

Some projects around the world

High technology testing devices for advanced road survey services



ECODYN

Retroreflectivity of road markings survey (night and day retroreflectivity and visibility).



IRI

Profilometer laser equipment for longitudinal profiling of road pavements.



FWD

Falling Weight Deflectometer for bearing capability survey of road pavements and granular layers.



LIDAR

High accuracy road inventory system through cloud of points; asset extraction, as built, special routes, etc.



GPR

Ground penetrating radar for pavement layer thickness survey as well as moisture content and other pathologies.



LASER CRACK MEASUREMENT SYSTEM

3D pavement surface survey for road distress detection.



GT

GripTester. Skid resistance survey of road pavements.



SCRIM

Pavement skid resistance and macrotexture survey under wet conditions.



Periodic inspection in the sports complex Aspire (Qatar)



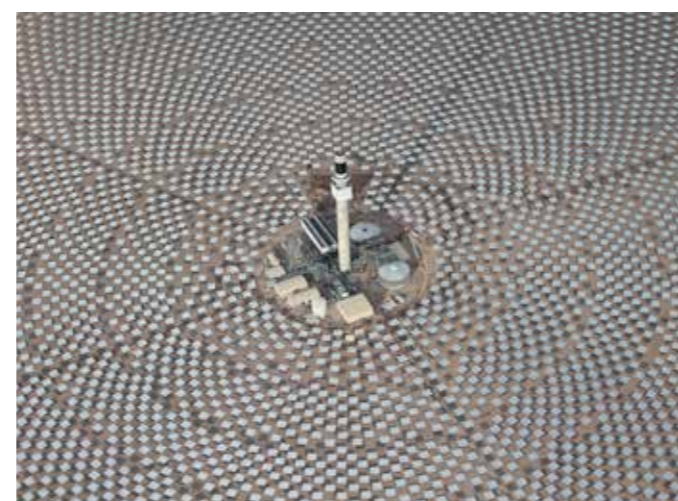
Instrumentation and Monitoring of North and Central Launching Shafts, (Line 5), Riyadh Metro. KSA



Combined Cycle Power Plant of Asughan (TSK). Bangladesh



Atlantic Corridor HSR Line. Stretch: Ordes-Queixas. Spain



Tonopah Thermosolar Plant. USA

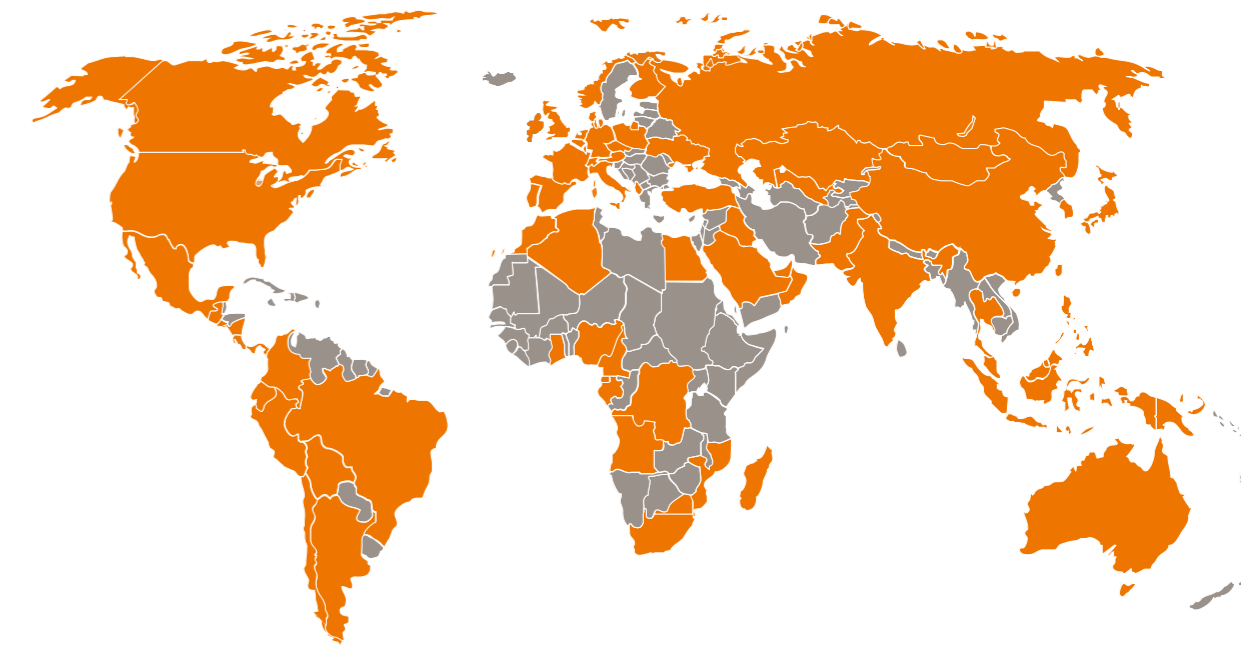


Instrumentation and Monitoring of North and Central Launching Shafts (Line 5). Riyadh metro. KSA.



Applus+ offers a comprehensive service of high technical quality. Applus+ is involved in every stage of the project, from the design development phase to construction and operation. Our experience gained over the years, combined with state-of-the-art technology, allows us to offer customized services worldwide.

Applus+ around the world



Applus+ is present in over 70 countries with more than 350 offices worldwide.

Areas of expertise

Applus+ is a company that specializes in inspection and testing services for all types of industries. We work for different sectors such as construction, energy, oil and gas, telecommunications.

Applus+ is expert in control, surveillance and quality monitoring for all types of linear infrastructures such as roads and highways, railways, water ways and the energy sector.



Oil & Gas



Energy



Construction



Aeronautics



Government and public bodies



Maritime



Telecommunications



Industry



Mining



Services

Our services and solutions cover all phases of the project, from analysis and design, to maintenance and operation and through to execution and assembly.



Non-Destructive Testing



Testing and Analysis



Vendor Inspection



Engineering and consulting



Inspections and Supervision



Quality Assurance / Quality Control



Certification



Technical Staffing

Remarkable support technologies

BÚHO SYSTEM Using high-definition visual and thermographic imaging, as well as helicopter geo-referencing, we analyse medium to high voltage power lines and their elements.

DRONES Progressive knowledge and technology are integral to our business and so we are integrating the use of drones, or UAV's, into our inspections. This greatly expands our remote capabilities and offers us the potential to offer more time efficient services.

SIGTUM GIS, SIGTUM GIS Interface (for project monitoring) GIS is the Geographic Information System developed by Applus+ which has been applied to data visualisation and monitoring of applications.



It is a software platform for field inspection to improve performance and efficiency to support Quality Assurance and Quality Control process during the execution of any type of project.

Solutions for roads

Applus+, with more than 35 years providing solutions in roads sector and participating in all the stages of the project, helps our customers to achieve their quality and quantity objectives, meeting the budget and deadlines committed.

Design

We undertake a wide variety of projects from conventional roads to highways and freeways.

- Feasibility studies
- Environmental impact studies
- Preliminary design
- Concessions
- Detailed design
- Rehabilitation and improvement projects
- Road Safety Audits
- Health and Safety Studies

Specific studies Surveying, Mapping, Geotechnical Engineering, Road Safety, Structural Integrity, Hydraulics and Hydrology, Drainage, Environment and Health & Safety.



Highway link between Mostaganem and Highway Est-West (60Km), Algeria



A-7 Motorway, Section: Puntalón – Carchuna, Motril, Spain

Construction

- QA / QC
- Occupational Risks Prevention
- Environmental Impact Monitoring
- Field supervision
- Topographic monitoring
- Instrumentation and monitoring
- Materials testing
- Contract management
- Technical back office
- Specialized consulting
- Geotechnical, Structural and Environmental Monitoring, Risk Management*

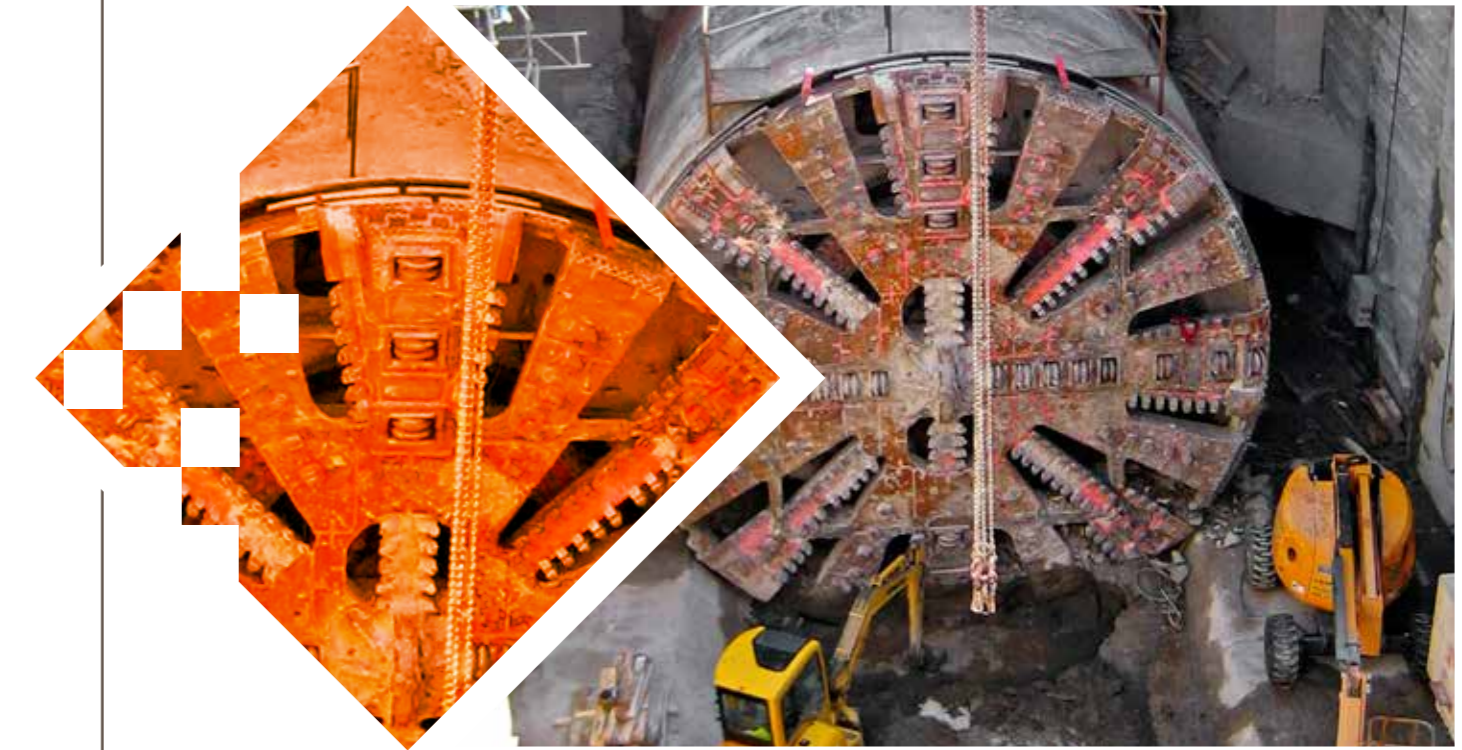


Laser Crack Measurement System and LIDAR system in a highway, Qatar

Geotechnical, Structural and Environmental Monitoring, Risk Management*

Applus+ aims to provide integrated support to designers, builders and infrastructures operators with instrumentation & monitoring services and specialized asset diagnostics, during construction or maintenance phase.

Applus+ offers instrumentation system design, installation, commissioning, maintenance, data transmission, data management and analysis, warning and decision making tools.



Instrumentation and Monitoring, (Line 9), Barcelona's Subway, Spain

Operations

With the latest technology and a team of highly qualified technicians. Applus+ provides integrated solutions for **Asset Management**: Road Management Systems, Technical Consultancy Services, Road Inventory Surveys, Pavement Condition Surveys y Asset Management Software and Inventories with LIDAR technology.

We are specialists in rehabilitation and asset integrity studies, development of maintenance strategies by condition indicators methodologies and pavement structural design.



Cracking, macrotexture and roughness measurements with LCMS 3D laser, Burgos Airport, Spain