

Fast Data Quality

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The accelerator that
makes data reliable and
AI-ready.

ADVANCED AI & ANALYTICS

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Solution Brief

Fast Data Quality

Fast Data Quality

enables organizations to quickly identify and resolve the issues that compromise data quality, transforming fragmented and inconsistent information into a solid foundation for Analytics and Artificial Intelligence.

Outcome

Reliable data. More efficient processes. AI ready for production.

Many organizations invest in Analytics, Data Platforms and Artificial Intelligence without achieving the expected value.

Fast Data Quality

transforms incomplete, duplicate and inconsistent data into a trusted and governed information asset, creating the foundation for faster decisions, more efficient processes and truly scalable AI initiatives.

Expected results

- A single trusted version of the data
- Reduced operational errors
- Greater business process efficiency
- Faster Analytics and AI projects
- Lower management and manual data cleansing costs





The Challenge

Data quality is the main obstacle to scaling **Analytics and AI**.

Despite the growing adoption of Data & AI initiatives, many organizations continue to face common data quality challenges.

Typical issues:

- **Duplicate data**
Multiple records for the same customer, supplier or product.
- **Inconsistent data**
Different information across ERP, CRM, operational systems and databases.
- **Limited governance**
Lack of ownership, traceability and change control.
- **Incomplete data**
Missing information affecting processes and reporting.
- **Manual processes**
Verification and correction activities performed by users.



Result

A loss of trust in data, directly impacting decision quality and the ability to adopt AI effectively.



The Solution

A ready-to-use platform that **automates data quality**

Fast Data Quality

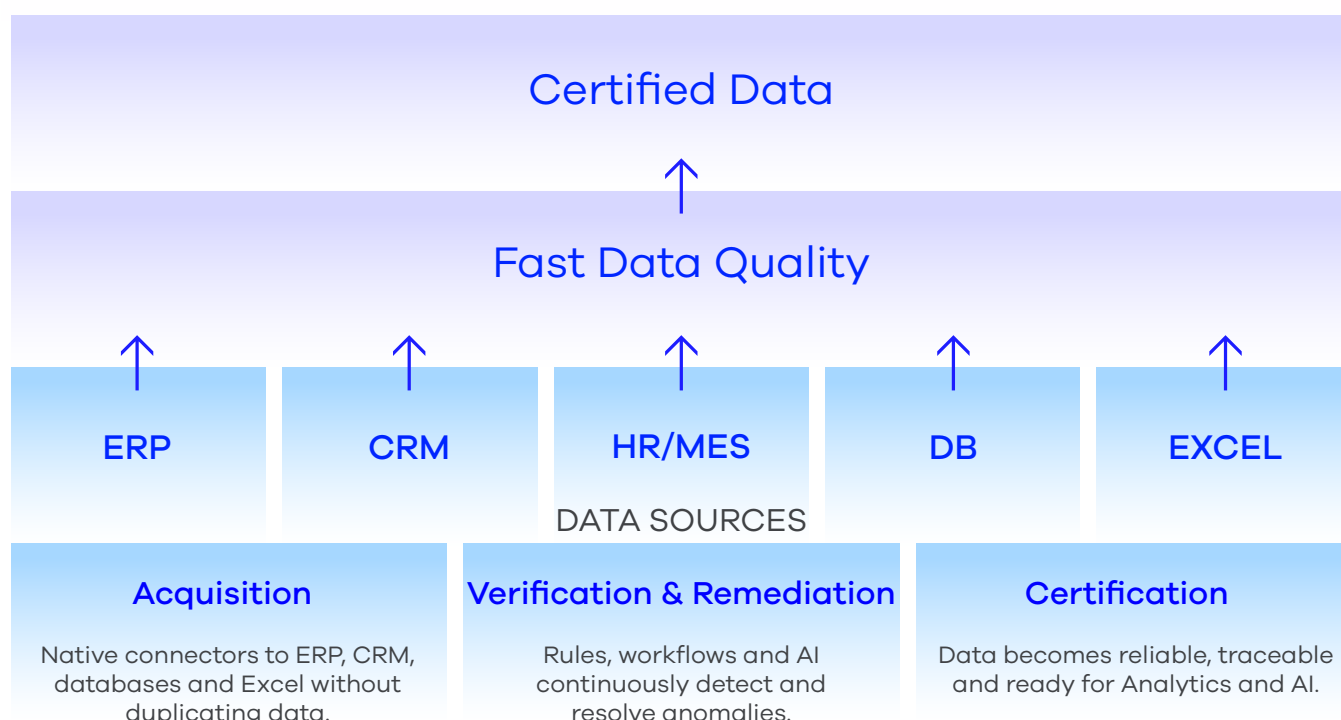
acquires data from enterprise systems, automatically verifies its quality, and manages anomaly resolution through rules, **workflows** and **Artificial Intelligence**.



Objective

Not simply to identify errors, but to create a continuous process for improving and certifying enterprise information assets.

An End-to-End Workflow,
from Data Sources to Trusted Data





How it Works

The Data Quality Lifecycle

The lifecycle is continuous: each phase feeds the next, ensuring that enterprise data remains consistently trusted, monitored and ready for use over time.

Lifecycle Overview

01. Acquire

Acquires raw data from structured and unstructured data sources, including ERP, CRM, HR, MES, databases, Excel and enterprise applications.

02. Analyze

Automatic data profiling: the first step in assessing data health and identifying areas that require remediation - quickly and efficiently.

03. Validate

Quality, completeness, consistency and uniqueness rules can be defined for individual data records or across multiple datasets.

04. Manage

Correction and validation workflows. Organizations can implement **passive**, **active** or **hybrid** remediation workflows.

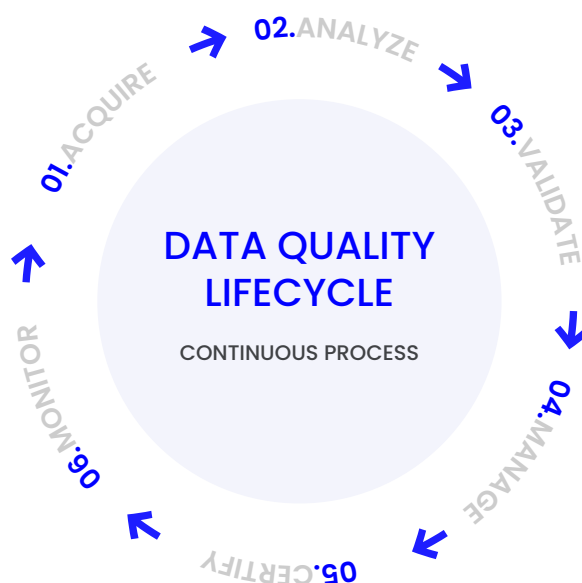
- **Passive:** Statistical or AI/ML-powered remediation, performed without human intervention.
- **Active:** Data is routed to data **stewards** for review and validation.
- **Hybrid:** Automated remediation followed by data steward approval or automatic validation after N days.

05. Certify

Production of trusted data ready for Analytics and AI: a strategic asset that enables accurate insights and maximizes the value of AI solutions.

06. Monitor

The **TRUST SCORE** measures the reliability and accuracy of enterprise data. Monitoring its evolution is essential to continuously improve the entire data quality process.



Trust Score: 94



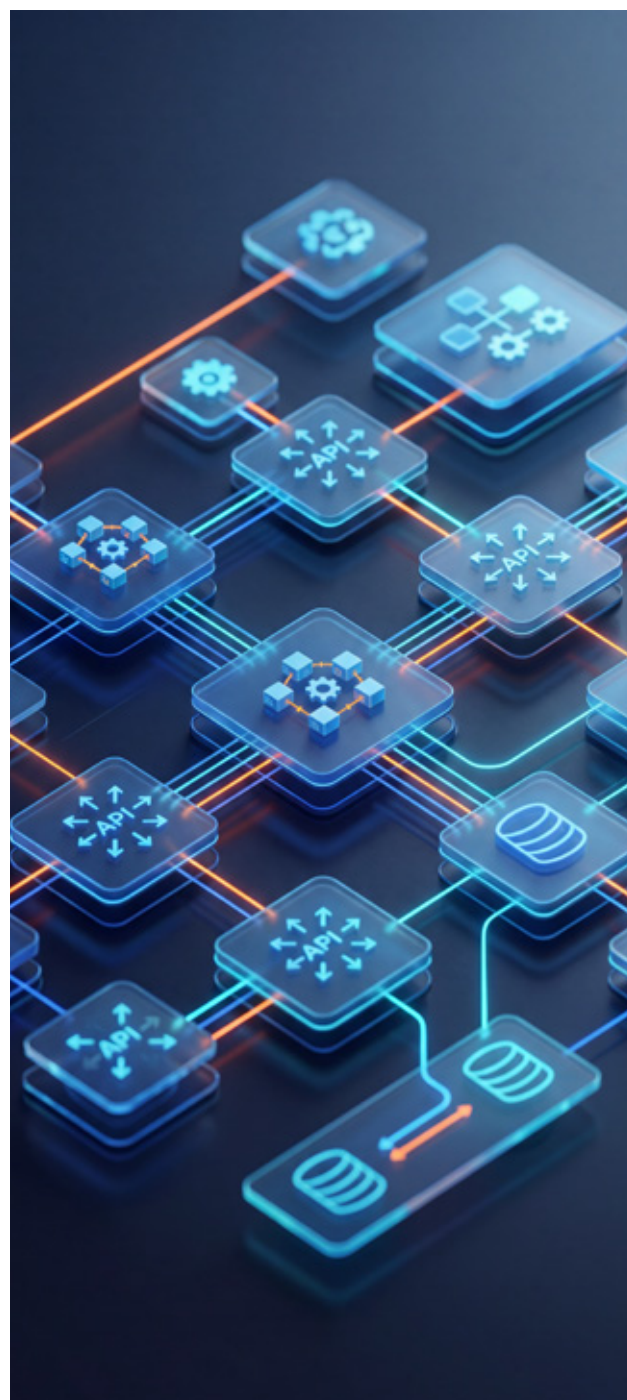
What it Includes

A **complete** platform

Integrated modules covering the entire data quality lifecycle, from data acquisition to certification.

Main components

- **Data Quality Engine,**
Automated data quality checks, profiling and scoring based on completeness, consistency and uniqueness.
- **Rule Management,**
No-code definition, versioning and centralized management of data quality rules.
- **Workflow & Stewardship,**
Anomaly management and assignment of responsibilities to business data stewards.
- **Monitoring Dashboard,**
Continuous monitoring through real-time KPIs, trends and Data Quality Trust Score.
- **AI-Assisted Remediation,**
Intelligent support for data remediation activities with Machine Learning-based recommendations.
- **Audit & Traceability,**
Complete change history for full traceability and regulatory compliance.



Modules

All modules are **natively integrated** and share the same rules engine, ensuring end-to-end consistency, centralized governance, and no custom integrations to maintain.



Use Cases

Master Data Quality

Industry Use Cases

- **Fashion**

Duplicate customer records across e-commerce and retail channels, inconsistent product codes across collections and countries, incomplete supplier master data, and errors in product hierarchies.

- **Pharma**

Incomplete drug master data, misaligned codes between ERP and regulatory systems, inconsistent pharmacovigilance data, and incorrect batch and expiry date management.

- **Energy**

Duplicate POD/PDR records, missing consumption data, inconsistencies between billing and CRM systems, and errors in plant and asset master data.

- **Healthcare**

Duplicate patient records, inconsistent procedure coding, incomplete clinical data, and missing correlations between patients, healthcare facilities and care pathways.

- **Manufacturing**

Inconsistent bills of materials (BOMs), duplicate material master data, non-standardized supplier records, and errors in component coding.

- **Logistics**

Duplicate customer and consignee records, incomplete addresses, and inconsistent shipment codes.

- **Banking**

Duplicate customer records, incomplete KYC data, inconsistencies between core banking and CRM systems, and outdated customer classifications.

- **Service**

Incomplete master data and contracts, duplicate customer records across commercial and administrative systems, non-standardized service catalogs, and inconsistencies between customers, services and operating locations.





Business Impact

Transforming data quality into **measurable value**

- **Reduced Operating Costs**
Fewer manual data verification and correction activities.
- **Improved Process Efficiency**
Reduced errors and rework across business processes.
- **More Reliable Reporting**
Better business decisions based on accurate and trusted data.
- **Accelerated AI Initiatives**
AI models trained on trusted, contextualized data.
- **Reduced Operational Risk**
Greater control over data quality and information accuracy.

Enterprise-ready Security & Governance

- **Governance.**
Clearly defined processes, roles and responsibilities.
- **Security.**
User profiles, roles and permissions aligned with corporate security policies.
- **Compliance.**
Automated audit trails and documentation, including GDPR compliance requirements.
- **AI Readiness.**
Trusted, contextualized and governed data ready for Analytics, Machine Learning and Generative AI.





Why Abacus

From Data Quality to **AI Readiness**

Having data
isn't enough.
You need to be
able to trust it
and put it to
work.

Fast Data Quality

helps organizations build a trusted, governed data foundation ready to support operational processes, advanced analytics and enterprise-scale Artificial Intelligence initiatives.



One Abacus. Many Minds. One Vision.

Discover how **Fast Data Quality**
can transform your data
assets into a trusted, governed
foundation ready for AI.



Abacus Group Srl
Centro Direzionale Milanofiori
Strada 1 Palazzo F1
20057 Assago (MI)

HEAD OFFICE CONTACTS
info@abacusgroup.io
T. +39 02 80 89 74 86

abacusgroup.io

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