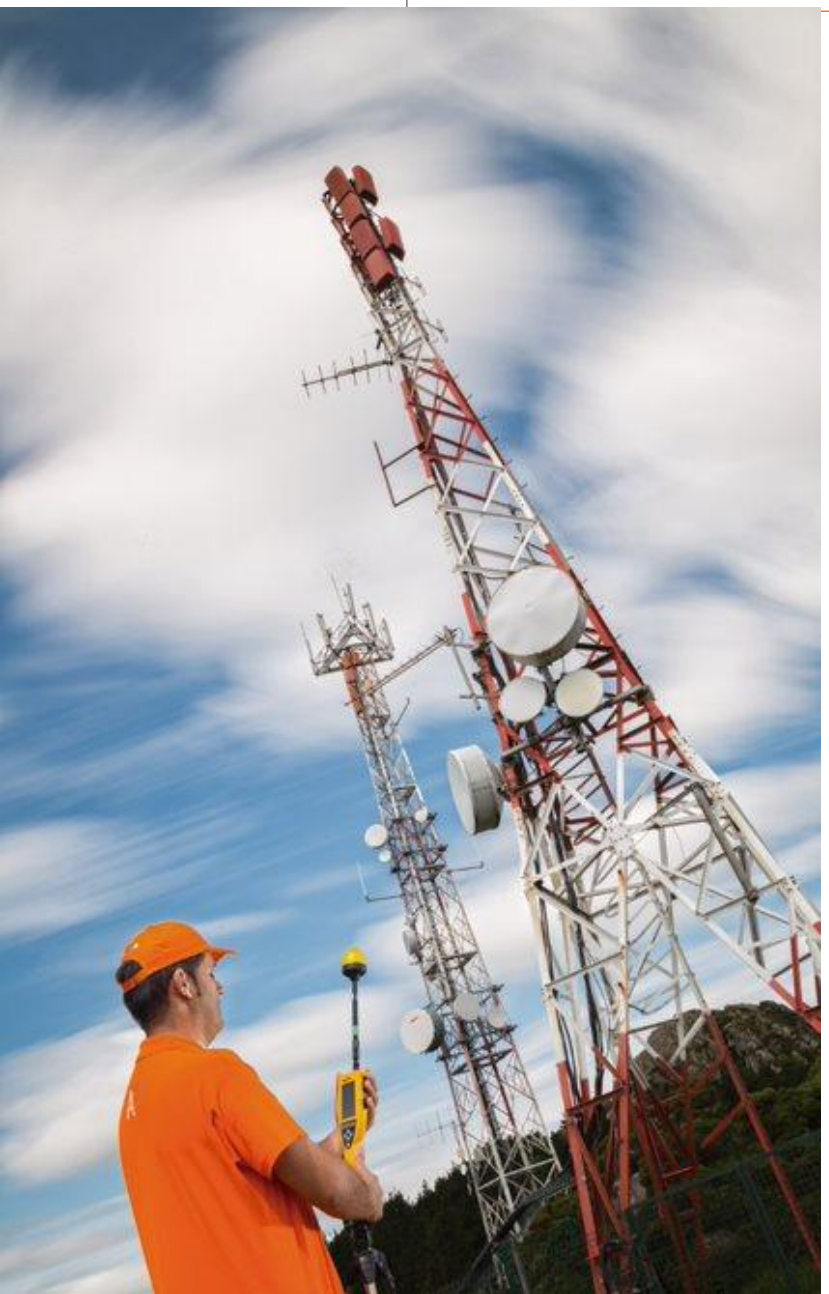
Applus+ Telecommunications Services

Energy & Industry Division

2025

ENERGY & INDUSTRY DIVISION



Telecommunications

We offer end-to-end services for IT & OT telecommunications solutions, covering consulting, planning, design, deployment, testing, operation, maintenance, and project management.

We serve operators, service providers, technology integrators, equipment manufacturers, engineering firms, industrial companies, regulatory bodies, and public entities.

VALUE CHAIN

Planning → Design → Installation & Commissioning → Operation & Maintenance

- 4G-5G Cellular
- Radio Links
- Fiber Optics
- OT
- IoT
- Data Analytics
- Cybersecurity

Technical Support

Deployment, Testing & Trials

Supervision – Oversight - Inspection

Project Management

FTTx Design: more than 1 million home passed designed for clients in LATAM.

RF Optimization: more than 280,000 drive test hours and more than 70,000 sites audited.

- **Inspection & Testing:** of designs, installations, and the operation of telecommunications networks, ensuring compliance with technical regulations and industrial safety standards.Measurement of quality parameters, standards compliance and network coverage, drive test / benchmarking, radio frequency optimization, SAT acceptance testing.

- The purpose of the Inspection & Testing service is to verify that networks, systems, and installations deliver the service for which they were designed and implemented, ensuring compliance with quality conditions, correct operation, and safety requirements established by technical standards and client specifications.

- **Engineering & Consulting:** Technical feasibility, site surveys (TSS) and technical data collection, network designs (conceptual, basic, and detailed), complementary studies: environmental, social, land/property, technical, legal, and financial. Node selection and concealment; network optimization studies based on analytics, cybersecurity analysis and vulnerability assessment, digital mapping and infrastructure inventories supported by drones.

4G-5G Cellular **FTTx** **Radio links** **DWDM** **IoT** **Cybersecurity**

- **E2E Project Management:** planning and comprehensive project management (technical, administrative-logistical, financial, and legal direction), design, installation, commissioning, testing, and commissioning of telecommunications solutions.

- Permit management, design and design review, supplier and procurement supervision, installation and assembly supervision, compliance assurance with regulations and standards, commissioning services, risk, cost and incident control, HSE management, communications management, and human team development.

- **Technical Support:** O&M with on-site and remote support, network management and monitoring center operations; logistics and warehouse operations.

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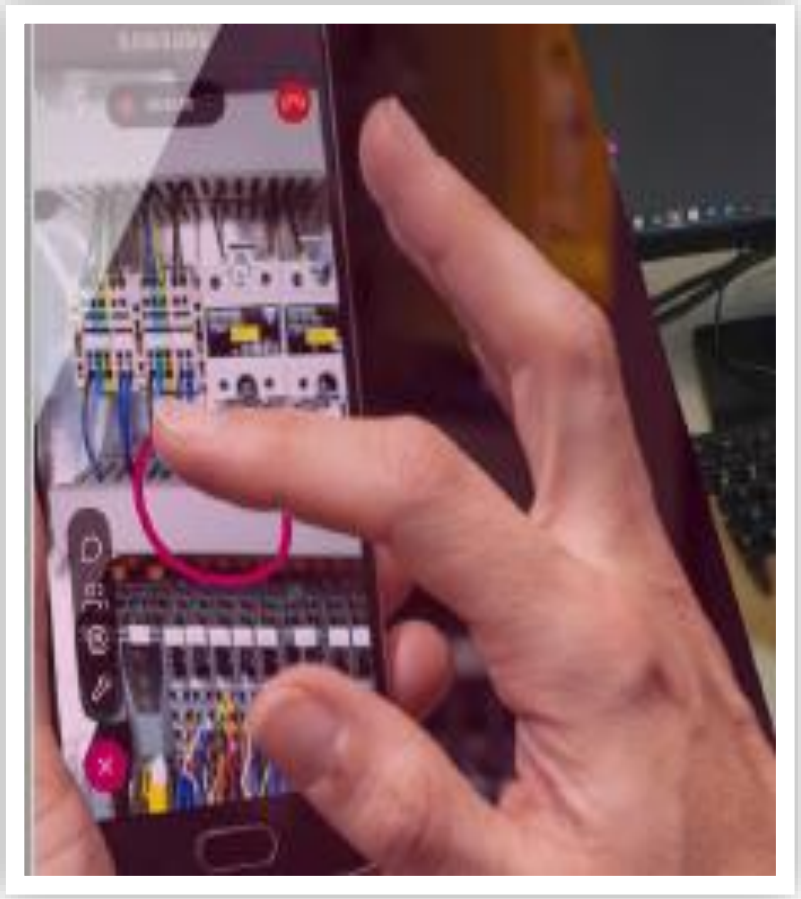
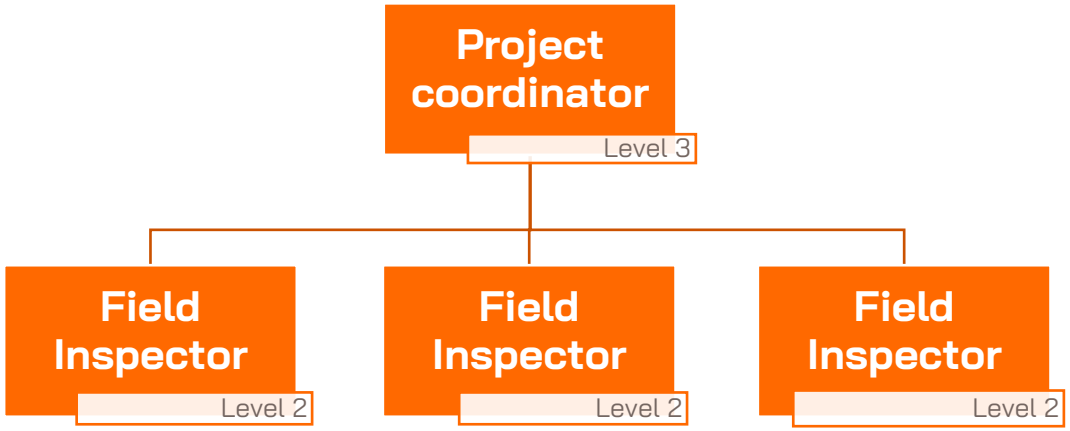
Remote inspection services

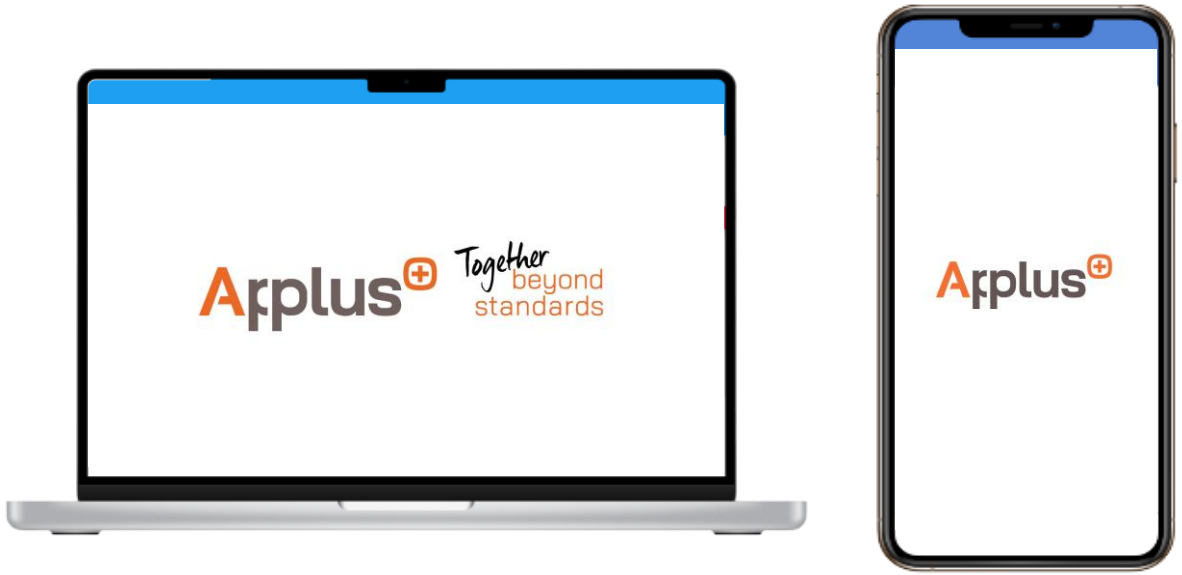




Digital HSE Workplace Safety Management

- Secure workflow management, HSE compliance inspection and assurance from your mobile phone
- Real-time HSE data analytics from your laptop

Mobile app and web



- Exclusive access with username and password
- Viewing and downloading reports, records, and permits completed through the app.
- Access to statistical progress and compliance results
- Access to photo records
- Access to georeferencing
- Easy completion of formats applicable to the operation
- Generated task notifications
- View active and in-progress tasks
- Synchronization of offline-completed information

PROJECT	PROJECT DESCRIPTION	SCOPE OF WORK
TELECOMMUNICATIONS NETWORK DESIGN	Design and review of Telecommunications Networks, including the updating and digitization of information systems at the national level.	• Field data collection. • Information updating and digitization. • Telecommunications infrastructure and network design.
TELECOMMUNICATIONS NETWORK DESIGN	Line-of-sight study between the two points to be connected, and once approved by the end client, installation of the microwave link that will serve to connect last-mile points to the operator's network. Also included are deinstallation services for existing links, as well as reconfiguration services.	• Line of sight study • Equipment reception and inventory on site • Supply of basic materials • Equipment installation on both ends of the link • Removal of existing link and transfer of equipment to the end client's warehouse
DESIGN, DIGITIZATION, AND REVIEW OF TELECOMMUNICATIONS NETWORKS	Design and review of telecommunications networks, including the updating and digitization of information systems defined by the client, at a national level.	• Field Data Collection. • Information Updating and Digitization. • Telecommunications Infrastructure and Network Design. • Review activities necessary to support UNE in the oversight duties of construction and maintenance contracts for telecommunications networks.
OVERSIGHT OF TELECOMMUNICATIONS NETWORKS	Provide project monitoring and oversight services related to design, construction, adaptation, re-adaptation, maintenance, and permitting of existing and/or future infrastructure.	• Visit and report on site or candidate visits to define the feasibility of building new. • Carry out designs for new sites, at the architectural and spatial level, for • projects required by the client. • Execute simultaneous works, in accordance with the needsof the client. • Verify the execution of work in accordance with the delivered documents, and review documentation related to the construction.

PROJECT	PROJECT DESCRIPTION	SCOPE OF WORK

DESIGN AND CONSTRUCTION OF OUTSIDE PLANT INFRASTRUCTURE	Provide the service of designing and building medium and low voltage electrical infrastructure for base stations.	The feasibility service includes:
		• Design and construction services for medium and low voltage electrical networks for:
		  • Base stations.
		  • RF repeaters.
		  • Sales Centers (CVC).
		  • Customer service centers and administrative buildings.

DESIGN OF TRANSPORT NETWORK, LAST MILE, AND CIVIL WORKS	Provide the service of gathering information to design the network to be implemented in the national fiber optic project. This information must be collected in the field, along all the routes of each of the previously defined links.	The Design service includes: • Field data collection. • Information updating and digitization. • Telecom infrastructure and network design. • TSS execution.
EVALUATION OF TELECOMMUNICATIONS COMPANIES	Provide the feasibility study and verification service to evaluate projects submitted by telecommunications companies, in order to approve or deny the use of utility poles where the client holds right-of-way easements, as well as carry out inspection and oversight work on the correction of cable layouts over infrastructure within the client's right-of-way.	The feasibility service includes: • Information gathering for project evaluation • Verification of telecomm projects on electrical infrastructure. • Feasibility studies for the use of electrical infrastructure. • Oversight of telecommunications projects.
FTTH REVIEW AND SUPERVISION	Provide the service of reviewing and supervising the fiber optic network construction process	The feasibility service includes: • Information gathering for project evaluation • Verification of telecom projects on electrical infrastructure. • Oversight of the construction of the passive fiber optic network to the home with GPON technology. • Oversight responsible for ensuring and guaranteeing the start, execution, and closure of each of the activities to be carried out by the contractors designated by the client.

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