



# Empowering Digital Transformation in Pharma

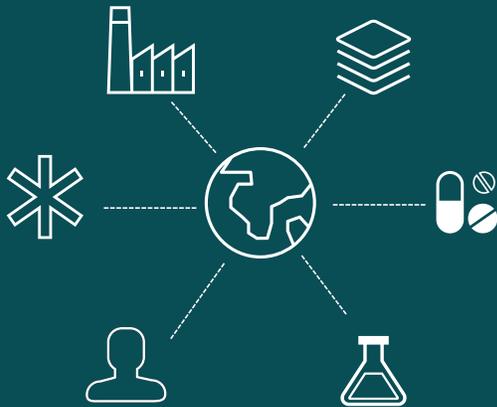
Product Lifecycle Management Technology for  
Pharmaceutical Companies & CDMOs

## About Neo PLM

Pioneers in Digitizing  
Process  
Manufacturing

Neo PLM was founded in 2011 by pharmaceutical industry veterans with a legacy of advancing process manufacturing technology. The Neo team has collaborated on innovative software solutions for pharmaceutical companies and contract manufacturing organizations for more than 30 years.

Over a decade ago, the team developed the first integrated digital process PLM solution as a custom application for one of the world's largest pharmaceutical companies. Today, Neo provides digital PLM solutions for leading process manufacturers at sites across the globe.



# Welcome to the Future of Pharmaceutical Manufacturing

Drug manufacturing has never been more competitive or complex. Supply chains are now globally distributed. New pricing pressures are shrinking margins. Regulatory scrutiny has intensified. Then there is the industry-wide shift toward patient-centered medicine.

In this challenging environment, the industry's traditional document-based approaches to managing product knowledge and manufacturing are unsustainable. They depend heavily on laborious, error-prone manual tasks while trapping critical business data in disparate silos. This is not only inefficient, but impedes collaboration and makes timely data analysis difficult—if not impossible.

Neo is ushering in a new era with our unique and innovative product lifecycle management (PLM) suite. This industry-first technology is the only platform to connect systems and stakeholders across the pharmaceutical product lifecycle.

The patented Neo suite digitizes every phase of pharmaceutical manufacturing—from process definition to systems configuration to data extraction for analysis—empowering you to:

- Centralize product and process knowledge
- Eliminate manual processes
- Gain new efficiencies
- Automate Continuous Process Verification (CPV)
- Streamline and enhance tech transfers
- Improve quality control – even for outsourced production
- Simplify compliance
- Minimize time to market
- Maximize productivity

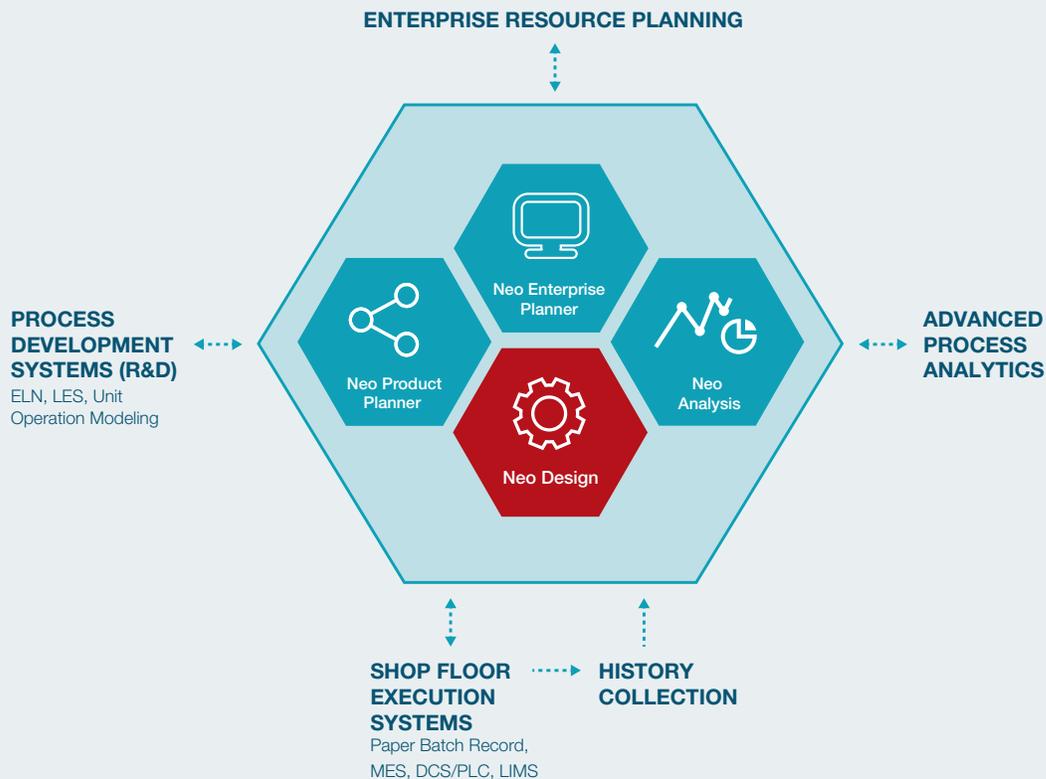
## SOFTWARE SUITE

# Modular Technology Centered on Digital Process Design

Computer-Aided Design (CAD) sparked a revolution in the discrete industries by enabling manufacturers to create a comprehensive digital definition of the product, providing the foundation for digital PLM. However, pharmaceutical companies and other process manufacturers remain mired in documents and manual tasks, largely because they've never had a CAD-like application to enable digital PLM. Until now, that is.

That application is Neo Design—the groundbreaking technology at the heart of our digital PLM solution, and the module that powers the other three in our suite: Neo Product Planner, Neo Enterprise Planner and Neo Analysis. The system's modularity allows you to take a phased approach to digital transformation. Together, the full suite represents the first PLM solution to unify the pharmaceutical product lifecycle around a robust digital definition of the end-to-end manufacturing process.

*Neo's digital PLM suite sits between your existing systems as an integration layer, connecting every step in the product lifecycle and closing the manufacturing loop.*





## NEO DESIGN

Industry's most advanced process design tool, creating a digital twin of the manufacturing process and providing a highly structured knowledge management framework.

- Delivers faster, more accurate, right-first-time designs through comprehensive modeling based on site-specific equipment parameters.
- Generates shop-floor instructions and other outputs that import directly into your existing systems.
- Enables true process PLM and provides the foundation for digital transformation.

## NEO PRODUCT PLANNER

Planning environment for one product, providing a high-level view of your end-to-end manufacturing process.

- Allows you to easily evaluate multiple manufacturing scenarios for a product, comparing the impact of using different plants and equipment trains.
- Delivers at-a-glance visibility into all design parameters to quickly inform decisions and help you maximize production efficiency.

## NEO ENTERPRISE PLANNER

Enterprise-wide planning tool, uniquely tailored for the planner in a multi-product, multi-plant environment.

- Helps you quickly select the optimal production route based on a particular set of requirements.
- Instantly identifies potential shop-floor conflicts and synergies, and recommends manufacturing options to maximize cost efficiency and capacity utilization.

## NEO ANALYSIS

Completely digitizes batch record reviews, integrating with shop-floor systems to continuously collect execution data and compare it against the process design.

- Automatically determines whether any constraints were violated during batch execution, including a unique ability to detect processing gaps and unexpected departures from the processing sequence.
- Enables near-real-time batch review by all plant personnel while eliminating manual tasks usually associated with data extraction, cleansing and transformation.
- Offers the ultimate in CPV capabilities and enhances tech transfer by allowing the receiving site to "replay" real-world batches.



# The Time Is Now for Digital Transformation

Neo's PLM suite represents a fundamental shift in the pharmaceutical manufacturing paradigm—from document-based and disjointed to digitized and interconnected. Antiquated processes are being replaced by new integrations and automations. Isolated databases and departments are now connected. The manufacturing loop can be closed.

In diverse production environments worldwide, Neo's PLM and digital transformation platform helps leading process manufacturers:

- **Enforce a “single version of the truth”** – removing data silos and uniting all stakeholders from late-stage research through manufacturing
- **Improve operational and cost efficiency** – eliminating laborious, error-prone manual tasks and informing better production planning
- **Ensure product quality in a distributed supply chain** – with contextualized production data, even from your CDMOs
- **Automate CPV and simplify compliance** – no more manual data extraction, cleaning and transformation
- **Streamline and enhance tech transfers** – accelerating the process, improving accuracy and increasing productivity
- **Free scientists and engineers to focus on truly rewarding work** – instead of document preparation

Ultimately, the Neo suite provides robust, timely, contextualized data to stakeholders throughout your organization—empowering knowledge-driven innovation across all core business functions.



Evolve your  
approach to managing  
the pharmaceutical  
product lifecycle with Neo's  
PLM and digital transformation  
platform.

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