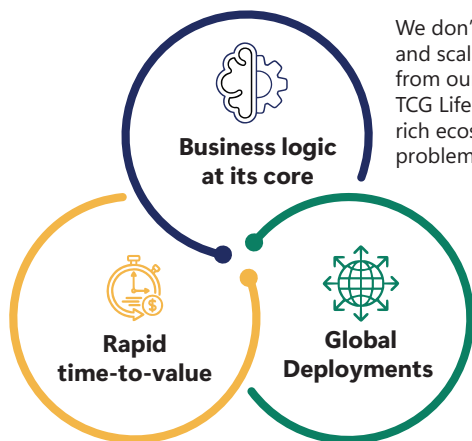# mcube™ for BioPharma: Optimizing Operations, Driving Higher Margins

In today's rapidly evolving bio-pharma industry, delivering high-quality drugs efficiently while maintaining compliance is a critical challenge. From managing variability in manufacturing processes, to addressing data silos that increase operational costs, these issues demand innovative solutions.

We are addressing these hurdles with mcube™ by TCG Digital, an advanced Data & AI platform designed to optimize operations, break down silos, and drive higher margins.

Why mcube™ for **BIOPHARMA**

Business logic at its core

We don't just understand technology - we've helped build and scale it. As part of TCG, we bring deep-rooted expertise from our Group companies LabVantage (leader in LIMS), and TCG Lifesciences (clinical research). mcube™ is built with this rich ecosystem - infused with business logic, and real-world problem-solving at its core.

Rapid time-to-value

Global Deployments

For leading biopharma companies like ADMA Biologics our expertise in regulatory, quality, and operational requirements in biopharma ensures we deliver value quickly and effectively.

With 'under-3-month' deployments

Trusted Results Text

KEY HIGHLIGHTS

- Predicting batch yield to increase profitability

- Optimized raw material usage – Optimizing high value plasma usage while maintaining consistent batch yields

- Real time monitoring and improvement of operational KPI – leading to proactive decision making

- Gen AI based enterprise search – mcube™ local LLM trained on specialized life sciences data, applying semantic modeling, and FAIRification to enhance productivity in enterprise search!

Results

- Over $1M in annual savings.

- 30% efficiency gains from automation and AI.

- Enhanced inventory visibility, enabling strategic forward planning.

Testimonial

With mcube™'s Generative AI predictors, we've unlocked new commercial opportunities and operational excellence.

Adam Grossman
CEO, ADMA Biologics

Features

Scientific Data Lakehouse

Scalable Data Lakehouse technology for efficient data centralization

Semantic Integration

A Contextualization using in-built semantic layer

AI 2.0 workbench

A powerful workbench that brings together AutoML, classical ML, multi-modal and advanced AI, robust MLOps to scale enterprise AI from exploration to production

Agentic AI Applications

Users can design intelligent, goal-driven agents that reason, act, and adapt autonomously

Data Integration & Governance

Comprehensive Data Integration and Governance for seamless data flow and compliance

Enabling citizen users

Low-code AI/ML workflows with access to 1000+ pre-built models

Flexible and Rapid Deployment

Cloud-agnostic architecture for flexibility in deployment

Let's Collaborate

Free Impact Assessment to evaluate your use case

Custom workshop to explore opportunities

Detailed demonstration of mcube™ tailored to your environment

✉ contact@tcgdigital.com

tcgdigital

mcube™
by tcgdigital

TCG Digital is the digital & AI arm of The Chatterjee Group (TCG), a multi-billion dollar conglomerate with a diverse portfolio in Pharmaceuticals, Biotech, Petrochemicals, and Real Estate across the US, EU, and South Asia. Our umbrella includes companies such as LabVantage, Lummus Technology, and TCG LifeSciences. At TCG Digital, we are driven by our mantra of delivering "Velocity to Value", helping enterprises transform faster and smarter. Our AI Analytics platform tcgmcube is at the heart of these transformations. We enable organizations unlock the full potential of their data, and by seamlessly integrating AI/ML capabilities into their business processes, we empower businesses to accelerate their digital transformation journey, enhancing agility and driving impactful results.

www.tcgdigital.com

mcube™ is TCG Digital's flagship Data, AI and Analytics platform. Built with a domain driven design at the cross-roads of industry knowledge and digital prowess, our architecture is designed to handle the most disparate data landscapes with AI 2.0 being at the heart of it combining powerful and advanced models to solve the most complex business problems. The platform integrates mcube.ai and mcube.data, delivering AI capabilities and data management seamlessly through unified platform services.

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