Berlin University of Technology

Faculty VIII: Economics and Management

DEPARTMENT OF ECONOMICS FOR INFRASTRUCTURE POLICY

PROF. DR. H.-J. EWERS †

WIP, the Workgroup for Infrastructure Policy, is one of the six economic teaching and research units in the School of Economics & Management of Berlin University of Technology. WIP is engaged in teaching, research, and consulting on infrastructure policy, public and environmental economics. With a staff of eleven researchers and an international research and consulting network, WIP belongs to the **leading German institutes on infrastructure policy**.

WIP focuses on the **research** of planning, organization, regulation, financing, and the environmental and social impact of infrastructure sectors. The research is based on the theory of microeconomics, industrial organization and regulation as well as public and environmental economics. Emphasis is placed on the **empirical analysis** of real world phenomena and an **interdisciplinary approach**, mainly integrating technical and juridical issues.

Among the current research issues are incentive problems in organizations (principal-agent theory), regulation under uncertainty, and the environmental impacts of free trade and globalization.

In its **consulting activities**, WIP applies research results to concrete problems of the private and the public sector, in order to improve productive efficiency at company level and for social welfare. To deal with the real-world issues of our clients, hands-on case studies are initiated. Among our clients are political partners like the European Commission, Federal Ministry for Research and Education, Federal Ministry for Transport, Construction and Housing, The Senate of Berlin, the German Parliament and industrial partners like Hochtief Projekt GmbH, Deutsche Lufthansa AG, construction companies, waste companies and commercial banks.

Samples of recent consulting fields:

- Analysis of the German law for private highway financing
- The future of railway traffic
- Possibilities for an improved use of airport slots in Germany and Europe
- Competition in the market for local transport
- Increasing the efficiency of air corridor use in Europe
- Determinants of urban mobility
- Introducing competition in the German waste market
- Privatization and deregulation of the German water industry

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V. FORTHCOMING EVENTS:

1. EUDD at InnoTrans Trade Fair
Date: 24 to 27 Sept 2002
Place: Messe Berlin, Hall 3.2b
Objective: Presenting the modular train driver's desk

2. InnoTrans Seminar
« Towards an Integrated European Rail Area »
Date: 25 Sept 2002, 9.30 a.m. to 12.30 p.m.
Place: InnoTrans, Messe Berlin, Hall 7, Room No.1
Objective: Informing the European rail industry about the current developments in the railway sector

3. Prelude Workshop
Date: 22 Nov 2002
Objective: Linking European university researchers in the area of transport technology & sustainable mobility

VI. IMPRESSUM

Forschungs- und Anwendungsverbund Verkehrssystemtechnik Berlin

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4. NEWSLETTER

I. EDITORIAL

Partner , colleagues and his students - we all were shocked, when Prof. Dr. Hans-Jürgen Ewers, President of TU Berlin and Chairman of FAV Board died in April 2002.

Prof. Ewers was initiator and mentor of the FAV, pushing demands and supporting as well the centres of excellence strategy. It was him to motivate when standard approaches failed and constraints were to overcome.

After having been elected as new president of the Berlin University of Technology Prof. Dr. Kutzler did not hesitate to accept the unisono election and challenge as chairman of the FAV Board. With his personality he seamlessly will carry on FAV's strategy to foster science, applied research and economics in transport and mobility matters even in a narrowing financial environment. "It's time to act not to fall in agony" is the task for the future.

Following these lines the FAV succeeded with numerous of mobility projects and activities in shaping different projects and thus promoted the positive development of the Berlin-Brandenburg region. New mobility concepts, integrated projects and networks of excellence including a transport research focus with our regional, national and international partners are waiting to be implemented.

One highlight of continuation will be the forthcoming presentation of the EU supported R&D project European Driver's Desk (EUDD) at the InnoTrans 2002, where the first model of a modularised drivers desk will be presented.

Wolfgang H. Steinicke, ManagingDirector

II. EUDD AT INNOTRANS 2002

EUROPEAN DRIVER'S DESK
RAIL INDUSTRY INTERNATIONAL PROJECT TEAM

The partners of the EU who co-financed R&D project European Driver's Desk (EUDD), coordinated by FAV, will present the current status of their work at the InnoTrans fair ,September 24 to 27, in Berlin. The InnoTrans is one of the worldwide leading trade fairs for Rail and Transport Technology.

EUDD aims at the development of a modularized driver's desk capable of facilitating Europe wide cross-border rail operations.

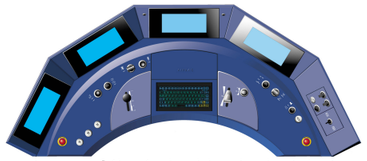
The project is regarded as a model case for the new cooperation among industry, operators and research institutes, according to the UIC, UNIFE, UITP and EC strategy *Towards a single European Rail System*.

The major project objective is achievement of life cycle cost reductions as well as reduced education and further driver's training expenditures.

On the InnoTrans EUDD will be the centre of the shared Berlin-Brandenburg stand (03) in hall 3.2b. The EUDD project team consists of the main European rail system manufacturers (Bombardier, Siemens, Alstom)

4. NEWSLETTER CONTENT

innovative suppliers (Faiveley, SGW Werder, Ansaldobreda, Deuta), prestigious research institutes (IAS Berlin, TU Wien, PTU Barcelona), the associations UIC/ERRI (Railways), UNIFE (Rail industry) and FAV. The European Railways are involved in the development of the EUDD *user platform*. Together they will present the 1:1 industrial design model of the driver's desk.



scheme of the train driver's desk to be presented at the EUDD stand at the Innotrans Fair

Visitors will be offered the opportunity to enter the driver's cab. A presentation on the windscreen will give them the feeling of sitting in a real cabin while driving a train. Real control elements, terminals and indicators on the desk will contribute to the realistic impression.

master controller - one of the operational elements of the driver's desk model

EUDD will also contribute to the UNIFE FAV seminar *Towards an Integrated European Rail Area* on September 25th within the frame of the *InnoTrans convention*. This conference is open to InnoTrans visitors. Speakers are, among others, Hartmut Mehdorn (DB) and high level representatives of the three main industrial players: Alstom, Bombardier and Siemens. Prior to the UNIFE seminar a press conference will take place at the EUDD stand. The seminar will be concluded by a reception at the EUDD stand at lunch time.

Based on the mock-up presented at the InnoTrans a functional demonstrator will be build for comprehensive tests in a simulation environment. Preparations for the implementation of the project results to the European Rail harmonization process will run parallel until autumn 2003.

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III. PRELUDE

(**PR**OMOTING **E**UROPEAN **L**OCAL AND REGIONAL S**U**STAINABILITY IN THE **D**IGITAL **E**CONOMY)

The project prepares the ground for the 6th FP, supports the eEurope action plan and the clustering of activities in key digital areas, that are a clear priority in the European regional territories:

- health systems;
- social services systems, in particular to elderly people and disadvantaged groups
- intelligent urban transport & mobility management (transport telematics)
- territorial information systems, containing GIS and mobile platforms solutions
- e-government and e-governance at regional and local level
- regional marketing and local market development based on e-commerce
- new electronic methods of working and e-learning

The co-financing of the project by the European Commission within the 5th Framework Programme – Information Society Technology (IST) is kindly acknowledged.

Within the digital area intelligent urban transport & mobility management, which is under responsibility of FAV, the project will identify the relevant regional profiles and publish the outcomes of benchmarking studies; establish a gallery of good practices and identify appropriate models; foster clustering and concentration among prime movers at regional level for a major Integrated Project and a Network of Excellence.

Prelude Steering Group Meeting in FAV premises. Berlin, 29.08.2002

First, FAV will organise a future-oriented workshop on **November, 22nd**,2002 for interested university partners to promote and organize a Network of Excellence - TRUSTNET. Main aim is to link European university researchers in the area of transport technology & sustainable mobility.

Second, the planned conference on 'European Perspectives in Intermodal Transport Telematics with specific attention to Central and East-European Countries (EPIC) is the main dissemination tool for a successful implementation of the mentioned cluster intelligent urban transport & mobility management. FAV's EPIC will take place in Berlin, on **March 13th/ 14th**,2003.

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IV. PORTRAITS

Astro- und Feinwerktechnik Adlershof GmbH

Astro- und feinwerktechnik Adelsdorf GmbH was established in October of 1993, with an expert staff derived primarily from members of the Institute for Space Research at the former (East) German Academy of Sciences and its successor institute, the Berlin-Adlershof center of the German Aerospace Research Establishment (DLR).

Our **field of operations** includes:

- Development and design of precision mechanical and optoelectronic equipment and components
- Design and prototype construction
- Mechanical processing on conventional production systems and modern CNC stations for a tolerance range of IT 5 to IT 3
- Environment simulations

We have additional extensive experience in OGSE (Optical Ground Support Equipment) and MGSE (Mechanical Ground Support Equipment), such as developing and producing transport containers and handling devices.

Experience in development and operations have resulted in **exceptional technological know-how** in the following fields:

- Lightweight construction design with structural and bonding materials
- Processing of high-technology materials, titanium, glass ceramics, and synthetic materials
- Use of low-contamination production and assembly processes
- Adoption of innovative coatings tested in space
- Superior solutions for tribology and lubrication problems under vacuum conditions;
- Active and passive Black Bodies
- Pattern design and processing for multi-layer insulation (MLI)
- High vacuum technology, special steels processing, special and transport container construction
- In space technology hardware: payload area and optoelectronic equipment, electromechanical hardware

We work in accordance with ISO 9001, for which the certification process was run by DaimlerChrysler Aerospace and we have ESA authorization for various technologies. Strict adherence to **quality assurance measures** (e.g. recorded production) is ensured not least of all by DGQ (Deutsche Gesellschaft für Qualität) monitors in meeting all client-specific requirements.

Our services also include **environment simulation,** monitoring and tests. We perform mechanical tests (vibration, shock, static load and acceleration) and advise on the selection of standards.

The **flexibility** and creativity of our company is enhanced by the enormous extent of research facilities as well as high-tech enterprises at the Berlin-Adlershof site.

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