

# Test Facilities Design

Our test facilities engineering department has solid experience in the design and development of test facilities and proving grounds for clients from around the world, combining Arplus IDIADA's experience and know-how to meet each client's specific requirements.



## Our strengths

- In-house expertise in international automotive testing, engineering and homologation
- Task force made up of experts from all testing areas
- In-house department for civil works and facilities engineering with extensive experience and goal-orientated approach
- Experience in designing and implementing test facilities and proving grounds fulfilling confidentiality and safety requirements
- Independence from OEM's and test equipment suppliers
- Unique management model based on its own experience considered as a reference in the sector
- Project approach based on cost and land optimization

## Our products

### Proving ground design

- Basic engineering project highlighting the critical points in the design and with particular focus on testing performance
- Review of the detailed design engineered by a local company

- Support to the client on the selection of the civil works contractor: Preparation of the technical contract conditions, the general contract conditions and evaluation of the technical proposals received from the contractors
- Construction supervision. Periodic visits at key moments during the construction phase in order to check, advise on and evaluate the relevant construction items that could affect the performance of the test tracks or the test equipment to be installed
- Commissioning and acceptance test. Definition of the acceptance criteria for each one of the key features of the tracks or laboratories for keeping the designed performances
- Other services, for example, certification of the test tracks, implementation of quality plans, proving ground maintenance plan and test procedures

#### Test equipment definition

- Workshops tailor-made to fit the client's needs (at IDIADA or client's site) for understanding their current and future testing needs in both homologation and RandD fields
- Preparation of a basic test equipment list according to the test premises agreed with the client
- Recommendation on the test equipment packages to be purchased focusing on the quality, time schedule and cost
- Preparation of the tender document for purchasing the required testing equipment: Preparation of detailed technical specifications and preparation of the general contract conditions
- Evaluation of the technical offers received from the test equipment suppliers
- Installation supervision: Periodic visits at key moments during the installation of the test equipment in order to check, advise on and evaluate the relevant items that could affect the performance of the facility
- Commissioning and acceptance tests. Definition of the acceptance criteria for each one of the key features of the tracks in order to satisfy the designed performance
- Other services, for example, laboratory correlation, test procedures and training calibration

#### Feasibility studies