

## SimPlan optimizations supports Volkswagen Slovakia A:G within a project about digital factory



### Volkswagen

[www.volkswagen.com](http://www.volkswagen.com)

Volkswagen is a German automobile manufacturer headquartered in Wolfsburg, Lower Saxony, Germany. Volkswagen is the top-selling and original marque of the Volkswagen Group, the biggest German automaker and the second largest automaker in the world.

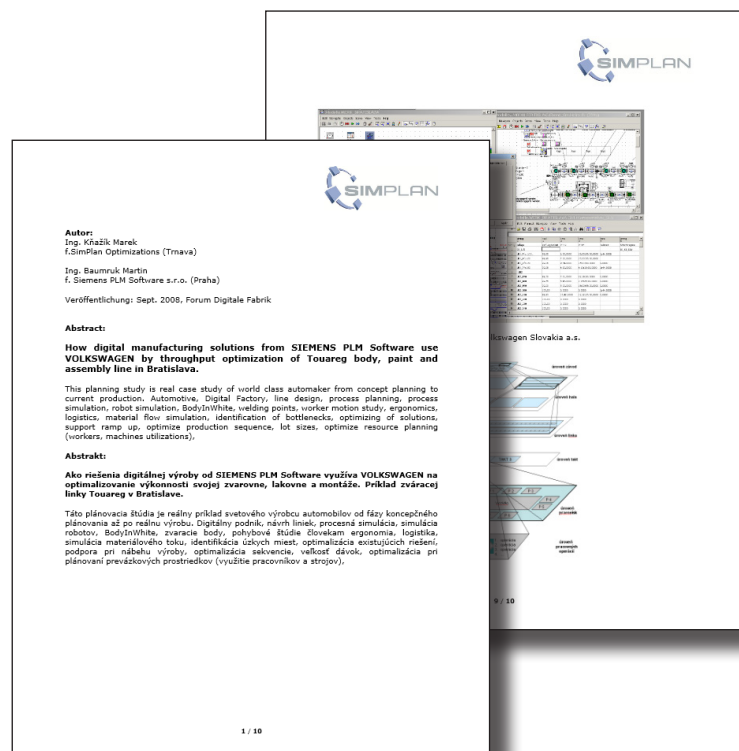
The study encompasses all the stages within the welding process at Volkswagen. Simulation is of paramount importance in such a process because enables to previously detect and eliminate problems that otherwise would have required costly and time consuming correction measures during commissioning; to minimize the investments, optimize and make robust complex systems with many parameters. With this purpose, there has been used a simulation-based software which has the main features Process Designer, Process Simulation Spot and Plant Simulation.

### Simulation and Forecasting Technology role

Timely detection and elimination of problems, to minimize investments, to optimize complex systems, process designer, 3D product data, process simulation spot, plant simulation, what-if scenarios.

**Sector**  
Automotive

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Case Study



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**Abstract:**  
How digital manufacturing solutions from SIEMENS PLM Software use VOLKSWAGEN by throughput optimization of Touareg body, paint and assembly line in Bratislava.

This planning study is real case study of world class automaker from concept planning to current production. Automotive. Digital factory, line design, process planning, process simulation, robot simulation, BodyInWhite, welding points, worker motion study, ergonomics, logistics, material flow simulation, identification of bottlenecks, optimizing of solutions, support ramp up, optimize production sequence, lot sizes, optimize resource planning (workers, machines utilizations).

**Abstrakt:**  
Ako riešenia digitálnej výroby od SIEMENS PLM Software využíva VOLKSWAGEN na optimalizovanie výkonnosti svojej zvarovne, lakovne a montáže. Príklad zvarovne linky Touareg v Bratislave.

Táto plánovacia štúdia je reálny príklad svetového výrobcu automobilov od fázy konceptného plánovania až po reálnu výrobu. Digitálny podnik, návrh liniek, procesná simulácia, simulácia robotov, BodyInWhite, zvarovacie body, pohybové štúdie ľuďom ergonomia, logistika, simulácia materiálového toku, identifikácia cieľových miest, optimalizácia existujúcich riešení, podpora pri nábahu výroby, optimalizácia sekvencie, veľkosť dávok, optimalizácia pri plánovaní prevádzkových prostriedkov (využitie pracovníkov a strojov).