

UNICON SERVICES FOR DATA STRATEGY

KEY COMPONENTS OF A DATA EVALUATION

- Determine data champions and key stakeholders
- Review existing documentation and architecture
- Hold 1:1 interviews with key stakeholders to understand the technical current state
- Understand key paths, interactions, challenges, and critical needs in people, processes, and technology
- Collaborate with key stakeholders to understand and define goals and success metrics
- Develop current to future state pictures
- Provide a summary of findings and recommendations
- Facilitate group read-out to review recommendations and roadmap
- Outline a high-level implementation and roadmap

Data-driven decision-making and strategic planning have emerged as critical practices to ensure a higher education institution or EdTech company's success, but the journey towards a data-driven transformation is not an easy one. The pace of change around data is blazingly fast. New data technologies continue to emerge, data architectures are rapidly evolving, and even data governance has shifted its focus.

Unicon can help organizations make sense of changes in the data landscape.

- Just starting out? Unicon can assist in selecting the optimal key technologies, and designing the appropriate data architecture and governance processes for organizations.
- Already executing on a data strategy? Unicon validates that you're on course, and creates a streamlined roadmap based on updated information and technologies that accelerates progress towards the organization's desired future state.

Wherever an organization is in their journey, we recommend starting with a data strategy evaluation so we can align the desired outcomes with tailored recommendations to fit them.



START WITH A DATA STRATEGY EVALUATION

Unicon's data strategy evaluation helps an organization gain valuable insights and advice before committing resources to a future direction. We employ a flexible yet structured approach to produce a current state picture of data architecture and processes, which defines a future state vision. We then develop a high-level implementation plan that accomplishes the desired goals.

Each strategy evaluation is unique, but we follow a five-phase methodology of Listening, Envisioning, Analyzing, Recommending, and Navigating (LEARN) to understand where the organization stands today and define a data strategy that will help to achieve your goals and objectives.

After a series of one-on-one interviews with key stakeholders, facilitated virtual group sessions, and offline work by the Unicon team, we deliver guidelines that allow organizations to capitalize on short-term wins and reach their long-term goals.

Unicon's LEARN Methodology



OUR ROLES

- Data Visualization
- Data Architect
- Data Engineer
- Data Scientist
- Data Literacy

With a clear path to success identified, organizations can realize strategic goals with the following services:

DATA GOVERNANCE AND SECURITY

Data governance and security is a challenge that requires significant cultural, process, and technical change within an organization. As data architectures have evolved, so has the role of governance, from a defensive to an offensive mechanism that helps to promote the culture of data within an organization and secures the data in an age of increasingly common cyberattacks. Unicon can work with key stakeholders to identify governance needs and assist with the following:

- Data Catalog Design
- Data Definition
- Data Integrity Management
- Policy Development
- Organizational Structure
- Security Planning

MODERN DATA ARCHITECTURE

Traditional data architectures tend to be costly and are often one-size-fits-all. Modern data architecture strives to be fit-for-purpose, flexible, and maintainable with the ability to evolve as new technologies and architecture patterns emerge. Unicon can make recommendations and assist with implementation for a variety of architectures:

- Data Mesh / Data Lake
- Snowflake
- AWS Lake Formation

DATA INTEGRATION

The ability to integrate and unify data sources across an organization is critical, but it is often the most challenging aspect of any data strategy. However, new tools and techniques for data ingestion and transformation are emerging to make the process easier and more maintainable. Unicon provides development and support in these areas:

- Data Ingestion
- Data Transformation
- Data Modeling

LEARNER ANALYTICS AND OUTCOMES

Controlling and collecting data is the first step towards being able to make informed decisions. Being able to understand learner progress and the associated outcomes by using meaningful analytics throughout the organization assists in assembling a holistic view of the students. Unicon works with clients to provide meaningful analytics to help make data-informed decisions. This spans the entire spectrum of administrative, product, and learner outcomes. Our services and support include:

- Data Visualization and Dashboarding
- Classroom Analytics
- LMS Analytics
- Learning Analytics
- Integration with Business Intelligence Solutions
- SIS Analytics

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Artificial technologies are going to play a pivotal role in our education ecosystems. We want to ensure that role is equitable and safe. Unicon can provide expertise in data and machine learning to jump-start an organization's capabilities. Machine learning, however, is only a small part of the set of AI technologies that are transforming the world. Unicon can offer consulting services for the following:

- Deep Learning
- Machine Learning
- Natural Language Processing
- Computer Vision
- Computer adaptive testing
- Curriculum Analysis
- Meta-predictive Risk Model

OUR EXPERTISE

Unicon's skilled data consultants have decades of experience in implementing data and analytics solutions for education and EdTech partners to promote data-informed decisions that support student learning.

Our expertise spans the entire data ecosystem for our clients. Unicon can help to build out a core data infrastructure, improve processes, capitalize on modern data technology, integrate with business intelligence solutions, and provide the analytics to answer the most critical business questions and needs. We meet clients where they are in the data journey, and work to optimize implementation and results.

Whatever an organization's unique needs may be, we can help you make sense of changes in the data landscape, capitalize on emerging technologies, and maximize the impact of data on decision-making and strategic planning.

OTHER UNICON SERVICES FOR EDUCATION TECHNOLOGY:

- Cloud Services
- Integration Solutions
- Learning Environment Consulting
- Learning Experience Design
- Identity and Access Management
- Customer Onboarding
- Open Source Support
- Technical Due Diligence
- Strategy Planning



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GETTING STARTED

Contact Unicon to work with you on your data journey at <https://www.unicon.net/contact-us>.