IFICUS — AN OPERATIONAL APPROACH TO HANDLE COMPLEX DYNAMIC FEEDBACK SYSTEMS

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A corporate model of a firm IFICUS (Institut für Informatik Computer-assisted Universal Simulation Model) has been developed. Problems that could be studied in a real world's firm in the health sector were modeled according to the philosophy of "system dynamics".

In the course of this work we found three weak points in classical industrial cybernetics; IFICUS eliminates these. The developed software techniques make it possible to put into operation managerial decisions in a given model structure by means of a dialogue version of the program. The proposed sensitivity model generator is a powerful program which allows an elegant mathematical analysis of continuous feedback systems simulation in a fully user-oriented way.