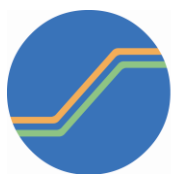


## RESEARCH GROUP OF OPERATIONS RESEARCH AND DECISION SYSTEMS

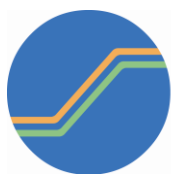
### REFERENCES

1989-2012

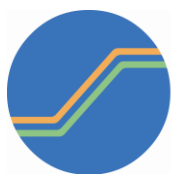
- 1. Project** Developing a special interior point method-based optimization engine for an industrial application - 2010-2011  
**Client** Siemens Corporate Research
- 2. Project** Consultancy in the multi-attribute decision model of the decision preparatory study of a new intermodal center in Kecskemét - 2010-2011  
**Client** Közutas Ltd.
- 3. Project** Analysis and consultancy for the sensitivity of the weights of criteria and for the methods of evaluation in the multi-attribute decision model in the public procurement procedure of trolley-bus tender in Szeged - 2009  
**Client** Mayor's Office of Szeged
- 4. Project** Analysis and consultancy for the sensitivity of the weights of criteria and for the methods of evaluation in the multi-attribute decision model in the public procurement procedure of tram tender in Szeged - 2008  
**Client** Mayor's Office of Szeged
- 5. Project** Development of an Excel-based application named Early Warning Trigger System (by the leading of the Laboratory on Engineering & Management Intelligence) - 2008  
**Client** Robert Bosch Electronics Group
- 6. Project** Decision modelling and evaluation of programme management and promotion materials in Open Public Procurement, in the frame of New Hungary Rural Development Programme - 2008  
**Client** for Ministry of Agriculture and Rural Development
- 7. Project** Modelling of yearly operation of plants - 2007  
**Client** Prímagáz Hungária Inc.
- 8. Project** Searching the shortest path in road-networks, taking the weight- and size limitations into consideration - 2007  
**Client** GraphIT Ltd



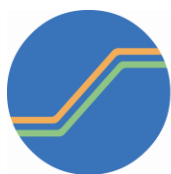
- 9. Project** Comparative analysis of the alternatives of the Metro 4 lines, second section - 2006-2007  
(In co-operation with Keresztespók Environmental Consulting and Servicing Ltd. The analysis is part of the environmental impact assessment.)  
**Client** MÉLYÉPTERV Kultúrmérnöki Inc.
- 10. Project** Development of database and user interface regarding client data of pedagogic guidance centers - 2005-2007  
**Client** Pedagogic guidance centers of districts IX and XVIII of Budapest
- 11. Project** Evaluation of minimum yearly operating costs of storage centers and filling plants regarding several scenarios - 2005  
**Client** Primagáz Hungária Inc.
- 12. Project** Development of decision and environmental modelling tools based on GIS databases - 2003-04  
**Client** Ministry of Education
- 13. Project** Consultancy in tender evaluation - 2003-04  
**Client** Hungarian Power System Operator Company
- 14. Project** Environmental management analysis and rating of the communal solid waste handling technologies of FKF Inc. - 2003  
**Client** FKF Inc.
- 15. Project** Modelling of decision problems in a web-neighbourhood - 2003  
**Client** Budapest University of Technology and Economics, Department of Sociology and Communication
- 16. Project** Determination of the optimal regions of transportation for the base plants and depots - 2003  
**Client** Primagáz Hungária Inc.
- 17. Project** Master planning - 2002-03  
**Client** Scala Business Solutions N.V.
- 18. Project** Consultancy in tender evaluation - 2002  
**Client** Hungarian Power System Operator Company
- 19. Project** Comparative analysis of the alternatives of the Metro 4 lines  
(We participated in the environmental impact assessment prepared under the direction of Mélyépterv Kultúrmérnöki Ltd. in co-operation with Keresztespók Environmental Consulting and Servicing Ltd.)  
**Client** DBR Metro Project Directorate



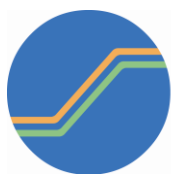
20. **Project** Planning the operation of minimal cost for filling and storing plants - 2002  
**Client** **Prímagáz Hungária Inc.**
21. **Project** Ranking of projects related to the Bank - 2001  
**Client** **Raiffeisen Bank Inc.**
22. **Project** Preliminary environmental impact assessment for the revitalization of lake  
**Client** „Sasfészek” at Páty - 2001  
**TERMINÁL Inc.**
23. **Project** Applying models of game theory for the economic effects of the climate  
change - 2001  
*(We participated in this project in co-operation with the Budapest  
University of Economic Sciences and Public Administration and research  
institutes from Europe.)*  
**Client** European Union, SIADCERO project
24. **Project** Program for the development aiming at the protection of air-cleanliness at  
**Client** Dunamenti Power Plant - 2000  
**Dunamenti Power Plant Inc.**
25. **Project** Transmission modelling of chemical pollutants emitted by Dunamenti  
**Client** Power Plant - 2000  
**Dunamenti Power Plant Inc.**
26. **Project** Transmission modelling of pollutants to be emitted by the turbine-testing  
**Client** plant planned by General Electric Inc. at Veresegyház - 2000  
**General Electric Inc.**
27. **Project** Comprehensive environmental impact assessment for the planned waste  
**Client** battery recycling factory at mine Béta, Komló - 1999-2000  
**Municipality of Komló**
28. **Project** Examination of the efficiency of the Tender for Developing the Economy -  
**Client** 1999  
**Ministry of Economic Affairs**
29. **Project** Evaluation of the Programme for the Development of Industrial Parks -  
**Client** 1999  
**Ministry of Economic Affairs**
30. **Project** Transmission modelling of chemical substances emitted by the composting  
**Client** plant at Tök - 1999  
**Champignon Union Ltd**



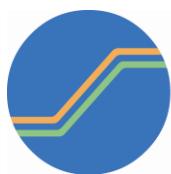
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|--------------------|---|
| <b>31. Project</b> | Environmental study for the waste-water sludge composting plant at Dunaharaszti - 1999  |
| <b>Client</b>      | <b>Public Services Office Ltd at Dunaharaszti</b>   |
| <b>32. Project</b> | Determination of the optimal location of waste-material transfer points and compression - 1999  |
| <b>Client</b>      | <b>VÁTI-ALLOCOORD Ltd</b>   |
| <b>33. Project</b> | Determination of the optimal routes for waste-material transport - 1999   |
| <b>Client</b>      | <b>VÁTI-ALLOCOORD Ltd</b>   |
| <b>34. Project</b> | Experts' activities in information technology, data processing and evaluation of 17 parallel tenders for publicly financed institutions - 1998        |
| <b>Client</b>      | <b>Management of Public Procurement of the Prime Minister's Office</b>  |
| <b>35. Project</b> | Evaluation of the tender "Delivery of Copying Machines and Related Services" - 1998   |
| <b>Client</b>      | <b>Chief Public Procurement Administration of the Ministry of the Interior</b>  |
| <b>36. Project</b> | Environmental impact assessment for MOM Park - 1998   |
| <b>Client</b>      | <b>BHG Ltd</b>  |
| <b>37. Project</b> | Computer modelling of the water supply system of the river branch of the Danube at Ráckeve-Soroksár, by using multi-attribute decision methods - 1998 |
| <b>Client</b>      | <b>Chamber of Commerce and Industry of Pest County</b>  |
| <b>38. Project</b> | Environmental impact assessment for building a regional waste-material depository in the vicinity of Taksony - 1998                                   |
| <b>Client</b>      | <b>Municipality of Szigetszentmiklós</b>  |
| <b>39. Project</b> | Environmental impact assessment for a golf-course of Budapest Golf and Country Club - 1998  |
| <b>Client</b>      | <b>Municipality of Göd</b>  |
| <b>40. Project</b> | Software-based environmental monitoring system for observing the loading on the environment, acquisition and processing of load data - 1998           |
| <b>Client</b>      | <b>B.T. Holding Foundry Ltd</b>   |
| <b>41. Project</b> | Environmental impact assessment for building a regional waste-material depository in the vicinity of Gyál - 1998                                      |
| <b>Client</b>      | <b>.A.S.A. Environment Protection and Waste Material Management Hungary Ltd</b>   |



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| 42. | <b>Project</b> | Development of a database for power plants and its harmonization with the production simulation program PSIM 4.2 - 1998  |
|     | <b>Client</b>  | <b>Hungarian Power Companies Ltd</b>   |
| 43. | <b>Project</b> | Experts' activities in information technology, data processing, modelling and evaluation of software tools and informatics services of 17 parallel tenders for publicly financed institutions - 1997 |
|     | <b>Client</b>  | <b>Management of Public Procurement of the Prime Minister's Office</b>   |
| 44. | <b>Project</b> | Preparation of the documentation, necessary for the management of the public procurement for completing the project titled "Application of EDI in statistical data processing" - 1997                |
|     | <b>Client</b>  | <b>Coordination Office for Informatics of the Prime Minister's Office</b>  |
| 45. | <b>Project</b> | Decision-support case-study with regard to an investment for storing of communal waste material in "Kertváros" Association for South-Eastern Agglomeration Regional Development - 1997               |
|     | <b>Client</b>  | <b>.A.S.A. Environment Protection and Waste Material Management Hungary Ltd</b>  |
| 46. | <b>Project</b> | Survey and evaluation of the environment regarding the bed and flood area of the brook Rákos - 1997  |
|     | <b>Client</b>  | <b>Municipality of Budapest, Department of Environmental Protection, Mayor's Office</b>  |
| 47. | <b>Project</b> | Development of a software system for evaluating contractor tenders - 1997  |
|     | <b>Client</b>  | <b>Hungarian Post Inc.</b>   |
| 48. | <b>Project</b> | Environmental impact assessment for a planned battery recycling factory - 1996   |
|     | <b>Client</b>  | <b>HAF Inc. (Waste Battery Processing Company) Budapest</b>  |
| 49. | <b>Project</b> | Preliminary environmental impact assessment for decision support on establishing a waste battery processing plant - 1996   |
|     | <b>Client</b>  | <b>HAF Inc. (Waste Battery Processing Company) Budapest</b>  |
| 50. | <b>Project</b> | Development of a software system for the evaluation of the tenders of contractors (WINGDSS 4.1) - 1996   |
|     | <b>Client</b>  | <b>Hungarian Post Inc.</b>   |
| 51. | <b>Project</b> | Development of a methodology for collecting and processing data on the state of the environment of Hungary - 1995-96   |
|     | <b>Client</b>  | <b>PHARE Environment Sector Programme of the European Union<br/>Ministry of Environment and Regional Policy in Hungary</b>   |



52. **Project** Developing the framework for a biodiversity monitoring programme in Hungary - 1995-96  
**Client** PHARE Environment Sector Programme of the European Union  
Ministry of Environment and Regional Policy in Hungary
53. **Project** Tender evaluation of softwares for referendum - 1995  
**Client** Ministry of Interior, Bureau of Election
54. **Project** Technical preparation of a tariff system - 1995  
**Client** Hungarian Electricity Board
55. **Project** Development of the information system of power plants in SAS environment - 1994  
**Client** Hungarian Electricity Board
56. **Project** Computer support for the process of environmental impact assessment of investments - 1993  
**Client** Ministry of Environment and Regional Policy
57. **Project** Development of a program system for transportation optimization - 1993  
**Client** Prímagáz Hungária Inc.
58. **Project** Determination of the environmental main point of the Great Plain by taking the opinions of the experts and decision makers into consideration - 1993  
**Client** Ministry of Environment and Regional Policy
59. **Project** Development of a model for environment evaluation - 1991, 1992, 1993  
**Client** Ministry of Environment and Regional Policy
60. **Project** Development of a software system for decision support on tenders - 1992  
**Client** Ministry of Welfare, Hungarian Telecommunication Company
61. **Project** Property evaluation of a hotel chain - 1992  
**Client** PRODINFORM
62. **Project** Development of a decision model for the social applications, solution and sensitivity analysis of the model - 1992  
**Client** Ministry of Welfare
63. **Project** Installing and introducing the software package WINGDSS 2.0 for decision support for tender evaluation - 1992  
**Client** Ministry of Welfare, Hungarian Telecommunication Company



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| <b>64. Project</b> | Development of a software for supporting the evaluation of environmental impact assessment - 1992  |
| <b>Client</b>      | <b>Ministry of Environment and Regional Policy</b>   |
| <b>65. Project</b> | Development of program package WASP-IV - 1991-1992   |
| <b>Client</b>      | <b>Hungarian Electricity Board, Argonne National Laboratory and International Atomic Energy Agency</b>   |
| <b>66. Project</b> | Generation planning for long- and mid-term - 1990  |
| <b>Client</b>      | <b>Hungarian Electricity Board</b>   |
| <b>67. Project</b> | Development of a program package for generating and analyzing load duration curves, and development of a database for running the package ICARUS on personal computers - 1989-90 |
| <b>Client</b>      | <b>Hungarian Electricity Board, Argonne National Laboratory and International Atomic Energy Agency</b>   |
| <b>68. Project</b> | Modelling of interconnected power systems - 1989-90  |
| <b>Client</b>      | <b>IIASA, System and Decision Science Program</b>  |