

Socio-Economic System Engineering Laboratory

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Key words	Urban and regional economics, industrial policy, simulation

The studies in my office are classified into two fields. One is about socio-economic system analysis for city, region and industry and another is about evaluation methodology for policy and project.

Theme 1 ► Socio-Economic System Analysis for City, Region and Industry

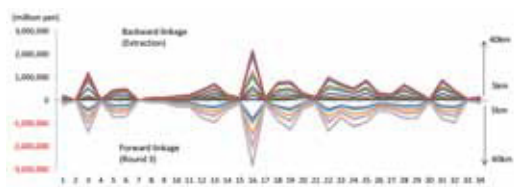
In order to understand socio-economic structures and to be able to predict the future, there is a vital requirement to fuse the accumulation of academic data with analysis methods. We are pursuing the construction of economic systems in urban and regional areas and industrial clusters, although with their analysis and application. Based in approach of economics and simulation methods, we are developing a methodology for analyzing the variety of issues that can arise in urban and regional areas and industrial clusters, and conducting analysis that targets urban and regional areas and industrial clusters. Some of the themes we are working with include the economic effect of large risks such as earthquakes, the regional economic effect of the innovation of next generation automobile technology, the economic effect of ports, and the economic effect of the formation of compact cities.



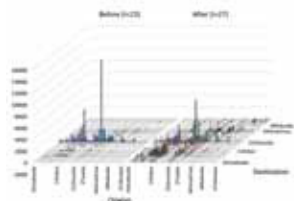
Modeling for Regions

Theme 2 ► Evaluation methodology for policy and project

We are pursuing the formulation of basic scientific theories required in order to support spatial policies for urban and regional areas, and the application of these theories. Based in economics, regional science, inter-industry analysis and econometrics, we implement analysis and simulations on a variety of socio-economic phenomena and policy issues that have a spatial dimension. Some of the themes we are working with include the development of an econometric model for urban and regional areas, calculation of the economic effects provided by technological revolutions in industry clusters, analysis of inter-organizational learning in an intellectual society and quantitative analysis that makes use of GIS and spatial economic data.



Modeling for Industries



Modeling for Transportation