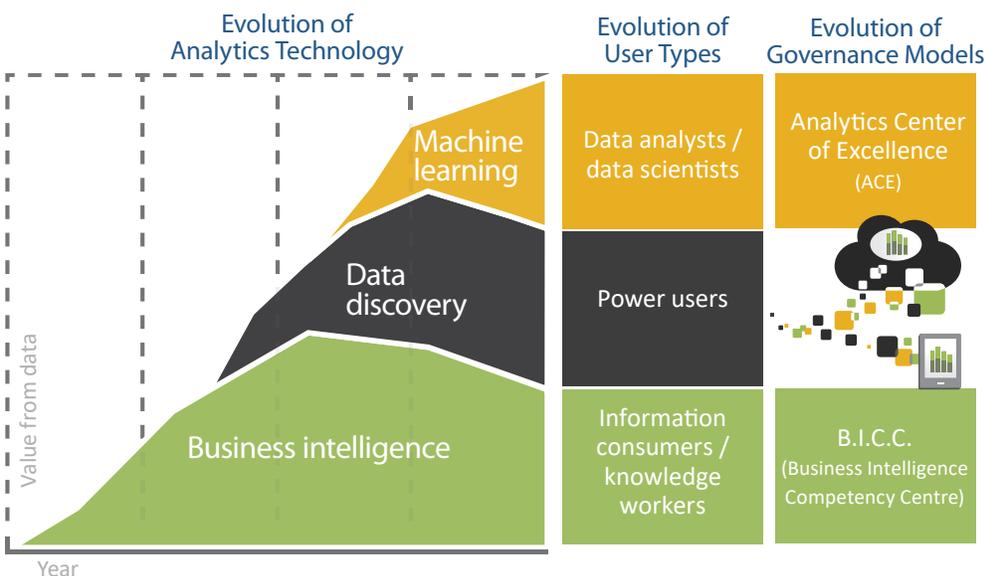**Sierra Systems**
an **NTT DATA** Company

How is Your Organization Evolving to Keep on Top of Business Analytics Governance?

As Business Analytics Technology and User Types have evolved, so has its Governance

Build a Business Environment That Promotes Sustained & Balanced Evolution

There has been a dramatic evolution in business analytics. As technology has evolved so have the Business Analytics users and their needed governance. All three "pillars" are dynamic yet must operate in unison to deliver a functional, enterprise-wide analytics solution.

Evolution of Analytics Technology / Evolution of User Types / Evolution of Governance Models

- Machine learning — Data analysts / data scientists — Analytics Center of Excellence (ACE)
- Data discovery — Power users
- Business intelligence — Information consumers / knowledge workers — B.I.C.C. (Business Intelligence Competency Centre)

Value from data / Year

The single biggest mistake organizations make is assuming that when their Business Analytics system is built it simply moves into maintenance mode. The Business Analytics system will continue to grow and evolve as long as the business continues to grow and evolve.

At Sierra Systems, an NTT DATA Company, we provide the expertise and knowledge to keep these three pillars aligned, supporting your organization in building a long-term data governance solution.

Business Analytics

Data Governance is more than an investment. It integrates business and technology goals within your organization and leverages existing staff to create a business analytics model and engine, powering your business information forward.
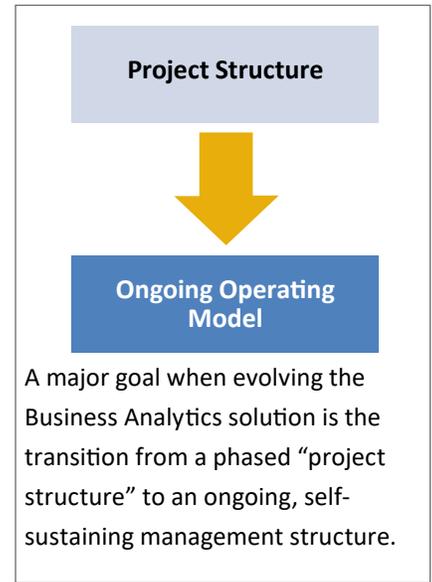
Adaptable and dynamic, Sierra System's solution utilizes existing staff to create a business analytics model and engine that places trustworthy Business Intelligence, Data Discovery, and Machine Learning into the hands of your team.

Evolution of Analytic Technology

Currently, the three main components of analytic technology, Business Intelligence, Data Discovery, & Machine Learning, are all required to implement a Business Analytics strategy. This strategy must take a comprehensive approach, addressing technology as well as people, business processes and organizational culture.

Stability	**Business Intelligence**	• Prompted reporting • Data warehouse • Known questions	• Information consumers • IT-driven
Agility	**Data Discovery**	• Interactive reporting • Self-serve analytics • Explore unknown	• Power users • Business-driven
Foresight	**Machine Learning**	• Predictive modelling • Learning software • Pattern recognition	• Data analysts • Data-driven

Evolution of User Types

Information Consumers / Knowledge Workers	**Power Users**	**Data Analysts / Data Scientists**
Business Intelligence has procured IT-driven data by asking known questions and pulling information from data warehouses to create reports useful to consumers. These consumer reports allow users to perform guided analysis by drilling up and down established data hierarchies.	Data Discovery evolved from these reports to show how interactive reporting can create new insight from existing data. Driven by business, these analytics highlight previously unknown relationships in data. Typically the "go-to" reporting resource, ideally each department employs one power user to create these reports.	Machine Learning is used by data analysts to find patterns in the data; using learning software to create predictive models, they exploit the anticipated relationships. From this, advanced analysis can detail statistical analysis and predictive modeling.

Evolution of Governance Models

A Business Analytics solution is a collection of tools and technologies. This enterprise-wide solution requires engagement across the organization

The Business Analytics solution will continue to grow and evolve with the organization. This growth and evolution involves several related disciplines.

Business Integration	**Advanced Analytics**	**Development**	**Operations**
• Business liaison • Requirements • Change management	• Data analysis • Quality assurance	• Development projects • Enhancement requests	• Content refresh • Sustain administration

Transitioning Analytics

Project Structure

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Ongoing Operating Model

A major goal when evolving the Business Analytics solution is the transition from a phased "project structure" to an ongoing, self-sustaining management structure.

How to Structure Business Analytics Governance to Promote Adoption, Change, and Maximum returns

As with any project, data governance solutions can operate so long as the proper resources are used. However, without a functioning organizational structure, projects devolve into ad hoc productions.

Sierra Systems' Data Governance Structure is built on four main functional disciplines: Business Integration, Advanced Analytics, Development, and Operations. Like legs on a chair, these areas of focus support the analytics strategy, distributing responsibility and eliminating bottlenecks; this stability allows for stronger implementation and faster evolution.

Meaningful Analytics

Benefits of a Modern Data Governance Model

Data governance weaves together your organization's business and technology goals, and gives existing staff the tools to create a business analytics model and engine that powers your business information forward.

By selecting Sierra Systems' Business Analytics Governance Structure, your organization gains specialists who are able to develop an enterprise solution with multiple levels of benefits:

- A focus on user adoption and cultural change
- An enterprise-wide model that both distributes responsibility and eliminates bottlenecks
- Creation of specialists in each area:
    - *Center of Excellence* - Business Integration, Advance Analytics, Development, and Operations
    - *Business* - Power users and consumers
- Use of existing staff for most roles
- Facilitates transition from old world to new world
- Maximizes the investment in business analytics
- Creates a long-term solution led by a director-level position with blend of technology and business experience
- The new business analytics solution evolves over time, transitioning your teams from a project-focus to focus on operations.

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an **NTT DATA** Company

Mindful Data Governance

Part of the broader organization structure, Sierra Systems' Data Governance Structure bridges the gap between technology and business.

Accelerating Businesses' IT

Sierra Systems' 50+ years of deep expertise in targeted industries has built our reputation of delivering superior solutions that strengthen organizations' performance.

Contact us to learn more about our award-winning and innovative solutions:

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