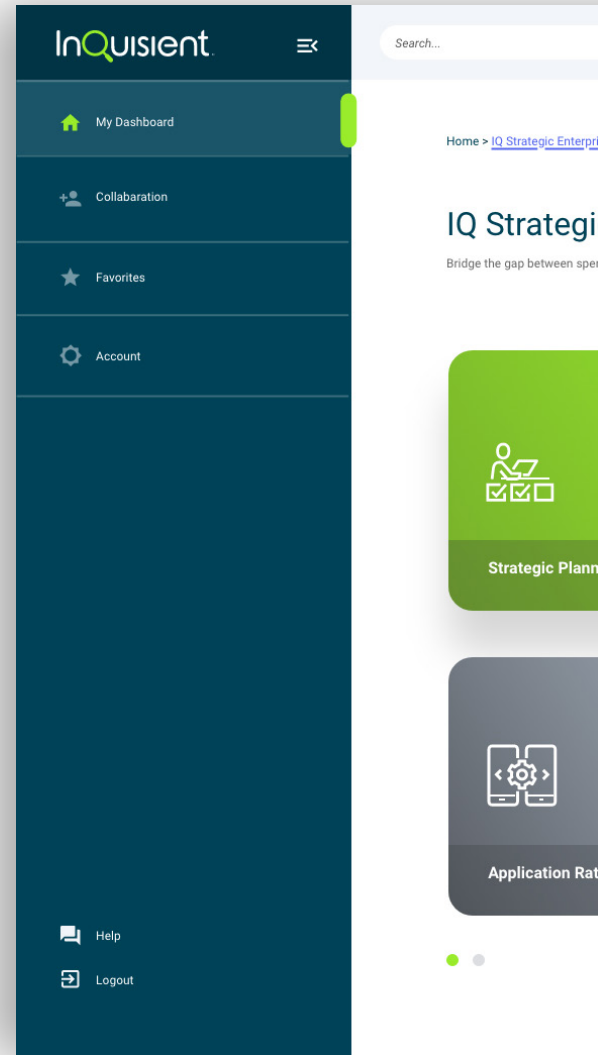
IQ currently manages over $6B in DoD IT systems, actively facilitating and advancing the Data Strategy vision.
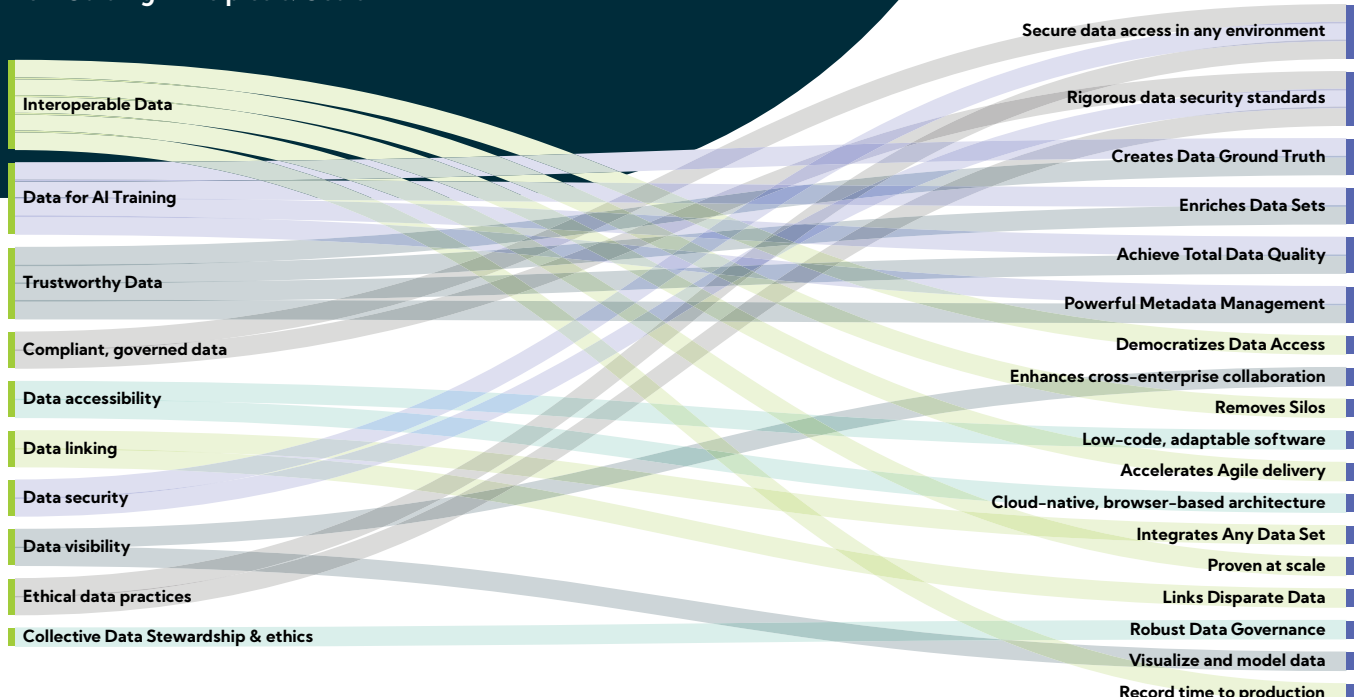
Key Details

How InQuisient Delivers on the Strategy's Guiding Principles

GUIDING PRINCIPLES	PROBLEM TO BE SOLVED	IQ TECHNOLOGY APPLIED
Collective Data Stewardship **DoD must assign data stewards, data custodians, and a set of functional data managers to achieve accountability throughout the entire data lifecycle.**	The data itself must be located, validated, and tracked and remembered. Transitory systems that only provide insights but have no persistence will not be useful.	The IQ Platform contains an advanced repository technology; security access controls allow and maintain stewardship continuously. Individual privileged users are assigned specific stewardship to the data they are most responsible for. These stewards work in conjunction with all other stewards to bring the most accurate and reliable information to the decision makers.
Data Ethics **DoD must put ethics at the forefront of all thought and actions as it relates to how data is collected, used, and stored.**	Data Ethics policy needs to be published in order for each type of data to be managed, e.g. PII, so that Data Stewards and Knowledge Workers can observe and ensure ethics compliance.	The IQ Platform and Tools allow policy documents to be published, stored, and broken down into data elements which then can be traced to every data structure type in the enterprise, ensuring ethics compliance. In addition, IQ enforces data level ethics policies directly on the data model itself.
Data Collection **DoD must enable electronic collection of data at the point of creation and maintain the pedigree of that data at all times.**	Data exists in the DoD enterprise and is being collected every moment. Giving types of Data a history enables the evaluation of the quality and utility of that Data over time.	The IQ Platform can track every fragment and type of data from the moment of collection through the entire lifecycle. Every time the Data is changed, IQ technology remembers.
Enterprise Wide Data Access and Availability **DoD data must be made available for use by all authorized individuals and non-person entities through appropriate mechanisms.**	Due to ethics and security requirements, not all data can be seen by everyone in all systems, or at all times. Access to any data element must be controlled as well as allowed.	The IQ Platform has a set of powerful connectors that can reach, understand, move, ingest, and enable data in the enterprise. The IQ Platform enforces specific security policies for each user at each level of the ecosystem from the network itself all the way down to each column or attribute in the database. Each security privilege is implemented at the deepest level possible with the end result being a robust privilege driven experience for every user. IQ systems are accredited on all the Federal secure environments.

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Data for Artificial Intelligence Training **Data sets for AI training and algorithmic models will increasingly become the DoD's most valuable digital assets and we must create a framework for managing them across the data lifecycle that provides protected visibility and responsible brokerage.**	Create a framework for managing data to facilitate AI training and algorithmic models.	The IQ Platform provides a stateful lifecycle management, stewardship, and publication environment that can manage and version AI data sets.
Data Fit for Purpose **DoD must carefully consider any ethical concerns in data collection, sharing, use, rapid data integration as well as minimization of any sources of unintended bias.**	C–level decisionmakers and knowledge workers must be able to "see" and understand the data which are imbedded in all the tools and storage mediums across the enterprise. It is not enough to have graphics and results; the data must be easily examined in order to satisfy this principle.	The Metadata Tool within the IQ Platform can reach out across the enterprise and provide validation that this principle is being maintained. In addition, the metadata data can track data lineage from origin to final destination.
Design for Compliance **DoD must implement IT solutions that provide an opportunity to fully automate the information management lifecycle, properly secure data, and maintain end–to–end records management.**	In order to use data, it must not stagnate in Data Lakes –– it is an asset that must be proactively used and managed.	The IQ Platform is specifically designed to automatically manage data, at scale, tracking all movement and changes of data at each step of the lifecycle.

Mapping InQuisient's Capabilities to the Goals of the DoD Strategy

DoD Guiding Principles & Goals

InQuisient Platform Capabilities

Interoperable Data
Data for AI Training
Trustworthy Data
Compliant, governed data
Data accessibility
Data linking
Data security
Data visibility
Ethical data practices
Collective Data Stewardship & ethics

Secure data access in any environment
Rigorous data security standards
Creates Data Ground Truth
Enriches Data Sets
Achieve Total Data Quality
Powerful Metadata Management
Democratizes Data Access
Enhances cross–enterprise collaboration
Removes Silos
Low–code, adaptable software
Accelerates Agile delivery
Cloud–native, browser–based architecture
Integrates Any Data Set
Proven at scale
Links Disparate Data
Robust Data Governance
Visualize and model data
Record time to production

Discover How InQuisient Can Drive Your Mission Forward

The DoD Data Strategy has set a new framework for how the department can become a data–centric organization, to better support and leverage advanced and emerging technologies and maintain an offset over the adversary. InQuisient helps major defense organizations become more data–centric, advance digital transformation, and use data at–speed and at–scale to achieve mission advantage. We have successful past performance doing so for some of DoD's largest IT programs.

In this new era, InQuisient is ready to deliver the proven data management, enterprise architecture, and portfolio management tools that allow you to more efficiently achieve mission objectives. Contact the InQuisient team today to request a demo of the platform and discover the benefits for your organization.

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