

Infrastructure Planning & Development

Cost effective and 'fit for purpose' infrastructure is the key to profitable airport development. Working closely with our clients AviaSolutions can assist in specifying the appropriate level of airport infrastructure and the timing of its implementation. We provide support at each stage of the project process, from inception to commissioning and operation. This includes ensuring that new developments are not only operationally efficient but commercially optimised so that they can be successfully financed.

Masterplanning and Project Evaluation

Investment in airport infrastructure is a major commitment. It is vital that facilities meet the needs of the market that they serve, whilst retaining sufficient flexibility to accommodate changes to that market. Working closely with our traffic forecasting team, we align not only the number of passengers (peak and annual) to infrastructure development but also the mix and type of traffic that is forecast to use the facility. Using modelling techniques, benchmarking databases and experience, we derive required capacities across the airport, including the airfield, terminal and related activities (e.g. car parking). We can develop detailed high level layouts that can be used to inform the development of cost effective, fit for purpose and profitable infrastructure.

Project Scope Definition

A clear project scope or brief is critical in determining the size and shape of infrastructure developments. Providing the business rationale behind the development plan, will allow a 'fit for purpose' facility to be delivered. Our development briefs are clear and concise, aligned with IATA planning standards and detailed space-facility requirements. However, we do not purely derive space standards but also integrate the requirements of commercial and other activities into the design brief to ensure that the commercial opportunities are maximised.

Financing Options

We assess the range of options for financing an airport's development, identifying what is most appropriate for the airport concerned. This can include private sector involvement, ranging from concessions through to BOT-type structures to outright privatisation. Additionally, we have extensive experience of working with banks and other providers of finance.

Programme Management, Implementation and Delivery

We provide client interface or programme management services that ensure that our clients' interests and needs are accommodated within individual airport projects. This is distinct from project management in that through working closely with the respective project managers, we can ensure that the overall work plan is co-ordinated, risks are identified and mitigation strategies developed. Without effective programme management, a lack of co-ordination can result in poorly scoped projects with resulting time and cost overruns. Within our team, we have a number of experienced airport infrastructure programme managers who understand in detail how cost effective capacity can be delivered within a live airport environment.



As part of the development of project briefs and infrastructure solutions for a major airport in the Middle East, AviaSolutions:

- Undertook a capacity analysis study of the existing terminal.
- Developed traffic forecasts to inform future capacity requirements.
- Developed a design brief for a new terminal to meet the needs of a specific market sector.
- Managed the implementation of the design brief through to a successful opening of the new terminal.
- In parallel developed a brief for the re-modelled and extended existing facilities.

As part of the sale process for a UK Regional Airport, AviaSolutions:

- Critiqued the existing development plan.
- Identified space and facility requirements.
- Developed a revised masterplan that was aligned to airline requirements and forecast traffic growth.
- Appraised the financial and planning implication of the revised development plan.
- Provided a high level cost estimate for the masterplan.

