



# Project „Flexible Assembly Processes for the Car of the Third Millennium (MyCar)“

## **Problem Description (High Level)**

New ergonomics evaluation toolkit

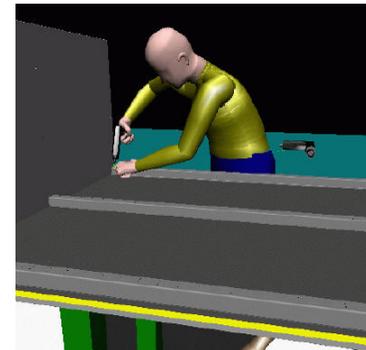


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## Digital Human Models

- Digital Human Models (DHMs) are software representations of humans
- DHMs are used to perform ergonomics analysis of complex manufacturing processes.



## Manual Assembly Workplace Design Needs

- Human task feasibility (e.g. collision detection).
- Efficient **analysis of ergonomic factors** in order to avoid injuries and safety problems.
- **Production time** minimization while considering fatigue, safety and health.
- **Reduce costs** related to injuries of human that perform assembly tasks.
- Keep the **operator flexible** by reducing health risks.
- Bring **human factors** assessment **early** in the design process in order to avoid costly changes at later stages.