

# Cloud Computing and Edge Technology Integration

[abacusgroup.io](https://abacusgroup.io)





# The Italian Market Landscape

Italy is embracing cloud and edge solutions to support smart cities, IoT applications, and 5G rollout.

However, challenges such as regulatory compliance and legacy system constraints remain.

## Cloud Adoption<sup>1</sup>:

In 2023, 77.6% of large enterprises in the EU (not just in Italy) used advanced cloud services.

## Edge Technology<sup>2</sup>:

The "Distributed Edge Cloud" segment in Italy is estimated to be worth USD 31.6 million in 2024, with a projected compound annual growth rate of 24.89% for the period 2025–2035.

<sup>1</sup>Source: Cloud computing – statistics on the use by enterprises – Eurostat

<sup>2</sup>Source: Market Research Future

77+%

24+%

# Challenges and Strategic Solutions

- 1. Data Sovereignty:**  
Ensuring compliance with GDPR while using global cloud platforms.
- 2. Integration Complexity:**  
Merging cloud and edge with legacy systems.
- 3. Scalability and Cost Management:**  
Balancing investments with measurable ROI.

Abacus addresses these challenges by delivering tailored, end-to-end solutions that minimize risk and maximize impact.

# Opportunities for Growth

- 1. Hybrid Cloud Models:**  
Seamlessly combining private and public clouds for optimal flexibility and security.
- 2. AI-Powered Edge Solutions:**  
Enhancing real-time analytics for smarter decision-making.
- 3. Industry-Specific Applications:**
  - **Manufacturing:** IoT-driven predictive maintenance.
  - **Retail:** Personalized customer experiences through localized data processing.



# What this means for your business

## CEO

Turn AI from experimentation into operational leverage with measurable ROI.

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Use data to differentiate your offer and strengthen competitiveness.

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Adopt impact metrics — efficiency, time-to-decision, customer satisfaction.

## CIO

Integrate AI systems with the IT backbone through MLOps and centralized governance.

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Ensure transparency and compliance under the AI Act and GDPR.

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Build a scalable roadmap: Make-or-Buy and continuous model management.

## CFO

Shift from CAPEX to OPEX through AI-as-a-Service models.

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Measure the profitability of automation and process efficiency gains.

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Link AI adoption to ESG goals — resource optimization and ethical data use.





## Why Partner with Abacus?

Abacus enables businesses to harness the full potential of cloud and edge technologies, ensuring scalability, cost efficiency, and real-time responsiveness.

### Our Four-Step Approach

- 1. ASSESSMENT**  
Identifying key areas for cloud and edge integration.
- 2. DESIGN**  
Crafting scalable, compliant solutions tailored to your business.
- 3. IMPLEMENTATION**  
Seamless deployment with minimal disruption.
- 4. OPTIMIZATION**  
Continuous monitoring and enhancement for long-term success.

### Key Capabilities

- 1. CLOUD MIGRATION SERVICES**  
Transition to leading platforms like AWS, Azure, and Google Cloud with minimal disruption.
- 2. HYBRID IT SOLUTIONS**  
Combine cloud and on-premise systems for flexibility and operational efficiency.
- 3. REAL-TIME EDGE COMPUTING**  
Process data locally to enhance responsiveness and support IoT applications.
- 4. MANAGED CLOUD SERVICES**  
Continuous monitoring and optimization to ensure high performance and cost-effectiveness.

### Results You Can Expect

Accelerated time to market for applications and services.

Enhanced data sovereignty and regulatory compliance.

Increased business agility with scalable infrastructure.



# Abacus Point of View

Cloud and Edge are no longer opposites, they are one continuum.

The real value lies in building an orchestrated hybrid architecture where data and workloads move freely based on latency, cost, and sovereignty. Abacus connects infrastructures and intelligence to deliver resilient, compliant, and cost-efficient ecosystems for the digital enterprise.

## Selected Use Cases

- **Hybrid Cloud for Financial Services**  
Data-sovereign architecture integrating private and public clouds for regulated workloads.  
**Result:** +25 % deployment speed | 100 % compliance.
- **Edge Analytics in Smart Utilities**  
Real-time processing at edge nodes for demand forecasting and fault detection.  
**Result:** -35 % latency | +20 % operational efficiency.
- **Cloud Ops Automation Platform**  
Unified control plane enabling predictive scaling and FinOps visibility.  
**Result:** -18 % TCO | 99.99 % uptime.

*Anonymized examples for illustration. For verified references, see our Case Studies on the website.*

## Conclusion

Abacus believes digital transformation in Italy will be led by those who make technology autonomous, ethical, and measurable. **Let's build that together.**

We bridge innovation and integration—connecting what technology can do with what people truly need. We build resilient digital ecosystems that enable businesses to thrive in complexity. One Abacus. Many Minds. One Vision.



# One Abacus. Many Minds. One Vision.

Do you want to use Cloud  
Computing and Edge Technology  
Integration to accelerate your  
company's transformation?

**Contact us!**



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