

---

# Libre Software Methods for E-Education

## **EDUKALIBRE**

**DFIU Activities**  
**at**  
**3<sup>rd</sup> project meeting**  
**Leeds, 10<sup>th</sup> – 11<sup>th</sup> December 2004**

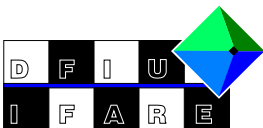
Dr. Jutta Geldermann, Isabelle Hubert, Martin Treitz, Prof. Dr. Otto Rentz

Institute for Industrial Production

French-German Institute for Environmental Research (DFIU)

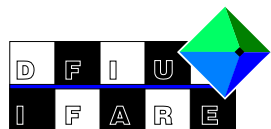
University of Karlsruhe (TH), Hertzstr. 16, D-76187 Karlsruhe, Germany

Tel:+49-721-608.4583 Fax:+49-721-758909 <http://www-dfiu.wiwi.uni-karlsruhe.de/>



# Activities of the Institute for Industrial Production between July and December 2004

- Testing phase of the groupware module and the conversion platform (before and after the release of the stable version).
- Discovery of the Wiki and the GISMO tools.
- Development of the concept of using open-source software in business games.
- Creation of the Moodle-based Seminar “Unternehmensplanspiel Umweltmanagement - Computer gestützte Fallstudien zur Standortplanung und Technologieaustattung” (Environmental Business Game: Computer supported case studies for location planning and technique assessment)
- 27. October 2004: Official start of the course. The Edukalibre platform is used as support to the seminar.
- 16. December 2004 and 20. January 2005: board meetings of the fictitious companies. In the course of the winter term, continuous use of the Edukalibre Platform.
- After the board meeting (end of January 2005): Assessment of the Edukalibre Platform by the different users (students and teachers)



# Group work in Corporate Strategic Planning Simulations (Business Games) in the Winter Term 2004 / 2005

## Concept of the Planning Simulations and Development of Questionnaire

### ■ Location Planning

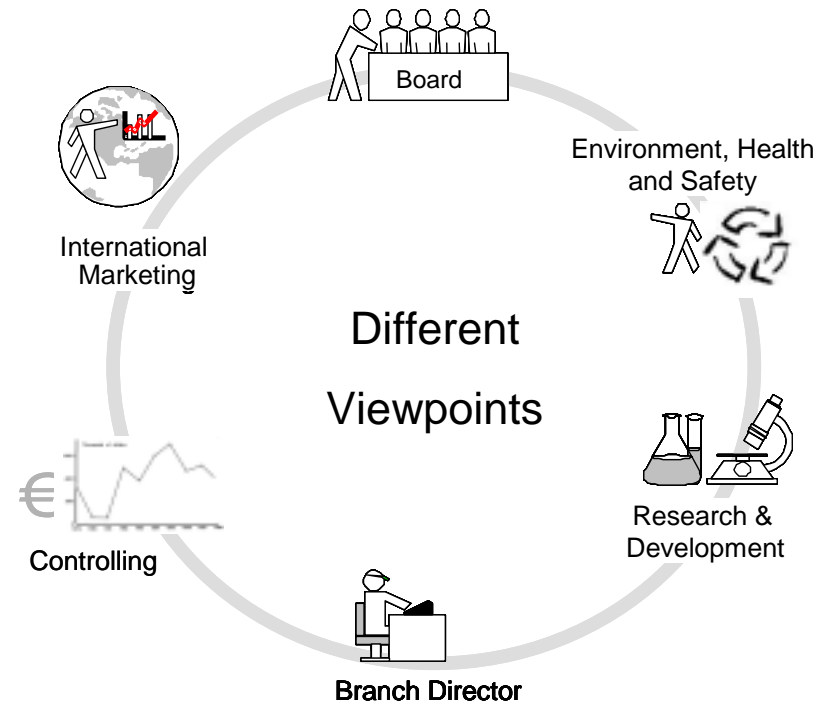
The groups should analyse and present the different key points of the company units (logistic, controlling, environment...) by means of a comprehensive analysis of the production chain in order to choose the location of the future production site of the considered company.

### ■ Technique Assessment

On the basis of the new location, the new plant has to be designed and planned using an integrated technique assessment (considering all the important issues for production, environment, controlling). This assessment will have to consider economic issues, life-cycle assessment (Umberto-software), etc...

### ■ Questionnaire: Use of Software Support

Students and Teachers will evaluate the Edukalibre Platform and the other used software based on a questionnaire (Simulation Performance; Software Support; Evaluation Possibilities; Analysis Capability)



# Location Planning and Integrated Technique Assessment for a Paper Producing Company and an Office Furniture Producer

Themes of the Strategic Planning Simulation of the Winter Term 2004 / 2005

## ■ Koskinkorva Oy, a Finnish paper producer

### × Location Planning

- pulp from Finland AND production in Finland; pulp from Finland AND production abroad
- transport costs of pulp vs. transport costs of paper
- production costs / investments
- geographical distribution of demand

### × Planning production site

- kraft (sulphate) pulping process; sulphite pulping process; mechanical pulping and chemi-mechanical pulping; recovered paper processing
- techniques to consider in the determination of "Best Available Techniques" (BAT)
- emerging technologies



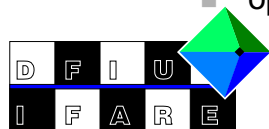
## ■ Genepi S.r.l., an Italian office furniture producer

### × Location planning

- Expecting new environmental legislation (enforced EU-Solvent-Directive by 2010)
- transport costs and import taxes
- production costs / investments
- geographical distribution of demand (Europe vs. Asia vs. North- or South- America)

### × Planning production site

- plastics office furniture or metal office furniture: manual coating vs. robot coating vs. electrostatic spraying etc.
- powder coatings, waterbased coatings, solventbased coatings, high solids coatings etc.
- operating costs, cleaning cost, reporting and monitoring costs, social costs etc.



# Course Environmental Business Game on the platform

The screenshot shows a Mozilla browser window displaying a course page. The address bar shows the URL: <http://edukalbre.comp.leeds.ac.uk/groupware/course/view.php?id=3>. The page title is "Unternehmensspiel Umweltmanagement". The user is logged in as "Isabelle Hubert".

**Activities:** Chats, Forums, Groupware, Resources.

**Administration:** Turn editing on, Settings..., Betreuer..., Teilnehmer..., Backup..., Restore..., Scales..., Grades..., Logs..., Files..., Help..., Teacher forum.

**Calendar:** November 2004. A calendar grid shows dates from 1 to 12.

**Topic outline:**

### IIP Seminar Wintersemester 2004/2005

#### "Unternehmensspiele Umweltmanagement" - Computergestützte Fallstudien zu Standortentscheidung und Technologieausstattung

Die fiktiven Unternehmen Koskenkorva Oy (ein finnischer Papierproduzent) und Genepl s.r.l. (ein Italienischer Hersteller für Büromöbel) planen neue Produktionsstandorte. Anhand einer umfassenden Standortanalyse sollen Präsentationen der Geschäftsbereiche Logistik, Controlling und Umweltschutz für den Vorstand zur Auswahl des Standortes erarbeitet werden. Diese werden dann in einer Vorstandssitzung im Dezember 2004 diskutiert. Anhand der dort getroffenen Entscheidung soll das neue Werk mit Hilfe einer integrierten Technikbewertung geplant werden. Die Frage nach der technologischen Ausstattung des Werkes steht dabei im Vordergrund der Diskussion des Produktionsleiters, des Umweltbeauftragten und des Leiters Controlling in einer Sitzung im Januar 2005.

2 Einzelthemen werden auch untersucht:

- 1/ Wissenerwerb durch Planspiele? Wofür sind Unternehmensspiele geeignet - Analyse anhand von Unternehmen bis Universitäten
- 2/ Open-source Software - Unterstützung in Unternehmensspielen: Anforderungsanalyse und Erstellen eines Bewertungsbogens

*Für alle Teilnehmer besteht Anwesenheitspflicht bei beiden Blockseminaren.*

**Online Users:** (last 1 minute) Isabelle Hubert.

**Latest news:** Add a new topic... 9 Nov, 12:47 - Hanno Schollenberger, Umberto Handbach more... 3 Nov, 15:16 - Isabelle Hubert, Blockseminar more... 29 Oct, 16:33 - Hanno Schollenberger, Douglas are ready more... Older discussions...

**Recent activity:** Activity since Friday, 19 November 2004, 16:24 AM. Full report of recent activity... Nothing new since your last login.

**GISMO:** Students Tracking...

