

S o 2) E

business & technology consultants

AI Solutions



S2E AI History

2019-2022: The beginning of our journey



Our Pillars have always been people and innovation.

ML & AI
Competence
Center S2E



Partnership

"GAIA": warehouse
automation system

Developments



Awards



Intelligent
Automation
CoE S2E



Italy's pioneering digital bank
accelerates with RPA



2023 - 2024: Launch of three development areas and Galene.AI vertical specialization



Custom AI Agents

A proprietary framework for the development of Conversational Agents.



S2E is a partner of the Italian Prime Minister's Office for the Internal adoption of Conversational Agents.



AI Agents Compliance

"Firewall" for the Adaptive Compliance of AI Agents.



Disruptive Use Case & Best Architecture Awards

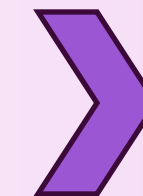


AI Infrastructure Services

Proprietary software for the efficient orchestration of AI models



S2E is the only SA Consulting Partner in Europe with expertise in managing NVIDIA AI's DGX Computing, Networking, and Software.



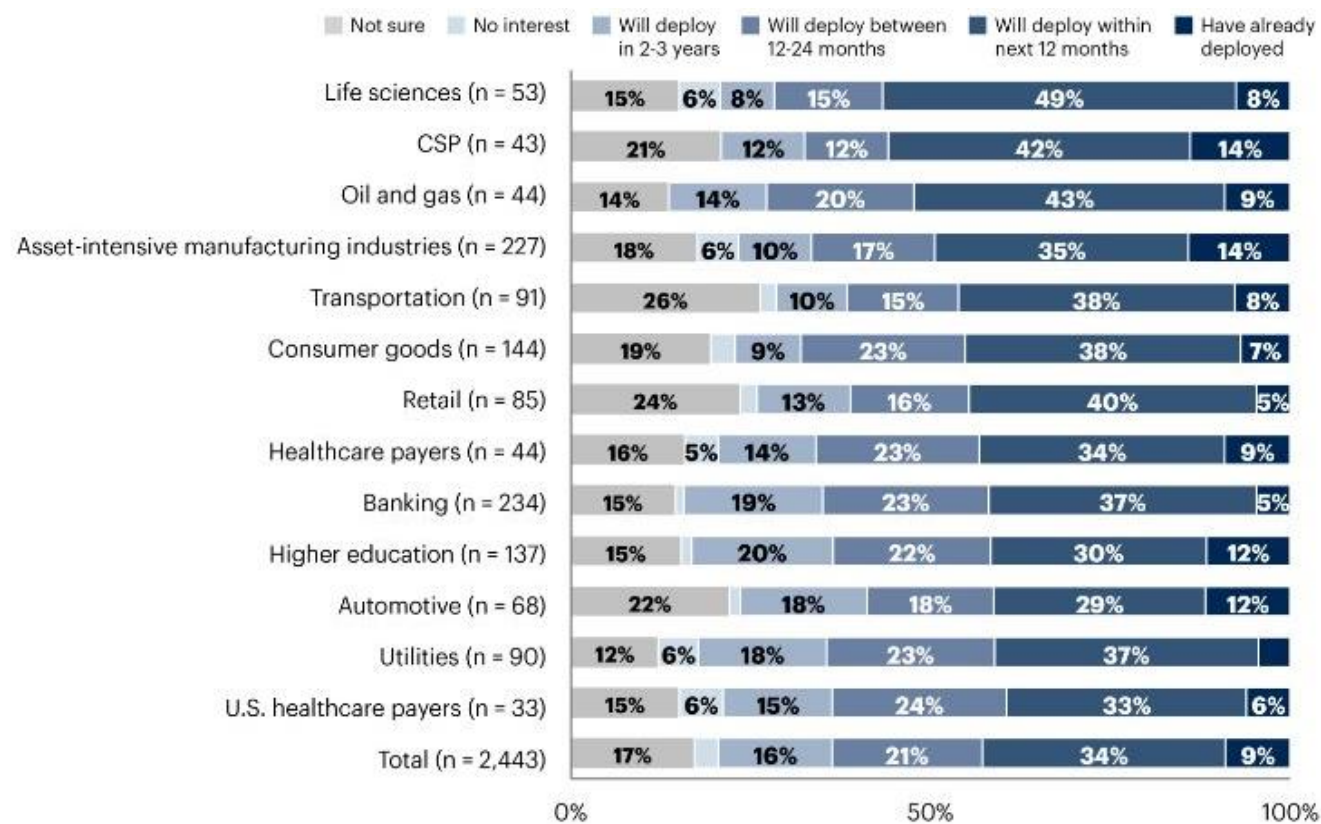
S2E, through its brand Galene.AI, focusing on innovative products to establish a solid and sustainable presence in the ethical and human-centric AI sector.



Increasing Adoption & Regulatory Pressure

Companies must swiftly **adapt to evolving standards** to avoid fines and reputational damage. **Adaptive compliance** is now a necessity.

GenAI Worldwide Adoption Rates by Industry



n varies

Q. What are your enterprise's plans in terms of the following digital technologies and trends?

Source: 2024 Gartner CIO and Technology Executive Survey

Note: The percentages do not equal to 100%. Percentages below 5% are not shown.

815044_C

Gartner



The AI Act enters into force

Cease all use of AI Systems with **Unacceptable Risk.**

Ensure **Transparency obligations** for **general-purpose AI** are met.

Implement **Operational Procedures** for **High-Risk AI Systems.**

Compliance with **sector-specific EU regulations** and standards.

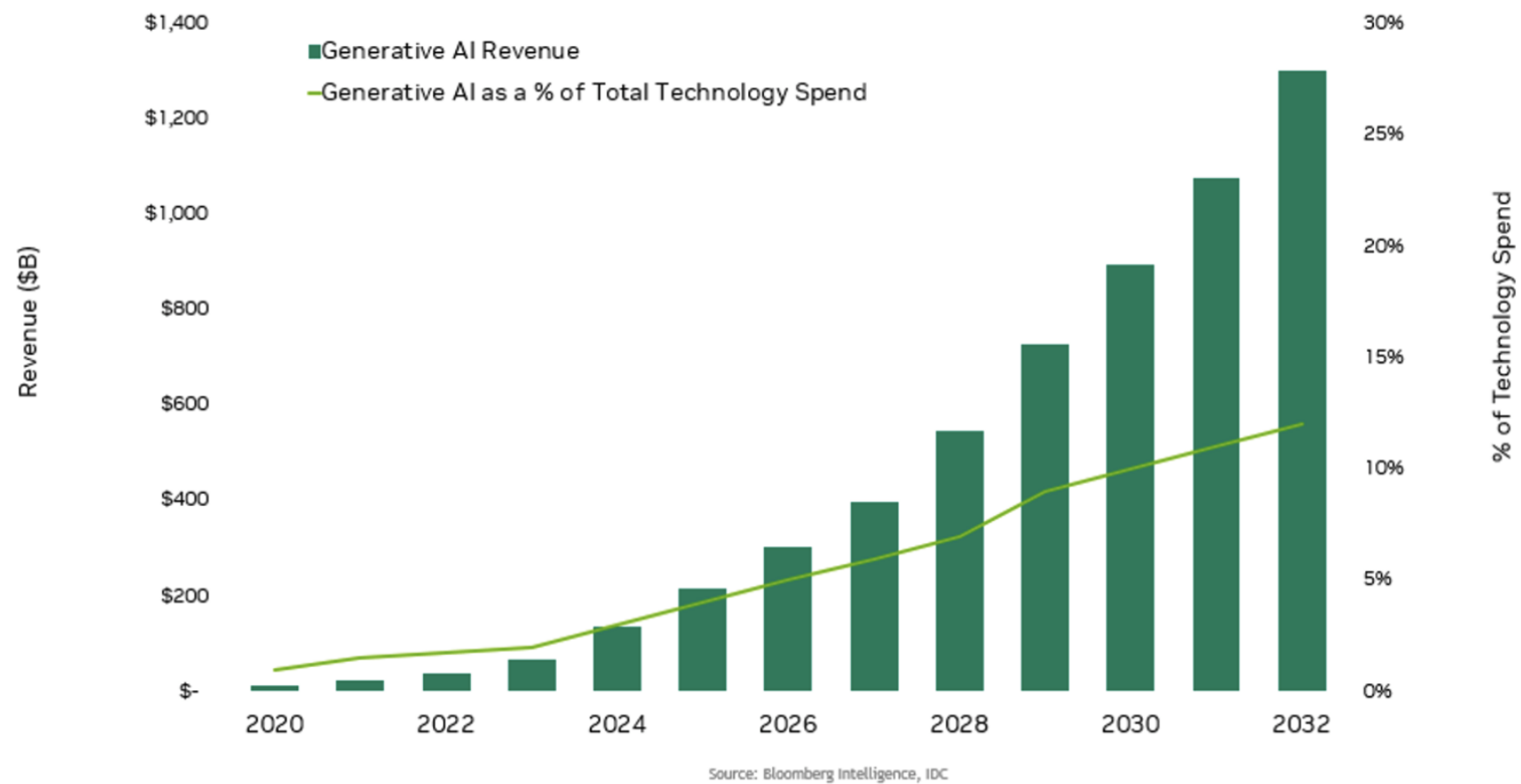
Compliance of **Grandfathered High-Risk AI Systems.**





GenAI: Driving Efficiency and Transformation

79% of the leaders expect GenAI to drive substantial transformation within their organization and industry over the next three years.



Source: Bloomberg Intelligence, IDC

% of Technology Spend



56%

Of enterprises are focused on improving efficiency and productivity



35%

Of enterprises desire to reduce cost



29%

Of enterprises wishes to improve existing products and services

Source: The state of Generative AI in the Enterprise, Deloitte 2024



Complexities in GenAI Projects Production

Development and deployment of production generative AI is a complex undertaking.



Transitioning from Pilot to Production

Over **80% of Enterprises** transition from pilot to production take more than half a year

Struggle With Complexity

It takes an average of **7.3 months** from pilot to production
Only 31% have AI deployed in production

Growing Adoption of Cloud

Key challenges in adopting generative AI: **data quality and availability, computational resources and security**



The AI Innovation Challenge



AI Act & GDPR Regulatory Pressure

As regulatory deadlines approach, companies face increasing pressure to comply with the AI Act's stringent requirements.



! With the upcoming regulatory deadlines **between 2025 and 2027**, companies struggle to align with the AI Act's compliance requirements.



Low Production Rates for AI Agents

Many AI agents fail to reach production due to inconsistent reliability, often lacking in precise, actionable insights.



! **24%** of large Italian enterprises have AI solutions in production. **58%** of Italian businesses face challenges in finding AI solutions that meet sector-specific needs.

Source: 2023, Report - Osservatorio Artificial Intelligence del Politecnico di Milano



Complexity in Infrastructure Efficiency

Hybrid infrastructures bring scalability potential but also complexity. Many companies face challenges in optimizing AI and ML operations.



! **80%** of AI practitioners cite lack of orchestration tools as a barrier to deployment. **70%** of companies report difficulties in scaling operations across hybrid environments.

Sources: 2024, Report - ClearML, FuriosaAI, AIIA "The State of AI Infrastructure at Scale 2024"; 2023 - ClearML "Machine Learning Infrastructure Survey"



Our Full-Stack AI Solution



**AI Act & GDPR
Regulatory
Pressure**



- Firewall
- Guardrails
- Penetration Test

Testing AI compliance and mitigating risks in real-time, aligning with AI Act and GDPR requirements.



**Low Production
Rates for
AI Agents**



- Agentic AI
- RAG 2.0
- Reasoning

Empowering reliable, sector-specific AI agents designed for precision and business impact.



**Complexity in
Infrastructure
Efficiency**



- HW Efficiency
- AI Models Orchestration
- Scalability

Optimizing hybrid AI infrastructures for scalability, efficiency, and cost-effectiveness.



Generative Shield



Recurrent Subscription
Simultaneous Responses



Recurrent Subscription
Annual Scans Available

The Compliance Guardrails & Scanner for AI Agents Built for AI Act Readiness



Definition of the Use Case &
Declaration of AI Act Risk Level



Data Governance Management
and GDPR adherence details

Acting as a **Firewall** for LLM models and AI Agents, it provides **Guardrails** to mitigate risks and performs **Penetration Tests** to ensure compliance and adaptability with evolving regulations.

Generative Shield Guardrails

Real-Time Risk Mitigation
for AI Interactions,
without performance impact.



LLM Agent



Risk Mitigation



Risk Mitigation



End Users

Cybersecurity &
Exploitability

Accuracy, Integrity, &
Sustainability

Ethical & Legal Compliance

Data Protection & Privacy

Generative Shield Scanner

In-depth compliance checks and
automated Reporting, ensuring ethical
and legal AI usage.



Solution tailored to meet
industry-specific and EU
regulatory requirements,
such as the AI Act.



Generative Pillars



Recurrent Subscription
Licensing & Support

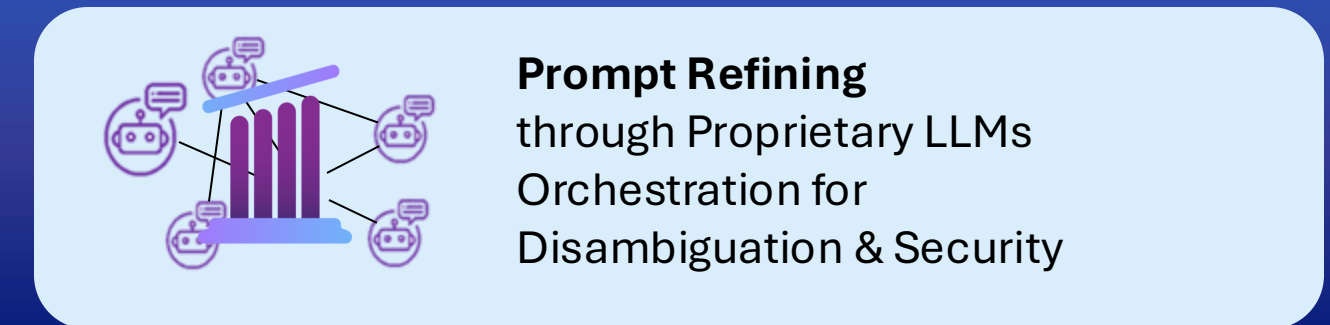


Una Tantum Fees
AI Agent Development

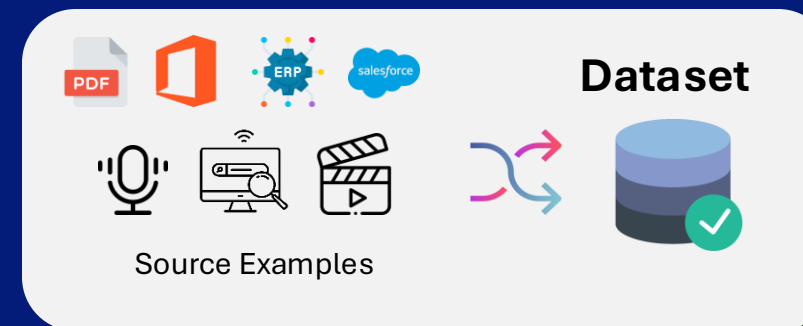
The Advanced AI Agentic Workflows Built to Your Needs



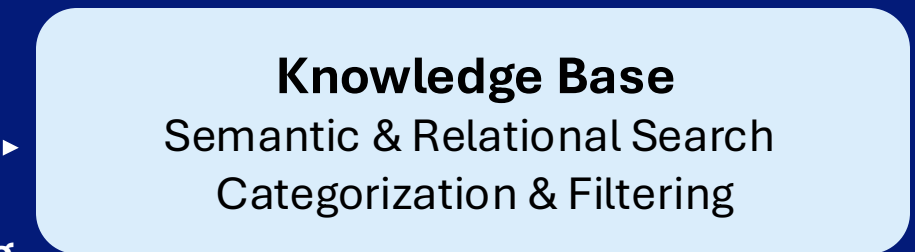
Prompt



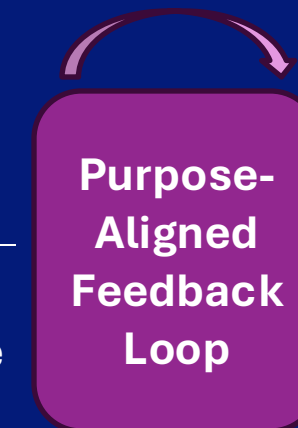
Information
Retriaval



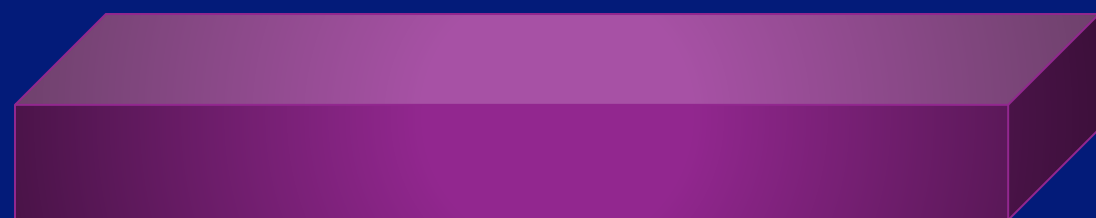
Data
Embedding



Context
Enrichment



Integrating **RAG 2.0** capabilities with advanced **Reasoning**, it orchestrates a cohesive workflow of specialized AI agents, delivering an **Agentic AI** system that ensures accuracy, reliability, and control.





Generative Nexus

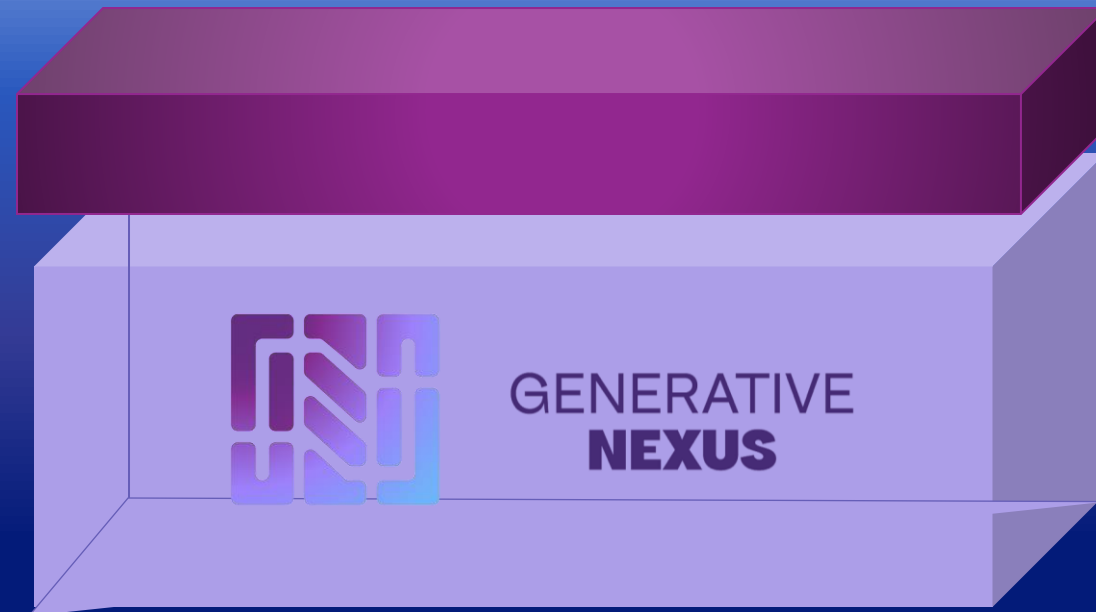


Recurrent Subscription
Maintenance & Support




Una Tantum Fees
Solutions Development

The Orchestrator for Hybrid Environments Built for Resource Optimization



 **Users Requests** 

 **GENERATIVE PILLARS** **AI Agents** Other AI Agents 

 **LLM Orchestration**

Cross-Platform Orchestration Requests are queued and distributed across all available inference infrastructures. When necessary, cross-platform auto-scaling optimizes resources according to the strategy.

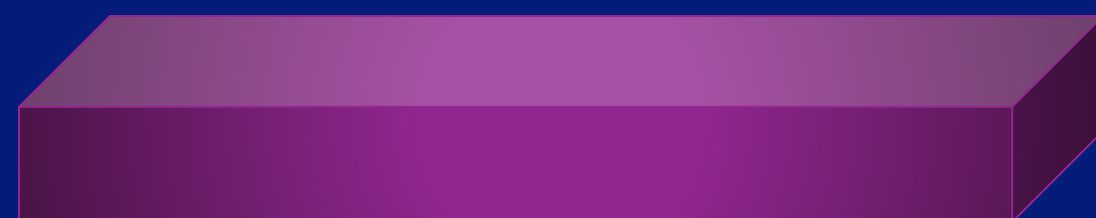
   **Cloud** **LLMs** **SaaS**   

On-Prem

 **Hardware Inference & Autoscaling**

Inference Optimization By fully leveraging hardware resources (GPU, CPU, VRAM, RAM), LLM models are orchestrated to maximize resources utilization, delivering high performance and cloud flexibility.

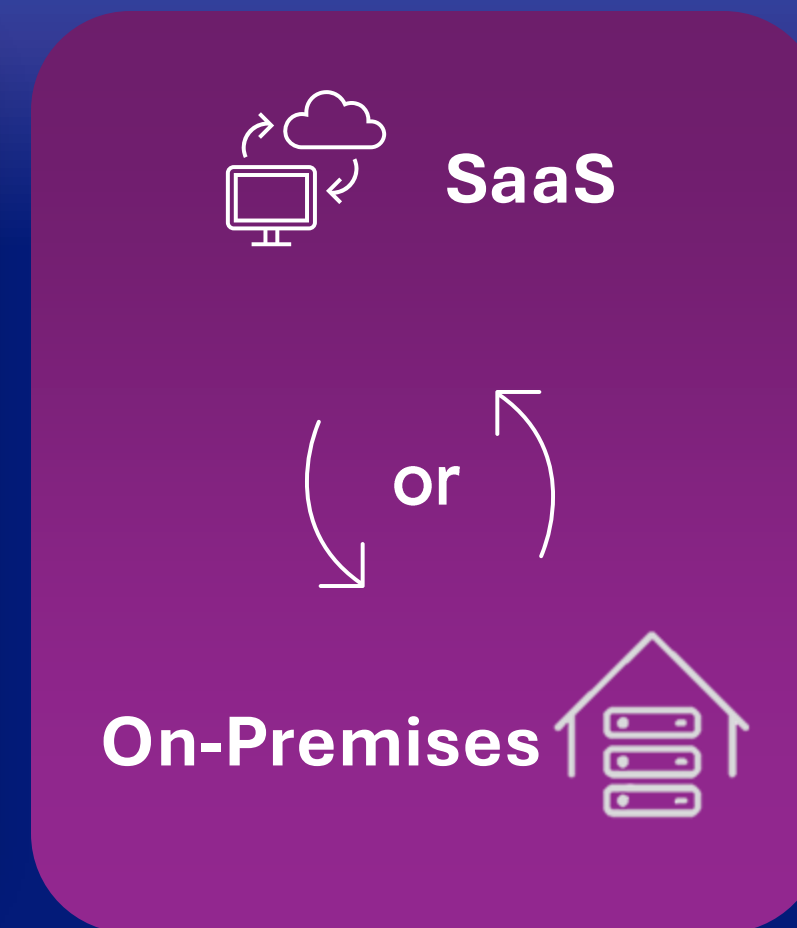
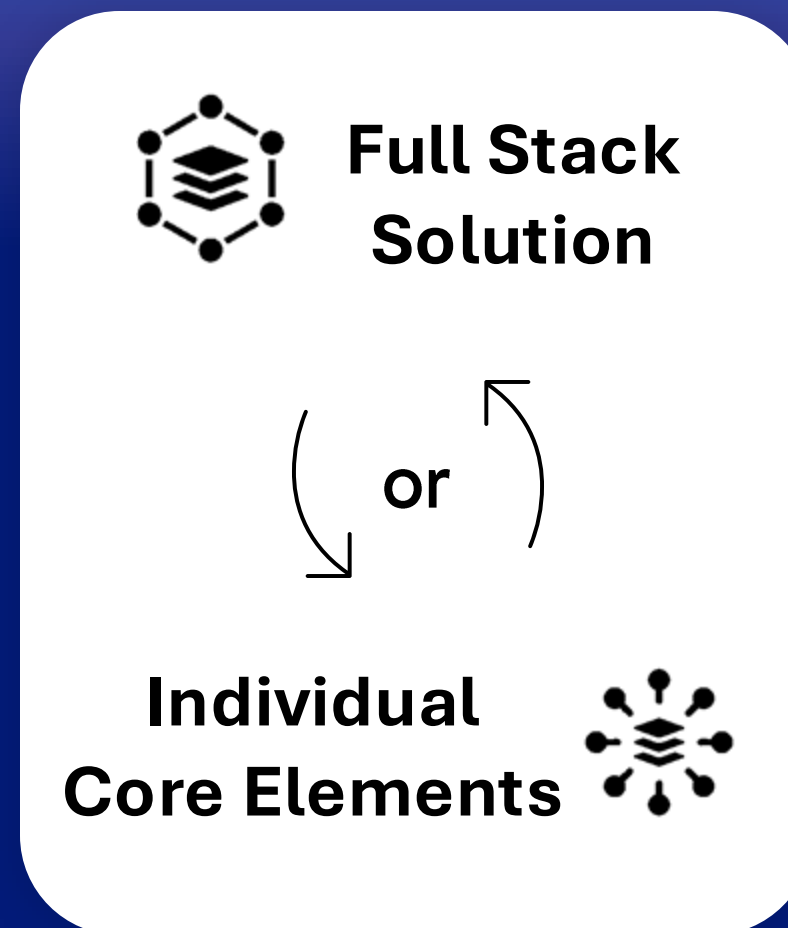
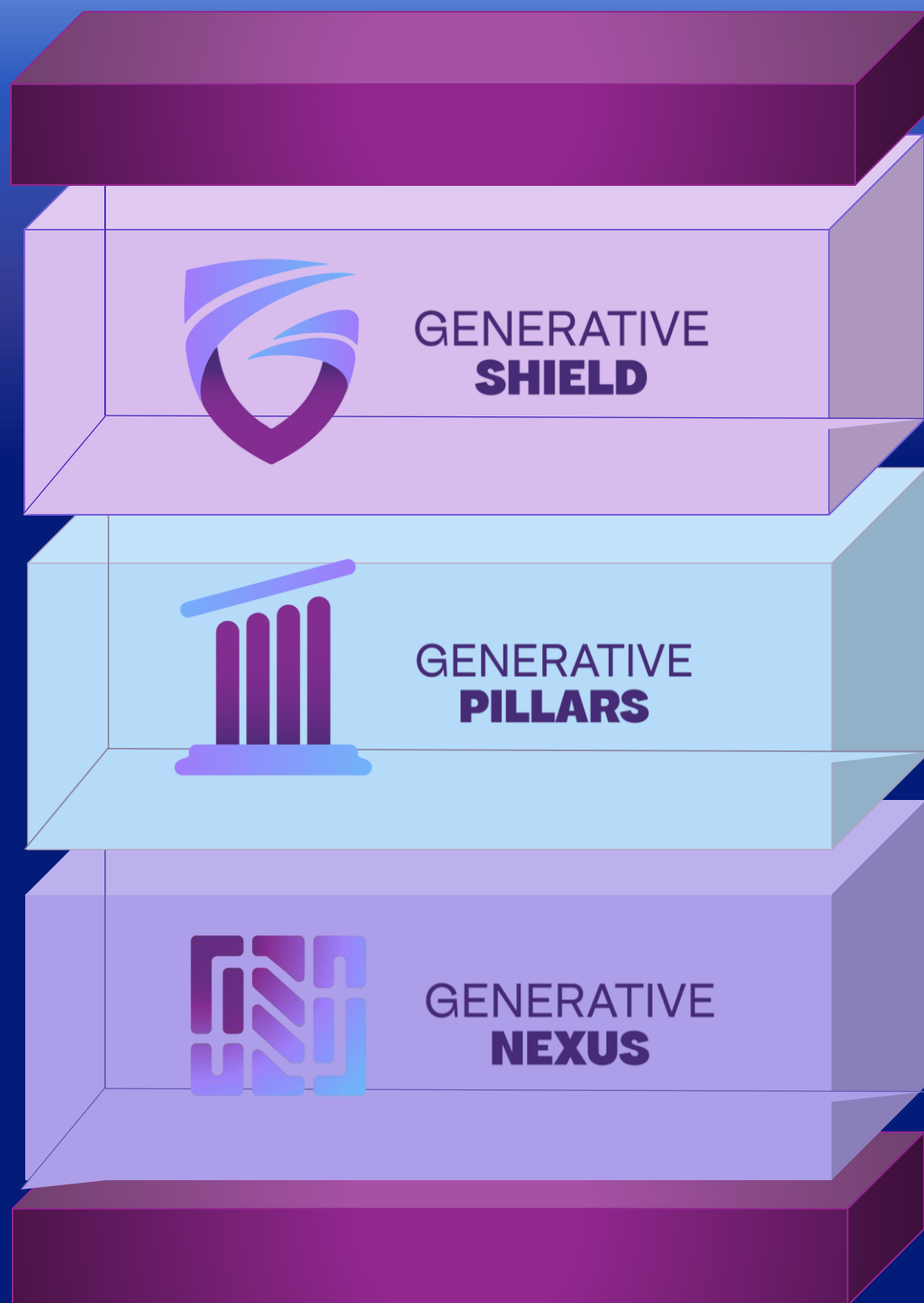
Optimizing **hardware efficiency** and seamlessly managing **AI model orchestration** across hybrid environments, for **security** and scalability.





Our Solution

A Flexible and Adaptive AI Solution



Galene.AI

Capabilities & Applications

AI Agents Applications

Galene.AI Capabilities

Text Agent:



Text Conversation
Web Search
Doc. Understanding
History & Context

Image Agent



Image Understanding
Image Generation

Voice Agent:



Voice Conversation
Voice Generation

Coding AI Assistants



Features: Refactoring, debugging, documentation, transpiling.

Integration: Compatible with VSCode and IntelliJ IDEA IDEs through dedicated API

Knowledge Base Agent



Features: accurate retrieving, context-driven responses using company data.

Supported Domains: Legal, PR, Sales, HelpDesk, IT Support.

Text-to-SQL Agent



Features: Translates natural language queries into SQL/NoSQL/Graph Query languages.

Applications: BI, data analytics, database administration.

Generic Agent



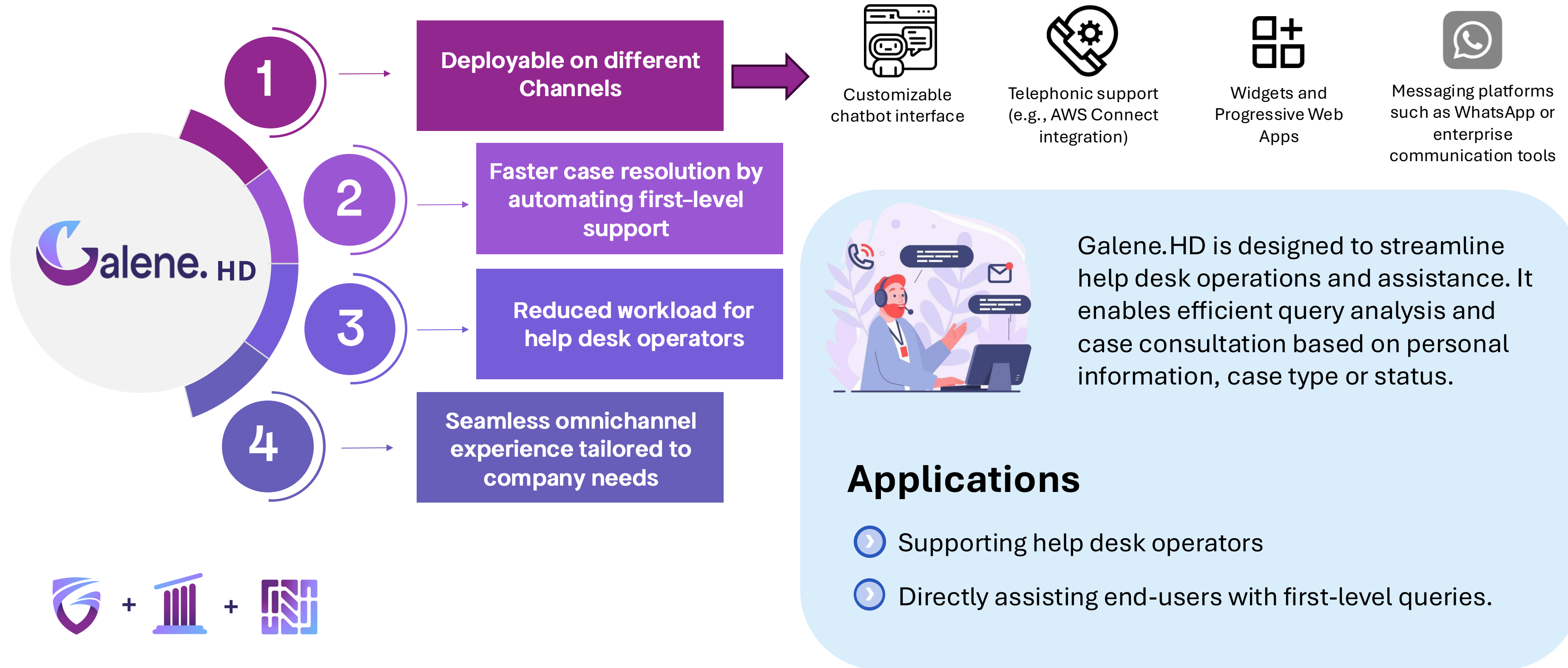
Features: Custom intent support. Tailored content generation.

Functionality: Multiple capabilities to address complex needs.

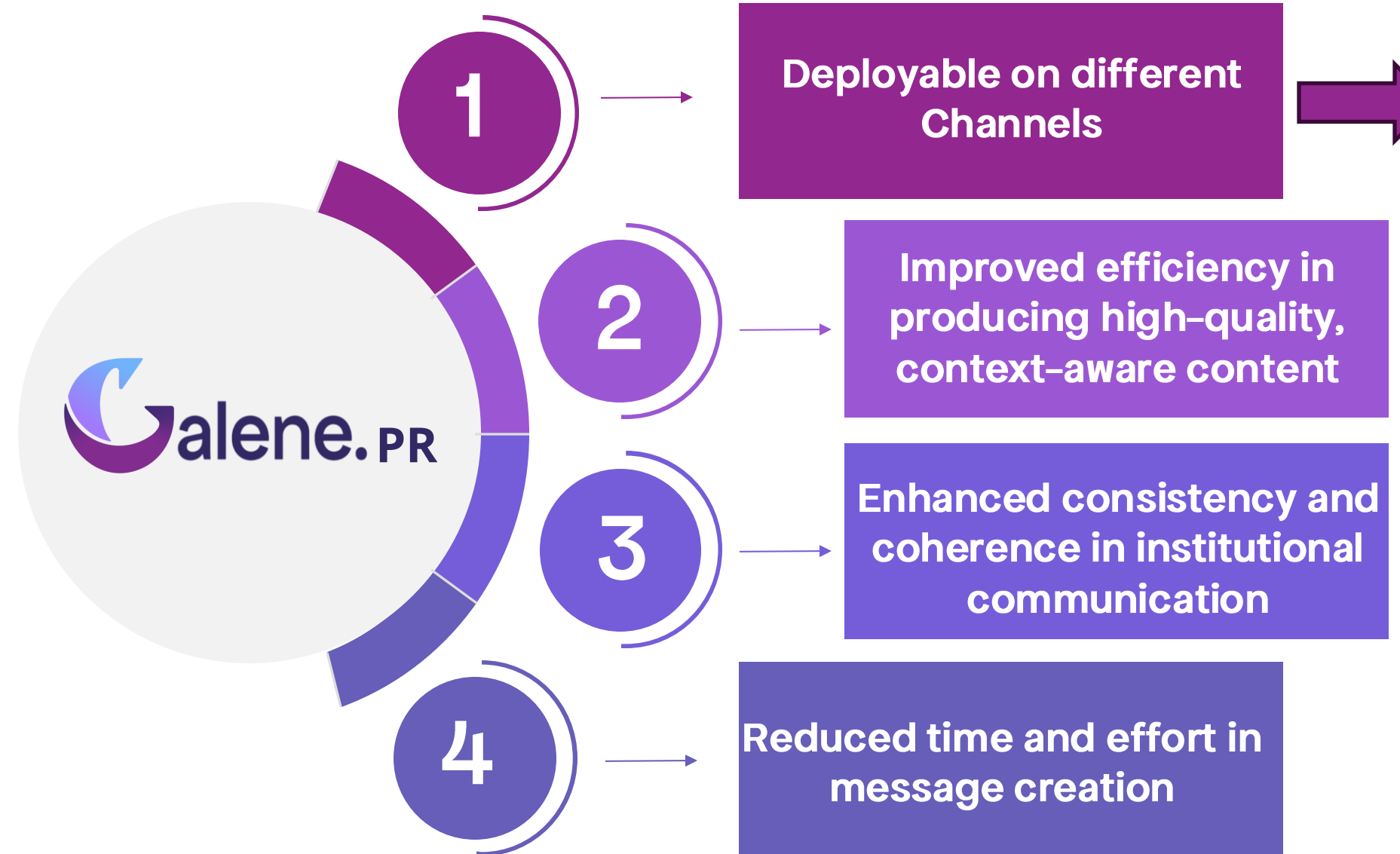
Tailormade Agents



Clients can request the develop of personalized AI Agents for industry and company-specific needs,



Galene.PR Public Relations



Customizable chatbot interface

Widgets and Progressive Web Apps

Messaging platforms such as WhatsApp or enterprise communication tools



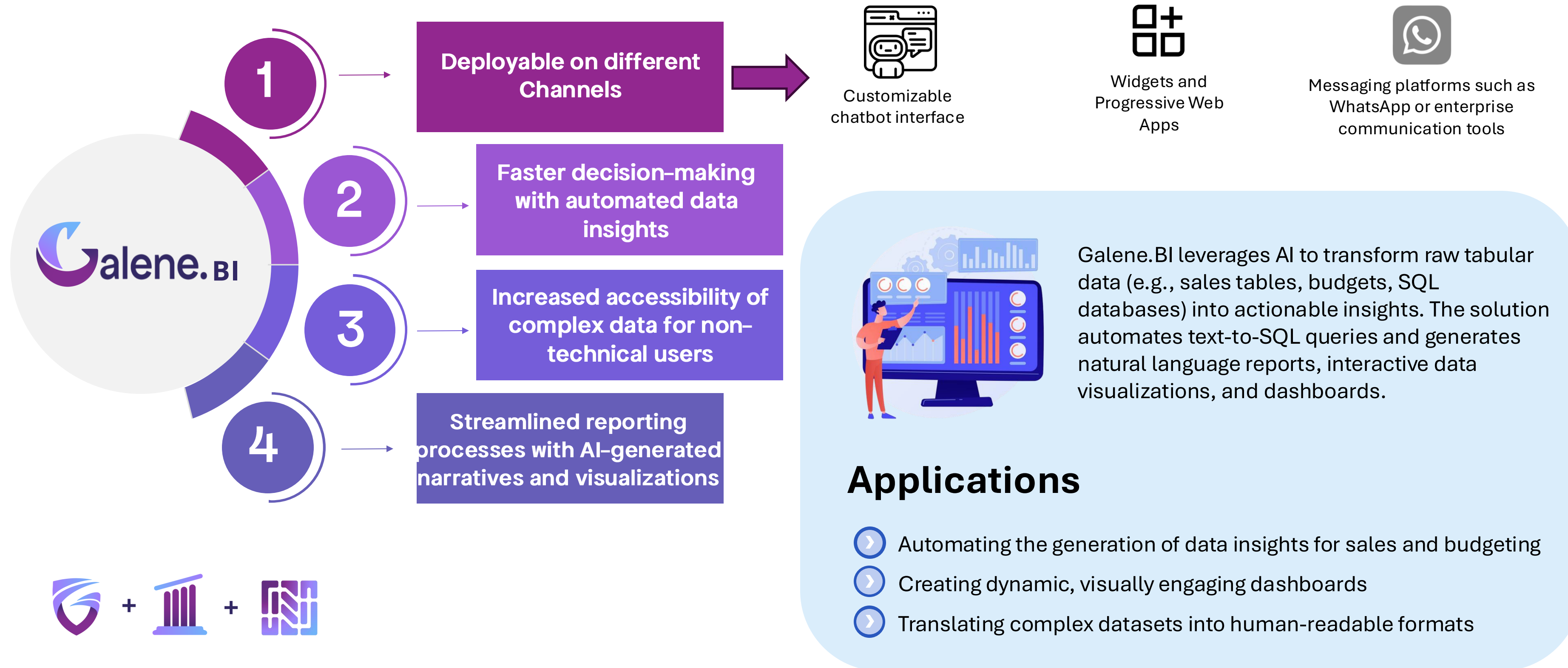
Galene.PA offers contextual and coherent support for public relations and institutional communication. Tailored for communication offices within central and local government administrations, the solution ensures consistent messaging aligned with the organization's dataset and context.

Applications

- > Drafting press releases and public statements
- > Supporting internal and external communications
- > Ensuring alignment with public policies and institutional tone



Galene.BI Business Intelligence



S o 2 E

business & technology consultants

Talk to Sales
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