



Service solutions

sicame
GROUP

About us

sicame
GROUP

Sicame Group is one of the key players in the electrical equipment business worldwide. It has been able to adapt and develop to support the continuous evolution of electricity infrastructure in France and around the world, and become the largest independent entity in its sector.

A true player in the energy transition, it offers its customers new products and services to improve energy efficiency, deal with environmental risks and support the development of electric vehicle and solar power plant markets.

+65

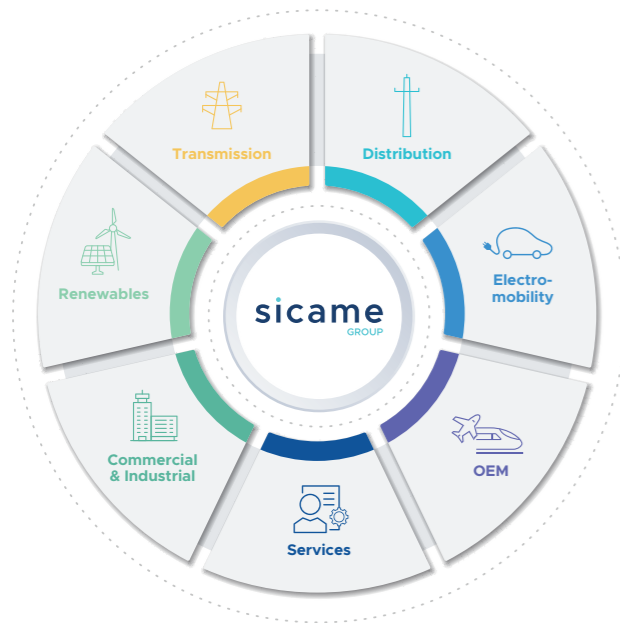
years of worldwide success

525 M€

2022 turnover

3,600

employees



Our fields of activity

Sicame Group is specialised in **products and services** related to transmission and distribution of **electrical energy**, renewables, electromobility, safety equipment and industrial applications.

Sicame, a key player in the electrical equipment business, with over 65 years of global experience, is strongly focusing on Services as a business segment. Its innovative product solutions in the energy sector, will be now complemented by its focused service offerings that is a result of consolidation of the after-market services with new service innovations such maintenance as laboratory services, audit, trainings, and advanced digital platforms. This is expected to enhance the customer's experience of working with Sicame.

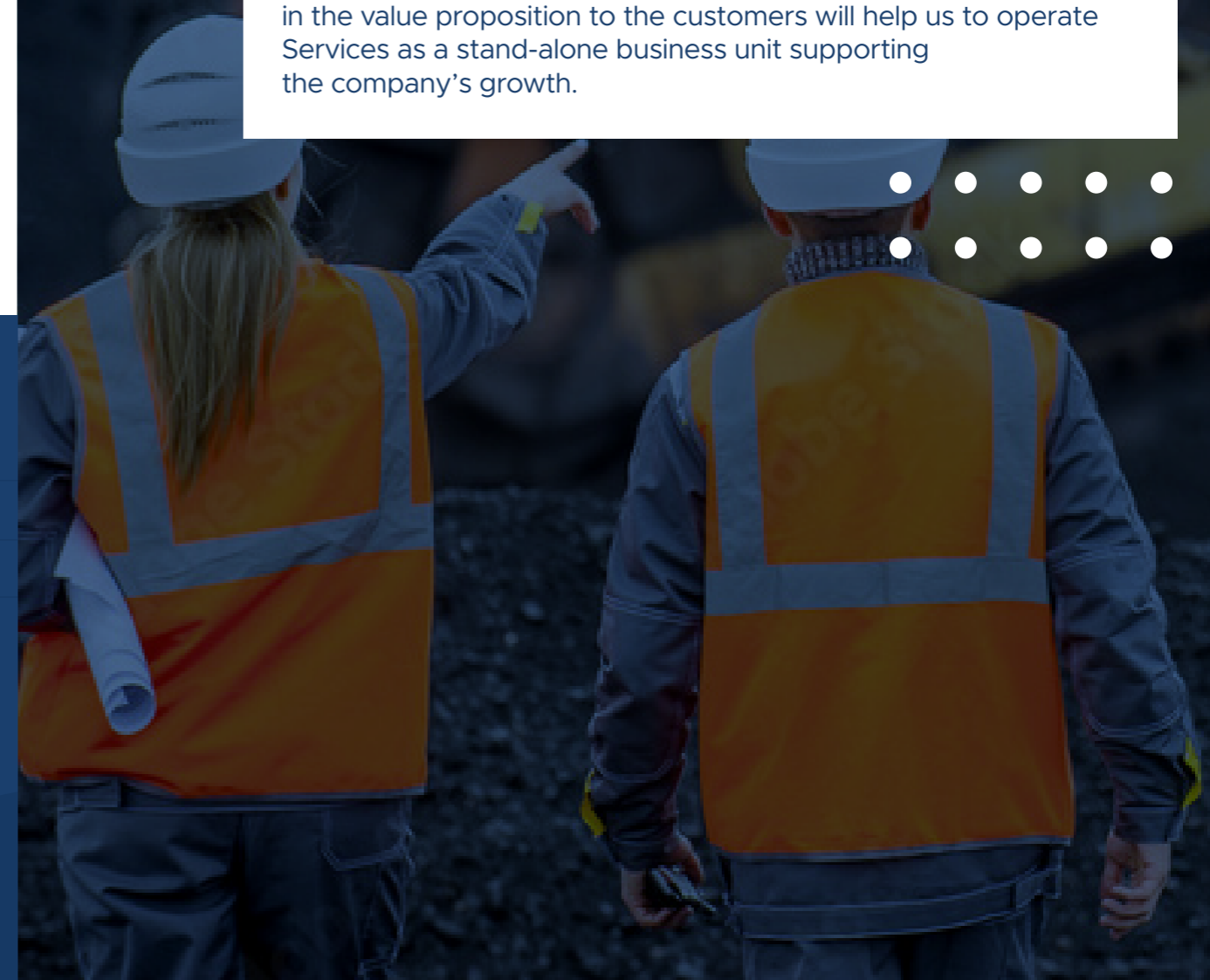
Service as a product, as will be pitched externally, is expected to benefit the customer resulting intangible benefits realization throughout a product's life cycle and beyond. The transformation in the value proposition to the customers will help us to operate Services as a stand-alone business unit supporting the company's growth.

5 continents

26 countries

50 companies
around the world

Products distributed
in **157** countries

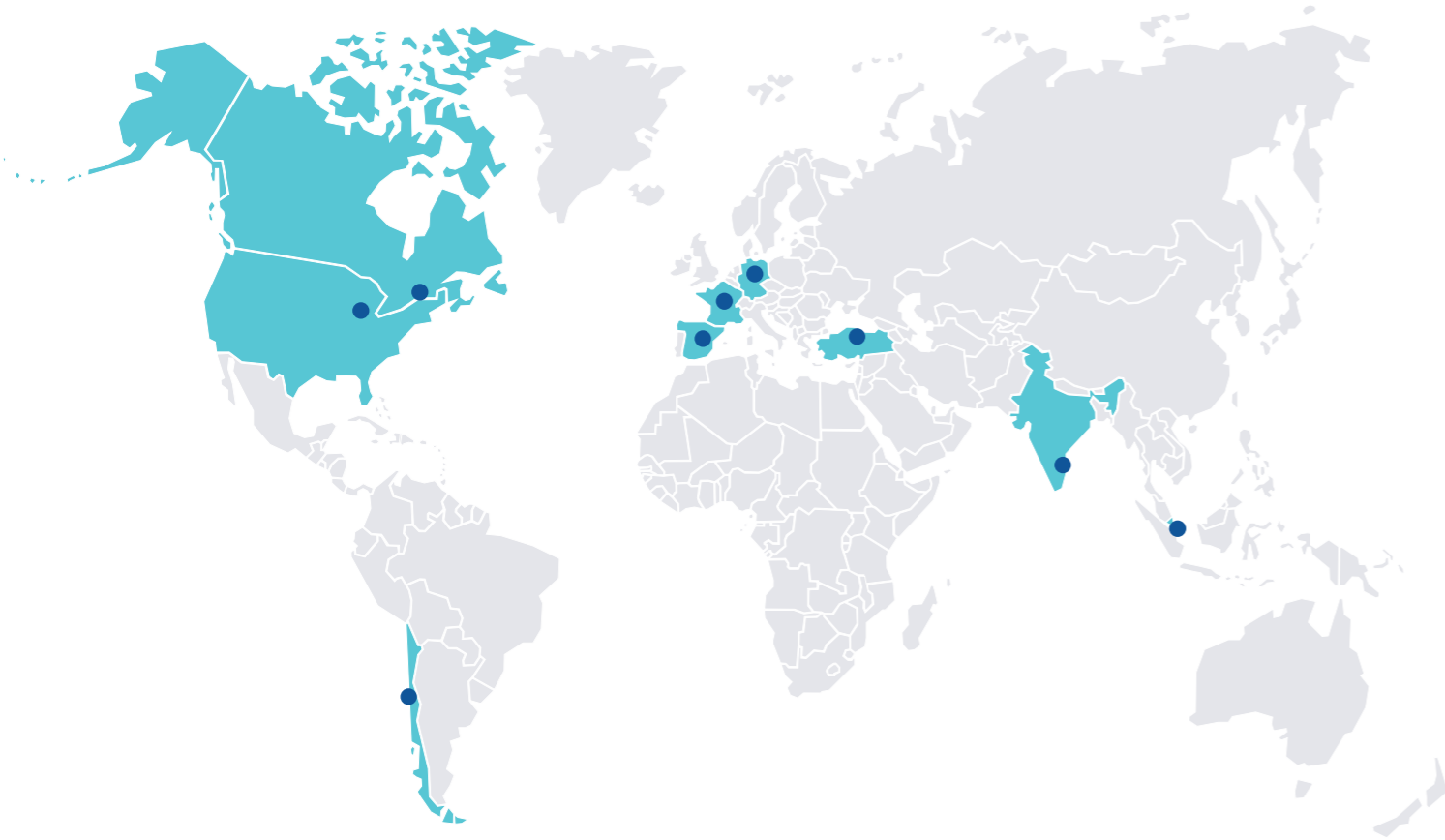


Service centers

What is a service center?

A service center consists of a team of expert technicians heavily trained and certified by Sicame Group, equipped with all relevant material and facilities to perform verification and maintenance on your products.

- Tools and dies maintenance
- Safety equipment retest for certification
- Calibration
- Tool and equipment rental
- Professional training



Inspection, repair, and maintenance



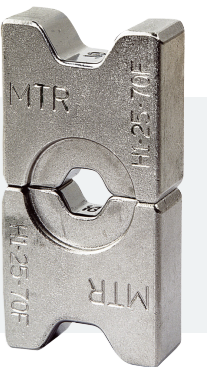
Service	Americas			Europe				APAC	
	Chicago	Montreal	Santiago	Barcelona	Paris	Pompador	Istanbul	Chennai	Singapore
Maintenance & repair of all cutting and crimping tools						✓	✓	✓	✓
Verification of PPE conformity (Glove/mat/stick...)	✓	✓	✓	✓	✓				✓
Demo trucks						✓	✓		

✓ In the factory ✓ Mobile

Dies maintenance

Dies maintenance is a key factor to ensure a good crimping.

Our team of experts is controlling your dies:
Visual and dimensional control, polishing, crimping samples, and test report



What do we offer?



Fast service



A center close to its customers



Qualified Sicame Group experts



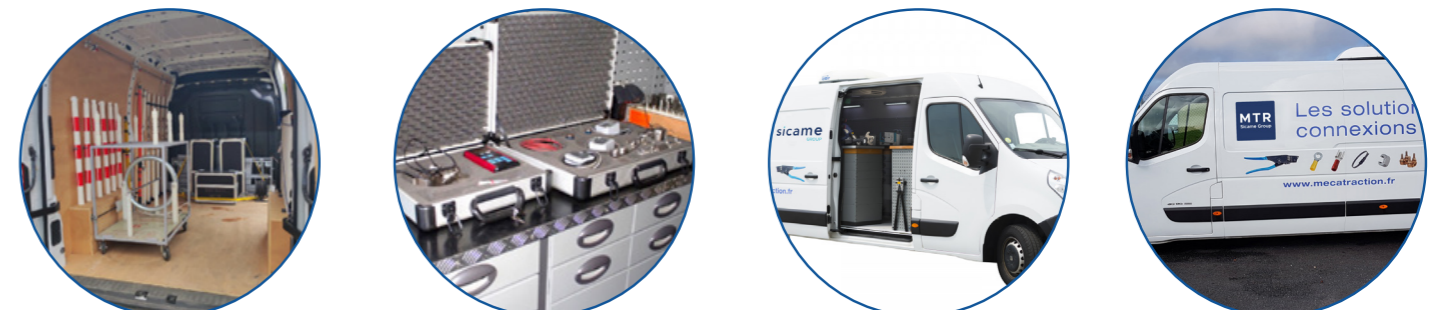
6 months guarantee for the repair



Tools demonstration



Assets traceability: **Check Me**





Training

Our trainings can take place in our training centers or at customers' premises. Our trainings can be in-room or on-line (for selected references). Please contact us for more information.

Our trainers are recognized by all the players in the electrical world, both in underground and overhead junctions, in HV and LV; for electromobility and not forgetting electrical prevention and TST.

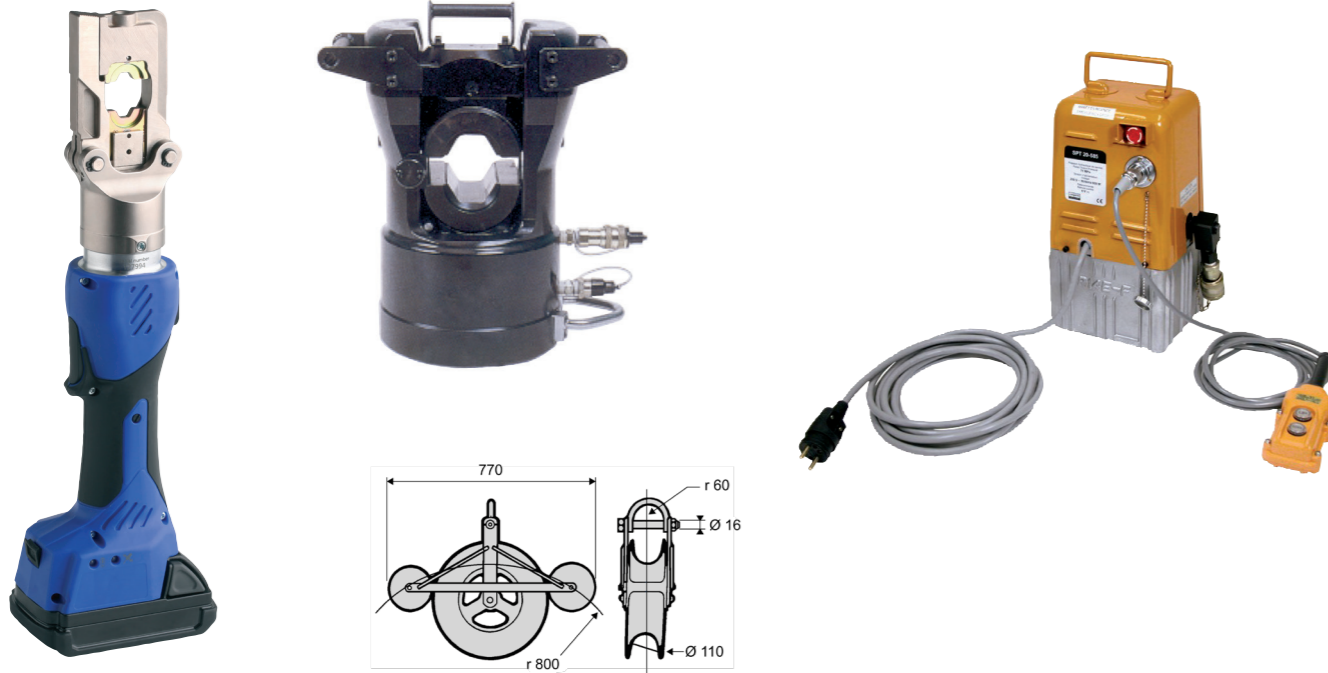
VDE, NF C, IEC... we can help you set up your training programs.



Training	Description	Americas	Europe		
		Santiago	Meschede	Paris	Pompadour
Electrical safety certification	<i>According to local standards and regulations (NF C 18510, NFPA70E, and other local regulations.)</i>	✓	✓	✓	✓
Prevention and safety against electrical risks	<i>According to local standards and regulations (NF C 18510, NFPA70E, and other local regulations.)</i>	✓	✓	✓	✓
HV - LV overhead networks	<i>Overhead network relevant accessories</i>				✓
Electromobility	<i>Design and install EV charging infrastructure and supply equipments, and maintenance</i>		✓	✓	✓
HV - LV underground networks	<i>Make a junction on both synthetic and paper-insulated cables</i>				✓
Industrial connections	<i>Realize terminals for HV or LV cables</i>				✓
LV live-line work	<i>According to local standards</i>		✓		✓
Tools and crimping	<i>How to use tools and crimping equipment</i>				✓

Equipment rental

Do you have a specific tooling requirement? Want to optimize your cash flow? Discover our tool and equipment rental offer. For short or long-term rentals, please contact your usual sales representative.



Calibration

Our service centers offer calibration services for a wide variety of measuring instruments from leading manufacturers:

- Multimeters,
- Scope meters,
- Electrical installation testers,
- Etc.



Please, contact your sales representative for more information

Audit and customer assistance

Service	Description	Americas		Europe	
		Santiago	Paris	Pompadour	Saint-Malo
Commissioning assistance	Helping to install the equipment and training people on site to use the purchased equipment	✓	✓	✓	✓
Consulting to HSE		✓	✓		
Audit		Electrical safety audit Comply to the national standard (NFPA 70E)	Live work LV audit according to 3 standards: NF C18-505-2-1/2/3		✓

Customization & product adaptation

Product adaptation:
Product/Equipment's adaptation to customer request

Customization:
Product customization (laser marking, trolley, tool kit, etc.)





Laboratory services

Service	Description	Americas		
		Chicago	Montreal	Santiago
Tensile strength	To check the tensile strength of a crimp/ product combination. Several standards possible.	✓	✓	
Tensile test at high temperature				
IEC50182	Tensile stress strength test			
Micrographic section	According to RCCE. To validate a crimp	✓		
Vibration test	Vibration profiles must be validated by laboratory			
OEM testing	According to customer technical specification (out of IEC, ISO standards)			✓
Current cycling test (NFC 20130, IEC 61238, ANSI, etc...)	Electrical ageing		✓	
Derating / overloading	Ampacity of the connection (Temperature, Current)			
SEM analysis	Chemical analysis of metallic compounds			
Dielectric max 420KV AC				
Dielectric max 140KV DC				
Dielectric max 130KV AC @ 50MA				✓
Dielectrical rain test				
Test IK (max IK08)	Mechanical shock			
Test IP5X and IP6X	Dustproof protection class			
Test IPX5	Waterproof protection class			
IEC 60900 (complete)	Qualification of insulated, insulating and hybrid tools (Dielectric, non-flame propagation, mechanical shock, etc.)			✓
IEC 60855-1 (tubes) (complete)	Qualification of tubes (Dielectrical rain test, bending, crushing, ...) Accreditation			
IEC 61243-3 and IEC 61243-1/2 LV/HV voltage detector	Qualification of voltage detectors (dielectric, climatic, vibration, IP...)		✓	✓
IEC 61111, 61112 (Insulating mats and blankets) (complete)	Qualification of insulating mats and blankets (elongation, dielectric, flame retardancy, climatic)		✓	
ASTM F496-20	Sleeves test			✓
ASTM F1116-21	Dielectric footwear			✓
IEC 60832-1 / IEC 61235	Insulating sticks for live working			✓
ASTM F2249-20	Temporary grounding jumper			✓
ASTM D1048-20	Rubber insulating blankets			✓
IEC 60895	Live working - conductive clothing			✓
UNE 204001	Insulating platforms for electrical purposes			✓
ANSI / ISEA Z87.1-2020	Current standard for safety glasses			✓
ANSI / SIA A92.2-2015	Vehicle-mounted elevating and rotating aerial devices			✓

Service	Description	Europe				APAC	
		Barcelona	Saint-Etienne	Paris	Pompador	Istanbul	Chennai
Tensile strength	To check the tensile strength of a crimp/ product combination. Several standards possible.	✓	Accreditation	✓	✓	✓	Accreditation
Tensile test at high temperature			✓				
IEC50182	Tensile stress strength test		Accreditation				
Micrographic section	According to RCCE. To validate a crimp				✓		
Vibration test	Vibration profiles must be validated by laboratory		IEC60068-2-6 Accreditation	✓	✓		
OEM testing	According to customer technical specification (out of IEC, ISO standards)		✓		✓		
Current cycling test (NFC 20130, IEC 61238, ANSI, etc...)	Electrical ageing		✓		✓		
Derating / overloading	Ampacity of the connection (Temperature, Current)		✓		✓		
SEM analysis	Chemical analysis of metallic compounds				✓		
Dielectric max 420KV AC				✓			
Dielectric max 140KV DC				✓	✓		
Dielectric max 130KV AC @ 50MA							
Dielectrical rain test				✓			
Test IK (max IK08)	Mechanical shock			✓			
Test IP5X and IP6X	Dustproof protection class			Accreditation			
Test IPX5	Waterproof protection class			✓			
IEC 60900 (complete)	Qualification of insulated, insulating and hybrid tools (Dielectric, non-flame propagation, mechanical shock, etc.)			Accreditation			
IEC 60855-1 (tubes) (complete)	Qualification of tubes (Dielectrical rain test, bending, crushing, ...) Accreditation			Accreditation			
IEC 61243-3 and IEC 61243-1/2 LV/HV voltage detector	Qualification of voltage detectors (dielectric, climatic, vibration, IP...)			Accreditation			
IEC 61111, 61112 (Insulating mats and blankets) (complete)	Qualification of insulating mats and blankets (elongation, dielectric, flame retardancy, climatic)			Accreditation			
ASTM F496-20	Sleeves test						
ASTM F1116-21	Dielectric footwear						
IEC 60832-1 / IEC 61235	Insulating sticks for live working			✓			
ASTM F2249-20	Temporary grounding jumper						
ASTM D1048-20	Rubber insulating blankets						
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ANSI / ISEA Z87.1-2020	Current standard for safety glasses						
ANSI / SIA A92.2-2015	Vehicle-mounted elevating and rotating aerial devices						



ACREDITACION LE 691

Accreditation: Paris

Accreditation: Le chambon feugeroles



n° 1-0897 portée disponible sur le site internet: www.cofrac.fr



n° 1-5642 portée disponible sur le site internet: www.cofrac.fr

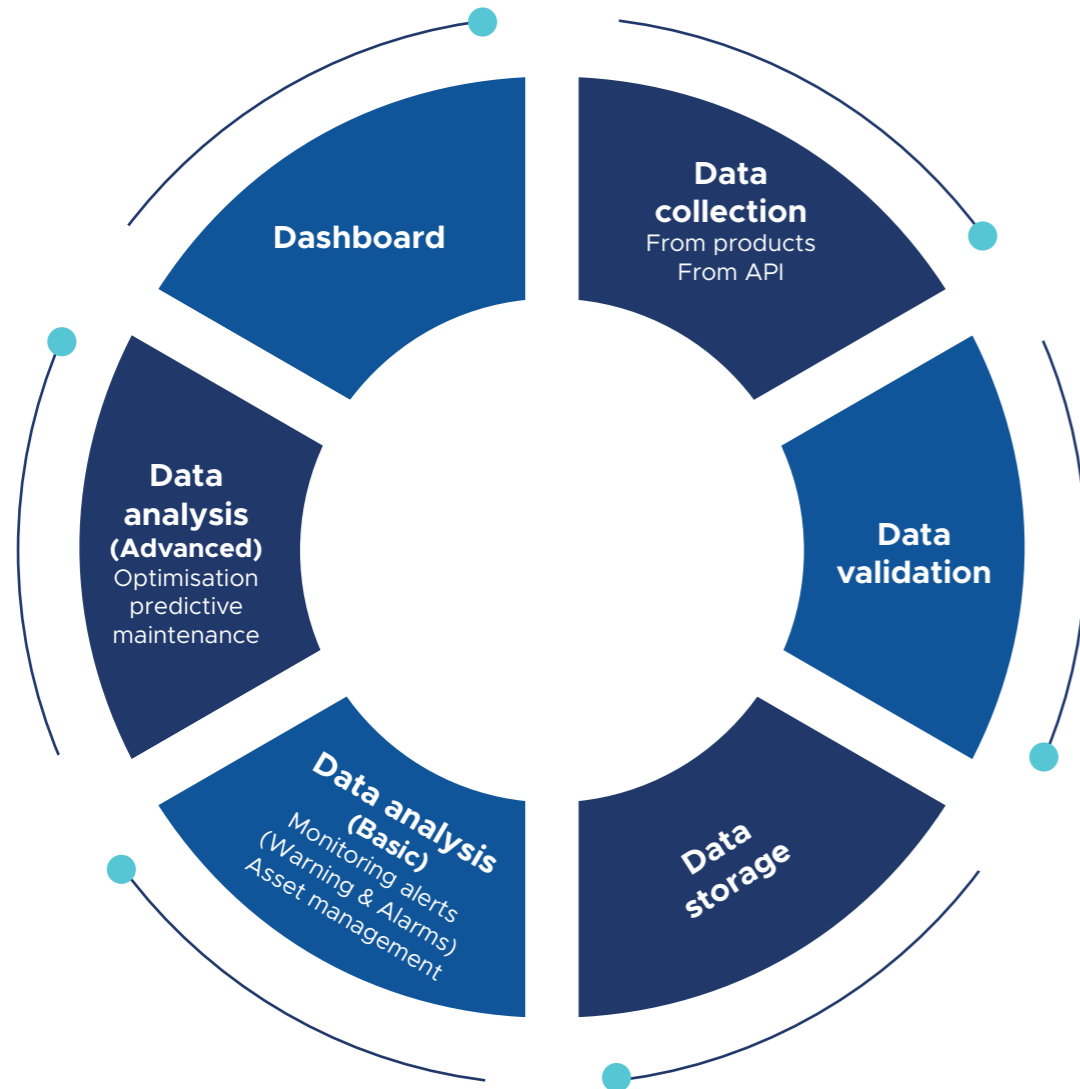
Service	Description	Americas		
		Chicago	Montreal	Santiago
ASTM F478-14.	In-service care of insulating line hose and covers			✓
ASTM F712-06	Insulating plastic guards & covers			✓
IEC 62052-11	Electromechanical meters for active energy			✓
IEC 62053-21	Static meters for active energy (Classes 0,5, 1 And 2)			✓
IEC 62053-22	Static meters for active energy (Classes 0,2 S And 0,5 S)			✓
IEC 62053-23	Static meters for reactive energy (classes 2 and 3)			✓
Vibration damping analysis, vibration damper				
Vibration damping study, spacer damper				
Vibration damping study, vibration damper + spacer damper				
Ageing test under mechanical load				
Slip test suspension clamp, Vibration damper, spacer damper (IEC 61284 / IEC 61854 / IEC 61897)			✓	
Heat cycle test (IEC 61284 §13) / thermo profile			✓	
IEC 61395	Creep test	✓		
CIGRE 426	Thermal elongation			
IEC 62567 / IEEE 563	Self-Damping test			
	Damping efficiency test			
IEC 61897 (A)	Damping characteristic test			
IEC 61897	Fatigue test			
IEC 61854	Stiffness and damping characteristic test			
IEC 61854	Simulate short circuit test			
IEC 61854	Electrical resistance test			
	Dynamic test			
	Fatigue test on span			
Salt fog				
Test with optical attenuation signal, mainly for OPGW				
Die check			✓	
Spectrometry				
Modeling	Stockbridges/spacers/ accessory			
Tensile test bench rental				
Slip measurement system rental				

Europe					APAC
Barcelona	Saint-Etienne	Paris	Pompadour	Istanbul	Chennai
	✓				
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Advanced digital platform service

Sicame platform, operated in SaaS mode hosted on our or your datacenters, is our dedicated digital solution to monitor connected products installed to cover different applications:

- **Solar farms:** Maintain a high level of production thanks to a real time monitoring and analysis of each string production.
- **Revenue protection:** Increase the level of billing by a monitoring and a localization of the losses (Technical & Non-technical).
- **Line monitoring:** Improve the LV & MV electricity line monitoring thanks to real time alerts coming from various type of sensors (Fault detectors, surge arrester sensors, pole sensors, line sensors, ...)



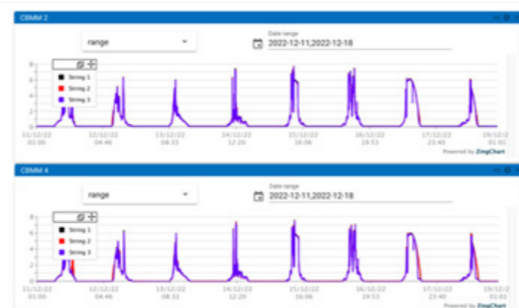
The platform can collect data from sensors using different protocols & communication standards (MQTTs, Modbus, LoRaWAN, 2G, 3G, 4G, NB-IoT, BLE 5.0, ...)

You can create your own dashboards thanks to a collection of widgets or use existing predefined dashboards (per application) that you can easily modify.

The platform will inform you in real time, based on customized alerts (2 levels per alerts: Warning & Alarm), of any abnormal situation.

You will use the platform functions to optime your assets.

The platform can be connected to other software thanks to API.



Asset management and traceability solution

CHECK me
by SICAME



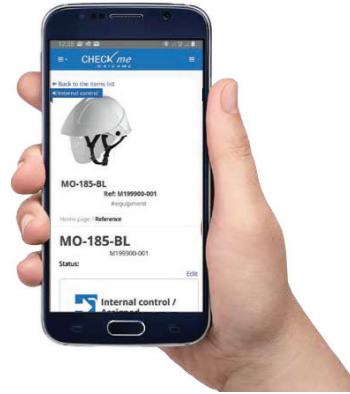
Check me is a software application to manage your assets including PPE, toolings, equipments and people:

- Conformity including compliance with periodic control
- Validity of authorization and certification
- Availability
- Assignment to user/group/team/site
- Life cycle -events history
- Location
- Attached documents and reports

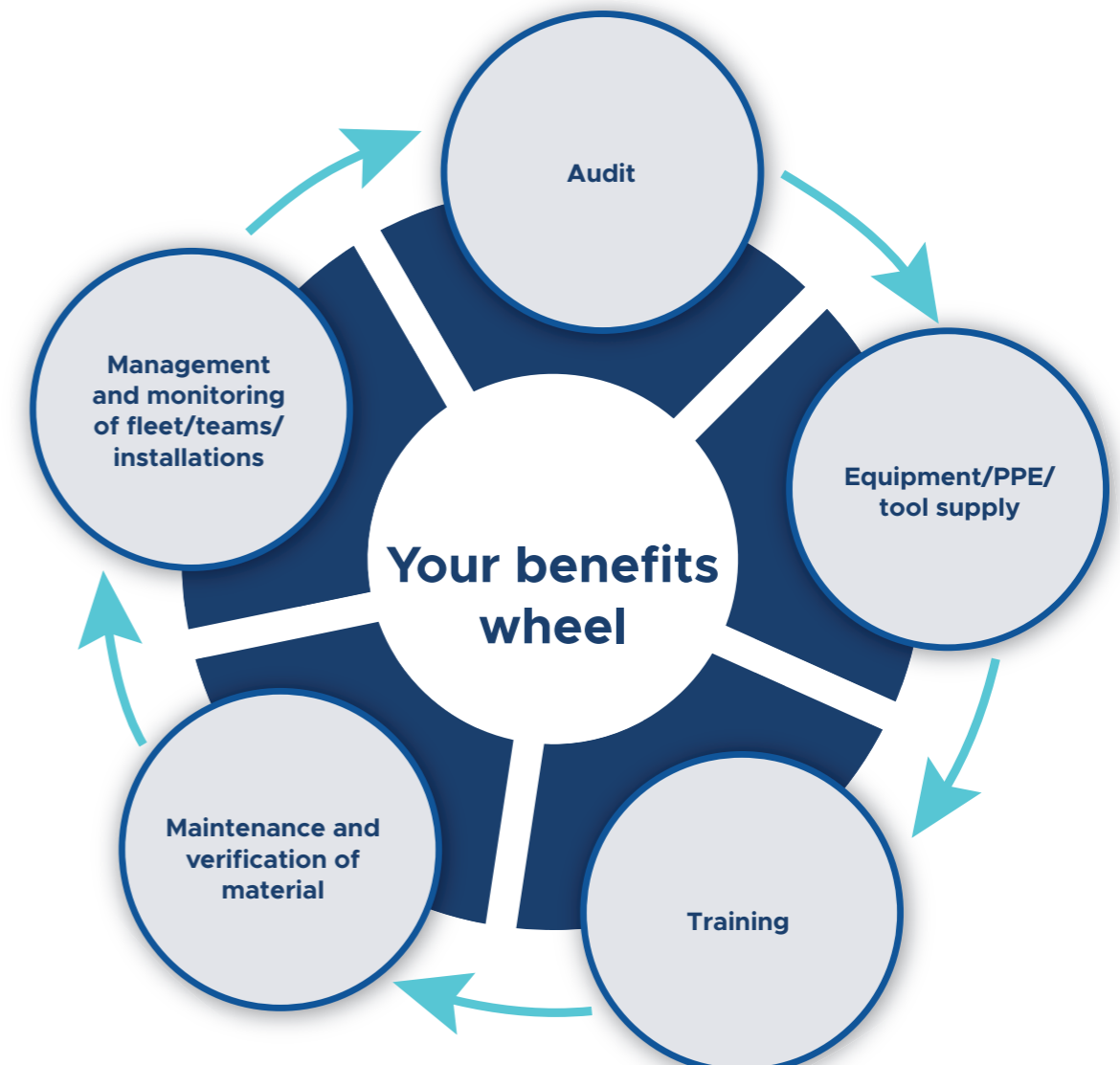


Check me is an application to support installation and operation of products:

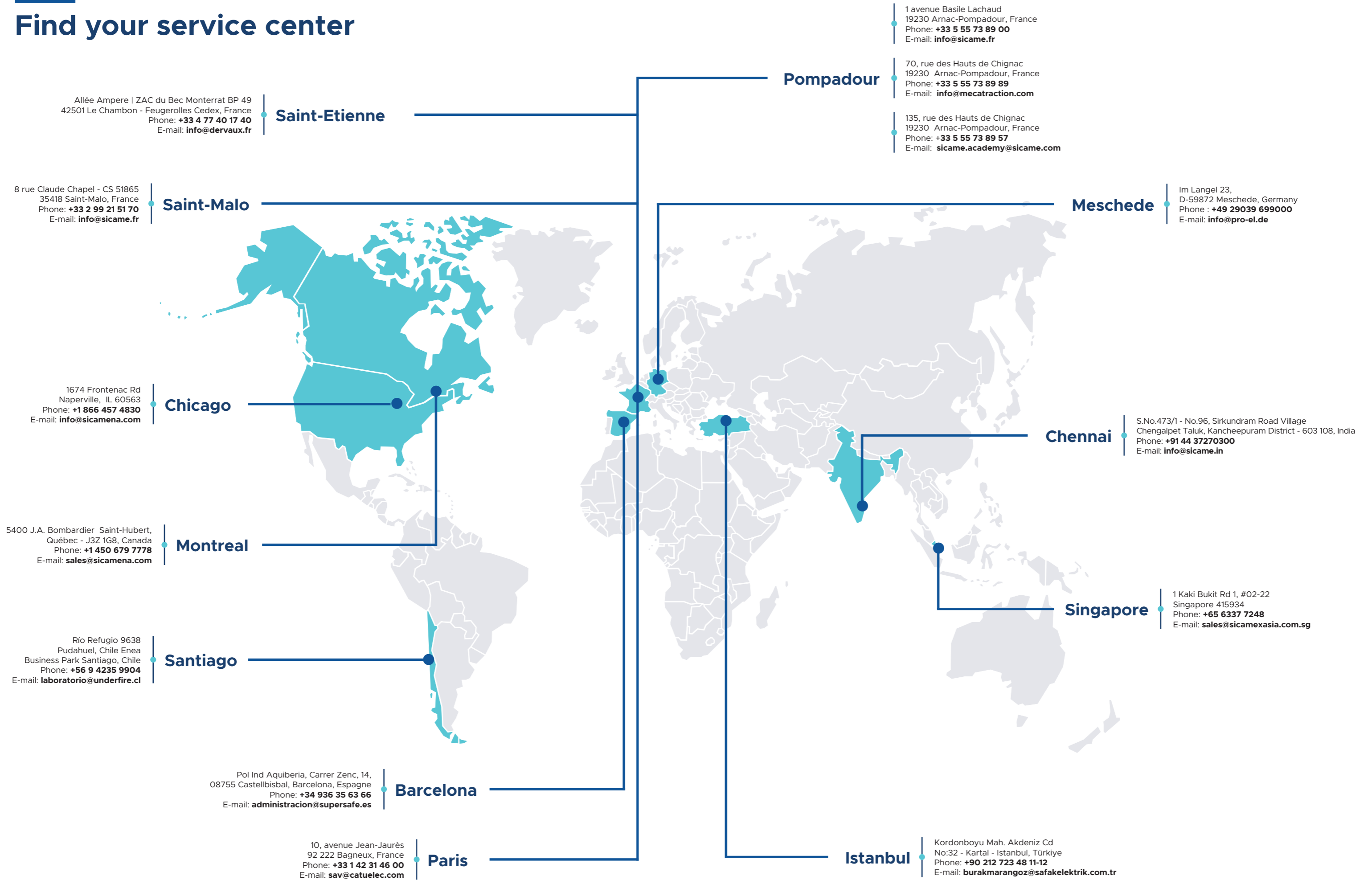
- Online access to user's manual (installation, maintenance, calibration, etc.)
- Product location
- Attached documents and reports related to any installation / operation
- Full traceability of installation / operation: what, who, when, where, how?



checkme@sicamegroup.com



Find your service center





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