



Global Data Excellence

Create sustainable businesses
with a true AI you can talk with

DEMS-Nexus + La Machina:

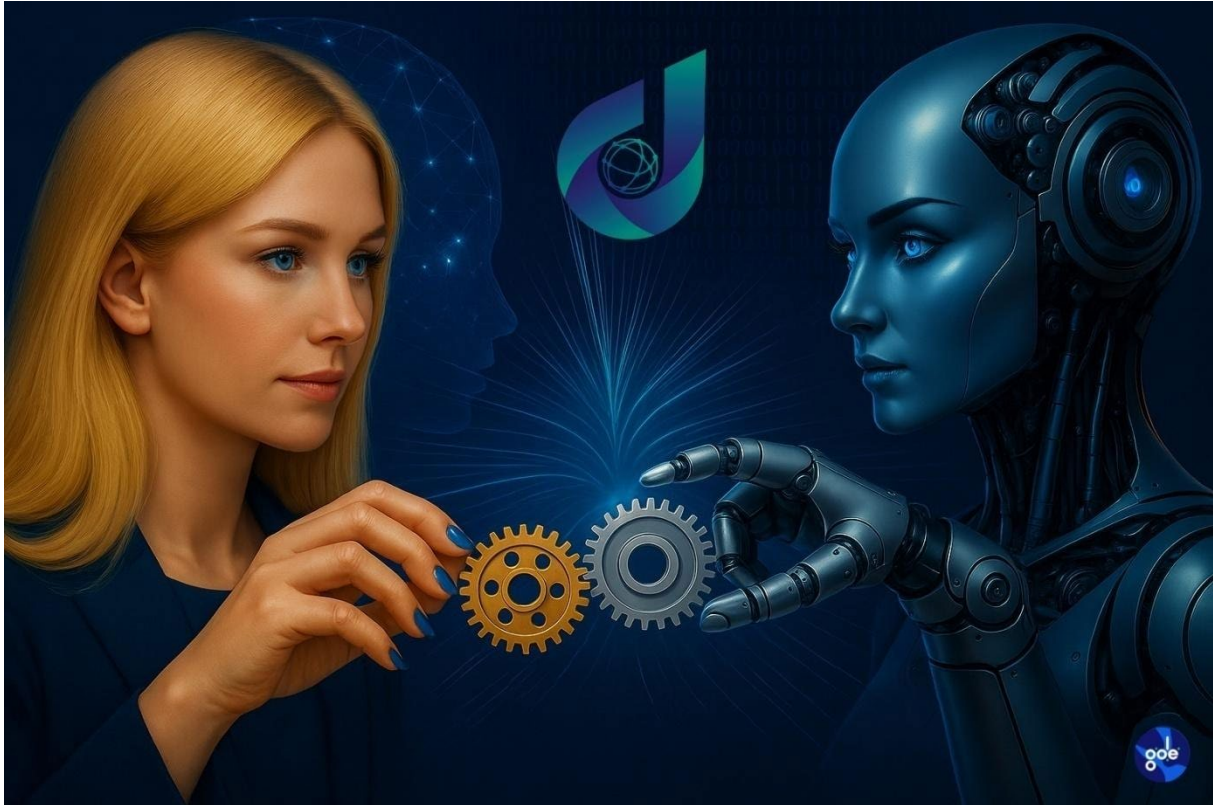
The All- In-One Digital Enterprise Platform



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Abstract

This white paper introduces DEMS-Nexus + La Machina, a sovereign semantic platform designed to unify and govern enterprise data ecosystems. Built on the La Machina kernel, it embeds a Semantic Meta Model (SMM) that fuses Governance-by-Value with automated compliance to replace static KPIs with real-time Key Value Indicators (KVIs) directly linked to measurable business impact. Through zero-copy, on-premises access, DEMS-Nexus eliminates data duplication and enforces continuous adherence to GDPR, FINMA, ISO 8000, and the UN Sustainable Development Goals.

By integrating semantics and automation into the data layer, the platform transforms raw information into governed, auditable, and value-driven assets. Business leaders define Business Excellence Requirements (BERs) and KVI targets, while data stewards ensure record-level compliance in real time. Multilingual semantic AI, automated workflows, and dynamic dashboards ensure consistent governance and accountability across global operations.

In essence, DEMS-Nexus enables organizations to evolve from reactive, spreadsheet-based decision-making to proactive, continuous excellence, where every data record is traceable, compliant, and contributes directly to measurable business value.





Introduction

Digital transformation has outpaced the ability of legacy governance frameworks to control and extract value from enterprise data. Siloed systems, duplicated databases, and opaque AI models have become major barriers to efficiency and trust. According to Gartner (2025), two-thirds of data-driven organizations cite inadequate governance as their greatest obstacle to transformation. Meanwhile, the global data-governance market—forecast to surpass USD 19 billion by 2033—continues to grow rapidly (IMARC Group, 2022).

Traditional tools rely on costly ETL pipelines and replication, increasing operational risk and fragmentation. DEMS-Nexus + La Machina resolves this by integrating semantics, automation, and compliance directly into the enterprise fabric.

The platform's five distinguishing characteristics are:

- **Governance-by-Value:** replacing KPIs with KVLs aligned to measurable outcomes.
- **Semantic AI:** contextual understanding of business rules in any language.
- **Zero-Data Duplication:** secure, real-time source access without replication.
- **Built-in Compliance:** continuous validation against GDPR, FINMA, ISO 8000, and the UN SDGs.
- **All-in-One Architecture:** integrating ingestion, governance, analytics, and automated workflows.

The result is a sovereign, auditable, real-time decision environment that drives business excellence and regulatory confidence simultaneously.

1. Problem Landscape

In today's data-driven landscape, organizations are beset by a constellation of entrenched pain points that erode value, inflate costs, and expose them to regulatory peril. Siloed data platforms routinely consume 20-30 % of an enterprise's budget and generate insights only after complex ETL pipelines and data warehouse refresh cycles, while data duplication and lag lead to inconsistent reporting that fuels compliance risk. Traditional workarounds—manual reconciliations, black-box LLMs, and ad-hoc compliance checks—produce no audit trail, blind spots in governance, and a reactive cycle that can take 3-6 months to surface non-compliance. Consequently, companies find themselves making tactical decisions from spreadsheet dashboards rather than strategic ones, and they pay the price in lost revenue, regulatory fines, and operational inefficiencies. Despite a projected market for data governance platforms of \$19.4 bn by 2033 (IMARC), the most widely adopted solutions continue to fall short, underscoring the urgent need for a more integrated, auditable, and real-time governance framework.-compliance. Consequently, companies find themselves making tactical decisions from spreadsheet dashboards rather than strategic ones, and they pay the price in lost revenue, regulatory fines, and operational inefficiencies. Despite a projected market for data governance platforms of \$19.4 bn by 2033 (IMARC), the most widely adopted solutions continue to fall short, underscoring the urgent need for a more integrated, auditable, and real-time governance framework.





2. Solution Overview - DEMS-Nexus + La Machina

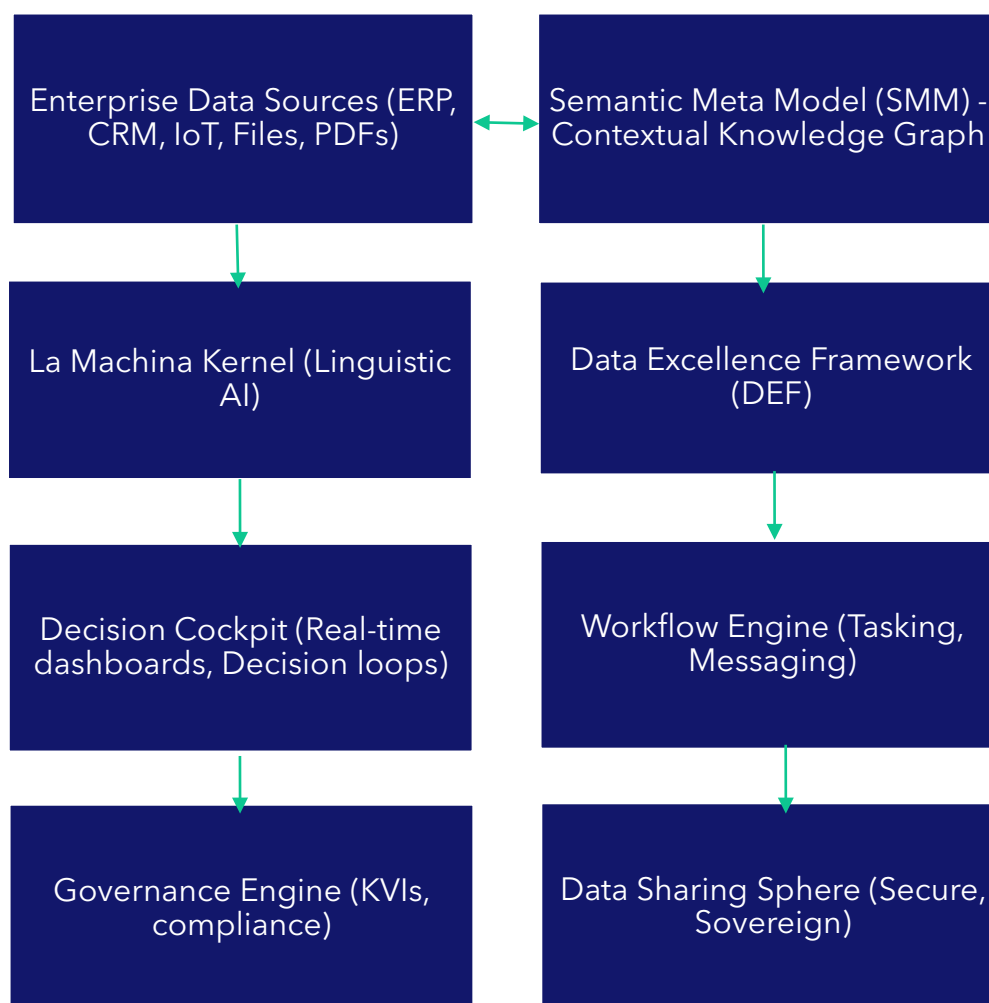
The DEMS-Nexus + La Machina platform architecture delivers a fully integrated, end-to-end solution that turns raw data into high-value business insights while embedding compliance, governance, and automation at every step. At its core lies La Machina, a natural-language, rule-aware kernel that translates business queries into executable logic without the need for live data ingestion, enabling instant, context-aware decision support. Layered beneath this kernel is the Data Excellence Framework (DEF), a methodology that weaves governance, data quality, and value into every phase of the data lifecycle, ensuring that every dataset is trustworthy and business-ready. Front-of-house, the Decision Cockpit delivers real-time, contextual dashboards that surface key value indicators (KVs), risk alerts, and actionable recommendations directly to users. The Workflow Engine automates prescribed actions, guaranteeing compliance, traceability, and operational efficiency. Finally, the Data Sharing Sphere provides a sovereign, GDPR-ready data hub that keeps data at its source and enforces strict role-based access, thereby safeguarding privacy while enabling secure collaboration across the organization.





2.1 Platform Architecture

At the heart of our solution lies a cohesive, end-to-end architecture that transforms raw corporate data into timely, governed intelligence with minimal operational friction. The core is La Machina, a natural-language, rule-aware kernel that parses business queries and automatically generates executable logic—eliminating the need for live data ingestion while preserving security. Building on this, the Data Excellence Framework (DEF) weaves governance, quality, and value into every stage of the data lifecycle, ensuring that insights are trustworthy and compliant. Real-time decision support is delivered via the Decision Cockpit, which surfaces key value indicators, risk alerts, and actionable recommendations in contextual dashboards. To enforce policy and maintain auditability, the Workflow Engine automatically executes prescribed actions, guaranteeing compliance and traceability. Finally, the Data Sharing Sphere serves as a sovereign, GDPR-ready data hub that keeps data at its source, enforces role-based access, and facilitates secure, controlled sharing across the organization. Together, these components form a unified platform that delivers intelligent, governed insights with unprecedented speed and reliability.





2.1 Core Capabilities

In this section we unveil the architectural pillars that transform raw data into strategic value. Our platform eliminates the need for costly ETL pipelines and data migrations through Zero Data Duplication, pulling information directly from ERP, CRM, databases, IoT streams, PDFs, and more—cutting integration spend by 80 % and removing sync lag. A Semantic Meta Model provides a language-agnostic graph that maps every business term to its underlying attributes, rules, and compliance constraints, guaranteeing 100 % accurate, context-aware queries. By turning corporate objectives into Governance-by-Value (KVs), we embed real-time ROI insights and reduce risk by 25 % in pilot studies. Integrated Real-time Compliance engines enforce GDPR, FINMA, ISO 8000, and UN SDG requirements, flagging violations instantly and keeping audit trails ready. Our Multilingual NLP stack supports over 30 languages without separate LLMs, enabling global teams to query data natively. Prescriptive Roadmaps translate KPI signals into actionable workflows, slashing decision latency from weeks to minutes. Secure collaboration is orchestrated through role-based chat, video, and tasking, governed by KVs and fully auditable. All processing remains on-premises, ensuring strict Data Sovereignty and adherence to national residency rules. Finally, out-of-the-box, industry-specific templates for ERP, HR, SAP, GDPR, and multilingual compliance deliver value in zero days for most verticals. Together, these capabilities form a unified, zero-touch data foundation that empowers organizations to act faster, stay compliant, and realize measurable business outcomes.

Capability	Description	Business Value
Zero Data Duplication	Pulls directly from ERP, CRM, databases, IoT, PDFs, etc. No ETL, no cloud migrations.	Reduces integration cost by 80 % and eliminates sync lag.
Semantic Meta Model	A language-independent graph that maps business terms to data attributes, business rules, and compliance constraints.	Enables 100 % accurate, context-aware query results.
Governance by Value (KVs)	Converts strategic objectives into measurable indicators linked to data at the source.	Provides real-time ROI insights; reduces risk by 25 % in pilot studies.
Real time Compliance	Built-in checks for GDPR, FINMA, ISO 8000, UN SDGs.	Instant policy violation alerts; audit-ready evidence.
Multilingual NLP	Supports 30+ languages out of the box; no separate LLM needed.	Global teams can query data in native language.
Prescriptive Roadmaps	From a KPI to a step-by-step action plan embedded in workflow engine.	Cuts decision latency from weeks to minutes.
Secure Collaboration	Role-based chat, video, tasking governed by KVs.	Eliminates separate collaboration tools; audit trail for every action.
Data Sovereignty	All processing occurs on-premises; no data leaves the corporate network.	Meets stringent national data-resident regulations.
Industry Specific Knowledge	Out-of-the-box templates for ERP, HR, SAP, GDPR, multilingual compliance.	0 days to first-value in most verticals.





3. Value Proposition

In this section we set out to illuminate the tangible benefits that DEMS-Nexus delivers when compared to the prevailing “one-size-fits-all” approach embodied by traditional large-language models (LLMs). Conventional LLMs offer a monolithic knowledge base that is often context-agnostic (**Forrester Research, 2022**), lacks business-rule awareness, and is built without governance or real-time compliance controls—leading to data duplication, regulatory blind spots, and an absence of KPI linkage. They also fail to provide workflow execution, prescriptive roadmaps, or automated actions, and typically maintain data on-premises, which can be costly and slow to deliver value. By contrast, DEMS-Nexus delivers contextual, rule-aware responses with built-in GDPR, FINMA, ISO 8000, and SDG compliance checks, zero duplication through direct source access, and a real-time audit trail that ensures governance and compliance. Its KPI-linked Key Value Indicators (KVI) translate data into measurable business impact, while automated workflows and prescriptive roadmaps enable immediate, actionable insights. All of this is achieved with full data sovereignty on-premises and at a fraction of the cost and time of traditional LLM deployments—often realizing the first value cases in zero to two weeks.

Traditional LLM	DEMS-Nexus
“One-size-fits-all” knowledge	Contextual, business rule aware responses
No governance	Real-time compliance & audit trail
Data duplication	Direct source access, zero duplication
Regulatory blind spot	Built-in GDPR, FINMA, ISO 8000, SDG checks
Lack of KPI linkage	KVIs link data to business impact
No workflow execution	Prescriptive roadmaps & automated actions
No data sovereignty	All data stays on premises
High cost & time to value	0 days to 2 weeks for first value cases





4. Use Cases & Business Impact

In this section we turn theory into tangible results by showcasing how our platform has been deployed across a range of high-impact industries. From the energy sector to banking, manufacturing, insurance, and public-sector smart-city initiatives, each scenario demonstrates the power of turning raw data into immediate, measurable value. For example, real-time risk assessment on exploration data in oil & gas has delivered €1 bn in savings and a 50 % reduction in cost within just eight days; automated AML compliance in banking has cleansed €500 bn in assets in seven days; and fraud detection in manufacturing uncovered €127 m of illegal transactions. In insurance, our FINMA-compliant solution saved €21 m while achieving 100 % compliance, and in the public sector, smart-city data integration has driven real-time citizen-service KPIs. The accompanying table details each industry scenario and its quantitative outcome, illustrating the breadth and depth of the business impact our technology can achieve.

5. Implementation Roadmap

In this section we outline the practical roadmap that will translate the theoretical framework of the whitepaper into operational reality. Deployment follows a proven six-phase roadmap designed to deliver measurable value within weeks rather than months (**Gartner, 2025**).

Phase 1 - Discovery and Governance Blueprint: Stakeholders define the Governance-by-Value structure by mapping Business Excellence Requirements (BERs), KVI, and compliance objectives.

Phase 2 - Semantic Model and Catalogue: The Semantic Meta Model is created and linked to enterprise data assets, establishing the controlled vocabulary for governance and analytics.

Phase 3 - Compliance Engine and Dashboard: Pre-built GDPR, FINMA, and ISO 8000 rules are configured to provide instant compliance visibility.

Phase 4 - Workflow and Collaboration: Automated tasking, role-based chat, and approval chains ensure traceable collaboration across departments.

Phase 5 - Pilot and Validation: A limited rollout validates KVI calculations and governance logic under real conditions.

Phase 6 - Full Roll-Out and Optimization: The model scales enterprise-wide and introduces adaptive learning to continuously refine governance efficiency.

Organizations typically realize their first measurable KVI improvement within **six to eight weeks**, reinforcing confidence and accelerating adoption.

6. Competitive Landscape

In this section we undertake a systematic comparison of the principal enterprise-governance vendors that dominate today's market, namely SAP GRC (with its integration to SAP environments), IBM OpenPages, Collibra's Data Catalog, Confluent in combination with large-language models, and the emerging DEMS-Nexus offering. While each of these solutions boasts core strengths—such as robust regulatory coverage, advanced data cataloging, or high-velocity streaming analytics—they





all share critical shortcomings. SAP GRC lacks semantic AI, key-value indicators (KVI), and on-premise data sharing; IBM OpenPages is encumbered by heavy licensing and offers no real-time workflow; Collibra does not expose a semantic meta-model and is unable to drive AI-based decisions; Confluent, though powerful for streaming data, offers no built-in governance engine or compliance checks. By contrast, DEMS-Nexus introduces a semantic-AI-driven governance framework that fuses “governance by value” principles into a single sovereign platform, thereby bridging the gaps that have persisted across the competitive spectrum. This analysis will illuminate the unmet needs that our solution addresses and reinforce the unique value proposition of the DEMS-Nexus platform.

Vendor	Core Strength	Gap
SAP GRC	Integration with SAP	No semantic AI, no KVIs, no on-premise data-sharing
IBM OpenPages	Regulatory focus	Heavy licensing, no real-time workflow
Collibra	Data catalog	No semantic meta-model, no AI-driven decisions
Confluent + LLM	Streaming data	No governance engine, no compliance checks
DEMS-Nexus	Semantic AI + Governance-by-Value	First to combine all in one sovereign platform

7. Governance & Security

In this section we delineate the comprehensive security and compliance framework that underpins our platform. Leveraging GDPR-compliant data handling, all customer information remains strictly within the corporate network, with real-time monitoring and fully automated audit logs guaranteeing traceability and regulatory assurance. Built-in rule sets for FINMA and ISO 8000 provide continuous compliance checks, while our zero data-movement architecture ensures that data is accessed only through secure, read-only connectors—eliminating the risk of accidental export. Every interaction is governed by Role-Based Access Control, with each action governed by Knowledge, Value, and Integrity (KVI) policies and a complete audit trail for all decisions. Finally, we adhere to open standards—ISO 8000, ECCMA, and the Open Business Excellence Library—to maintain interoperability, data quality, and industry-best practices across the entire ecosystem (El Abed, 2021).

- GDPR & Data Protection - Data never leaves the corporate network. Real-time monitoring and automated audit logs.
- FINMA & ISO 8000 - Pre-built rule sets, continuous compliance checks.
- Zero Data Movement - Data is accessed via secure, read-only connectors; no data exports.
- Role-Based Access Control - Every action governed by KVIs; audit trail for all decisions.
- Open Standards - ISO 8000, ECCMA, Open Business Excellence Library.





8. Human-Centric Collaboration: The Secret to a Co-evolutionary Paradigm

8.1 The Engine of Data-Excellence

In the era of semantic AI and real-time governance, the competitive edge is no longer the technology itself but the human-centric architecture that we embed around it. By re-orienting our data ecosystem from a “tool-centric” to a “people-centric” model, enterprises can unlock a true co-evolutionary partnership between business actors and the La Machina kernel. The cornerstone of this partnership is the Data Excellence Framework (DEF), which grounds every interaction in the principles of accountability, responsibility, and collaborative stewardship (El Abed et al., 2022). Explainable AI and a semantic meta-model deliver context-aware insights in business language; role-based dashboards empower users to act with confidence while the underlying governance network ensures that every data record complies with its Business Excellence Requirement (BER). Feedback loops that refine models in real time guarantee that governance adapts as rules, regulations, and business values evolve.

Four pillars operationalise this partnership and directly map onto the DEF’s core constructs:

- **Intent-Driven Dialogue** – Users articulate goals in natural language, which La Machina expands into a set of complementary Key Value Indicators (KVI) and validates against the BER catalogue.
- **Value-Anchored Decision Loops** – AI-suggested workflows are automatically tied to the relevant KVI, and humans perform final validation before execution, ensuring that every action drives measurable business impact.
- **Transparent Reasoning & Auditability** – Every inference, recommendation, or automation path is traceable through the Data Excellence Index (DEI), satisfying GDPR, ISO, and SDG compliance and providing auditors with clear evidence of data lineage and governance.
- **Adaptive Learning** – Human corrections and policy changes are captured on the fly, re-weighting the La Machina model without a full retrain, so that the system continuously evolves alongside shifting business priorities.

Together, these pillars create a fluid ecosystem where strategic intent queries, operational incident response, and regulatory checks are resolved within minutes, while human oversight and machine automation remain tightly interwoven. This alignment not only maximises the business value of enterprise data but also embeds a culture of continuous excellence across the organisation.





9. Execution Strategy: Leveraging the 3S Winning Rules within the Data Excellence Framework (DEF)

At the heart of the DEMS Nexus + La Machina platform is the Data-Excellence Management System (DEMS) that operationalises the Data-Excellence Framework (DEF) (El Abed, 2021). The platform translates DEF's core tenets—governance by value, clear accountability, and continuous excellence—into the three “3 S” pillars that drive rapid, auditable, and defensible business outcomes.

Secret embeds data sovereignty and knowledge-value-integrity policies directly into the data architecture, ensuring that all records remain on-premises, compliant with GDPR, FINMA, ISO 8000, and other regulations, while removing the cost and risk of export. This gives the enterprise a single, tamper-proof vault that turns compliance into a competitive advantage and satisfies the DEF's requirement that every data asset be governed by explicit Business-Excellence Requirements (BERs).

Speed eliminates the traditional ETL bottleneck by powering rule-aware natural-language queries against a live Semantic Meta Model (SMM). In the DEF context, this means that data quality and governance are evaluated in real time, producing immediate KVI (Key Value Indicator) and DEI (Data-Excellence Index) dashboards that are refreshed with every query. This instantaneous insight across 30+ languages removes duplication, slashes integration costs by up to 80 %, and shrinks decision latency from weeks to seconds—exactly the measurable value the DEF mandates for business stakeholders.

Surprise injects adaptive intelligence that learns from user feedback, audit logs, and scenario-driven forecasts. In DEF terms, this is the continuous excellence workflow: the system automatically surfaces hidden correlations, proposes corrective actions, and simulates regulatory impacts. Plug-and-play industry templates deliver first-day value, accelerate ROI, and map each milestone—knowledge-value-integrity policy, live semantic model, compliance dashboards, automated KVI workflows, scenario simulations—to tangible deliverables within a 6-8 week window. Together, the 3 S pillars form an integrated execution blueprint that embeds the DEF's accountability and responsibility layers into every stack level, ensuring a single, secure source of truth that is instant, auditable, and continuously evolving.

10. Change Management & Education Team

Technological transformation succeeds only when anchored by organizational alignment and learning. As Kotter (2012) emphasizes, sustainable change requires visible leadership, clear communication, and structured education.

Each DEMS-Nexus deployment includes a Governance-by-Value operating model supported by three leadership roles:

- **Chief Data or Digital Officer:** Sponsors the transformation, aligns objectives with corporate strategy, and ensures board-level visibility of KVIs.
- **Governance Lead:** Translates Business Excellence Requirements (BERs) into operational practices and ensures consistent understanding of the KVI cascade.
- **Change and Education Lead:** Oversees adoption through frameworks such as ADKAR or Kotter's eight-step model, promoting engagement and accountability.

Comprehensive training programs complement this structure. Data stewards learn to interpret KVIs and use semantic queries; analysts maintain the Semantic Meta Model; executives operate the





Decision Cockpit for continuous insight. This layered approach ensures that DEMS-Nexus is not merely implemented—it becomes an integral part of the organization's governance culture.

11. Quantum Office - Democratizing Enterprise Knowledge for Every Employee

The Quantum Office is not a conventional data-access tool; it is the living, sovereign knowledge engine that transforms every person in an organization into a data-driven decision maker. In a world where information is only powerful if it can be located, interpreted, and acted upon by the very people who need it, Quantum Office delivers a single, context-aware search experience that spans the entire data estate without moving data. Every data point becomes a KVI-driven, auditable asset enriched automatically with governance metadata, and the same intuitive interface is available to everyone—from C-suite executives to field technicians—irrespective of technical skill, language, or role. The platform is built on a zero-copy, source-direct architecture that translates natural-language queries into declarative graph operations executed directly against live source connectors, guaranteeing that every result is current, compliant, and traceable.

At its core, Quantum Office weaves together six tightly coupled layers: a responsive enterprise portal, a multi-language natural-language interface powered by La Machina, a semantic retrieval engine that ranks results by relevance and governance score, a real-time policy enforcement and audit trail layer, a workflow-orchestrator that surfaces actionable next steps, and a secure, sovereign data sharing sphere that enforces data residency and minimizes duplication. The semantic meta-model maps business intent to underlying fields, business rules, and compliance constraints, enabling the retrieval engine to surface not just the most semantically similar records but also the ones that best satisfy governance requirements. Every result is presented in a dashboard-style card that displays current KVI values, compliance flags, and lineage, with an embedded "Take Action" button that launches a pre-built workflow tailored to the user's role. The inclusive access model ensures that each role—executives, analysts, operational staff, and field technicians—interacts with the data in a way that aligns with their responsibilities, while all interactions are governed by a "Governance by Value" model that logs every KVI change to an immutable ledger.

In addition to its semantic search and sovereign data access capabilities, DEMS Nexus incorporates a fully integrated private communication suite that unifies email, instant messaging, and video conferencing within the Quantum Office environment. Every message, attachment or shared data asset is automatically stamped with the same KVI and governance metadata that underpins the search layer, guaranteeing that the confidentiality, lineage, and compliance status of every exchange are instantly visible to the sender and recipient. The communication layer is built on the platform's zero-copy architecture, so files and datasets are never duplicated or moved; instead, the system creates a secure, auditable "share" token that grants time-bound, role-based access to the live source. Rich-text and contextual attachments can be surfaced alongside query results, and the embedded "Take Action" workflow can trigger a private message or scheduled video call directly from a dashboard card, ensuring that discussion and decision-making occur in a single, compliant interface. Because every private interaction is logged in the immutable ledger, managers can trace the evolution of a discussion back to the original data points, and auditors can verify that all communications met the organization's retention and privacy policies. This seamless integration of private communication and data sharing removes friction between discovery and collaboration, making it possible for executives, analysts, field technicians and operational staff to co-author insights, negotiate next steps, and execute approvals—all while preserving the sovereignty, traceability, and governance that Quantum Office promises.

The impact of the Quantum Office is measurable across knowledge velocity, decision quality, governance confidence, user adoption, and operational efficiency. Typical outcomes include query response times below two seconds, 100 % of decisions backed by KVI-validated data, 100 % audit readiness, and a 80 % reduction in action-to-resolution time. The platform is also future-proofed: it





supports quantum-accelerated indexing, an adaptive learning loop that refines intent recognition from user feedback, and an extensible ontology that allows new business domains to inherit governance and compliance automatically. By embedding semantic search, zero-copy data access, and governance-by-value into a single sovereign layer, DEMS-Nexus eliminates the complexity and risk of traditional data lakes, turning the promise of data-driven decision making into a daily reality for every employee.

12. Conclusion

Data is no longer a by-product of operations; it is the **engine of enterprise value**. **DEMS-Nexus + La Machina** integrates semantics, governance, and compliance into a single sovereign ecosystem that delivers measurable business outcomes.

By combining a **zero-copy architecture**, a **Semantic Meta Model**, and **Governance-by-Value**, the platform empowers organizations to move from reactive management to proactive, evidence-based leadership. It replaces fragmented systems with a unified environment that continuously monitors compliance, measures value creation, and enables rapid, auditable decision-making.

Organizations using DEMS-Nexus report faster insight cycles, real-time compliance with GDPR and FINMA regulations, and sustainable performance gains driven by AI-human collaboration. As **Gartner (2025)** anticipates, the next generation of data platforms will be those that unify integrity, accountability, and human oversight. DEMS-Nexus embodies this future—transforming compliance into competitive advantage and knowledge into measurable capital.

13. References

- Gartner, Inc. (2025). *Magic Quadrant for Data & Analytics Governance Platforms*. Gartner.
- Perpetual Excellence Community (PEC). (2025). *The Perpetual Excellence Community (PEC) – A Scientific Society for the 3 S Data-Sharing Paradigm*. Global Data Excellence.
- El Abed, W., Madinier, H., & Bregnard, T. (2023). *Constitution of Unique References for Identification of Persons and Locations (CUR IPL)*. Innosuisse Innovation Cheque Project No. 63380.1 INNO-ICT, Global Data Excellence & HEG-Genève.
- IMARC Group. (2022). *Global Data Governance Market 2022-2033: Trends & Forecasts*. IMARC Research.
- Forrester Research. (2022, Q1). *Now Tech: Machine Learning Data Catalogs*. Forrester.
- El Abed, W. (2022, October). *Collaboration between the digital and human worlds: Importance of a human-centered approach*. Tribute to Peter Greenfield. Bulag.
- Atanassova, I. (Moderator), Bregnard, T., El Abed, W., Cardey, S., & Isahara, H. (2022, May). *Data protection in transitional times* [Conference panel]. CPDP 2022 – Computers, Privacy and Data Protection, Brussels, Belgium.
- El Abed, W., Bregnard, T., Cardey, S., & Gaudinat, A. (2022). *Semantically Driven Knowledge Modelling for the Business Ecosystem*. IFKAD Conference, Lugano, Switzerland.





El Abed, W. (2021). *The Data Excellence Framework: Valuation and Governance of Enterprise Data*. ECCMA Data Quality Summit.

World Innovation Economics. (2020). *Special Innovation Award - DEMS*. Davos, Switzerland.

Horizon 2020. (2019). *SME Instrument Grant to Global Data Excellence*. European Commission.

Kotter, J. P. (2012). *Leading Change*. Harvard Business Press.

