



Applus<sup>+</sup>

*Together*  
beyond  
standards

# ENERGY & INDUSTRY DIVISION

ROADS

2023



## Index:

- 1 Construction services**
- 2 Roads knowledge**
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- 4 Our clients**





## 1. Construction services

## Areas of activity



roads



airports



water



railways



building



renewables



ports



industrial



waste management

# Services

**Feasibility Studies,  
Preliminary Design, Detailed  
Design and Design Review  
As built projects  
Road Safety Audits  
Topographical Services  
Geotechnical Engineering**



**QA/QC  
HSE  
On site Inspection  
Topographical Survey  
Instrumentation and Monitoring  
Testing of Materials  
Contract management  
Technical Office Service  
Expertise Advisory**

**Road survey  
Technical consultancy  
Asset management systems  
Structural Integrity Asset**



## 2. Roads knowledge

# Design

## Projects and Technical Studies

- Road planning
- Preliminary design
- Feasibility Studies
- Construction projects
- Urban development plans
- Environmental impact assessments
- Expropriation projects

## Topographical services

- Cartography and mapping
- 3D Digital Terrain Modeling
- On site layout

## Geotechnical engineering

- Ground Investigations and laboratory testing
- On site testing and geophysics
- Project review and Foundations Calculations
- Structural recognition
- Geotechnical auscultation projects
- Geotechnical Risk Analysis





# Construction

- Design review
- Quality control of materials
- Control and supervision of construction process
- Geometric and quantity control
- Program supervision
- Budgetary control
- Expertise advisory
- On site laboratory installation
- Environmental supervision
- Health and safety monitoring
- Geotechnical instrumentation and monitoring



# Operation

## PAVEMENT MANAGEMENT

- ⊕ Roads Survey. Measurement and analysis of the structural and functional parameters of the roads (systematic nets control and new works quality control)
- ⊕ Visual and geometrical road inventories. LIDAR
- ⊕ Technical consultancy (rehabilitation and pathologies studies, development of the preservation by indicators system, structural design...)
- ⊕ Management systems development for the preservation of the roads and bridges
- ⊕ R+D+i projects

## PAVEMENT MANAGEMENT SYSTEMS

- ⊕ Control and management of indicators and roads inventory
- ⊕ Studies of fatigue prediction through empirical models of the characteristic indicators, investments on the road network planning and optimization
- ⊕ Network management systems over GIS platforms.

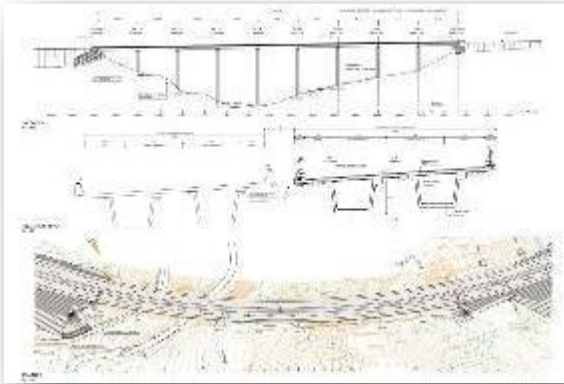




### 3. Road References

# Design

DETAILED PROJECT: CONVERSION IN HIGHWAY OF THE MORRAZO CORRIDOR. STRETCH II. K.P. 7+300-11+150



LAYOUT PROJECT AND ENVIRONMENTAL IMPACT STUDY: CONNECTING ROAD OF THE A-52 WITH THE INDUSTRIAL PARK OF SAN CIBRAO DAS VIÑAS. STRETCH: AC-52 - N-525



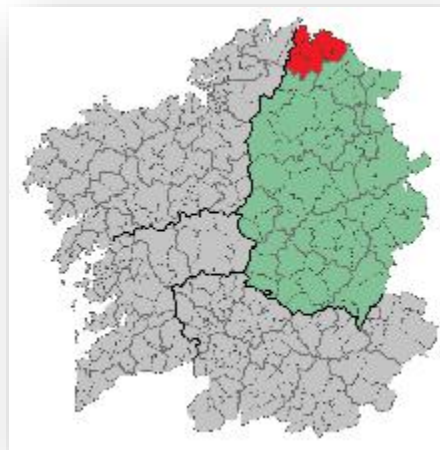
FEASIBILITY PROJECT AND ENVIRONMENTAL IMPACT STUDY: VARIANT OF SANTA COMBA



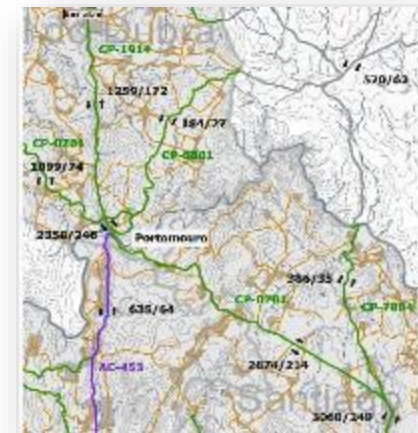
SECTORAL PLAN: ROAD NETWORK OF LUGO AND ITS AREA OF INFLUENCE



PRELIMINARY STUDY: IMPROVEMENT OF THE COMMUNICATION OF THE WESTERN SHORES WITH LUGO

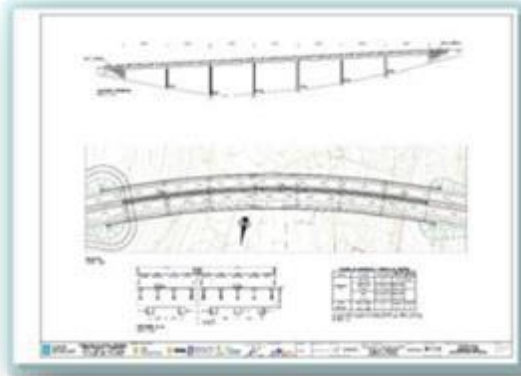


LAYOUT AND DETAIL PROJECT: CONDITIONING OF CP-0701 ROAD. STRETCH: SANTIAGO DE COMPOSTELA - PORTOMOURO



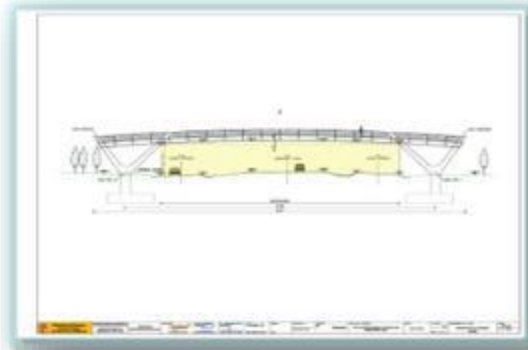
# Design

DETAILED PROJECT: ROAD SAFETY IMPROVEMENT IN LUGO PROVINCE. (7 projects)



Client: Ministry of Public Works (Spain)

DETAILED PROJECT: ROAD SAFETY PROJECTS, IN THE ORIENTAL CASTILLA-LEÓN ROAD DEMARICATION OF STATE



Client: Ministry of Public Works (Spain)

LAYOUT PROJECT: N-120 AND N-536 CONNECTION. SOBRADELO – BARCO DE VALDEORRAS (OURENSE)



Client: Ministry of Public Works (Spain)

ALTERNATIVES STUDY AND DETAILED PROJECT: REORDERING ACCESSES AND FACILITIES OF THE PORT AUTHORITY IN SAN DIEGO



Client: Port Authority of A Coruña (Spain)

DETAILED PROJECT: CICLING AXLE OF TXORRIERI



Client: Txorrieri Association (Spain)

ROUNDABOUT IN THE URBANIZATION OF O BERTÓN, FERROL



Client: XESTUR Coruña (Spain)

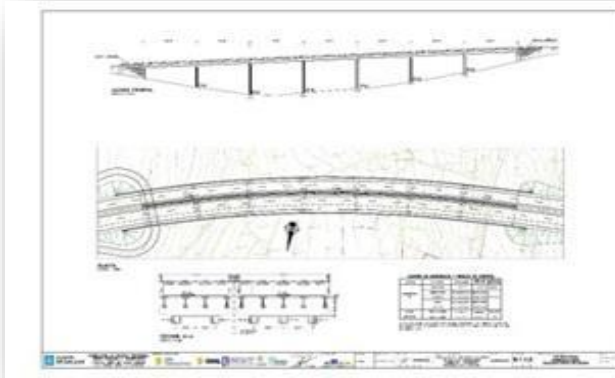
# Design

DETAILED PROJECT: AP-53. PIÑOR CONNECTION WITH N-525 ROAD



**Client: ACEOUSA (Spain)**

TENDER PROJECTS: CONCESION OF CONSTRUCTION AND EXPLOITATION OF 3 HIGHWAYS. SPAIN



**Client: San José Construction Company**

DETAILED PROJECT: SURFACE IMPROVEMENT AND ADITIONAL WORKS IN C-59 ROAD, K.P. 39+450 TO 53+800. STRETCH: MOIA – SANTA MARIA DE OLO. BARCELONA



**Client: Generalitat de Catalunya (Spain)**

DETAILED PROJECT: SURFACE IMPROVEMENT AND ADITIONAL WORKS IN N-141 ROAD, K.P. 32+900 TO 40+250. STRETCH: COLLUSPINA – TONA. BARCELONA



**Client: Generalitat de Catalunya (Spain)**

DETAILED PROJECT: ACCESS IMPROVEMENT IN THE SOUTH SIDE OF LA ROCA TOLL (K.P. 128+700). AP-7 HIGHWAY. STRETCH: LA JONQUERA – SALO. BARCELONA



**Client: ACESA-ABERTIS (Spain)**

DETAILED PROJECT: CONDITIONING OF THE ACCESS ROAD TO CABO PRIORIÑO AND CLOSURE OF THE OUTER HARBOUR OF FERROL.



**Client: Port Authority of Ferrol (Spain)**

# Construction Supervision

HIGHWAY BETWEEN MOSTAGANEM AND THE HIGHWAY EAST – WEST IN ALGERIA



**Client: Agence Nationale des Autoroutes (Algeria)**

CAPACITY INCREASING OF ATLANTIC HIGHWAY (AP-9). STRETCH: NORTH SANTIAGO – SOUTH SANTIAGO



**Client: AUDASA (Spain)**

NORTH CA-5 HIGHWAY, SECTION II: LIBRAMIENTO COMAYAGUA – END OF COMAYAGUA VALLEY (HONDURAS)



**Client: Public Works and Building Ministry (Honduras)**

COMPLETION OF THE HIGH CAPACITY ROAD COSTA NORTE. STRETCH: CELEIRO - SAN CIBRAO



**Client: Xunta de Galicia (Spain)**

AXIS ROAD Nº1 BETWEEN PERU AND ECUADOR



**Client: Ministry of Public Works (Ecuador)**

ROAD ACCESS TO THE OUTER HARBOUR OF FERROL. STRETCH I: PORT – FONTEMAIOR ROAD



**Client: Ministry of Public Works (Spain)**

# Construction Supervision

NEW BRIDGE OVER MIÑO RIVER IN LUGO.  
STRETCH: ROAD N-VI CONNECTING THE ROADS  
N-543 AND LU-612



**Client: Ministry of Public Works (Spain)**

AP-53 HIGHWAY. SANTIAGO DE COMPOSTELA –  
OURENSE. STRETCH: ALTO DE SANTO DOMINGO –  
A-52. SUBSTRETCH : DOZON JUNCTION –CEA  
JUNCTION. FRACTION III. CASANDULFE –CEA  
JUNCTION



**Client: ACEOUSA (Spain)**

A-8 CANTABRIC HIGHWAY. CN-634 ROAD  
FROM SAN SEBASTIÁN TO SANTIAGO DE  
COMPOSTELA. STRETCH: REINANTE-RIBADEO.  
(LUGO-SPAIN)



**Client: Ministry of Public Works (Spain)**

A-8 CANTABRIC HIGHWAY. CN-634 ROAD FROM  
SAN SEBASTIÁN TO SANTIAGO DE COMPOSTELA.  
STRETCH: LLANES-LLOVIO



**Client: Ministry of Public Works (Spain)**

AP-7 HIGHWAY. STRETCH: LA JONQUERA -  
SALOU. VILA-SECA/SALOU JUNCTIONS – REUS  
(TARRAGONA – SPAIN)



**Client: Ministry of Public Works (Spain)**

AG-11. BARBANZA HIGHWAY (SPAIN)



**Client: Ministry of Public Works (Spain)**



# Construction Supervision

MEDITERRANEAN HIGHWAY A-7: STRETCH: MOTRIL-CARCHUNA (GRANADA – SPAIN)



**Client: Ministry of Public Works (Spain)**

AP-7 HIGHWAY. STRETCH: L'HOSPITALET DE L'INFANT – VANDELLÒS. (TARRAGONA-SPAIN)



**Client: Ministry of Public Works (Spain)**

NEW BY-PASS MOTORWAY IN WEST SIDE OF MALAGA. SECTION: CONNECTION FROM ROAD MA-417 TO MOTORWAY A-375 (GUADALHORCE-SPAIN).



**Client: Ministry of Public Works (Spain)**

SIERRA NEVADA A-44 MOTORWAY. SECTION: SANTA FE (A-92G LINK)- LAS GABIAS (A-338 LINK). (GRANADA – SPAIN)



**Client: Ministry of Public Works (Spain)**

A CORUÑA-CARBALLO HIGHWAY. STRETCH: LARACHA-CARBALLO (A CORUÑA – SPAIN)



**Client: Autoestradas de Galicia (Spain)**

IMPROVEMENT OF THE UP GRADING JUNCTIONS IN A RAMALLOSA, NIGRAN, SABARIS & PORTO DO MOLLE (PONTEVEDRA – SPAIN)



**Client: Autoestradas de Galicia (Spain)**

# Construction Supervision

TWINNED ROAD WITH RELIEF ROAD. SECTION:  
ICOD DE LOS VINOS - EL TANQUE(CANARY ISLAND)



**Client: Canary Government (Spain)**

UPGRADING THE C-830 ROAD, FROM SANTA CRUZ  
DE LA PALMA TO PUNTAGORDA THROUGH THE  
NORTH REGION. STRETCH: LOS SAUCES – CRUZ  
DEL CASTILLO (CANARY ISLAND)



**Client: Canary Government (Spain)**

ADEJE-SANTIAGO DEL TEIDE ROAD. FONSAIA  
CONNECTION. (CANARY ISLAND)



**Client: Canary Government (Spain)**

ATLANTIC HIGHWAY AP-9. STRETCH: REBULLON  
INTERCHANGE – PORTUGUESE BORDER  
(PONTEVEDRA)



**Client: Atlantic Highways (Spain)**

CN-630 HIGHWAY (AUTOVIA DE LA PLATA FROM  
GIJON TO SEVILLA). STRETCH: ARDON-  
VILLAMAÑAN (LEON)



**Client: Ministry of Public Works (Spain)**

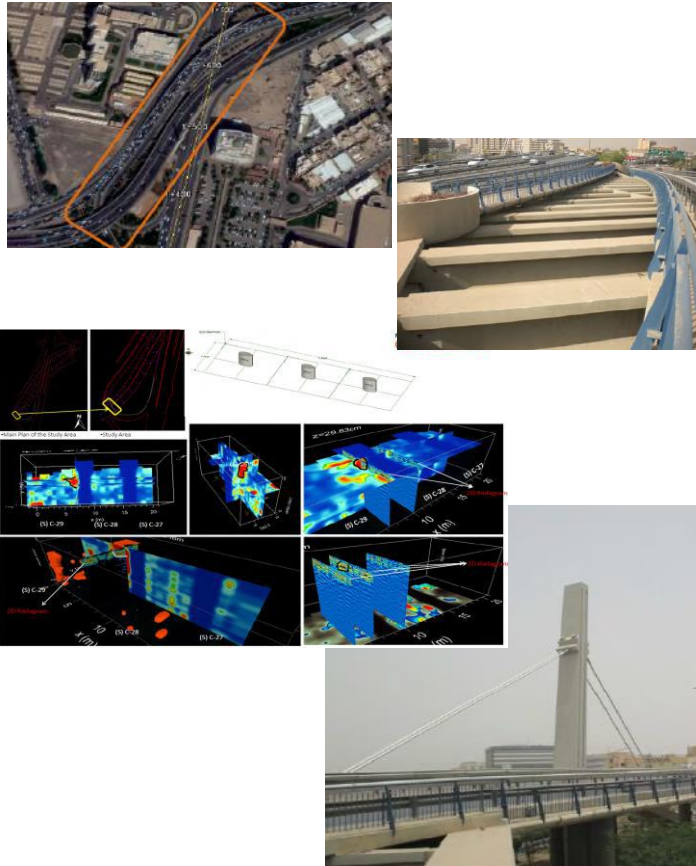
NORTHWESTERN HIGHWAY. STRETCH:  
VILLARTELIN – CEREIXAL (LUGO)



**Client: Ministry of Public Works (Spain)**

# Operation

INSPECTION OF THE AL TIJARA BRIDGE IN RIYADH (KSA)



Client: Fast Consortium

PAVEMENT AUSCULTATION SERVICES AND ROAD INVENTORY IN QATAR



Client: Ashghal

IMPLEMENTATION OF AN INTEGRAL CONSERVATION SYSTEM IN THE ROAD NETWORK OF GALICIA



Client: Xunta de Galicia (Spain)

# Operation

NORTH TARRANT EXPRESS ROAD IN NORTH RICHLAND HILLS, TEXAS



LYNDON B JOHNSON FREEWAY, DALLAS, TEXAS

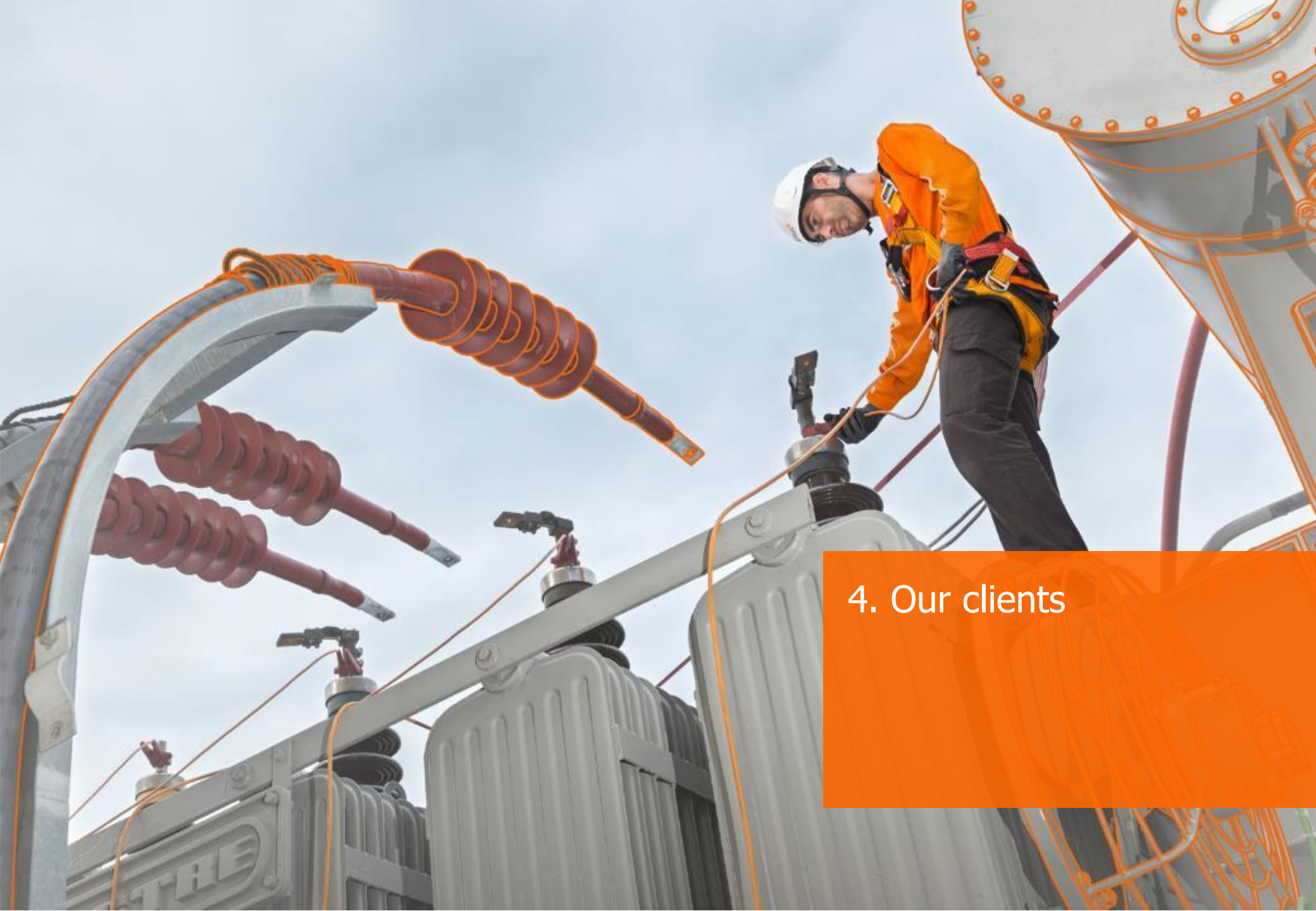


Client: Ferrovial

CONSULTANCY SERVICES FOR THE OPERATION INSPECTION IN AG-11 BARBANZA HIGHWAY (A CORUÑA – SPAIN)



Client: Xunta de Galicia (Spain)



## 4. Our clients

## for whom

« working alongside our customers »

**We have more than 30 years of extensive experience**, providing services to both public and private organizations, which enables us to adopt quick and flexible solutions for different markets and sectors both national and international



Main customers ranking

Applus<sup>+</sup>

*Together*  
beyond  
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