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T U N N E L S & U T I L I T Y T U N N E L S

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## **MUMBAI NAGPUR EXPRESSWAY TUNNEL CP 16, MAHARASHTRA, INDIA** Environmental monitoring. **September 2024.**

Mumbai Nagpur Expressway Tunnel CP 16 is a road tunnel approximately 1.1 kilometers long, forming part of the vital infrastructure of the Mumbai-Nagpur Expressway, one of the most important transportation routes in the state of Maharashtra, India. This tunnel plays a crucial role in enhancing connectivity between these two major cities, significantly reducing travel time and facilitating the smooth transit of both light and heavy vehicles. Equipped with advanced safety and monitoring systems, the tunnel ensures safe passage under all weather conditions. For the safety of this tunnel, Opacity meters and ultrasonic anemometers, both distributed by Durán Electrónica, ensuring optimal air quality control and safe conditions for all users.

## **NILAGRAR ZOJILA TUNNEL, HIMALAYA** Toxic gas detection and environmental monitoring. **March 2024.**

ZOJI-LA is a two-lane road tunnel of about 14 kilometres in length in the Himalayan range, between Ganderbal of Kashmir and the town of Grass, at an altitude of 3,528 m above sea level. The two major works of this tunnel are the Nilgar Tunnel 1 and Nilgar Tunnel 2 providing all-weather connectivity and shortening distances and travel time. For the safety of this prestigious tunnel, DURTOX CO, NO<sub>2</sub> and NO detectors, designed and manufactured by Durán Electrónica, as well as opacimeters, luminance meters and ultrasonic anemometers, distributed by Durán Electrónica, have been chosen.

## **LO PRADO AND ZAPATA TUNNELS, CHILE.** Durttox CO and NO<sub>2</sub>, propeller anemometers, opacimeters and linear detection by fiber optic MZX Sensor Laser Plus. **July 2023.**

Highway tunnels located on Route 68. The Lo Prado Tunnel crosses the San Francisco hill and measures 2810m. Reduce the trip between Santiago and Valparaiso. The Zapata Tunnel, formed by two tubes of 1.25 and 1.07 km, divides the Valparaiso and Metropolitan regions. Both tunnels have been updated and modernized with DURTOX CO and NO<sub>2</sub> detectors, designed and manufactured by Durán Electrónica, as well as propeller anemometers, opacimeters and linear fiber optic detection, distributed by Durán Electrónica.

## **URIOL AND PETIT BRION TUNNELS, ISÈRE, FRANCE.** Luminance meters. **March 2023.**

The Uriol and Petit Brion tunnels are located on the motorway known as Trièves, A51 from Isère. Both tunnels are made up of two tubes and a length of 490 meters for the Uriol tunnel and 595 meters long for Petit Brion. The latter is the 94 longest road tunnel in France. For the measurement and control of the luminous intensity inside both tunnels, the DURLUM 4-20mA Luminance Meters, distributed by Durán Electrónica, have been chosen.

## **ECHEMISHKA TUNNEL, BULGARIA** DURTOX CO & NO<sub>2</sub>, anemometers and opacimeters. **March 2022.**

Located on the A-2 HEMUS motorway, the Echemishka Tunnel has been in operation since 1984. It is 765 meters long and after some rehabilitation work to guarantee safety, it is fully passable. For the detection of toxic gases, the DURTOX 4-20mA CO and NO<sub>2</sub> detectors manufactured by Durán Electrónica have been chosen, and for environmental control, anemometers and opacimeters distributed by Durán Electrónica.

## **ZHELEZNITSA TUNNEL, SOFIA, BULGARIA**

**DURTOX CO & NO<sub>2</sub>, anemometers and opacimeters. January 2022.**

From the town of Simitli and via the Struma highway, exit the longest road tunnel in Bulgaria. It has 2 tubes of 2 kilometers long each and is equipped with all the necessary systems for lighting and ventilation, among others. The detection of toxic gases is proposed by means of DURTOX 4-20mA of CO and NO<sub>2</sub> manufactured by Durán Electrónica as well as for environmental control if opacimeters and anemometers distributed by Durán Electrónica are installed.

## **PAMPLONA TUNNEL, NORTH OF SANTANDER, COLOMBIA.**

**DURTOX CO & NO<sub>2</sub>. Environmental Control. December 2021.**

The Pamplona tunnel is the first bidirectional work in Norte de Santander with a length of 1,400 meters and an emergency gallery of 924 meters with three access points. It is built in section 1 of the Pamplona-Cúcuta project, considered the most important in this region. The detection of toxic gases is carried out with the DURTOX 4-20mA CO and NO<sub>2</sub> detectors manufactured by Durán Electrónica and for environmental control, opacimeters, anemometers, luminance meters, lux meters and a meteorological station distributed by Durán Electrónica have been installed.

## **LIMA AND CALLAO METRO, LIMA, PERU.**

**DURTEX X-HC PRO. August 2021.**

The Lima and Callao Metro is the metropolitan railway that ended the Lima Tram. Made up of railway rolling trains and six lines within its Basic Network system. It reaches 165 km. Its line 2 Stage 1A runs from East to West through the city, linking the district of Ate with El Callao, providing a great quality of life to citizens by decongesting the dense traffic generated so far. For the detection of hydrogen in the battery room of this Line 2, the DURTEX X-HC PRO detectors have been chosen.

## **VITINIA TUNNEL, BULGARIA.**

**Heat Detection Cable. April 2021.**

The Vitinia tunnel is a mountain pass in the Balkans. With a length of 1,185 m it is the longest in Bulgaria. In its reconstruction, the structure has been strengthened, its lighting, ventilation systems and intelligent signals have been improved.

## **TUNNELS UF-5-6-7 THE COCOA ROUTE, BUCARAMANGA AND BARRANCA-BERMEJA, COLOMBIA.**

**Opacimeters, Anemometers, DURTOX CO & NO<sub>2</sub>. May 2020.**

This road includes the construction of two tunnels: La Sorda and La Paz of 5.96 kilometers in length that allow to save the rugged terrain of the Serranía de La Paz, connecting the departments of Antioquia and Santander to the Magdalena River and being part of the communication corridor with Venezuela.

## **GIBRALTAR TUNNEL**

**DURGAS CO & NO<sub>2</sub>, Opacimeters, anemometers. June 2020.**

Construction of a tunnel from the border, crossing of La Línea de la Concepción in Cadiz to the airport. This project consists of the construction of a new 1.24-kilometers communication highway to Gibraltar Airport that will prevent the current route that crosses the airport's flight runway.

## **TUNNEL THE MELON, VALPARAISO, CHILE.**

**Opacimeters, anemometers, luminancimeters & gas Detection. May 2020.**

The tunnel is located on Route 5 North, connecting the provinces of Quillota and Petorca of the Valparaíso region and through the hills Las Estaquitas, Los Carcoles, Los Quillalles and El Espino. It has a total length of approximately 5 kilometers, of which approximately 2.52 km correspond to the tunnel and the remaining length corresponds to the north and south accesses to it.

## **CHIMALPA TUNNEL, MEXICO**

**Opacimeters & Luminancimeters. May 2020.**

Located on the Toluca Naucalpan highway in Mexico, the Chimalpa I tunnels of 530m long and Chimalpa II of 225m in length are equipped with the highest technical solutions and a modern waterproofing.

## **TUNNELS OF ALPEDRINHA AND GARDUNHA, PORTUGAL.**

Opacimeters & CO gas detection **October 2019.**

In these tunnels located on the southern slope of the Sierra de la Gardunha opacimeters have been installed and protected with CO detection.

## **URBAN TUNNELS, PORTO, PORTUGAL**

Opacimeters **October 2019.**

Two urban tunnels in the city of Porto have been equipped with two opacimeters.

## **D'ENVALIRA TUNNEL, ANDORRA.**

DURGAS, EURODETECTOR CO & NO<sub>2</sub>, Opacimeters, Ultrasonic anemometers **July 2019.**

This tunnel with a length of 2,879 meters opts for the renovation of its existing DURGAS system with CO and NO<sub>2</sub> EURODETECTORS, Opacimeters and ultrasonic anemometers.

## **LINE OF THE REDENTOR, ARGENTINA-CHILE.**

Anemometers & Weather Stations **April 2019**

The tunnel of the Christ the Redeemer, is officially designated as the Los Libertadores International Pass. It is an automotive border crossing that connects Argentina and Chile through the Andes mountain range. It is located at an altitude of 3209m above sea level and measures about 3km long.

## **LIBRAMIENTO SUR II DE MORELIA TUNNEL, MICHOACÁN, MÉXICO.**

Opacimeters, vane anemometers, converters, cup and vane anemometers, CO and NO<sub>2</sub> detection. **August 2018.**

The excavation of Tunnel II of the Carmelinas de Morelia branch will have its access in the Mil Cumbres exit. It is protected with products manufactured and distributed by DURÁN ELECTRÓNICA.

## **RUTA AL MAR. COLOMBIA.**

Weather Stations. **June 2018.**

The project contemplates a route of 409 km and goes through the towns in the Sucre and Córdoba Departments. The Antioquia-Bolívar road has been provided with the Compact Meteorological Stations distributed by DURÁN ELECTRÓNICA.

## **MANZANILLO RAILROAD TUNNEL, COLIMA, MEXICO.**

Opacimeters, vane anemometers, converters, cup and vane anemometers **February 2018.**

The Manzanillo railroad tunnel will communicate the Vaso II railroad viaduct in Cuyutlán lagoon and the port of Manzanillo. Air quality control is carried out with the installation of opacimeters, vane anemometers, converters and cup and vane anemometers, distributed by Durán Electrónica.

## **LÍNEA AMARILLA TUNNELS, LIMA, PERÚ.**

Opacimeters, Sondeltox CO,NO & NO<sub>2</sub>, Vane and cup and vane Anemometers. **December 2017.**

Línea Amarilla Project gives its name to the new connection route between the limit of the city of Callao and Lima. It is composed of 10 viaducts and 9 kilometers of new roads. The construction of two-way tunnels has a length of two kilometers. They cross under the Rimac river up to the area of the historical center of Lima. Also, they include video surveillance, fire alarm systems and anti-seismic design.

## **SUPERVÍA PONIENTE, MEXICO.**

DURTOX CO & NO<sub>2</sub> **November 2017.**

The Supervía Poniente is a road project that brings together the Santa Fe area in México Federal District and the Beltway Ring through various tunnels, bridges and fast roads. This mega work has as purpose to solve the connection problems around the area of Santa Fe. In the tunnels along this way and at the Avenida de los Poetas there are installed DURTOX CO and DURTOX NO<sub>2</sub>.



## **BOGOTÁ-VILLAVICENCIO ROUTE TUNNELS, COLOMBIA**

SONDELTOX CO, DURTOX NO<sub>2</sub>, Anemometers & Opacimeters. **August 2017.**

The Bogotá-Villavicencio route, with dual carriageway, is 28,9 Kms. in length. This beneficial infrastructure includes ten bridges and four tunnels. One of them, located between Guayabetal and Puente Quemame, is the fourth longest in Latin America with a length of 4,4 Kms. The tunnel is built to the highest quality standards and technology, with, for example, an Automatic Incident Detection system and an underground evacuation gallery.

For the carbon monoxide gas detection systems of these tunnels, SONDELTOX detectors have been selected, manufactured by DURÁN ELECTRÓNICA. Air quality control is carried out with anemometers and opacimeters distributed by DURÁN ELECTRÓNICA.

## **SUBWAY TUNNEL IN MASHHAD, IRAN.**

Vane anemometers, **May 2017.**

Mashhad is the second largest city in the country. It is located very near to the border with Turkmenistan and Afghanistan. The Mashhad city railway, or Metro, is the second fast transit system in Iran. In the new Line 2 of the Metro vane anemometers distributed by Durán Electrónica have been installed.

## **ESCENICA ALTERNA TUNNEL, ACAPULCO, MEXICO.**

Opacimeters, Sondeltox CO, Anemometers, Luminancimeters, Fibrolaser III®, Fire Detection and Weather stations. **January 2017.**

The Escénica Alterna tunnel is 3,155 m long in Acapulco and is the longest tunnel in Mexico, a macro tunnel that will bring together the Diamante and Dorada areas of Acapulco. This complete project is composed of the tunnel and of 4 Km. long elevated viaduct that will connect it in the Northern section with the Metlapil highway.

For the gas and fire detection systems in this state-of-the-art tunnel, products manufactured or distributed by DURÁN ELECTRÓNICA have been chosen. Air quality control is carried out with anemometers, opacimeters and luminance meters distributed by DURÁN ELECTRÓNICA.

## **INTERLOMAS TUNNELS, MEXICO.**

Opacimeters, DURTOX CO & NO<sub>2</sub>, Vane anemometers **December 2016.**

These tunnels are part of the first stage of the project for a connection viaduct between Interlomas and the new Naucalpan-Toluca highway.

For the gas detection systems in this tunnel, the DURTOX gas detection system, designed and manufactured by DURÁN ELECTRÓNICA, has been chosen. Air quality control is carried out with opacimeters and anemometers distributed by DURÁN ELECTRÓNICA.

## **FOLLO LINE PROJECT, OSLO, NORWAY.**

DIREX CO<sub>2</sub>, SONDELTOX CO, DURTOX NO<sub>2</sub>, Vane anemometers, T+H sensor. **May 2016.**

The rail tunnel in this project will be the first long railway tunnel in Norway with separate twin tunnels and will be 20 Km long; Norway's longest railway tunnel to date and the longest in the Nordic countries. It will be protected by DIREX and DURTOX toxic gas detectors, manufactured by DURÁN ELECTRÓNICA, and by anemometers and temperature & humidity sensors distributed by DURÁN ELECTRÓNICA.

## **PARQUES DEL RIO MEDELLIN, COLOMBIA.**

Opacimeters, Sondeltox CO, Ultrasonic Anemometers, Luminancimeters. **May 2016.**

Parques del río Medellín is an integral project of urban transformation that will bring together the city of Medellín through both margins of its river. This project contemplates in its design the improvement of infrastructures, landscaping and vegetation, with the purpose of creating a metropolitan mobility corridor and an important place of encounter for the city's citizens.

## **CRESCO UNDERGROUND TUNNEL, CARTAGENA, COLOMBIA.**

Opacimeters, Sondeltox CO. **June 2015.**

The Crespo tunnel is the final feature of the double road from Barranquilla to Cartagena through the coastal route. The tunnel has a length of 600 meters, on a road of 2.5 kilometers.

## **GAMBETTA TUNNEL, LIMA, PERÚ.**

Opacimeters, Anemometers, Sondeltox CO & NO<sub>2</sub>. **May 2015.**

The Gambetta tunnel is an underground road located in Lima, Perú, whose itinerary passes in its entirety under the future second runway of the Jorge Chávez International Airport, activating traffic from North to South and vice versa.

## **CAVIEDES, HOZ, TORRELAVEGA, GIBAJA AND LIMPIAS TUNNELS, CANTABRIA** Detection of CO, NO<sub>2</sub> and environmental control. **March 2024.**

Project to adapt the CAVIEDES, HOZ, TORRELAVEGA, GIBAJA AND LIMPIAS tunnels in the province of Cantabria to Royal Decree 635/2006, in accordance with the Recovery, Transformation and Resilience Plan financed by the European Union NEXT GENERATION EU. For CO and NO<sub>2</sub> detection, DURTOX detectors designed and manufactured by Durán Electrónica have been chosen, and for environmental control, opacimeters and propeller anemometers, distributed by Durán Electrónica.

## **CASTELLÓN AND VALENCIA TUNNELS** Detection of CO, NO<sub>2</sub> and environmental control. **March 2024.**

Several tunnels in the provinces of Castellón and Valencia have been adapted in accordance with the Recovery, Transformation and Resilience Plan financed by the European Union NEXT GENERATION EU. (52-V-7470). For CO and NO<sub>2</sub> detection, the DURGAS system designed and manufactured by Durán Electrónica has been chosen, and for environmental control, opacimeters and luminance meters, distributed by Durán Electrónica.

## **LA AVANZADA TUNNEL, LEIOA, BIZKAIA** Detection of toxic gases CO, NO<sub>2</sub> and environmental control. **December 2023.**

Project in which the BI-637 road through Leioa recovers surface area for pedestrian use. This will put an end to the problems of noise pollution as well as modernising the infrastructure and including improvements in ventilation, lighting and safety in the tunnel itself. Toxic gas detection is carried out with DURTOX CO and NO<sub>2</sub> detectors manufactured by Durán Electrónica and ultrasonic anemometers distributed by Durán Electrónica have been installed for environmental control.

## **EL BARRIAL TUNNEL, MADRID** Detection of CO, NO<sub>2</sub> and Luminance meter. **September 2023.**

Section of Alsasua street in Pozuelo for the remodeling and burying of the connecting branch A-6 and M-40. Under the incorporation from Avenida de la victoria to the A-6. For this section the detection of CO and NO<sub>2</sub> is carried out with the DURGAS system designed and manufactured by Durán Electrónica and a luminance meter distributed by Durán Electrónica

## **PLAÇA BORRÀS TUNNEL, BARCELONA** Propeller Anemometers and Luxmeters. **September 2023.**

It is also a well-known street in the city of Barcelona and of great tourist interest and vehicle circulation. In the update and improvement of this urban tunnel, propeller anemometers and lux meters, distributed by Durán Electrónica, have been installed.

## **TIERNO GALVÁN PARK TUNNEL, MADRID** DURGAS CO, NO<sub>2</sub> and Opacimeters **July 2023.**

Remodeling and adaptation according to Royal Decree 635/2006. The detection of CO and NO<sub>2</sub> is carried out with the DURGAS system designed and manufactured by Durán Electrónica and opacimeters distributed by Durán Electrónica.

## **CUATRO CAMINOS TUNNEL, MADRID** DURGAS CO and NO<sub>2</sub>. **July 2023.**

Remodeling and adaptation according to Royal Decree 635/2006. The detection of CO and NO<sub>2</sub> is carried out with the DURGAS system designed and manufactured by Durán Electrónica.

## **MARÍA DE MOLINA TUNNEL, MADRID** DURGAS CO, NO<sub>2</sub> and Opacimeters. **July 2023.**

Remodeling and adaptation according to Royal Decree 635/2006. The detection of CO and NO<sub>2</sub> is carried out with the DURGAS system designed and manufactured by Durán Electrónica and opacimeters distributed by Durán Electrónica.

## **VENTISQUERO DE LA CONDESA TUNNEL, MADRID** DURGAS CO, NO<sub>2</sub> and Opacimeters. **July 2023.**

Remodeling and updating of systems according to Royal Decree 635/2006. The detection of CO and NO<sub>2</sub> is carried out with the DURGAS system designed and manufactured by Durán Electrónica and opacimeters distributed by Durán Electrónica.

## **PIO XII TUNNEL, MADRID**

DURGAS CO, NO<sub>2</sub> and Opacimeters. **July 2023.**

Remodeling and updating of systems according to Royal Decree 635/2006. The detection of CO and NO<sub>2</sub> is carried out with the DURGAS system designed and manufactured by Durán Electrónica and opacimeters distributed by Durán Electrónica.

## **MADRID METRO DATA PROCESSING CENTER**

DURGAS AND DURTEX HC PRO. **June 2023.**

This new Data Processing Center (CPD) of the Community of Madrid has all the information of the centralized metro service. It is located in the Canillejas neighborhood. It occupies an area of more than 8,000m<sup>2</sup>, housing third information technology rooms, a room for operators and a room for the management of eventual crises, improving the response to accidents and different functionalities. For gas detection, the DURGAS system and its DURTEX HC PRO detectors, designed and manufactured by Durán Electrónica, have been chosen.

## **TUNNEL OF FANEQUE, LAS PALMAS DE GRAN CANARIA**

Detection of toxic gases CO and NO<sub>2</sub>, and environmental control. **June 2023.**

The Faneque tunnel is number 4 of the 9 planned with a total of 8.4 km on the Carretera de La Aldea. This tunnel is located specifically between El Risco and Agaete on the current GC-200 highway and is the longest formed by two tubes, each 2 km long: the one on the sea side is 2,020 meters long and the one on the land side is 2,100. meters.

It has been equipped with DURTOX CO and NO<sub>2</sub> detectors manufactured by Durán Electrónica and for environmental control, opacimeters and ultrasonic anemometers and cup and vane anemometers, distributed by Durán Electrónica.

## **CRISTO REY TUNNEL AND RIOS ROSAS TUNNEL, MADRID**

DURGAS CO, NO<sub>2</sub> and opacimeters. **May 2023.**

The remodelling and improvement of both tunnels has been completed according to Royal Decree 635/2006, renewing protection plinths, false ceilings and linings. For this adaptation, 1.5 million euros are invested in the Cristo Rey tunnel and 1 million euros in the Ríos Rosas tunnel. The DURGAS system and its detectors for CO and NO<sub>2</sub>, designed and manufactured by Durán Electrónica, as well as opacimeters and linear detection by fibre optics, distributed by Durán Electrónica, are chosen.

## **OINDOLAR AND GOROSMENDI TUNNELS, GUIPUZKOA**

Detection of toxic gases CO and NO<sub>2</sub>, ultrasonic anemometers and opacimeters. **May 2023.**

To adapt the Oindolar tunnels in Villabona and Gorosmendi in Berastegui to European regulations, they are renewed and improved, strengthening their safety, reinforcing the roof and installing the latest generation equipment. In compliance with the new safety requirements for users, the DURTOX 4-20mA CO and NO<sub>2</sub> detectors manufactured by Durán Electrónica and ultrasonic anemometers and opacimeters for environmental control, distributed by Durán Electrónica, have been chosen.

## **ANGLÈS TUNNEL, GERONA**

DURTOX CO and NO<sub>2</sub>. Propeller anemometers, cup and vane anemometers, Luxmeters and Luminancimeters. **March 2023.**

The new Variant of the Anglès tunnel, with a length of 485 metres, is the connection between the C-63 road in Santa Coloma de Farners, Olot and the N-114 towards Girona. This connection helps the quality of life of the residents by avoiding crossing the urban area, as well as reducing circulation by around 5,000 vehicles per day. Propeller anemometers, cup and vane anemometers, Luxmeters and Luminancimeters have been installed, distributed by Durán Electrónica and DURTOX detectors for CO and NO<sub>2</sub> designed and manufactured by Durán Electrónica.



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### **DEVOYU TUNNEL, NALÓN VALLEY, ASTURIAS.**

DURTOX CO, Opacimeters, Propeller Anemometers and Cup and Vane Anemometers. **December 2022.**

In compliance with Royal Decree 635, the Devoyu tunnel on the AS-117 road in Valle del Nalón has been adapted, with Opacimeters, propeller anemometers and cup and vane anemometers, distributed by Durán Electrónica and DURTOX 4-20mA detectors for CO control designed and manufactured by Durán Electrónica.

### **NORTH ROAD JUNCTION TUNNELS M-30, MADRID**

DURTOX CO and NO<sub>2</sub>, Opacimeters, Compact Weather Stations and Propeller and Cup and Vane Anemometers. **June 2022.**

From Paseo de la Castellana in the direction of Colmenar-Tres Cantos (M-607) and towards the M-30 south, Madrid City Council proceeds with the remodeling of this northern node, supporting the Environmental Sustainability Strategy. It eliminates the traffic congestion of 67,800 vehicles per day, eliminates intersections, saves time for private vehicles and benefits air quality by reducing 14 tons of CO<sub>2</sub> per day.

### **TETUÁN TUNNEL, SANTANDER**

DURTOX CO and NO<sub>2</sub>, Propeller Anemometer, Opacimeter and linear temperature detection by thermocouple. **February 2022.**

The old tunnel from the 19th century, also called the La Caña tunnel, was originally a railway tunnel. It communicates the neighborhoods of Tetuán and El Sardinero. With 290 meters in length, a width of 3.5 meters and a height between 3.25 and 3.6 meters, it is being remodeled to join it with the Sardinero and Puertochico bike lanes as well as to adapt it to the R.D. 635.

### **POBLENOU, PLA DE PALAU AND COLOM TUNNELS, BARCELONA**

Propeller anemometers and Luxometers. **January 2022.**

These three tunnels are located on the coastal ring road known as La Ronda Litoral and also called B-10, being the high capacity road belt of the city of Barcelona. For a better adaptation to the road conditions, both LED and environmental lighting and in accordance with Royal Decree 635, the tunnels have been equipped with propeller anemometers and lux meters, distributed by Durán Electrónica.

### **LEPANTO TUNNEL, VIGO.**

Propeller anemometers, cup and vane anemometers, opacimeters and DURTOX CO and DURTOX NO<sub>2</sub> detectors. **December 2021.**

With more than 100 meters, this underpass connects Lepanto street, in the center of Vigo, with the highway, as well as a second tunnel that gives entry to vehicles from the AP-9 to the Vialia center and passing under the new Urzaiz station. With the creation of this tunnel, the overpass over Alfonso XIII is definitely eliminated.

### **YÉBENES TUNNEL, TOLEDO.**

Vane anemometers, DURTOX CO and NO<sub>2</sub> detectors. **November 2021.**

After a road safety study, the tunnel of Yébenes locality on the CN-401 has been subjected to the adaptation of its facilities. It has a two-way tube, supporting a daily traffic of 5,553 vehicles of which 11% are heavy vehicles. In adapting this infrastructure, vane anemometers distributed by Durán Electrónica and DURTOX detectors for CO and NO<sub>2</sub> designed and manufactured by Durán Electrónica have been installed.

### **M50 PERALES DEL RÍO TUNNEL.**

Opacimeters, Vane Anemometers, DURTOX CO and DURTOX NO<sub>2</sub>. **November 2021.**

Located at PK 39 + 650 of the M-50 in Madrid, the Perales del Río tunnel is 690 meters long and has two independent tubes in each direction of traffic. Each has four lanes of 3.5 meters wide. To adapt it to the requirements established according to directive 204/54 / CE and RD 635/2006, it has been equipped with opacimeters, helix anemometers distributed by Durán Electrónica and DURTOX detectors for CO and DURTOX for NO<sub>2</sub> designed and manufactured by Durán Electrónica.

### **EXPANSION VSM (SOUTH METROPOLITAN VARIANT), BILBAO.**

Ultrasonic anemometers, DURTOX CO and DURTOX NO<sub>2</sub>. **November 2021.**

The VSM Variante Sur Metropolitana de Bilbao or also called "Supersur" facilitates the entry and exit of goods by truck from the port of Bilbao. It supports a daily traffic of 4,460 trucks. It has the latest advances in digitization and security, improving energy efficiency with 3,993 LED lamps. Ultrasound anemometers distributed by Durán Electrónica and DURTOX CO and DURTOX NO<sub>2</sub> detectors designed and manufactured by Durán Electrónica have been installed in the infrastructure.

### **XERESA TUNNEL, GANDÍA, VALENCIA.**

DURTOX CO & NO<sub>2</sub>, opacimeters, anemometers, meteorological stations and linear temperature detection. **May 2021.**

This tunnel with two tubes of approximately 450m each is located on the AP-7 Valencia – Alicante motorway between the terms of Xeresa and Gandía. It has all the security systems such as variable message panels, cameras, access barriers, lighting systems, traffic lights, ventilation, etc. To comply with Royal Decree 635, it has provided opacimeters, anemometers, meteorological stations and linear temperature detection, distributed by Duran Electrónica, as well as DURTOX detectors for CO and NO<sub>2</sub> control.

### **BAILÉN TUNNEL, MADRID**

DURGAS CO and NO<sub>2</sub>, opacimeters, anemometers, weather station and vane anemometers. **July 2021.**

Great reform of the Plaza de España and 38 more adjoining streets, as well as the Tunnel to join Ferraz with Bailén. All with an approximate budget of 97 million euros in an area of approx. 90,000m<sup>2</sup>.

### **MALLORCA TUNNELS. MONNÀBER TUNNEL AND GROG BLAU TUNNEL.**

Opacimeters & CO DURTOX. **October 2020.**

This route of five tunnels up to 200 meters long, extends between the Torrente d'Almedra and the Cúber reservoir. The first leads to Finca Solleric. For the tunnels Monnàber and Grog Blau, opacimeters distributed by Durán Electrónica, and DURTOX detectors for CO detection, designed and manufactured by Durán Electrónica, have been chosen.

### **GIBRALTAR TUNNEL, GIBRALTAR.**

Opacimeters, cup and vane anemometers and DURGAS System with CO and NO<sub>2</sub> EURODETECTORS. **October 2020.**

The new access to Gibraltar Rock Airport is a 35.7 million euro project with a 1.24 km track. This infrastructure includes the construction of a 350-meter tunnel. The highway will surround Gibraltar Airport including the tunnel under the airport runway head. In addition, the tunnel will have another parallel for the transit of cyclists and pedestrians.

### **JOSE MARIA SOLER TUNNEL, MADRID.**

DURGAS & Opacimeters. **September 2019.**

For its conservation and improvement the tunnel ventilation system is updated by changing the old detection system for our DURGAS system designed and manufactured by DURÁN ELECTRÓNICA. A SENTRY opacimeter, distributed by DURAN ELECTRONICA, has also been installed.

### **SAN JUÁN DE AZNALFARACHE TUNNEL, SEVILLA.**

Opacimeters. **July 2019.**

San Juan de Aznalfarache, located on the banks of Guadalquivir River, near Seville. In order to fulfill current legislation regarding to safety in road tunnels, Opacimeters distributed by DURAN Electronica have been installed.

### **UNDERPASS IN VALENCIA HARBOUR, VALENCIA.**

Opacimeters, Anemometers, CO & NO<sub>2</sub> detectors. **July 2019.**

Valencia Port Authority, public agency entrusted of the management of this key infrastructure in the Spanish Foreign Trade Transport, has refurbished the underpass. New CO & NO<sub>2</sub> detectors, opacimeters, and interior and exterior vane anemometer has ben installed. All manufactured or distributed by DURAN Electronica.

### **EIRIS TUNNEL, LA CORUÑA.**

Opacimeters, vane anemometers DURTOX CO & NO<sub>2</sub>. **September 2018.**

The Eiris tunnel connects in just 3 minutes Matogrande and Os Castros. The objective is to reduce the traffic coming from the port through the Ramón y Cajal Street. It will allow 30,000 vehicles to circulate each day.

### **SAN LORENTZO -LARRE TUNNEL. GUIPUZCOA.**

Opacimeters, ultrasonic anemometers. **September 2018.**

The Gipuzkoa provincial government has approved the project to adapt the San Lorentzo-Larre tunnel, on the A-15 towards Pamplona, with a tender budget of 5,780,814 euros and a period of implementation of 4 months. The project will improve the users safety and the tunnel devices, according to the European regulations.

### **PIQUERAS TUNNEL, SORIA AND LA RIOJA.**

Opacimeters, ultrasonic anemometers. **September 2018.**

The Piqueras Tunnel, in the municipality of La Póveda in Soria, and Lumbreras in La Rioja, is located between kilometers 261 and 264 of the N-111. It has a length of 2,444 m, and a construction investment of more than 75 million euros.

### **MONREPOS TUNNELS, HUESCA.**

Opacimeters, SONDELTOX CO&NO<sub>2</sub>, HDL cable, and vane anemometers.  
**July 2018.**

The Monrepós Tunnels include the sections: Tunnel 3 or Arguís, Tunnel 8 or Caldearenas-Lanave and Tunnel 7 (Caldearenas) Alto de Monrepós-Caldearenas. The detection of toxic gases is carried out with the SONDELTOX CO and NO<sub>2</sub> detectors manufactured by Durán Electrónica. The air control for Lanave and Alto de Monrepós is carried out with the installation of Opacimeters and Anemometers distributed by Durán Electrónica. Linear temperature detection for the Arguis tunnel with Fibrolaser<sup>®</sup> distributed by Durán Electrónica.

### **EMILIO MINE, LOROÑE, COLUNGA, ASTURIAS.**

SONDELTOX CO, NO, NO<sub>2</sub>, Humidity&temperature sensors, cup&vane anemometers.  
**May 2018.**

Mina Emilio is one of the main suppliers of spatofluor in Spain. For its environmental control and detection of toxic gases, it has relied on the installation of Propeller Anemometer, Programmed Bipolar Universal Converter, Temperature and Humidity Sensor and SONDELTOX CO, NO and NO<sub>2</sub> Detectors, distributed and manufactured by Durán Electrónica.

### **BOUZAS TUNNEL, VIGO.**

Opacimeters, SONDELTOX CO and vane anemometers. **December 2017.**

In accordance with Royal Decree 635 for the updating of security in the road tunnels of the country, the substitution and updating of opacimeters, SONDELTOX CO detectors and vane anemometers has been carried out.

### **TUNNELS IN THE AUTOPISTA DEL SOL HIGHWAY, MÁLAGA-ESTEPONA**

Durttox CO 4-20mA, opacimeters, vane anemometers, cup and vane anemometers and weather stations. **November 2017.**

Adaptation to R.D. 635/2006 decree of 26th May of the following tunnels: Montemayor, La Quinta, Rio Verde, Santa Maria I, Calahonda and Nagüeles in the Málaga-Estepona section.

### **URETAMENDI AND ZALDÍVAR TUNNELS, ERMUA, GUIPÚZCOA.**

DURTOX CO and NO<sub>2</sub>, ultrasonic and cup and vane anemometers, luxmeters.  
**July 2017.**

### **AGUAS VIVAS TUNNELS, GUADALAJARA.**

DURTOX CO and NO<sub>2</sub>, opacimeters, vane and cup and vane anemometers, linear heat detection cable. **July 2017.**

### **SERVICE ROAD TUNNEL. TENERIFE.**

Fibrolaser<sup>®</sup> III, Luminancimeters. **November 2016.**

With a total length of 463 meters, it starts at the same point than the Via Litoral tunnel to lead into the rear of the Puerto-Ciudad de Santa Cruz de Tenerife building. Fire detection materials, Luminance meters and Fibrolaser III have been supplied.



### **LA ALDEA TUNNEL, GRAN CANARIA**

DURTOX CO, NO<sub>2</sub>, Anemometers, Fibrolaser® III, Opacimeters, Luminancimeters.  
October 2016.

The Village Tunnel is 3,145 m and is the longest in the Canary Islands. For the gas and fire detection systems of this state-of-the-art tunnel, products manufactured and distributed by DURÁN ELECTRÓNICA have been chosen.

### **CERRADO DE CALDERÓN TUNNEL. MÁLAGA.**

SONDELTOX CO, NO<sub>2</sub>, Fibrolaser® III October 2016.

It is formed by two one-way tubes with 750m length. During its remodeling, the gas detection system and linear temperature detection have been replaced by equipment manufactured and/or distributed by DURÁN ELECTRÓNICA.

### **BELABIETA & SAN LORENZO TUNNELS. GUIPÚZCOA.**

SONDELTOX NO, Anemometers & Opacimeters. July 2016.

Located in the A-15, they include a double tube with two lanes and one-way traffic. They have a length of more than 2,5 km. For the updating of the ventilation system of this tunnel CO detectors manufactured by DURÁN ELECTRÓNICA have been selected, as well as anemometers and opacimeters distributed by DURÁN.

### **MEDIA FANEGA TUNNEL. SEVILLA.**

SONDELTOX CO, Anemometers & Opacimeters February 2016.

### **TUNNEL OF ATOCHA-MAYOR-PZA. MAYOR. MADRID.**

DURGAS CO y NO<sub>2</sub>, Anemómetros (hélice, ultrasonidos y cazoleta y veleta).  
January 2016.

For the renovation of the ventilation system of this tunnel, the new DURGAS system, designed and manufactured by DURÁN ELECTRÓNICA, has been used, as well as the propeller, ultrasound and bowl and weather vane anemometers distributed by DURÁN ELECTRÓNICA.

### **TUNNEL OF PLANETARIO AVENUE. MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. January 2016.

### **TUNNEL OF ALBERTO AGUILERA. MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. January 2016.

### **TUNNEL OF ALFONSO XIII-CORAZON DE MARIA. MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. January 2016.

### **TUNNEL OF PRINCESA-STA. CRUZ DE MARCENADO. MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. January 2016.

### **TUNNEL OF CASTELLANA (PZA. CASTILLA). MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. January 2016.

### **TÚNEL DE ALBERTO ALCOCER (PZA. REPUBLICA DOMINICANA). MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. January 2016.

### **TÚNEL DE FCO. SILVELA - DR. ESQUERDO. MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. January 2016.

### **TÚNEL DE JOAQUIN COSTA (PZA. REPUBLICA ARGENTINA). MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. January 2016.

**TÚNEL DE PZA. DE CONDE CASAL. MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. **January 2016.**

**TÚNEL DE BAILEN (PZA. DE ORIENTE). MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. **January 2016.**

**TÚNEL DE RONDA DE ATOCHA-PASEO INFANTA ISABEL. MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. **January 2016.**

**TÚNEL DE RONDA DE TOLEDO-RONDA DE SEGOVIA. MADRID.**

DURGAS CO & NO<sub>2</sub>, Anemometers. **January 2016.**

**GEREDIAGA TUNNELS. VIZCAYA.**

SONDELTOX CO, NO<sub>2</sub>, Anemometers & Luxometers. **October 2015.**

The Gerediaga-Elorrio section begins at the connection with the AP-8 motorway at the height of Gerediaga, in the municipality of Abadiño. It runs to the west of Elorrio, where, through a new link, it connects with the BI-632, giving continuity to the Elorrio Variant. It has a total length of 6.44 km, with separate two-lane roads along its entire route.

**TUNNEL AT IBERICA DE SALES. REMOLINOS. ZARAGOZA.**

SONDELTOX CO, O<sub>2</sub>, Anemometers and T+H. **October 2015.**

Ibérica de Sales, established in 1932, works mostly in the extraction and commercialization of rock salt, Salt from salt lakes and brine. To control the ventilation system in its vehicle access tunnel, they have put their trust in systems manufactured and/or distributed by Durán Electrónica.

**EL ROMERAL TUNNEL, GRANADA.**

Sondeltox CO, Anemometers and Fire Detection. **August 2015.**

The highway stretch of the Mediterranean highway this tunnel is part of, with 10,2 Km in length, connects to the west with the El Puntalón-Carchuna section, and to the East with the Castell de Ferro-Popolos section. Works include building a link called Castell de Ferro link, as well as the construction of El Romeral tunnel and four viaducts.

This tunnel is protected by CO detectors designed and manufactured by DURÁN ELECTRÓNICA and by fire detectors and anemometers distributed by DURÁN ELECTRÓNICA.

**TUNNELS OF MARIA PITA, LA CORUÑA.**

Sondeltox CO, NO<sub>2</sub>, Anemometers and Opacimeters. **February 2015.**

**TUNNELS OF LA DESKARGA, GUIPUZCOA.**

Sondeltox CO and Ultrasonic Anemometers. **January 2015.**



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### **OTERO DE SANABRIA TUNNELS, ZAMORA.**

Opacimeters, temperature and humidity sensors, CO, NO<sub>2</sub>, O<sub>2</sub> & CO<sub>2</sub> detection.  
January 2019.

The high-speed tunnels located in Otero de Sanabria belongs to the municipality of Palacios de Sanabria in the province of Zamora. This high-speed line belongs to the section between Zamora and Pedralba de la Pradería, close to the A-52 motorway. With this planned investment of 252 million, Zamora will be 10 minutes closer to Madrid and 55 minutes closer to Galicia.

### **SOL RAILWAY TUNEL, MADRID.**

DURGAS and CO & NO<sub>2</sub> EURODETECTORS. October 2018.

The Atocha-Chamartín railway tunnels are in Madrid. With south-north orientation, they connect the Atocha-Cercanías station (south-head) with Chamartín station (northern head), the most important in the capital in terms of passenger numbers. The connection currently consists of two tunnels in service with two railways each and a third under construction for the AVE (high speed train) which pass through the Recoletos station. The second tunnel in service is located to the west of the first one, passing through Sol, and the high-speed tunnel is located to the east. For this second tunnel, the existing suction equipment has been replaced for DURGAS system with CO and NO<sub>2</sub> EURODETECTORS, manufactured and distributed by Durán Electrónica.

### **SERRA GROSSA TUNNEL, ALICANTE.**

CO & NO<sub>2</sub> Eurodetectors, Opacimeters, Ultrasonic Anemometers, HDL cable April 2017.

Railway tunnel of 1.4 kilometers in length excavated under the mountain range and that is part of the so-called variant of the Serra Grossa with entrance to the tunnel by the street Obispo Victorio Oliver of Alicante.

### **AVE PAJARES HIGH SPEED TUNNEL, ASTURIAS.**

Weather Stations April 2016.

### **AVE TUNNEL VALLADOLID-VENTA DE BAÑOS, VALLADOLID.**

CO & O<sub>2</sub> Sondeltox, Opacimeters, T+H Sensors August 2015.

### **VIGO-DAS MACEIRAS TUNNEL, PONTEVEDRA.**

CO & NO<sub>2</sub> Sondeltox, Opacimeters, Ultrasonic Anemometers January 2015.



### **SERVICE GALLERIES, SEVILLE AIRPORT.**

**DURGAS, DURTEX HC PRO and EURODETECTORS of O<sub>2</sub> and CO. July 2024**

Sevilla Airport, also known as Sevilla-San Pablo Airport, for the service gallery, has trusted again in DURGAS System, renewing all the EURODETECTORS of CO, O<sub>2</sub> and DURTEX HC PRO detectors for explosive gases, designed and manufactured by Durán Electrónica, S.L.

### **200 Km UTILITY TUNNELS, MADRID.**

**DURGAS CO, O<sub>2</sub>, H<sub>2</sub>S & Explosive gases. January 2023.**

The Madrid City Council has been placing its trust in DURÁN ELECTRÓNICA products since 2001 to protect the city's underground galleries. An initial 100km stretch equipped with EUROSONDELCO power plants and CO, H<sub>2</sub>S, O<sub>2</sub> and explosive gas detectors have been joined by extensions of another 50km in 2011 and new stretches up to 200km today. The EUROSONDELCO plants have been replaced by the DURGAS plants, of a more recent design.

### **LOS BERROCALES UTILITY TUNNELS, MADRID**

**DURGAS, DURTOX O<sub>2</sub>, H<sub>2</sub>S, DURTEX and CO EURODETECTORS. April 2022.**

The large urban project of Los Berrocales in the southeast of Madrid houses more than 22,000 homes, an industrial park, offices and landscaped green areas in a space of some 8 million m<sup>2</sup>. To protect its Service Galleries, the DURGAS system has been chosen, designed and manufactured by Durán Electrónica, S.L.

### **SERVICE GALLERY LAS DELICIAS STATION, ZARAGOZA**

**DURGAS & DURTOX-X CO. September 2021.**

The Zaragoza-Delicias railway station was inaugurated on May 7, 2003. It is also known simply as Delicias, being the fifth station in Spain by number of long-distance travelers. The station also houses the Zaragoza Bus Station, giving the possibility of combining different modes of transport. Its rail services offer the AVE, ALVIA and TALGO trains for long distance and MD, TRD, Regional and express trains for medium distance. The C-1 commuter line is also part of the station. To protect this service gallery, the DURGAS System has been installed with DURTOX-X detectors for CO, designed and manufactured by Durán Electrónica.

### **ASERVICE TUNNELS, MALAGA AIRPORT.**

**EURODETECTORS O<sub>2</sub> & DURTEX HC PRO. June 2019.**

### **SERVICE TUNNELS, ALICANTE AIRPORT.**

**DURGAS, CO DETECTION, O<sub>2</sub>, Explosive Gases & H<sub>2</sub>S. December 2018.**

The airport of Alicante-Elche, known as El Altet airport, is located 8 km to the south-west of Alicante. It is located in the municipality of Elche, between the districts of El Altet and Torrellano. It occupies the fortieth position in the European airport network according to number of passengers. In addition, it represents the airport with the highest passenger traffic in the Valencian Community. In its service gallery, the DURGAS system has with INTEGRA II Integration modules have been installed, designed and manufactured by Durán Electrónica.

### **SERVICE TUNNELS SEVILLE AIRPORT.**

**SIEDEGAS, CO & O<sub>2</sub> EURODETECTORS CO & DURTEX HC PRO. November 2018.**

Sevilla airport, also known as Sevilla- San Pablo airport, is 3 km northeast from the city. It is located between the city limits of Sevilla and La Rinconada. It has an airstrip 3,360 m long by 45 m wide, 42 check-in desks and 16 boarding gates which gave access to five telescopic runways. The SIEDEGAS system has been installed in the service gallery with CO and O<sub>2</sub> EURODETECTORS and DURTEX HC PRO detectors for explosive gases.

### **SERVICE TUNNELS, IBIZA, SPAIN**

**STANDGAS HC, STANDGAS PRO LCD NO<sub>2</sub> & O<sub>2</sub>. July 2018.**

Ibiza airport is the main communication artery for Ibiza and Formentera. To handle the high demand of passengers and traffic, an expansion and adaptation of the terminal and installations. The service tunnels that connect the various buildings have been equipped with detectors manufactured by Durán Electrónica.

### **UTILITY TUNNELS AT GSW (Global Steel Wire) SANTANDER, CANTABRIA.**

**DURGAS CO & O<sub>2</sub>. September 2015.**

Global Steel Wire S.A. is a company in the CELSA Group that specializes in the manufacture of wire rods, with an extensive range of steels and dimensions. Its service gallery has been protected with the Durgas system manufactured by Durán Electrónica.

## TUNNELS

ARIYADH OLD AIRPORT TUNNEL, SAUDI ARABIA.  
3 TUNNELS. BRAGA. PORTUGAL  
D'ENVALIRA TUNNEL. ANDORRA  
DURANGO-MAZATLAN TUNNELS, MEXICO.  
EUROSCUP TUNNEL - PORTUGAL  
HIDROSOGAMOSO TUNNEL. COLOMBIA.  
MOTORWAY TUNNELS ATHENS-TESALONICA. GREECE  
NUEVA NECAXA-AVILA CAMACHO TUNNEL. MEXICO  
ORTEGA Y GASSET TUNNEL, DOMINICAN REPUBLIC.  
SUMAPAZ TUNNEL, COLOMBIA  
TREMIE DAKAR. TUNNELS. CASABLANCA. MOROCCO  
TUNNEL IN ZAQUIAT, MOROCCO

## UTILITY TUNNELS

VIDIN BRIDGE UTILITY TUNNELS, VIDIN. BULGARIA.



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## ROAD TUNNELS

A8 HIGHWAY MALMASIN. VIZCAYA  
ABLANEDA TUNNEL, ASTURIAS.  
ALCANTARA. MÁLAGA  
ALFONSO XIII TUNNEL. MELILLA  
ALTET TUNNEL, ALICANTE.  
ALTO DE SOMOSIERRA TUNNEL, MADRID.  
AMISALAIETA. NAVARRA  
ÁNGEL GUIMERÁ. VALENCIA  
ARGUISAO TUNNEL, GUIPUZCOA.  
ATOCHA-CHAMARTIN RAILWAY TUNNEL. MADRID  
AZCA COMPLEX TUNNELS. MADRID  
BARRANCO DE LA BATALLA TUNNEL, ALICANTE.  
BARRIO COVADONGA. SANTANDER  
BASATAUNDI. NAVARRA  
BIELSA-ARAGNOUET TUNNEL, SPAIN-FRANCE.  
BILBAO ACCESS TUNNELS THROUGH SAN MAMES, VIZCAYA  
BIMENES I. ASTURIAS  
BIMENES II. ASTURIAS.  
BOTIN CENTER UNDERPASS, SANTANDER.  
BOUZAS. GALICIA  
BRACONS TUNNEL. GIRONA  
C.C TALAVERA TUNNEL. TOLEDO  
C.R.I. ASTURIAS  
CALDERÓN STADIUM. MADRID  
CAPISTRANO. MÁLAGA  
CARCHUNA & FUENTECILLA. GRANADA  
CARTAGENA-ESCOMBRERAS. MURCIA  
CARTAGENA-VERA. ALMERIA  
CEREIXAL. BECERREÁ. LUGO  
CERROGORDO. MÁLAGA  
CERROSOL AND EL PINO. MÁLAGA  
CHURRIANA TUNNEL - MÁLAGA.  
COLLADOS. GIRONA  
CONDADO DE TREVIÑO. ÁLAVA  
CONDE DE CASAL SQUARE. MADRID  
CONSTITUCIÓN AVENUE UNDERPASS. CASTELLÓN  
CORNES - O'HÓRREO TUNNEL, SANTIAGO DE COMPOSTELA.  
COSTA RICA. MADRID DONCOS. LUGO  
DE LA VEGA. TENERIFE  
DONCOS. LUGO  
EIBAR. VITORIA  
EL BICHO TUNNEL, TENERIFE.  
EL BRUC TUNNEL, BARCELONA.  
EL REGUERAL TUNNEL, ASTURIAS.  
EL SERRALLO. GRANADA  
ENDARLATSA. GUIPUZCOA  
FOLGOSO. VIGO - MADRID HIGHWAY  
FONISTO  
FONTFREDA TUNNEL, GIRONA.  
FRESNO. SEGOVIA  
FUENTEBUENA. BURGOS  
GRANOLLERS. BARCELONA  
HÓRREO TUNNEL, SANTIAGO DE COMPOSTELA.  
JARRIO. ASTURIAS  
JOANET TUNNEL, GIRONA.  
LA CANDA. A CORUÑA  
LA CAÑIZA. PONTEVEDRA  
LA CERDERA TUNNEL. LERIDA  
LA HERRADURA. GRANADA  
LA MARGA TUNNEL, LA ALBERICIA. SANTANDER.  
LAGO. MÁLAGA  
LA MINILLA. GRANADA  
LES FOSSES TUNNEL, GIRONA.  
LLEIDA STATION. LLEIDA  
LOS NOGALES. PALENCIA  
LOS OMEYAS. CÓRDOBA  
LOS YEBENES. TOLEDO  
LUKO. VITORIA  
M111. BARAJAS AIRPORT. MADRID  
M-50 FALSE TUNNEL. MADRID  
MADROÑO. MÁLAGA  
MALAGA - GUADIARO HIGHWAY  
MALMASIN & ARTXANDA. VIZVAYA.  
MAMARIAGA. VIZCAYA



MEDIA FANEGA. SEVILLA  
MEDITERRANEAN HIGHWAY TUNNELS  
MENÉNDEZ PIDAL. VALENCIA  
METROPOLITAN TURNOFF. BILBAO  
MIRAVETE TUNNELS PRIAÑES  
MIRAVETE. CACERES  
MONREPÓS 1. HUESCA  
MONREPÓS 2. HUESCA  
MONT-ROS. GIRONA  
MONTGRÓS TUNNEL - BARCELONA.  
MORATA TUNNEL, ZARAGOZA.  
MORCILLA TUNNEL. SANTANDER BAY  
MUROS DE NALON TUNNELS, ASTURIAS.  
NAGÜELES. MÁLAGA  
NEW CAR PARKS IN SERRANO STREET, MADRID.  
NUEVO CENTRO. VALENCIA  
OLANDIXO. GUIPUZCOA  
OLLERÍA. XÁTIVA. VALENCIA  
PADORNELO. A CORUÑA  
PADURA. ÁLAVA  
PAIS VASCO HIGHWAY  
PASAIA TURNOFF. GUIPÚZCOA  
PEDRALBA TUNNEL, ARAGÓN.  
PEÑAFLOR. ASTURIAS  
PERDÓN. PAMPLONA  
PESGET ALEXANDRE AVENUE. VALENCIA  
PIEDRAFITA TUNNEL EXPANSION  
PIEDRAFITA. LEÓN  
PIEDRAS BLANCAS TUNNEL, CANTABRIA.  
PILES-INFAZÓN SECTION. ASTURIAS  
PIO XII TUNNEL, MADRID.  
PIO XII, MADRID  
PIQUERAS. LOGROÑO  
PIQUERAS. SORIA  
POLOPOS TUNNELS, GRANADA  
PORT OF VALENCIA. VALENCIA  
PRIAÑES  
PUERTO DE VIGO ACCESS. PONTEVEDRA  
PUERTO RICO-MOGAN TUNNELS, GRAN CANARIA.  
PUIG-REIG / BERGA. BARCELONA  
R4 WITH M50 INTERSECTION. MADRID  
RAÑADOIRO TUNNEL. ASTURIAS  
REAL MADRID TRAINING CENTER DISTRIBUTOR. MADRID  
RIAÑO TUNNEL, ASTURIAS  
RÍAS ALTAS TUNNEL.  
RONDA ESTE FALSE TUNNEL. ZARAGOZA  
SALER. VALENCIA  
SAN ESTEVE D'EN BAS. LA VALL D'EN BAS. GIRONA  
SAN PEDRO DE ALCÁNTARA TUNNEL, MÁLAGA.  
SAN PEDRO. LUGO  
SANTA MARIA UNDERPASS. MADRID  
SE40 HIGHWAY. SEVILLA  
SECOND BELTWAY. SAN SEBASTIAN  
SODUPE. VIZCAYA  
TRABADELO. LEÓN  
TREVIÑO, BURGOS  
TUNNEL FOR CARGO. ELCHE  
TUNNEL UNDER MALAGA AIRPORT LINK  
TUNNEL OF URDINBIDE, GUIPUZCOA.  
TUNNELS OF GAINZABALA, GUIPUZCOA.  
VALLADARES TUNNEL EXPANSION. VIGO  
VENTA DE LA MORCILLA TUNNEL, CANTABRIA.  
VENTISQUERO DE LA CONDESA. MADRID  
VIA LITORAL TUNNEL, TENERIFE  
VIC-RIPOLL. GIRONA LOS YEBENES. TOLEDO  
VIELHA. LÉRIDA  
VILLAFRANCA. LUGO  
VILLENIA AND DESPENAPERROS TUNNELS, CIUDAD REAL.  
YESA and LIEDANA TUNNELS, NAVARRA.  
ZALDIBAR. BIZKAIA  
ZALDIVIA. PAÍS VASCO  
ZORROAGA. GUIPUZCOA



## RAILWAY TUNNELS

AXARQUIA. MÁLAGA  
CAN TUNIS TUNNEL. BARCELONA  
EIBAR. VITORIA  
ESTACIÓN PARQUE TUNNEL - ELCHE.  
GURUZTETXIKI, APOTZAGA AND IZURIETA. GUIPÚZCOA  
LA CODINA. BARCELONA.  
LA PORTADA. LA PALMA  
LLEIDA STATION TUNNEL  
MÁLAGA AIRPORT ACCESS TUNNEL  
PORT OF ALGECIRAS. CÁDIZ  
RAILWAY TUNNEL ATOCHA-CHAMARTIN. MADRID  
RAILWAY TUNNEL CHAMARTÍN-T4 BARAJAS AIRPORT, MADRID.  
RAILWAY TUNNEL ELCHE.ALICANTE

## UTILITY TUNNELS

100 KM MADRID CITY UTILITY TUNNELS (INITIAL PHASE)  
ALMERIA CENTRAL MARKET UTILITY TUNNELS.  
EL TELLER MALL UTILITY TUNNELS, VALENCIA  
LA PEINETA. MADRID  
MALAGA AIRPORT.  
MALAGA SUBWAY  
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