

EVIDEN

Global Data Insight

Creating Insights out of Data
Customer presentation

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Head of Data Insight

Digital Transformation

Data is key to create valuable insights for executing digital transformation plans



Digital Transformation refers to the evolution of an organization to utilise the latest digital technologies and innovations to **gain value out of data.**



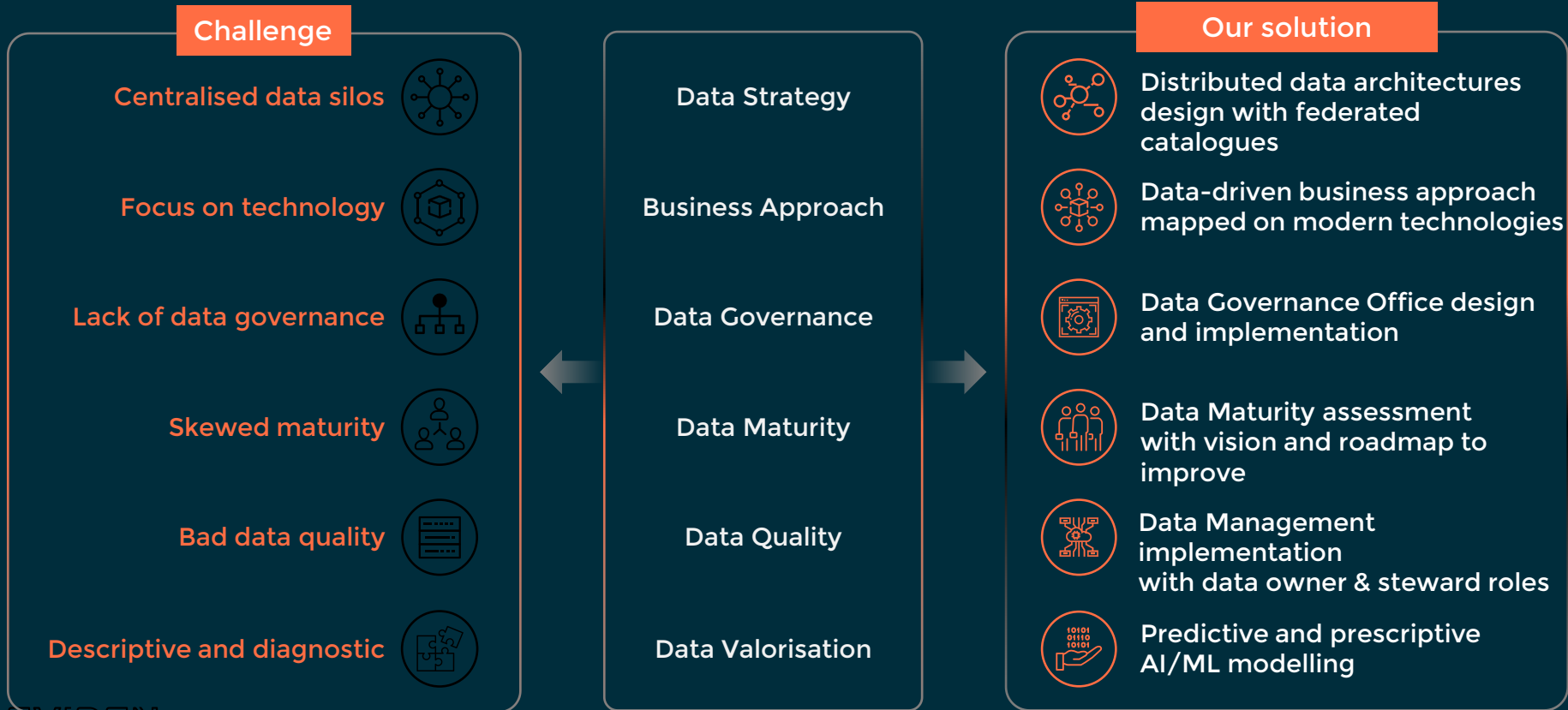
Digital Transformation never ends, it is an ongoing journey as it unfolds itself alongside the rapidly **changing nature of technologies and the value of data.**



To keep up with these ongoing disruptions, intelligent investment in Digital Transformation is the only way to **harvest business value out of data.**

Creating insights out of data presents several challenges

We recognise six key challenges and know how to solve them



Our Data Consulting Services drive creating insights out of data

Building insights should be business-driven and needs to assure digital maturity is aligned across business domains with high-quality data to drive the right tangible business outcomes

ARTIFICIAL INTELLIGENCE

Our AI/ML services support organisations to move away from descriptive and diagnostic, “what has happened and why”, towards predictive and prescriptive, “what will happen and how can I prevent it from happening”.

BUSINESS INTELLIGENCE

Business Intelligence is key to information-led decision-making through automated, scalable and trusted business dashboards and reports, enabling every employee in an organisation to make data-driven business decisions.

DATA MANAGEMENT

Data Management services operationalise and execute Data Governance artifacts like data architectures, data lineage and data quality tooling and processes and the effective operationalisation of data usage.

DATA GOVERNANCE

Our Data Governance services focus on designing a Data Office with the associated roles and responsibilities enabling an organisation to break data silos, federate data to the fullest and improve data quality.

BUSINESS-DRIVEN DATA JOURNEY

Where a key pitfall is to focus on technology, our Business-Driven Data Journey approach focusses on business value first and assures scalable and flexible realisation with the right technologies.

DIGITAL MATURITY

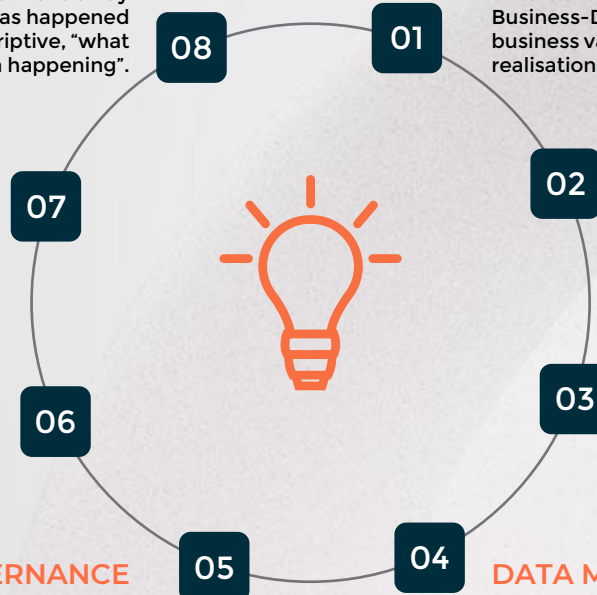
Essential in digital transformations is to have a balanced Digital Maturity throughout your organisation. Our Digital Maturity assessment measures the current state, and we offer services to improve the Digital Maturity.

DATA STRATEGY

To embed data in every decision, interaction, and process, you need a data and analytics strategy. A successful strategy encompasses people, processes, partners, technology and things, and improves the capabilities to become a data-driven enterprise.

DATA MATURITY

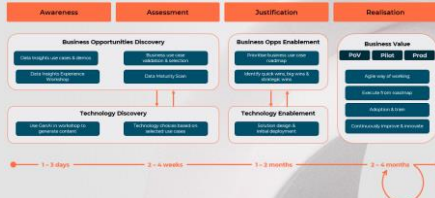
Our Data Maturity assessment measures the organization's maturity around using business critical data to the fullest for data-driven decision making to improve market value.



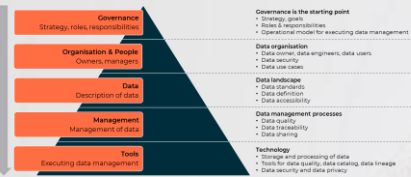
Key Offerings

Support our clients with business-driven consulting services to drive high-value business outcomes

Business Journey



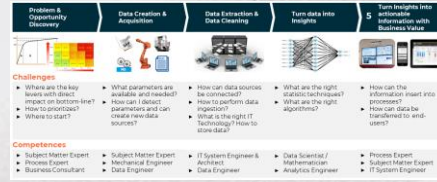
Data Governance



We support organisations to embed data in every decision, interaction, and process. A successful Data Strategy encompasses people, processes, partners, technology, and things, and improves the capabilities to become a data-driven enterprise. This includes our Data Maturity Assessment.

With our Data Governance services we support our customers to define the right roles and responsibilities to effectively enable Data Management processes, technologies and tools to assure data quality, lineage and sharing.

AI/ML



We bring AI/ML consulting services to our customers to support them to go beyond descriptive and diagnostic, "what has happened and why", towards predictive and prescriptive, "what will happen next, how can I prevent it from happening and what should I do now".

Our services includes Geographic AI and Generative AI offerings. In addition, we bring Responsible and Ethical AI services to prepare our customers for legislations like the European AI Act.

Business Intelligence

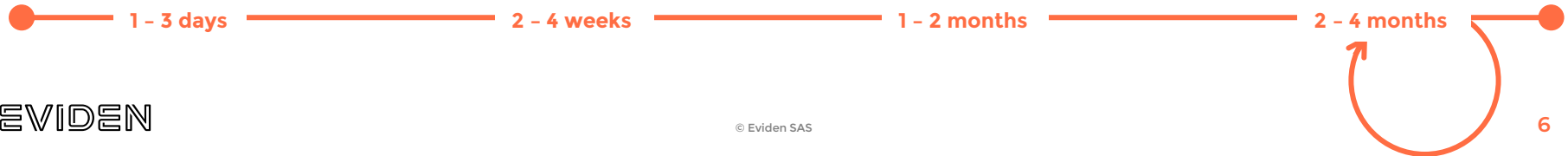
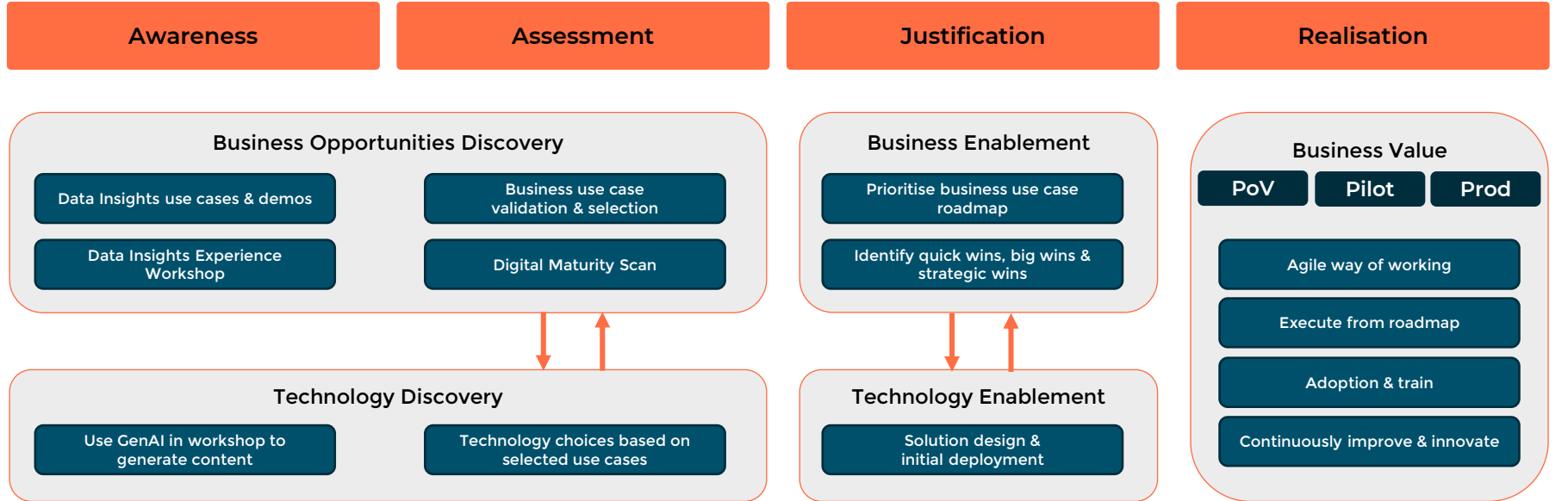


Unlock unparalleled success with professional BI deployment throughout your organisation. Empower decisions, deliver efficiency, and trend changes with trusted dashboards and reports. We bring our consulting services to help discover opportunities, measure progress, and ensure compliance effortlessly.

We drive data literacy to help our customers elevate their business with real-time, collaborative analytics. Embrace BI to triumph strategically, leveraging your data seamlessly for that competitive edge.

Our Business-driven Methodology

Drives the journey from awareness to business value



Our Data Strategy Services

Strategizes and plans data management, designs the data governance model and implements the execution of data management to meet the data consumption requirements of business processes

Data Strategy (Strategise and Plan)

A data strategy is a plan of data management projects that support business goals. This strategy includes technology, along with improvements or changes to the organisation, processes and policies.

Data Governance (Specify and Design)

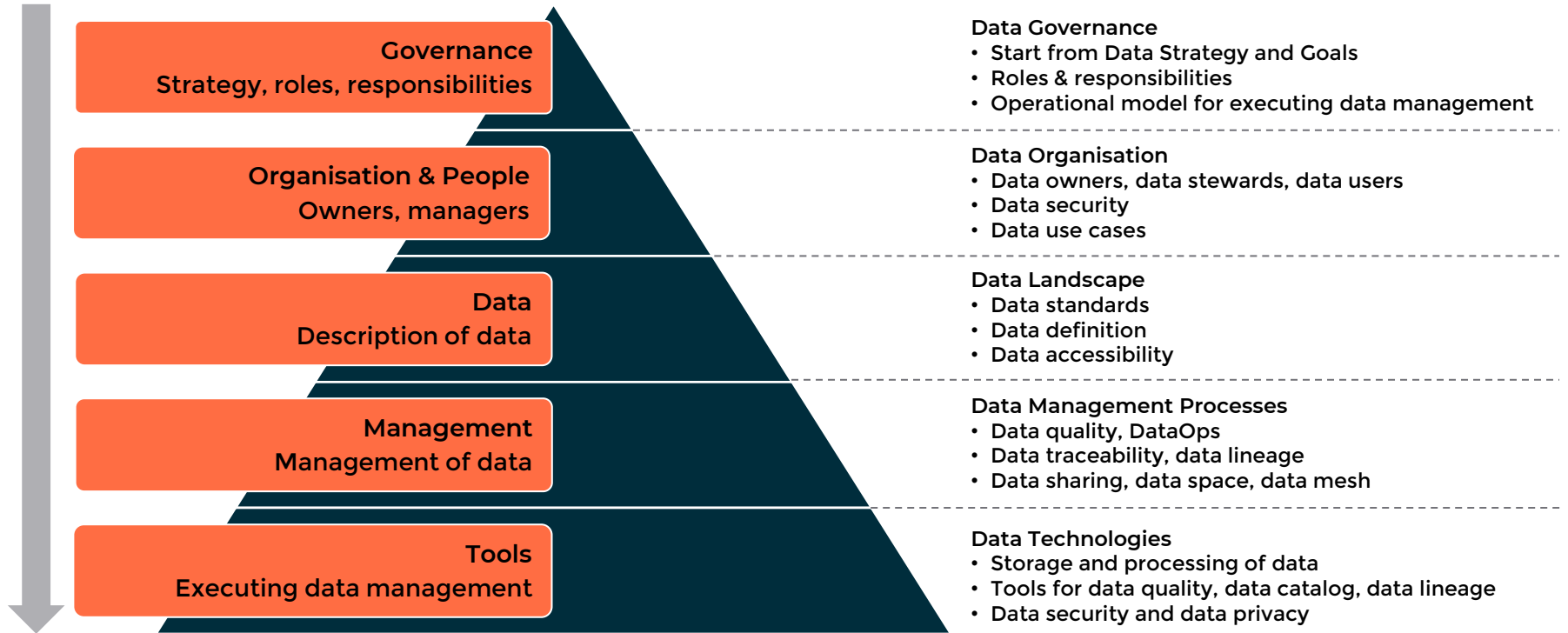
Data governance is the specification of decision rights and an accountability framework to ensure the appropriate behaviour in the valuation, creation, consumption and control of data and analytics.

Data Management (Implement and Run)

Data management consists of the practices, architectural techniques, and tools for achieving consistent access to and delivery of data across the spectrum of data subject areas and data structure types in the enterprise, to meet the data consumption requirements of all applications and business processes.

Data Governance and Data Management

Starts with the definition of roles and responsibilities



Our Agile Data Science Approach

Assures solid and validated steps from discovery to actionable insights

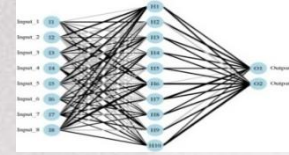
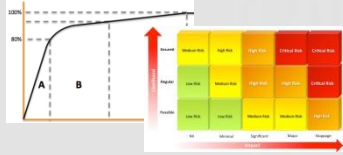
Problem Discovery

Data Exploration

Data Extraction

Create Insights

Business Value



Challenges

- Where are the key levers with direct impact on bottom-line?
- How to prioritize?
- Where to start?
- What is the business value?
- Are data sources available?
- What is the complexity?

- What parameters are available and needed?
- How can I detect parameters, and can I create new data sources?
- What is the data granularity?
- Where is the data stored?
- Who owns the data?

- How can data sources be connected?
- How to perform data ingestion?
- What is the right IT Technology?
- How to store data?

- What are the right statistic techniques?
- What are the right algorithms?
- How can I test?
- How can I validate?
- How can I prevent the model from drifting?

- How can the information contribute to processes?
- How can data be transferred to users?
- How do I valorise the outcomes?
- How can I explain the outcome?

Competences

- Subject Matter Expert
- Process Expert
- Business Consultant

- Subject Matter Expert
- Mechanical Engineer
- Data Engineer

- IT System Engineer & Architect
- Data Engineer

- Data Scientist / Mathematician
- Analytics Engineer

- Process Expert
- Subject Matter Expert
- IT System Engineer

Our Business Intelligence Services

Supports our customers with a business led approach for actionable data-driven decision making

Report Requirements

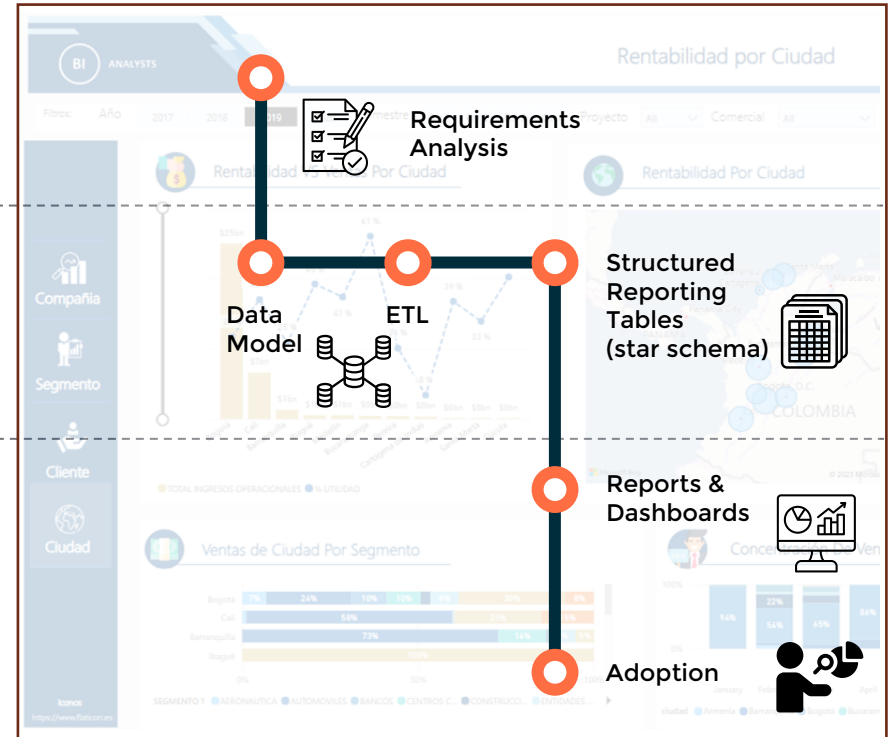
- We can facilitate and identify your key measures to track change *or* “digitise” your current BAU reports
- Control and sets the pace of report transformation through our iterative agile approach

Data Engineering

- Create the back-end reporting process for data extraction, transform and load, underpinned by an orchestration process to drive automation
- We take an iterative approach in the design and deployment of a data model that represents the information that will be ingested from all major data sources
- Outcome from this is a set of structured reporting tables for the BI app

Data Visualisations

- We design a series of wireframes to represent the reports and dashboards, that align with good practice for adoption across the user base
- We develop the reports through an iterative approach with a feedback loop in place
- Adoption is key to drive actionable data driven decision making
- Actively monitor the number of users engaged with the reports to increase adoption



Digital Innovation to become data-driven

Building a digital strategy to serve customers best

This international airport in Australia, plays a significant role in the economic, social and cultural activities of this State by facilitating travel and employment, connecting people and places, and providing support for communities. It is one of the busiest airports in Australia in terms of passenger traffic, and operates 24 hours a day, seven days a week throughout the year.

Business Challenge

Areas of improvements to enable this strategy that have been identified included:

- Obtaining an enterprise-wide understanding of the analytics the Airport requires that will enhance its operation of a smart and efficient business;
- Defining an approach to Data Warehousing and Integration that will improve information flow and access;
- Defining the approach for the Enterprise Application Integration (EAI) Platform that will provide better control and efficient management of the integration services and the ability to reuse existing interfaces where applicable;
- Developing suitable reporting and analytics dashboards through a preferred business intelligence solution

Eviden Solution

- Defined data analytics business requirements, including technical and non-technical requirements
- Identified inter-dependencies and system integrations that need to be considered in the design of solutions to enable efficient utilization of data
- Reviewed the current instance of analytics against business requirements
- Identified 'quick wins' to demonstrate the value of integrated data analytics
- Assisted in the identification of next steps, time frame and implementation plan

Business Benefits

- Definition of a data network charter
- Clear Data Governance process and procedure
- Clear status on data and process quality
- Compliance with legislations
- Better knowledge of customer data needs and priorities
- Sale of data

Data Governance implementation

Enhance businesses data exchange by implementing data governance

In the context of its Digital Transformation, this railway company in France identified Data Governance as a mean to facilitate data exchanges between business entities, to improve assets management and accelerate digital transformation. The company trusted Eviden's Consulting approach to define and implement all conditions to evolve to a data-driven company. Build a Data Governance Model based on a reference vision centered on uses for performance a trajectory of business projects aimed at exploiting the full value of data.

Business Challenge

- Define a consolidated Roadmap for around Thirty projects to Integrate new technologies (IoT, mobility , Big Data and analyze their impact on on-going and future projects
- Launching and scoping of digital twin and simulation projects
- Close collaboration with the CDO to define, implement and deploy data governance.

Eviden Approach

- Organization and change Management : Data Office structuring and deployment of data streams
- Define Data Policy, IT offer and Data Governance
- Define and drive the setup of the Data Office
- Design and implement governance process and procedures
- Adhere with compliance programs (LOM, LEMAIRE, opening French railway market to competition)
- Support quality audits

Business Benefits

- Definition of a Data Network charter
- Get clear Data governance process and procedure
- Get a clear status on Data and process quality
- Compliance
- better knowledge of customer Data needs and priorities
- Sale of Data

Predictive Maintenance for Windfarms

Digital twin to gain better insights and increase equipment effectiveness

Renom is one of the largest operations and maintenance companies for sustainable energy solutions, particularly the solar and wind energy. Renom believes in continuously evolving and is thus pursuing improved environmental and community needs. Providing clean energy and sustainable services while reducing the carbon footprint.

Business Challenge

- The goal of the international energy service provider is to produce and sell as much energy as possible.
- To facilitate energy production, it is important for the client to have their assets in tip top condition.
- Fluctuating weather conditions result in stress on wind turbine components as they shift between operating conditions. These stresses on the components lead to developing faulty conditions, reducing power yield or in the worst-case downtime until the component is replaced.

Eviden Solution

- Within Eviden's Digital Twin Program, in which digital copies of physical assets are created to provide asset operators with more and actionable information on asset performance and effectiveness, Atos developed a reusable plug and play Machine Learning module for predictive maintenance of wind turbines which can be deployed for multiple wind turbines/farms.
- Atos delivered a modeling approach and API which can be used by the company to create and consume models for individual turbines.
- Atos delivered a predictive maintenance platform with dashboards in which integrated data flows are used to better direct the efforts of maintenance personnel and monitor asset performance.

Business Benefits

- More effective direction of maintenance efforts, saving costs for repeated maintenance on site
- Better insight in required maintenance activities allowed cost savings of spare parts storage
- Increased overall equipment effectiveness due to less downtime, resulting in increased power yield

A major nuclear decommissioning organisation in the UK

Automation of publishing corporate reports

The organisation is responsible for the safe and secure operation and clean-up of the nuclear site. The challenge was to transform their corporate report publishing, which was a manually intensive process. Eviden delivered an automated approach to producing reports through a "digital dashboards" solution in PowerBI.

Business Challenge

- The process used to create monthly corporate reports at Sellafield was largely based on information captured in spreadsheets used to manually populate reports. This was manually intensive and expensive regarding resources (people and paper)
- Atos was asked to deliver a more automated approach to producing reports in an up-to-date tool. After a tool selection exercise Sellafield decided run a Pathfinder project using Microsoft Power BI to deliver this solution.
- The goal was to reduce the manual effort and cost to produce the reports with the aim of allowing staff to be redeployed to higher value adding work.

Eviden Solution

- Automated the production of reports taking the source data and using SQL Service Integration Services (SSIS) to transform the data into a standardized Microsoft SQL Server reporting database.
- Created reporting schema structures for specific reporting requirements and used these to create Power BI reports that were published into the Power BI Service to produce visualisations.
- Data architects designed the flow and transformation of data from the source systems, through the secure on-premise environment and on to the cloud database. The critical part was to ensure that only a subset of data was transferred to the cloud, so data analysis was carried out to inform the business rules that would manage this.

Business Benefits Delivered

- Formalised data modelling process ensuring data from multiple sources can be consolidated into an Enterprise Reporting Data Model
- An improvement in quality, consistency and common data structures building greater trust across the business and greater appetite to use data for informed decisions
- A governance overlay aligned to the client's processes to ensure adherence to security, data propriety and alignment to the architecture
- Facilitated a data-driven culture underpinned by a data maturity and a data literacy assessment monitored by an Adoption review
- Design and deployment of Microsoft's on-prem Gateway Services enabling on-Prem data to be accessed directly and made available for Power BI reporting
- Move to insightful diagnostic analysis supported by the deployment of innovative Narrative capture feature that enabled greater context for visualisation leading to data informed decisions
- Series of extensive dashboards with custom visualisations alongside digitised business processes reinventing ways of working for the organisation covering their Safety, Operational, Finance and Planning functions

The Eviden logo is rendered in a white, stylized, outlined font. The letters are spaced out and have a modern, geometric feel. The background of the slide is a dark teal color with a large, abstract, 3D-rendered graphic of interlocking loops on the right side.

EVIDEN

Thank you

For more information please contact:

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