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# Digital twin in the Glass Manufacturing Industry

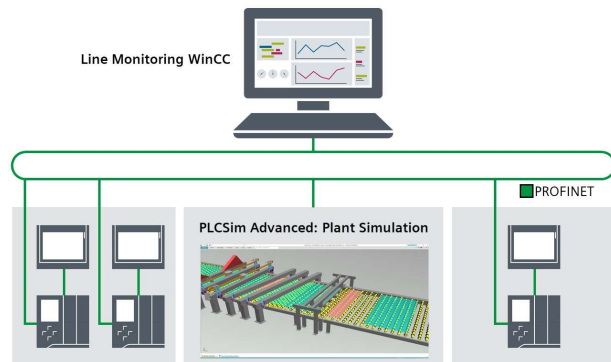
Simulate, visualize, manage and control production systems and logistics processes.

## The challenge

In times of increasing cost and time pressure in production as well as advancing globalization, logistics has become a key factor for the success of a company. The need to deliver on time and in sequence, introduce lean production principles, plan and build new, sustainable production facilities and manage global production networks requires objective decision criteria that help management to evaluate and compare alternative.

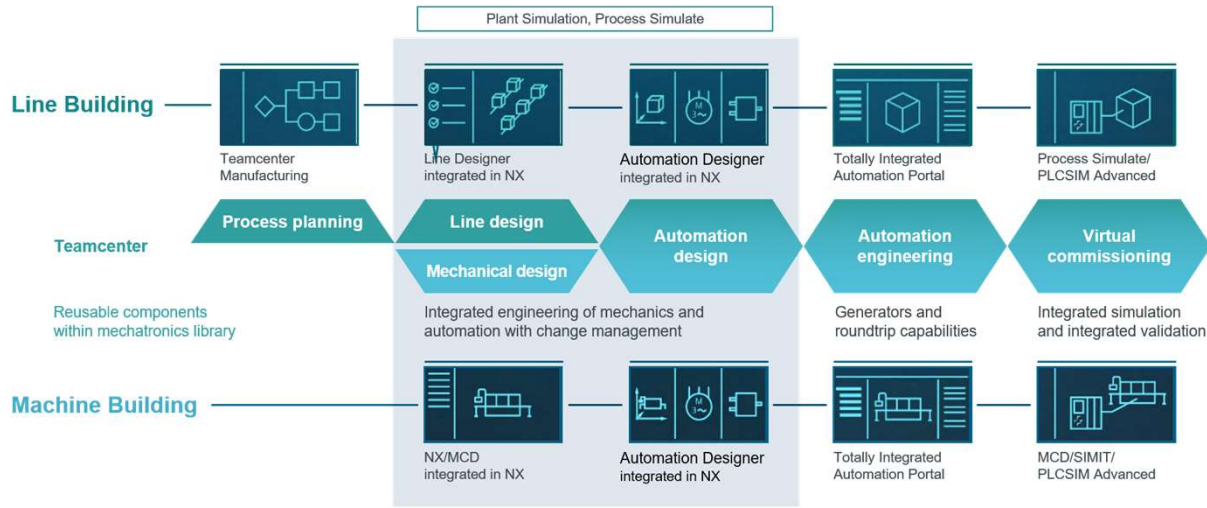
## The solution

With Tecnomatix Plant Simulation you can create a digital model of your production systems and logistics processes. This allows you to examine the system properties and optimize your performance. The digital model not only allows users to conduct experiments and what-if scenarios without disrupting an existing production system, but it can also be used in the planning process long before the real system is installed. Extensive analysis tools, statistics and diagrams enable users to evaluate different production scenarios and make fast, reliable decisions in the early stages of production planning. Object-oriented architecture and powerful modeling capabilities allow you to create and maintain highly complex systems, including advanced control mechanisms. This allows you to create a well-structured picture of production buildings, lines and processes.



Tecnomatix Plant Simulation with PLCSIM Advanced is the powerful combination from Siemens to address a wide range of different applications in virtual commissioning. Automated production lines and material flow systems can be dimensioned and optimized.





 <p><b>Improved productivity</b> of existing facilities</p>	 <p><b>Reduced operating cost</b> through standardization</p>
 <p><b>Reduced inventory and shortened throughput time</b></p>	 <p><b>Optimized system dimensions,</b> including buffer sizes</p>
 <p><b>Lowered investment risk</b> through early proof of concept</p>	 <p><b>Maximized use of manufacturing resources</b></p>

Available Productportfolio	Additional Information
Tecnomatix	<a href="https://www.siemens.com/tecnomatix">siemens.com/tecnomatix</a>
TIA Portal	<a href="https://www.siemens.com/tia">siemens.com/tia</a>
CPU 1500	<a href="https://www.siemens.com/simatic-s7-1500">siemens.com/simatic-s7-1500</a>

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