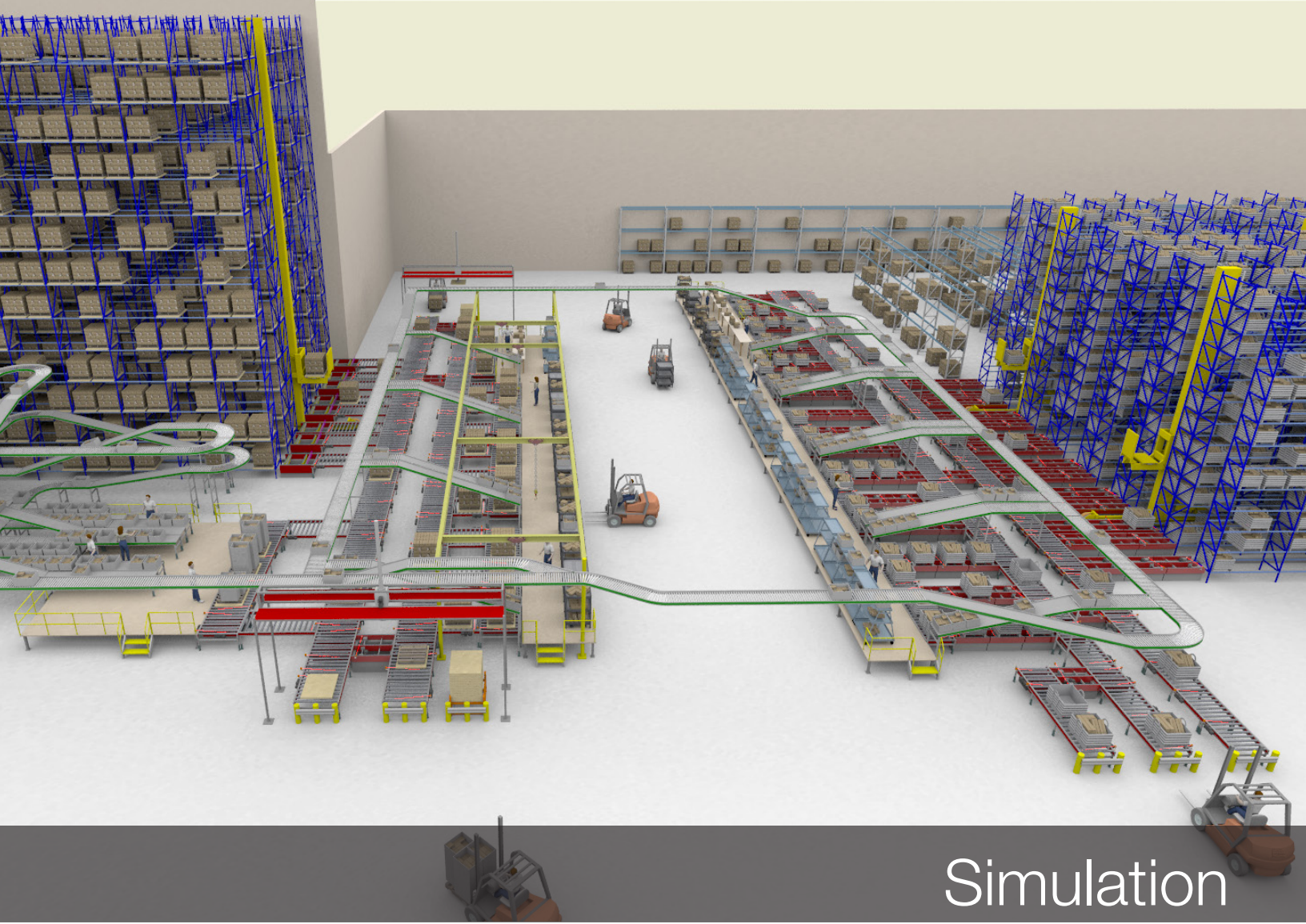


We **Optimize** Your Supply Chain

DEMATIC



Simulation

VALIDATE SYSTEM DESIGN

Analysis Using Simulation Modeling

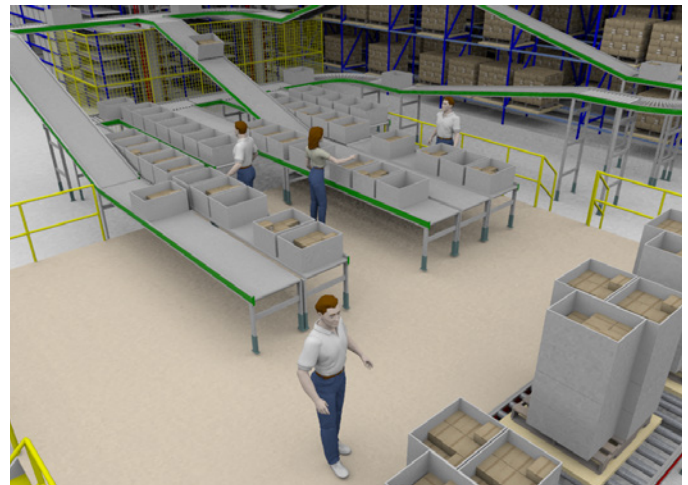
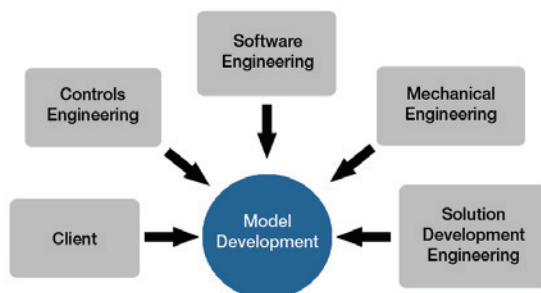
TESTS, REFINES, AND IMPROVES SYSTEM DESIGN



Would you buy a car without a test drive; so why implement a new logistics system without testing it? With computer simulation modeling software you can do just that: test drive your factory, warehouse or distribution center operation before finalizing the system design. When test driving a new car, you select the route you travel based on the features of the car that you want to exercise. Similarly when constructing a simulation model, the 'route' is selected depending upon the objectives of the study.

Simulation models are a powerful communication medium. They can range from basic simulation animations that illustrate the strategic differences between optional concepts to complex models that demonstrate details such as how alternative recirculation and gridlock schemes impact throughput or the impact of SKU slotting on the required pick staffing.

The experience of Dematic's Simulation Consultants in manufacturing and material handling is unparalleled in the consulting industry. They excel at system analysis and developing valid system models, ensuring that the system meets your strategic business goals.



“The system designs we recommend are backed by a thorough analysis”

Mike Khodl

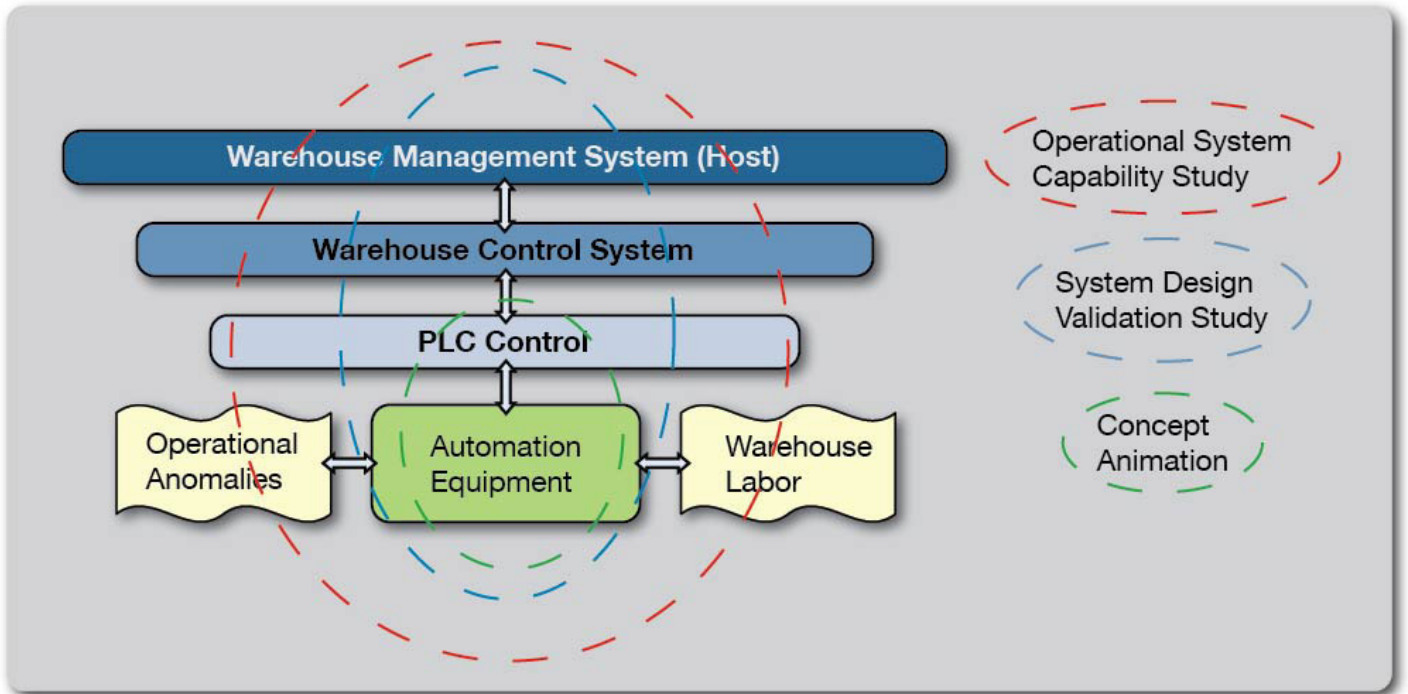
VP Solution Development



BENEFITS OF USING SIMULATION

- Ensures that the system will meet strategic goals
- Validates the recommended system design
- Uses actual order data to verify system throughput
- Facilitates understanding of operations
- Allows comparison of different configurations
- Visualization method for evaluation and training
- Identifies system bottlenecks
- Tests various operational methodologies
- Provides an ability to ask “what if?” questions
- Verifies staffing requirements
- Allows the evaluation of system design changes against a baseline
- See the system before it is built

SIMULATION SERVICES TAILORED TO MEET YOUR PROJECT OBJECTIVE



SIMULATION MODEL OBJECTIVES:

- Evaluate material handling layout & performance
- Validate controls & software configuration
- Test operating plans: schedules, staffing levels, order management

TYPICAL SIMULATION SCENARIOS:

- Quantify throughput capacity
- Compare alternate system designs
- Vary system parameters & observe results
- Determine storage buffer size
- Determine AGVS fleet size
- Analyze goods to person station rate performance
- Confirm conveyor accumulation capacity
- Observe affects of peak load on system

OPERATIONAL SYSTEM CAPABILITY STUDIES

Optimize the operating plan and quantify the impact that operational anomalies have on system performance; understand the staffing requirements necessary to achieve the desired system performance.

SYSTEM DESIGN VALIDATION STUDIES

Refine layout, software and high-level operating plan; determine whether the systems and system controls can sustain the designed rate when the equipment is unconstrained by equipment failures and other system anomalies. Understanding system capability allows you to better manage your facility during peak volume periods.

CONCEPT ANIMATIONS

Visually demonstrate the proposed system functionality; valuable in communicating the intricate layout of a system.

