

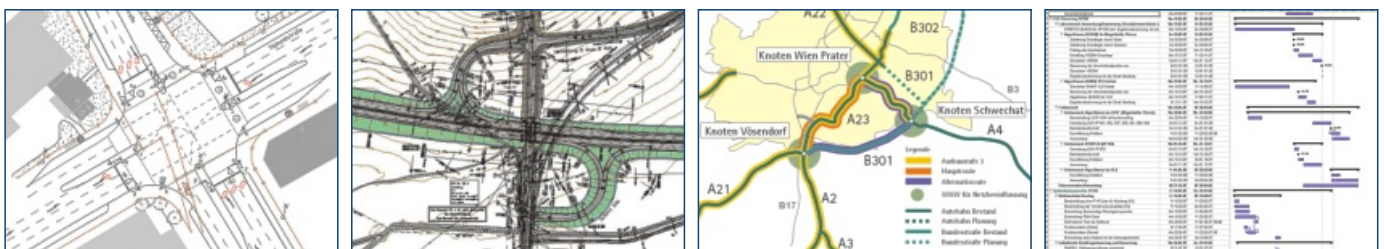
Short Company Profile

Business Domain: Transport Infrastructure Planning



SSP Consult, Beratende Ingenieure GmbH

Your Partner for
Transport Infrastructure Planning and Road Traffic Engineering



Business Domains of the Company

In the field of planning, construction and operation of transport systems SSP Consult, Beratende Ingenieure GmbH distinguishes between the two business domains:

- transport infrastructure planning and
- road traffic engineering.

The *transport infrastructure planning* division covers the whole range from transport planning concepts to complement the infrastructure up to the execution of projects. A sustainable urban and regional coordination of the tasks of the means of transport, an optimised combination of the transport systems and, finally, an adequate organisation regarding construction, operation and management are in the focus of the planning process.

Road traffic engineering is primarily concerned with the flow of traffic. The spectrum of activities covers the general conception of technical systems up to the professional support of projects in the implementation phase. The organisation and operation of traffic control systems extend both to applications within and outside of agglomerations. The field of information technology in transport is enclosed here as regards the conception, provision and maintenance of software as well as the design of system architectures.

Both business domains are closely related to each other and must be harmonised with the requirements of sustainability, environmental compatibility, economic efficiency, traffic safety as well as the constantly changing socio-economic basic conditions. Due to this complex interaction it is important to consider and develop transport projects in an integrated way. The two activity fields of *traffic management* and *transport research* function as an integrating element to bring both business domains together.

Independent Consulting Services

SSP Consult, Beratende Ingenieure GmbH is an individual engineering office providing consulting services independently of the interests of manufacturers of project-specific system components. Our company is not a manufacturer of transport planning systems or technical control components. Thus a neutral consultation is guaranteed for the client, which concentrates exclusively on the interests of the client.

Business Domain: Transport Infrastructure Planning

The service range of SSP Consult, Beratende Ingenieure GmbH covers the following three fields of activity within the transport infrastructure planning domain:

- transport studies,
- design of transport infrastructure and
- project management.

The activity of *transport studies* contains above all conceptual studies. The tasks of planning and analysis cover a spectrum from single questions up to activities for municipalities and/or smaller towns, activities for agglomerations, as e.g. Stuttgart and Hamburg, up to larger transport regions, e.g. German federal states and/or Germany or, involving several countries, the neighbouring countries of Europe. The field of *transport infrastructure design* includes planning services of dimensioning and technical design. The area of *project management* primarily handles the tasks of project steering and controlling.

Activities in Transport Infrastructure Planning

Transport Studies

With the activity of transport studies SSP Consult, Beratende Ingenieure GmbH covers mainly the creation of the bases for representing traffic conditions and for analysing the impacts that result from infrastructural or regulatory measures. To this aim traffic modelling is carried out, which is based on the data of mobility behaviour, transport infrastructure in private vehicle traffic as well as in public transport and freight traffic. As a result of the trip generation and traffic assignment it is possible to reproduce the traffic conditions in a road network or even in small-scale net elements, such as road sections or intersections. By generating multimodal transport planning models it is even possible to analyse the interactions between offer and demand in private vehicle traffic and public transport.

SSP Consult, Beratende Ingenieure GmbH successfully worked on projects in the following areas:

- overall transport planning and transport development plans
- transport studies and analyses of impacts
- transport modelling
- measure evaluation
- economic efficiency analyses
- feasibility studies
- noise and pollutant analyses
- Public Private Partnerships



Transport Infrastructure Design

In the activity field of transport infrastructure design, SSP Consult, Beratende Ingenieure GmbH covers the whole spectrum both for new construction projects as well as for the extension of existing road traffic infrastructure and related secondary equipment. Besides developing conceptual investigations to define the basic conditions and requirements of transport infrastructure, our company also provides the dimensioning and based on this the design engineering in the different planning phases. Broad experience has been gained in urban and inter-urban planning actions including smaller extension measures up to the new construction of motorways. This requires an interdisciplinary co-operation with other specialised planners (e.g. environmental planners, architects, urban planners, civil engineers, soil experts), which is a standard approach in our company.

SSP Consult, Beratende Ingenieure GmbH worked successfully on corresponding projects in the following areas:

- conceptual preliminary studies,
- dimensioning of transport infrastructure,
- technical development of transport infrastructure and
- geo-referencing (GIS)



Activities in both Business Domains

Traffic Management

Traffic management is part of both business domains and can be arranged into three large topic areas, which have to be handled in detail in each case in the context of the actual local framework conditions. The strategic area encloses the advancement, integration and coordination or combination of technical systems as components of transport telematics. It contains the conception of strategic networks and the organisation of traffic as well. As regards information technology, topics like data exchange and data contents in heterogeneous nets, communication protocols, interfaces, logical and physical system architectures as well as security concepts are dealt with. In addition, the conception and development of the required system architecture take place in the area of conflicting administrative scopes of competence as well as in the process of coordination between private and public interests. Combining the experience from the above topic areas allows SSP Consult, Beratende Ingenieure GmbH to achieve optimum results in concrete projects, as for example, the updating of existing individual systems or the bundling of single systems into one complex overall approach.

SSP Consult, Beratende Ingenieure GmbH has worked successfully on corresponding projects in the following areas:

- conception and coordination of traffic management systems
- concepts for public parking
- concepts for event traffic
- information systems for public transport, private vehicle traffic and parking traffic
- multimodal information services
- intermodal system network
- mobility management
- operating concepts

Transport Research

The field of transport research completes both business domains by national and European research projects. SSP Consult, Beratende Ingenieure GmbH has been involved in a number of research and development projects, e.g. regarding the introduction of new technologies for data collection like Floating Car Data or Floating Phone Data as well as digital image processing including geostationary and air-borne object recognition. In the field of traffic control SSP Consult, Beratende Ingenieure GmbH intensely works on the development of control methods in signalised road nets to flexibly influence the traffic situation by signal control at low detection efforts. New methods for data preparation are developed on the basis of GIS applications and prepared for their use in practice in transport planning.

The research projects of SSP Consult, Beratende Ingenieure GmbH can be allocated to the following areas:

- sustainable transport planning
- mobility concepts
- fusion of traffic data
- control methods
- technology concepts
- integration of environmental issues
- safety research
- transport telematics
- traffic data from FCD and FPD
- air- and satellite-borne data collection
- ITS-architectures and standardisation of open communication interfaces
- optically-based traffic analysis

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Further Information

A comprehensive survey of our scope of activities as well as selected project descriptions and references can be found on our Internet site: www.ssp-consult.de

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