

LEARNING FACTORIES

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INCREASING RESOURCE EFFICIENCY AND SUSTAINABILITY THROUGH EDUCATION AND TRAINING

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Dr. Thomas Lezama has been employed by Volvo Group since 2008 and has held position as specialist in virtual manufacturing and manufacturing data management, project manager responsible for RnD projects in the areas of virtual manufacturing, optimization and manufacturing execution, as well as several managerial positions. Dr. Lezama is currently Director for manufacturing research and advanced engineering with Volvo Group Trucks Operations. Before joining Volvo Dr. Lezama was a researcher and senior lecturer at University of Skövde.



The Volvo Group is one of the world's leading manufacturers of trucks, buses and construction equipment, drive systems for marine and industrial applications, and services. Founded in 1927, Volvo Group has approximately 110 000 employees today, production in 18 countries and sales activities in some 190 markets.

VIRTUAL TRUCK MANUFACTURING FOR LEARNING

Manufacturing execution systems (MES) are tools to achieve efficiency in many aspects of the production processes. However, MES concepts can be complex and hard to understand, and potentially stopping production plants from implementing such systems. This presentation will describe the work to create a robust and flexible learning demonstrator platform to make it easy to see and understand MES. The demonstrator can efficiently work as an educational tool for people who are not used to production and assembly. It also creates a constructive dialogue within the factory management.

Learning complex industrial systems by using a playful approach

