



## Powering Digital Design-Based Process PLM

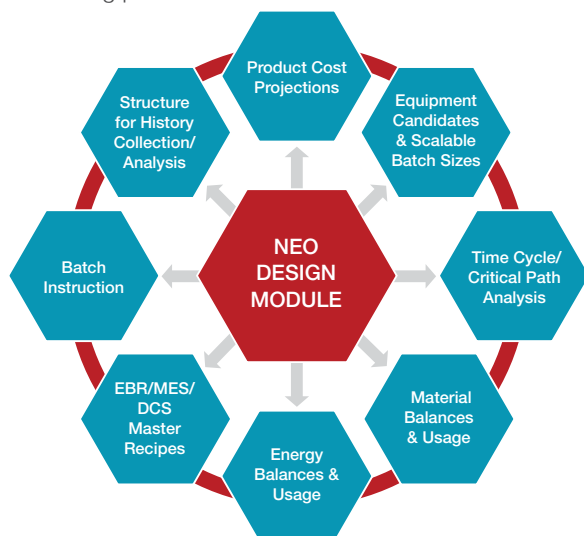
This multi-dimensional module forms the core of the groundbreaking Neo PLM suite. On one level, Neo Design is the industry's most advanced process design tool. The module also integrates with your existing business management and manufacturing systems, automating many processes that are extremely laborious today.

Most importantly, Neo Design delivers a comprehensive digital framework for maintaining all product and process knowledge. Information typically compartmentalized within different documents and departments is transformed into an interactive digital model that provides a "single version of the truth" for all stakeholders. It is this innovative approach to knowledge management that drives the first digital design-based Product Lifecycle Management (PLM) solution for pharmaceutical companies and other process manufacturers.

### Improving Processes Across the Product Lifecycle

#### Delivering Faster, More Accurate, Right-First-Time Designs

In late-stage drug development, this module allows scientists to complete a digital engineering design for each step in the manufacturing process.



A powerful simulation engine models the behavior of all process actions in chronological order. Designs cannot be completed and derived until they are fully validated based on site-specific equipment capabilities.

#### Automating Manual Processes & Increasing Productivity

Once the process is built, Neo Design automatically generates a range of outputs to facilitate business planning and manufacturing operations. This frees your scientists and engineers to focus on exploiting their ingenuity instead of creating documents. At the target manufacturing site, the resource-intensive and error-prone work to write manufacturing execution system (MES) and distributed control system (DCS) recipes is virtually eliminated.



Neo Design streamlines critical business activities including:

- Process validation – from process design to product inspection
- Process design evolution – throughout the product lifecycle, from research through commercial manufacturing
- Process tech transfer – between sites and to CMO partners



## Streamlining Process Improvements & Tech Transfers

Neo Design provides user-friendly access to design history by tracking process improvements and equipment-related adjustments. The module also guides users through process transformations driven by scaling, process enhancements and differences in site-specific equipment capabilities.

## Enabling Continuous Process Verification (CPV)

After a batch is manufactured, the process design provides the structure for the collection and analysis of execution data in the Neo Analysis module. This rich design context greatly accelerates batch review, making it much easier for the quality function to verify that processes are operating within approved limits.

## Multi-Level Design Continuum

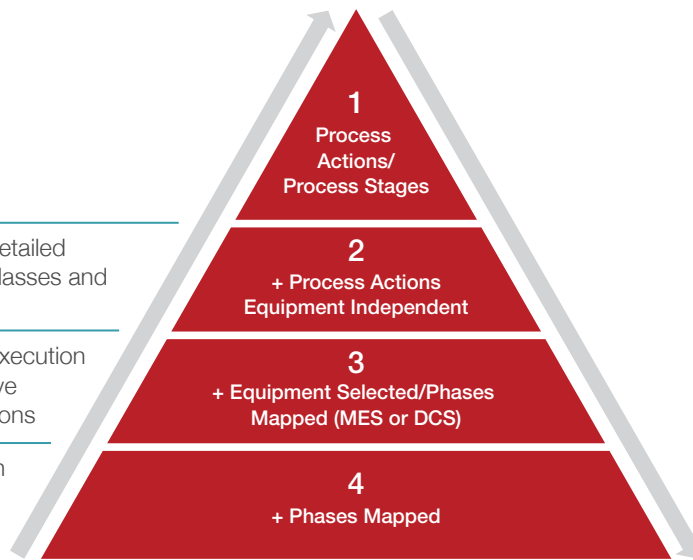
Neo Design supports a hierarchy of designs. As designs move from one level to the next, the module automatically transfers process data as well as regulatory and quality constraints, substantially reducing transcription work and errors.

**General Design** – models a research process independent of site data

**General Master Design** – defines a more detailed process that leverages generic equipment classes and requirements

**Master Design** – configured for a facility's execution system, where site-specific local phases drive generation of a recipe and operator instructions

**Control Recipe** – drives error-free execution and provides the breadcrumbs to correlate batch records with the master design



Start centralizing product knowledge management and streamlining activities across your organization with the first digital design-based process PLM solution.

Call (203) 292-1835 or visit [neoplms.com](http://neoplms.com)

