

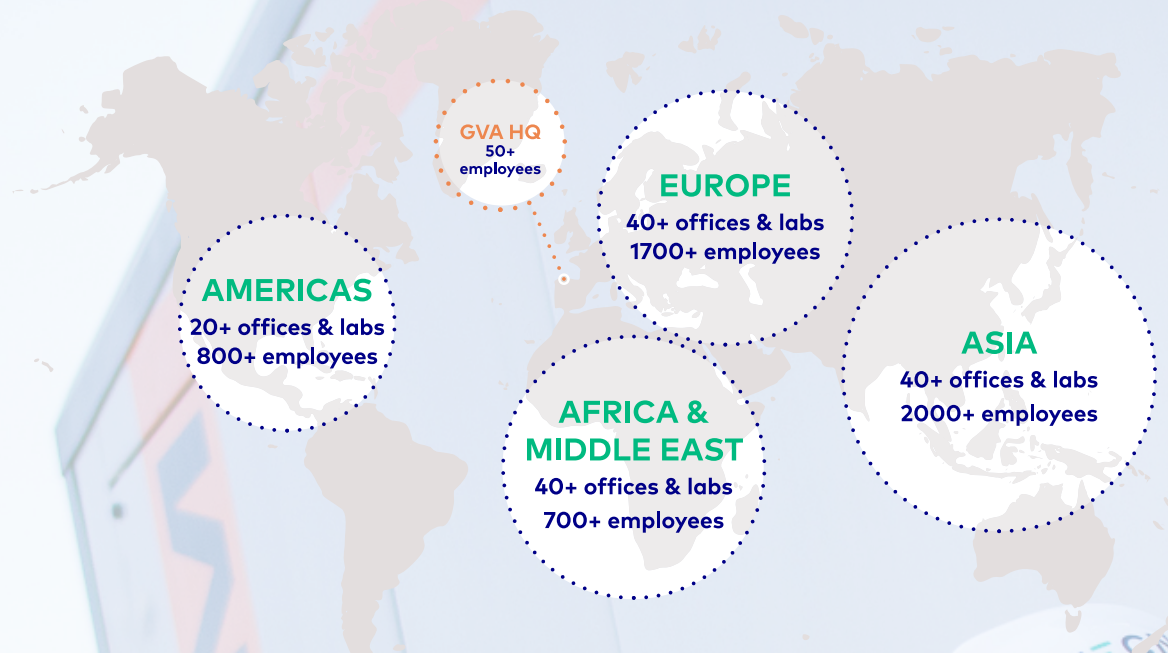
MINERALS

AND METALS

Focus on Coal & Coke



COTECHNA



OUR INDUSTRIES

OUR SERVICES



5,000+
employees
worldwide

Founded in
1974 in
Switzerland

40,000+
clients

www.cotecna.com



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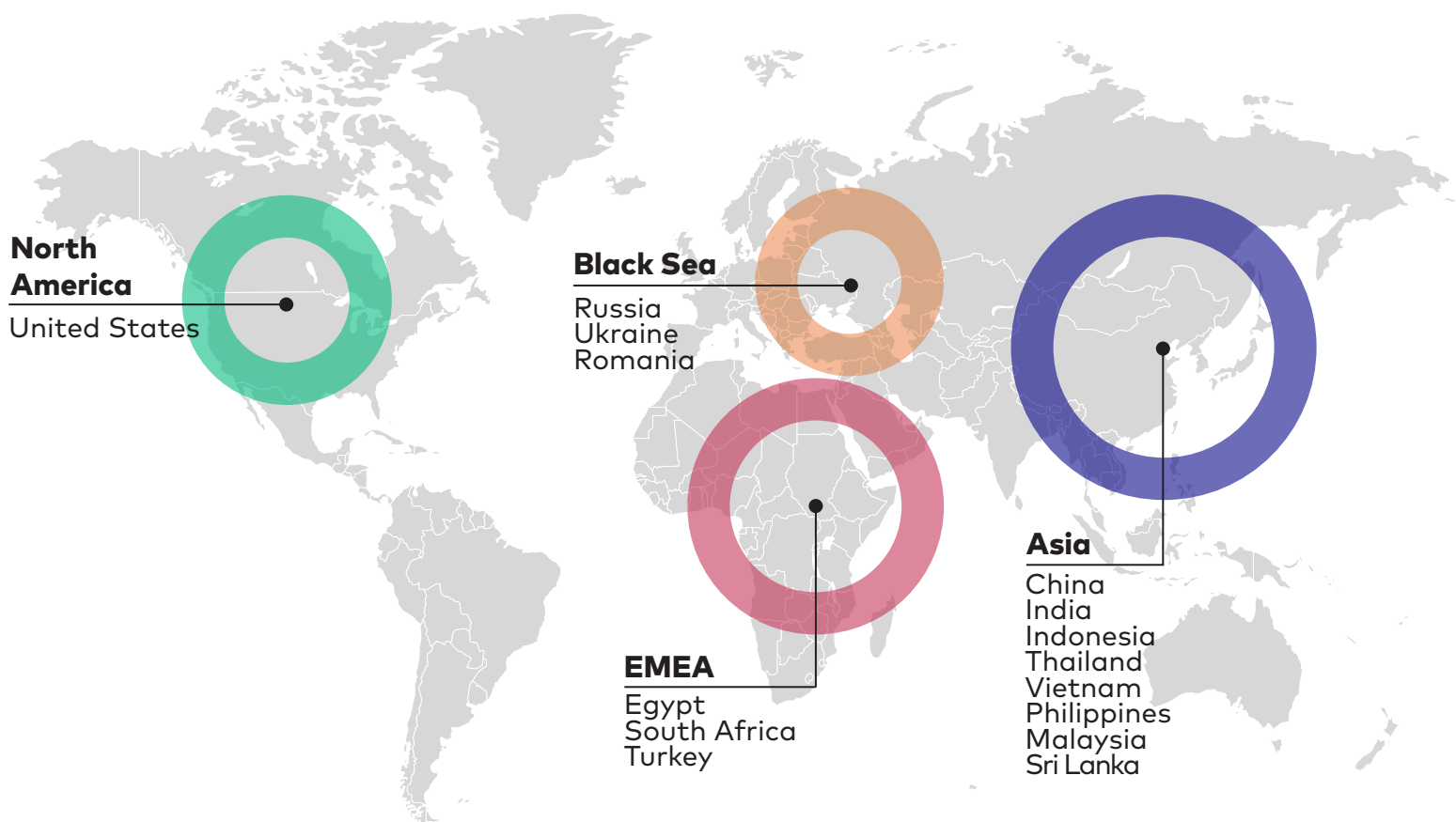
Cotecna Inspection

WE ACT WITH **PASSION**
 WE **CARE** ABOUT PEOPLE
 WE ARE **ACCOUNTABLE**
 WE **COMMUNICATE** OPENLY
 WE MAKE IT **HAPPEN**

**DREAM
DARE
DELIVER**

COTECNA

COAL & COKE



INSPECTED AND TESTED IN 2021



COAL AND COKE

VALUE PROPOSITION

- > Cotecna is a leading provider of testing, inspection and certification services. We offer solutions to facilitate trade and make supply chains safer and more efficient for our clients.
- > Cotecna has a global network of accredited laboratories and offices, strategically located to cover the most important centres of coal trading, including: United States, Russia & Ukraine, Turkey, South Africa & Egypt, China, India, Thailand, Vietnam, Philippines, and Indonesia.





COAL AND COKE

ONE STOP SOLUTION

- > Our team is made up of employees from many different areas within Cotecna, including those with expertise in operational and laboratory services.
- > The Cotecna approach involves proactive participating in the inspection and testing of coal and coke to optimize and streamline the entire workflow to identify, minimize or eliminate the risk, comply with contractual or regulating obligations, and make their business more transparent and sustainable.
- > Our operational units and laboratories are strategically located to cover the essential steam and metallurgical coal trading centres worldwide.
- > Our services range from independent assessments of the product's quality and quantity to consultancy and bespoke training solutions.





SERVICES WE OFFER

INSPECTION SERVICES

MINING

- > Sampling and testing of exploration and production samples
- > Monitoring of coal quality from the pit to the stockpile by taking representative samples from drilling, mining, and stockpile activities.
- > On site laboratory management.
- > Washing plant optimization to clean individual size fractions of run-of-mine coal.
- > Stockpile volumetric measurement and temperature monitoring services.

STORAGE

- > Visual assessment of the stockpile premises
- > Coal & Coke pre-shipment inspection
- > Sampling on reception and blending support
- > Weighing of Coal & Coke during storage or transfer to the port
- > Stockpile Monitoring
- > Stockpile volumetric measurements
- > Coal stockpile temperature assessment against spontaneous combustion
- > TML testing

TRADE

- > Hold Cleanliness
- > Loading & discharge supervision
- > Manual and/or mechanical sampling include sample preparation
- > Weight assessment
- > Transshipment services (barges to ship or ship to ship)
- > TML testing





SERVICES WE OFFER

LABORATORY SERVICES COAL & COKE

More than 70 elements present in coal have been determined by various methods for chemical and instrumental analyses of coal.

Our Coal & Coke testing labs are accredited by ISO 17025 and analysis are performed in accordance to accepted industry standards ASTM & ISO.

TOTAL MOISTURE / SURFACE MOISTURE

PROXIMATE ANALYSIS

- > Inherent Moisture
- > Volatile Matter
- > Ash Content
- > Fixed Carbon

PHYSICAL ANALYSIS

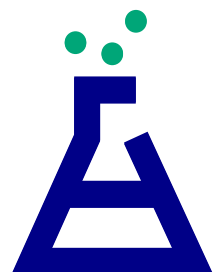
- > Calorific Value
- > Bulk Density
- > Sizing Analysis
- > Hardgrove Grindability Index (HGI)
- > Ash Fusion Temperature (AFT)
- > Ash Composition
- > Crucible Swelling Index (CSI)
- > Coke Tumble Test
- > CRI / CSR

ULTIMATE ANALYSIS

- > Carbon
- > Nitrogen
- > Hydrogen
- > Sulphur
- > Oxygen

OTHER TESTS & SERVICES

- > Bulk Density
- > Calcium
- > Chlorine
- > Fisher Assay
- > Fluorine
- > Loss on Ignition (LOI)
- > Micum Drum Test
- > Petrographic Analysis
- > Phosphorous in Ash & Coal
- > Trace Elements
- > Sample Preparation
- > Oxygen



WHY CHOOSE COTECNA?

- > The proximity of our teams, together with the personal nature of our service, and the fact that we are certified by the industry's recognized bodies, mean we can act quickly and proactively to an inspection request.
- > We guide our clients through local market inspection procedures, acting as a partner in trade and not just a service provider. We communicate regularly and with complete transparency, allowing a client to operate with full assurance over the verification of their shipment.
- > We know that a fast turnaround time is critical to our clients. Not just once, but continually. Each of our laboratories is equipped with the latest technology and is staffed by expert analysts, allowing samples to be tested at speed but without sacrificing quality and accuracy.



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2. Upload it on line to validate its authenticity



START THE CONVERSATION

To learn more about our minerals and metals inspection services for businesses and how they can benefit your operations, please don't hesitate to contact us.

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COTECNA

Trust for a moving world

