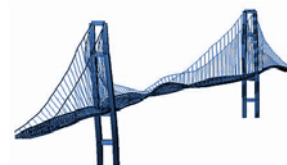


CABD – Computer-Aided Bridge Design

Project start January 2006

Funded by FFG – Österreichische
Forschungsförderungsgesellschaft mbH



Description

The design of bridge structures is often performed as an iterative process. The final structure is the result of an optimisation process with regards to its structural behaviour, cost and aesthetics. Bridge design engineers have developed traditional ways of thinking and working within this process according to their respective experiences and to the respective national design codes. Numerous discussions with international bridge design experts and the careful evaluation of international design codes have shown that this process is not sufficiently supported by commercial software products currently available on the market.

Within the present research project a software product will be developed which supports the described design process starting from the first conceptual draft all the way to the finished shop drawings. The new software product will aim at integration with existing software products rather than trying to compete with them. The necessary data interfaces will also be defined as part of this project.

ABES staff has great know how in the field of computer-supported bridge design and have also got access to numerous experts who have promised to support this research project.

