

Bus-Expert-System for Dynamics Simulation, Design, and Quality Control

Fact Sheet

Project Information

Grant agreement ID: CP94-520


Funded under
IC-PECO/COPERNICUS

Start date
1 April 1995

End date
31 March 1998

Overall budget
XXXXXXXX ECU

EU contribution
XXXXXXXX ECU

Coordinated by
Technical University
Chemnitz/Zwickau
 Germany

Objective

The objectives of this project are to create guidelines for effective design and construction of buses, and to develop a bus expert design system with a graphical interface. Work will include:

development of a model of a bus including its components such as wheels, tyres, axles, engine, steering system, passenger cab, pantograph and passengers
computer simulations using the model for essential driving situations and conditions
experimental investigations on test beds for validation and optimisation of the computational results

determination of a suitable method to couple finite element mesh (FEM) data with data from multibody systems (MBS) in order to reduce FEM data computations and experimental investigations of stress spectra, properties of

materials and fatigue life estimation.

INFORMATION DISSEMINATION ACTIVITIES



Results will be used within partner organisations involved in bus design, and presented and demonstrated at regional, national and international exhibitions.

Programme(s)

Funding Scheme

CSC - Cost-sharing contracts

Coordinator

 **Technical University Chemnitz/Zwickau**
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Reichenhainer Strasse 88
09126 Chemnitz
 **Germany**

Participants (4)

 **Automotive Research and Development Company (AUTOKUT)**
 **Hungary**

 **Ikarus Special Coach Factory Ltd.**
 **Hungary**

 **Institute for the Analysis of Systems (INAS)**
 **Romania**

 **Skoda Research Pilsen Ltd.**
 **Czechia**

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