

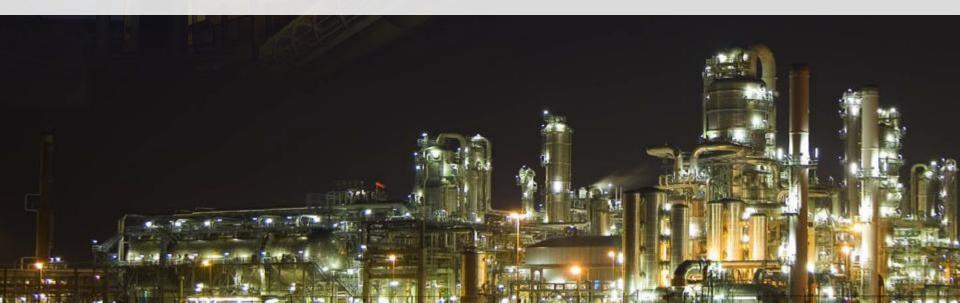






Company Profile 2012







Proud History... Bright Future





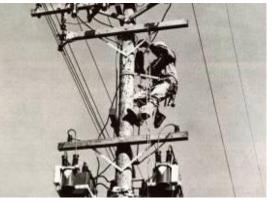




Celebrating 177 Years!









Building Upon a Legacy of Innovation, Service & Expertise



Electrical Businesses

Energy & Safety Solutions



Power Systems \$1,100+/- million #1 North America



Crouse-Hinds \$950+/- million *#1 Worldwid*e



Safety \$700+/- million #3 *Europ*e





Lighting \$1,050+/- million #3 North America



Bussmann \$400+/- million *#1 Worldwide*



B-Line \$350+/- million #1 North America

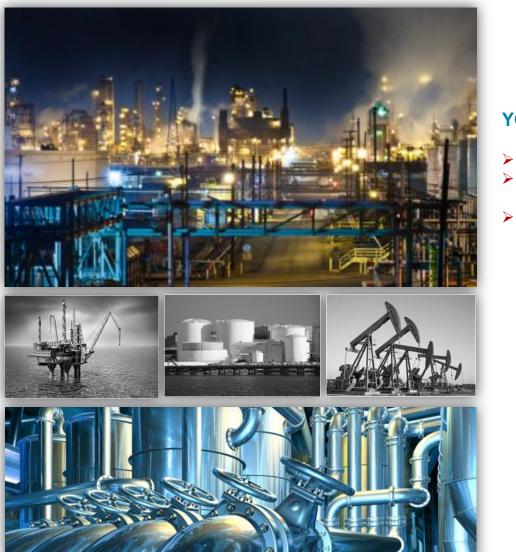


Wiring Devices \$200+/- million #3 North America

World-Class Collection of Electrical Businesses



Oil and Gas Solutions



YOUR PARTNER FOR THE OIL & GAS INDUSTRY

- Global footprint with you wherever your business takes you
- A broad product offering to maximize safety, standardization and savings
- Innovative solutions for today and tomorrow



B-Line Bussmann Crouse-Hinds Lighting Power Systems Safety Wiring Devices

A best-in-class partner for the oil & gas industry



Within Cooper Industries



Based in Houston, Cooper Industries is a leading manufacturer of electrical products and tools with a turnover of \$ 6,5 billion and 30,000 employees.



Global Partner

Global Manufacturing and Distribution Network

Manufacture in 23 countries Sell into more than 100 countries 38% of product sold outside U.S. More than 100,000+ SKUs 143 Locations worldwide





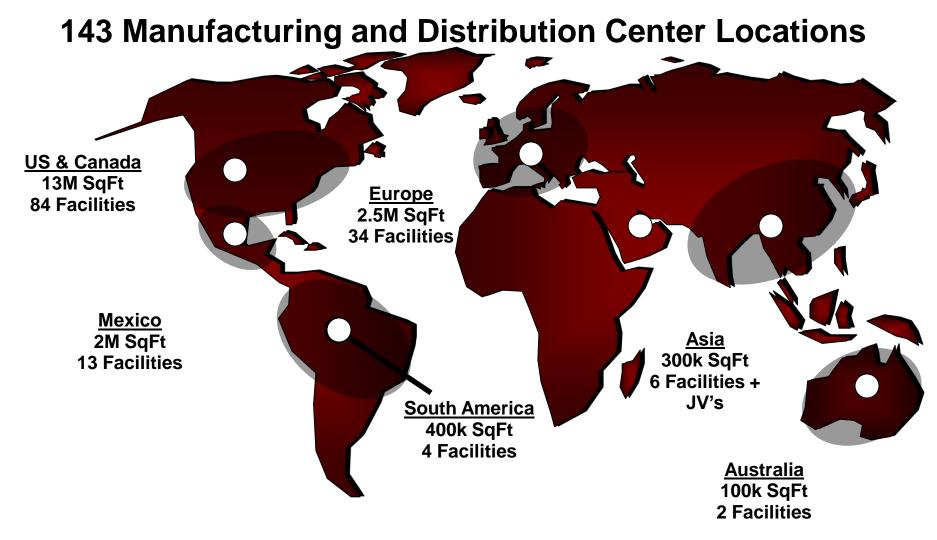
Whatever you need

COOPER

Wherever you are



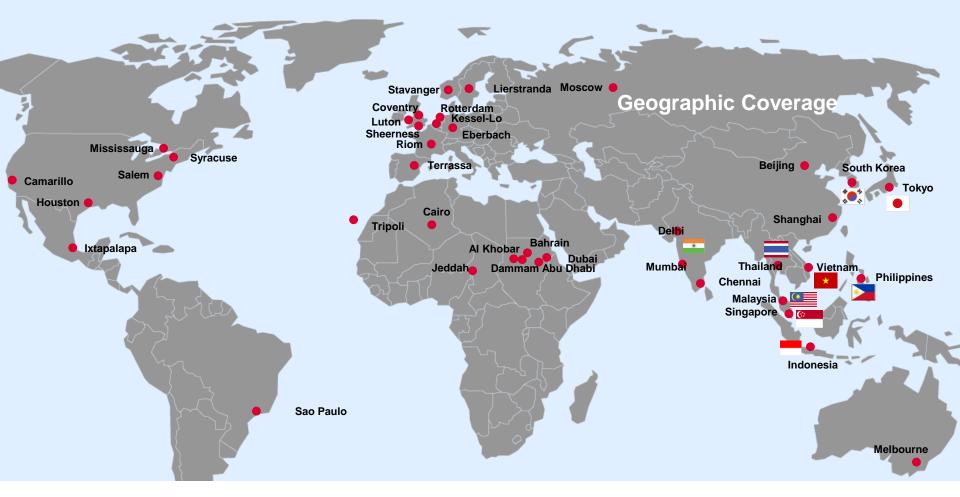
Operation Footprint



Delivering products of the highest quality, to the right place at the right time, anywhere in the world



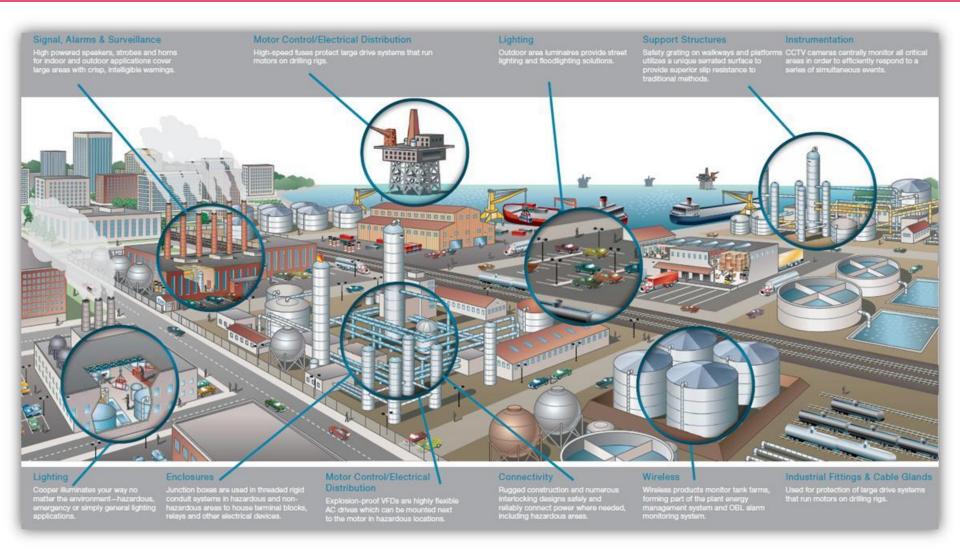
Geographic Coverage



We are worldwide present for you



Comprehensive Product Solutions

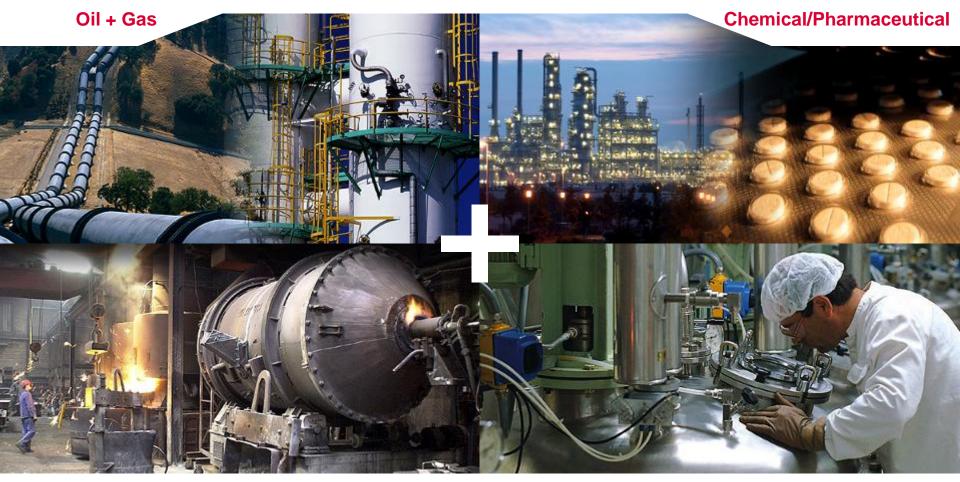


Thousands of Products, Hundreds of Solutions, ONE COOPER



Target Industries

World's leading provider of products and service for electrical systems in hazardous environments



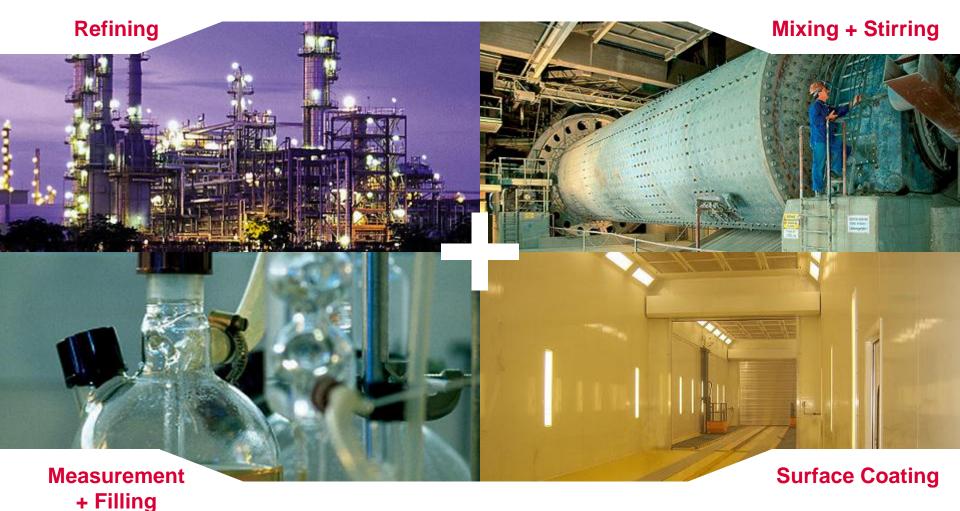
Heavy Industrial

Food/Beverage



Product Applications

Explosion protection is vital in many places. Cooper products protect personnel and electrical systems in harsh industrial environments





Lighting Solutions

Hazardous and Corrosive Areas

- > LED
- ≻ H.I.D.
- Fluorescent
- Floodlights
- Induction
- Incandescent

Emergency Lighting for Both Hazardous and Non-Hazardous Areas

- Exit signs (LED Available)
- Emergency lighting systems (LED Available)
- Compact fluorescents
- Obstruction lighting and visual signals (LED Available)

General Indoor/Outdoor

- Quarters lighting utilizing incandescent, fluorescent, H.I.D. and LED luminaires
- Exterior parking and walkway lighting
- Exterior building floodlighting





NEC and IEC standards for both hazardous and non-hazardous areas



Connectivity Solutions

Pin and Sleeve Devices

- Hazardous and non-hazardous areas
- Interlocking units for additional protection
- Nonmetallic units for corrosion protection

IEC 309 Devices

- Light industrial, heavy duty and hazardous areas
- IP44 and IP66 variations

Low Amperage & Signal Transmission

- LynxPower Passive Connectors
- LynxPower Network Connectors

High Amperage Products

- Roughneck Connectors
- Posi-Lok System
- Pin & Sleeve
- IEC 309 Devices
- Cam-Lok

Well Head Penetrators

Submersible, Networking

Burton Subsea Connectors









Portable Power Solutions

- Custom cable assemblies
- Power distribution panels
- Custom power carts & specialty products

NEMA Configured Devices

- Specialty products
- Locking devices
- Plugs and connectors

Specialty Products

- Single-pole
- Multi-pin
- Ex-Link

Electrical Thread Conversion Products

- Adaptors
- Reducers

Rugged construction, extensive configurations and custom capabilities



Motor Control/Electrical Distribution

Conduit Outlet Bodies and Boxes

 Multiple configuration sizes & materials

Cable Glands

- Built to NEC/IEC Standards
- Armored or Non-armored

Sealing Fittings and Compounds

- Standard sealing fittings
- Sealing fittings with drains
- Retrofit & Expanded Fill





Industry leader in circuit protection, power management and safety



Instrumentation

Foundation Fieldbus

- Power supplies
- Wiring components
- Diagnostic tools
- Displays
- Industry standards for Foundation & FF-831

Intrinsic Safety I/O

- Galvanic isolators
- Zener safety barriers
- HART multiplexing equipment and annunciators
- Beacons and sounders

Surge Protection

- Power
- Process control
- Network and communications
- Telecom and wireless
- RF systems





Electronic instrumentation and protection for process control



Wireless

Upstream

- Oil and gas well-head monitoring systems
- Pipeline pressure, flow and valve monitoring
- Cathodic protection/leak detection monitoring
- Underground gas storage monitoring
- Pump/compressor station monitoring/control

Downstream

- Oil/gas tank level gauging/monitoring
- Distribution pipeline pressure, flow and valve monitoring
- Plant IP camera and annunciator security management
- Production emissions monitoring and reporting
- Water and electrical utilities custody transfer verification/monitoring
- Electrical apparatus temperature profiling and monitoring







Enclosures

Junction Boxes and Empty Enclosures

- Explosion-proof and flameproof metallic enclosures
- Customized entry options and control panels
- Enclosures With Components
- Explosion-proof and flameproof metallic/non-metallic enclosures

Instrument Housings

- Hazardous rated metallic or nonmetallic enclosures
- Explosion protected terminal boxes





Enclosures built to meet the most demanding IEC/NEC environments



Support Structures

Bolted Framing and Strut

- Structural grade steel
- Materials and finishes
 - stainless steel
 - carbon steel
- aluminum

Cable Ladder

- Industry leading spans reduce cost
- superior strength and safety
- industrial grade:
 - Stainless
 - fiberglass

Pipe Hangers

- Patented technology eases installation
- Materials and finishes for any environment
- exceed industry standards within design and manufacture

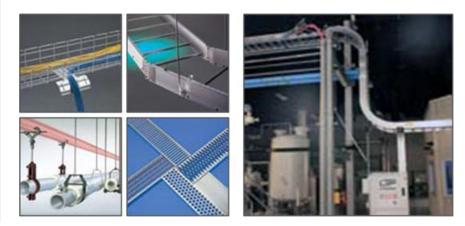


Flextray

- Field fabricated reduces installation
- Materials for any environment including:
 - Offshore
 - Coastal
 - Indoors

Safety Gratings

- Serrated surface
- Open diamond design allows for debris to pass through the grating without becoming trapped and creating a hazard
- > The longest spans and highest loads in the industry



Solutions designed for electrical and mechanical subsystem applications



Signals, Alarms and Surveillance

Deliver the right message to the right people at the right time to save lives, mitigate casualties and minimize chaos. Cooper notification products operate in extreme environments utilizing a secure technology that protects its network during a disaster and reconfigures automatically if a unit goes down. Alerts and messages continue broadcasting without interruption. We offer a system which can be built around your budget and specific needs – from light-weight flameproof horns to explosion-proof relays and bells.

- Process Shutdown
- Alarm and Emergency Signaling
- Condition Signaling
- Security Alert
- Equipment Obstruction Warning
- Individual Building Notification
- CCTV Systems

- Outdoor Warning Systems
- Portable Alerting Systems
- Fire Systems
- General Alarm
- Public Address
- System Status/General Warning



Delivering the right message to the right people at the right time to save lives

Industrial Fittings and Cable Glands

Our time-tested and innovative conduit fittings, cord connectors and cable glands move power where you need it simply and safely in any electrical installation. We deliver solutions for both non-hazardous and hazardous areas where safety is the utmost of importance.

Conduit Outlet Bodies and Boxes

- Multiple configuration sizes & materials
- Cable Glands

COOPER

- Built to NEC/IEC Standards
- Armored or Non-armored

Sealing Fittings and Compounds

- Standard sealing fittings
- Sealing fittings with drains
- Retrofit & Expanded Fill

- Unions and Elbows
- Conduit Hubs
- Reducers and Plugs
- Couplings
- Ultra High Pressure and Secondary
- Process Seals

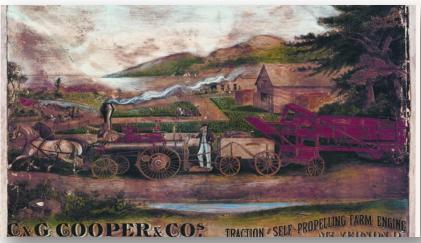


Time-tested, innovative conduit fittings, cord connectors and cable glands



Driving Innovation

Proud History



LED Innovation Center



Cooper Technology Center (CTC)



Asia Technical and Training Center



Building on a legacy of innovation



The Cooper Advantage

- One of the largest single source electrical/instrument bulk material offerings
- Global technical EPC support to help ensure project-wide coordination
- Solution Strategy Strategy
- Global operations to support your onsite project needs, OEM supply and aftermarket service
- Efficient, on-time supply chain helps deliver cost reductions while maintaining Cooper quality
- On-site installation support and training to facilitate safe and consistent installations and start-ups
- Globally Connected EBS (Enterprise Business System) via SAP helps provide standardization, traceability, accurate business records, and cost reductions

More than 175 years of quality and experience



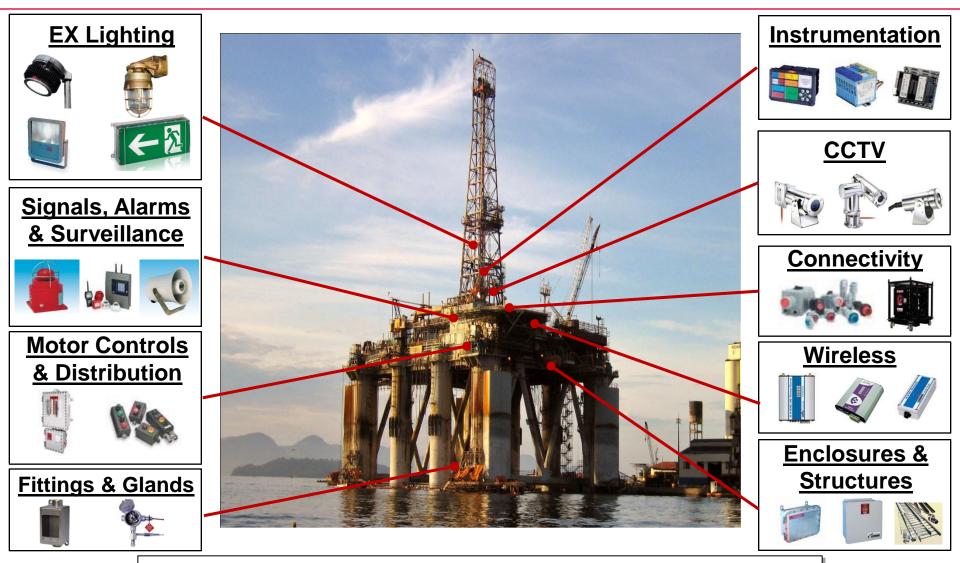
Cooper Petrochemical Portfolio



Comprehensive Product Solutions For Global Oil & Gas Applications



Cooper Upstream Portfolio



Comprehensive Product Solutions For Global Oil & Gas Applications

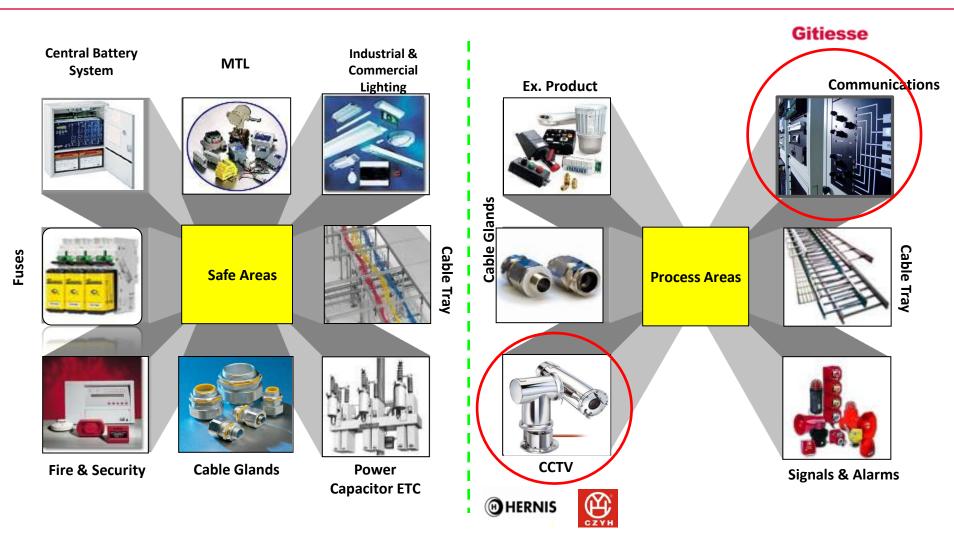


Hazardous Area Communications





Safe Area & Hazardous Area Solutions

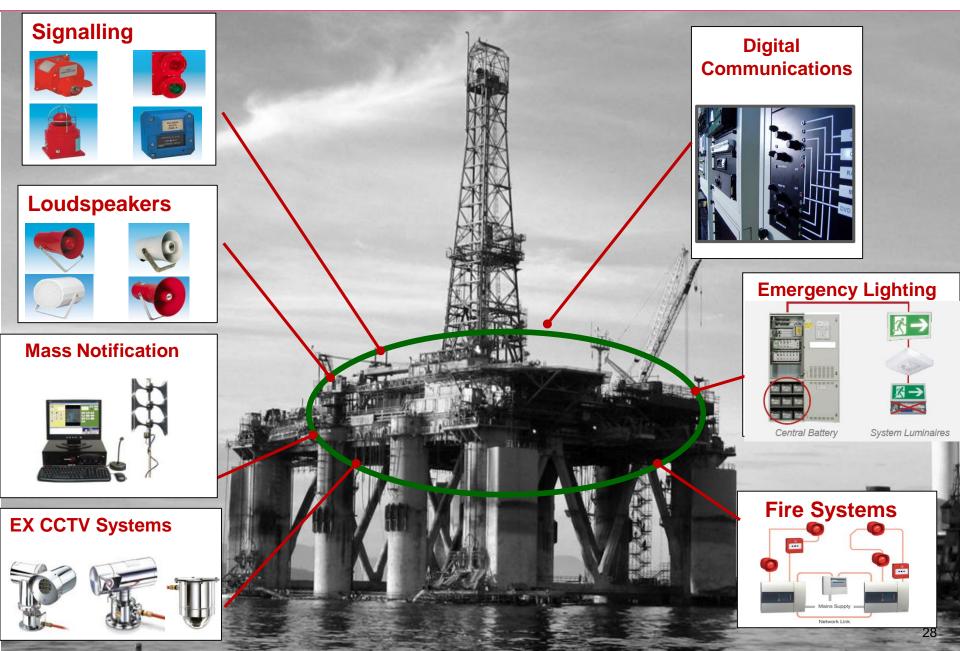


Cooper adds 3 new system companies to the group in 2011

27

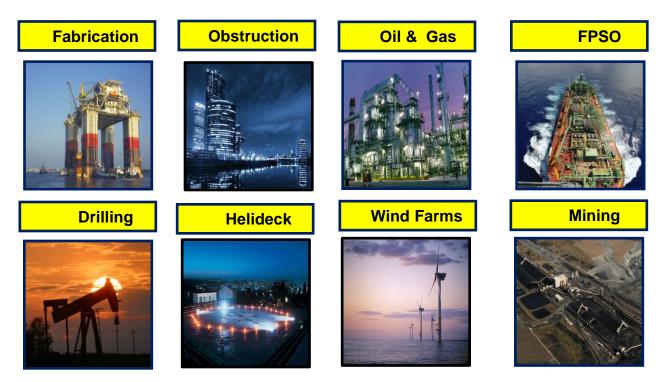


Strategic Rationale





- Global Oil & Gas markets both onshore and offshore.
- Global Projects.
- Markets where Safety legislation is enforced.
- Price is not the primary concern.
- Specifiers are concerned with long life and performance.





Oil & Gas Solutions



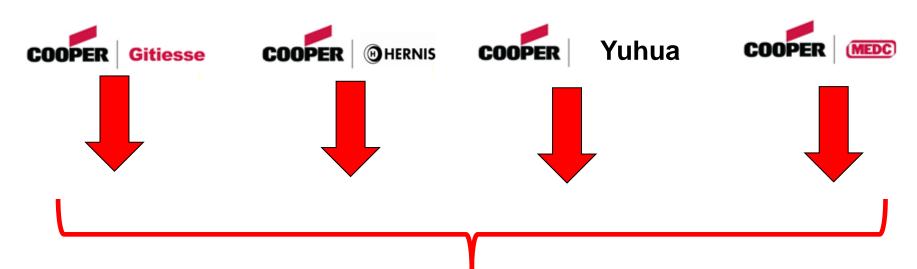


- Cooper MEDC \$40m sales revenue, 235 employees, Pinxton, UK – Signalling / Alarms / Loudspeakers
- Cooper Hernis \$51m sales revenue, 140 employees, Arendal, Norway – CCTV systems
- Cooper Gitiesse \$34m sales revenue, 65 employees, Genoa, Italy – Integrated Multi Media Communications system or "IMCOS"
- Cooper Yuhua \$15m sales revenue, 220 employees, Changzhou, China – CCTV cameras
- Combined 2012 sales \$140m
- Projects businesses in Oil & Gas & Marine & Mining
- Two engineered systems businesses and 2 components businesses
- 3 are Global, Yuhua is China only....so far.

Building A Hazardous Area Communications Platform



We Will Grow Faster As A Team





In many cases the customers are the same and we are duplicating our efforts, while at the same time limiting our ability to be truly global



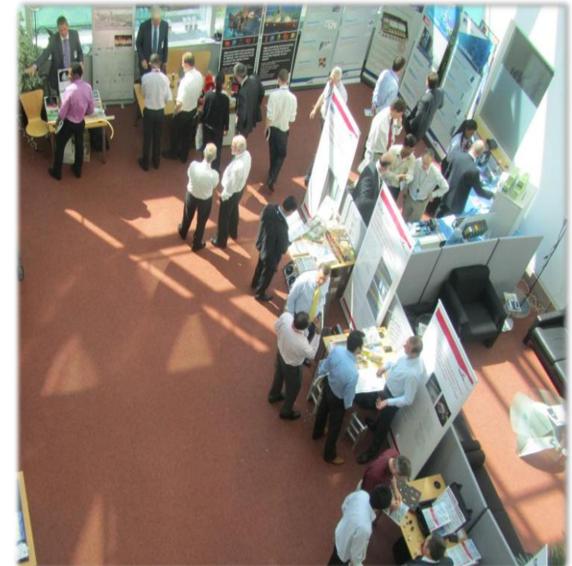
Traditional Sales Approach



Product-Centric

Largely Tactical, Reactive
Cooper-centric
Product & Technology focus
Differentiate via Features

Respond to RFQs
Engagement targeted at



Lots of "show and tell"

COOPER Changing Our Sales and Marketing DNA

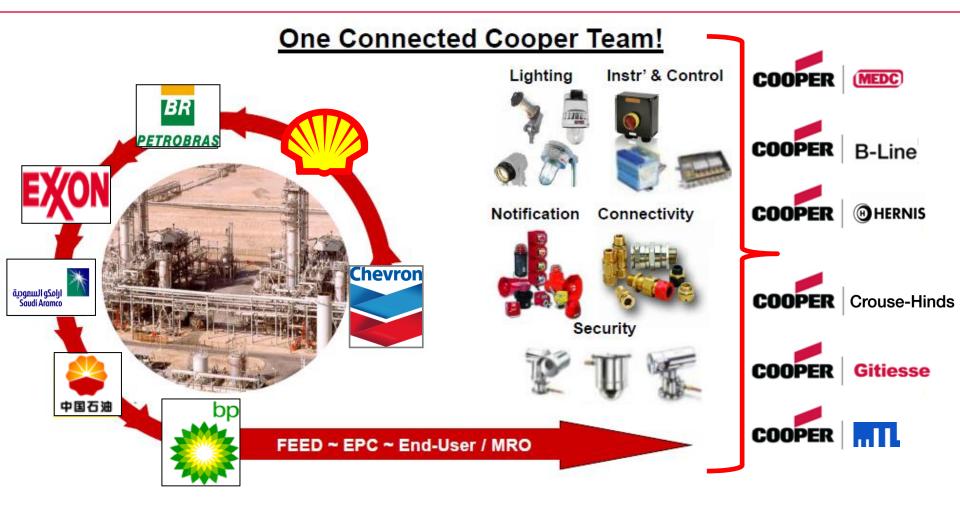
Transformation	Product-Centric	Solution-Centric		
THINK DIFFERENTLY	Company defines itself by the products it makes	Company defines itself by customer transformation it creates (problems it solves)		Above the Funnel
COMMUNICATE DIFFERENTLY	Company "launches" products and "reverse engineers" problem/solution linkages	Company "launches" problems and communicates problem/solution linkages clearly (sales "conversations")		
ENGAGE DIFFERENTLY	Selling disciplines focus on product superiority	Selling disciplines focus on problem diagnosis and value defensibility	\prec	In the
REINFORCE DIFFERENTLY	Reinforcement is focused on new product capabilities or is an afterthought	Formal reinforcement for solution- centric disciplines are proactively implemented		Funnel

- Proactively Solve Problems
 - Customer-centric
- Business Issue and Pain focus
- Differentiate via Delivered Value
 - Strategic Engagement
 - Expanded Contacts include Operations and Management





One Connected Cooper.... Customer Focussed Team





Has the answers



Companies within Platform







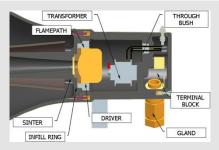


MEDC

Founded in 1975 in the UK manufacturing equipment for the mining industry.

Cooper Industries

Became part of Cooper Industries 2004. Continues leading edge design in EX products with new cutting edge technology

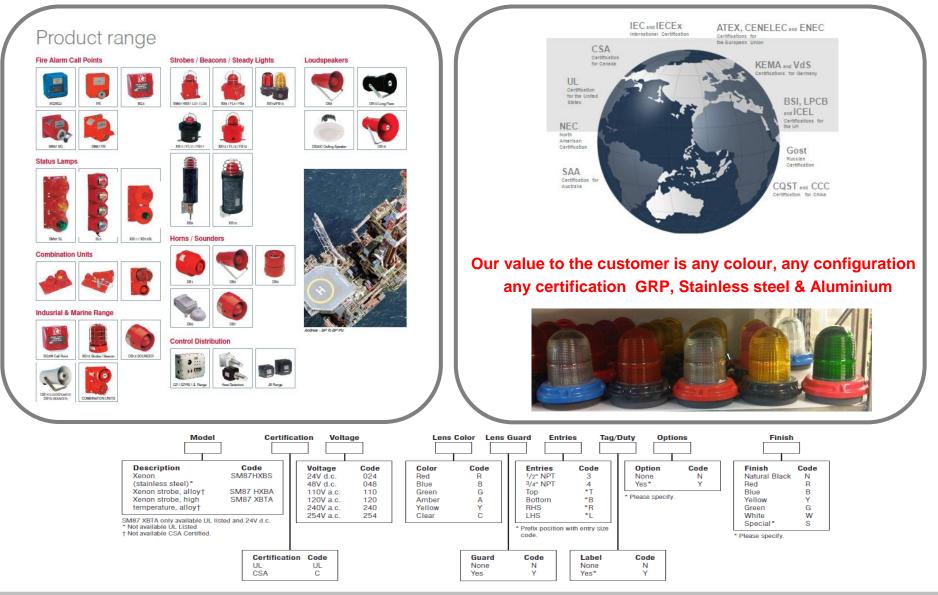


GRP Designed EEXd products

Global, Innovative, Comprehensive. Oil & Gas Solutions.



MEDC Is The World Leader In Signals & Alarms



Global, Innovative, Comprehensive. Oil & Gas Solutions.

Explosion protected Signaling Products

















Product Portfolio

Explosion protected Audio Products

















Explosion protected Manual Alarm Products



















Our References





Ras Laffan Qatar

Qatar Gas & Ras Gas LNG plants

MEDC signals & alarms for fire & gas package



Aramco Manifa

Gas processing plant

MEDC signals & alarms for fire & gas package



Our References





Petro Rabigh Aramco JV Petrochemical plant

MEDC signals & alarms for fire & gas package





Our New Member - Yuhua Products Overview

Technical Base and Innovation

- Low cost camera stations for application in hazardous areas both Onshore and Offshore
 - Supporting Range of EXd Product including Telephones, Microphones, Loudspeakers, Monitors and Enclosures
 - Certified product and associated licenses for the Chinese Market
 - Specific Range of camera stations for mining applications with associated approvals

Products / Technologies



Range of EXd Camera Stations For hazardous Areas



Certified Solutions For Mining Applications



Range Of Supporting EXd Product

Certified EX Products for China Onshore & Mining





IMCOS DIGITAL

THE MOST ADVANCED MULTIMEDIA COMMUNICATION SYSTEM FOR OFFSHORE MARINE APPLICATIONS MADE BY COOPER GITIESSE - ITALY



First in the World..!

IMCOS DIGITAL

Type Approved by seven Classification Companies :



- American Bureau of Shipping
- Det Norske Veritas
- Germanischer Lloyd
- Registro Italiano Navale
- Bureau Veritas
- Lloyd Register of Shipping
- China Classification Society



IMCOS DIGITAL

One single cable for DATA – VOIP – CCTV – TVSAT
 Main Back bone in fibre optic.
 High speed data rate.
 Redundancy Criteria.
 Remote Teleassistance.
 udio and Video Digital Memory Bank.

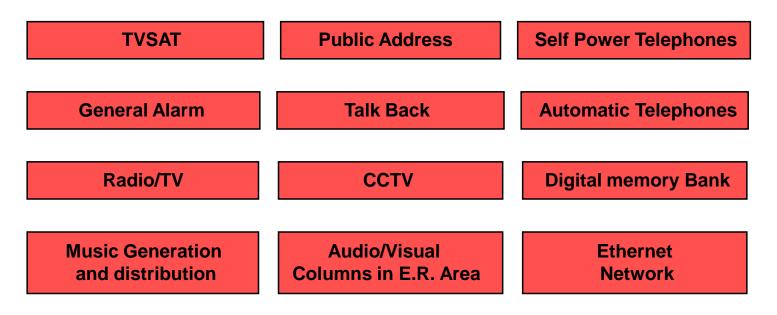
VOIP and STREAM VIDEO facilities. -DIGITAL Video Recording facility. -Email – Internet – Video on demand.



Gitiesse Advantage



All Delivered In One Integrated Digital Solution **IMCOS**_m



New advanced solution

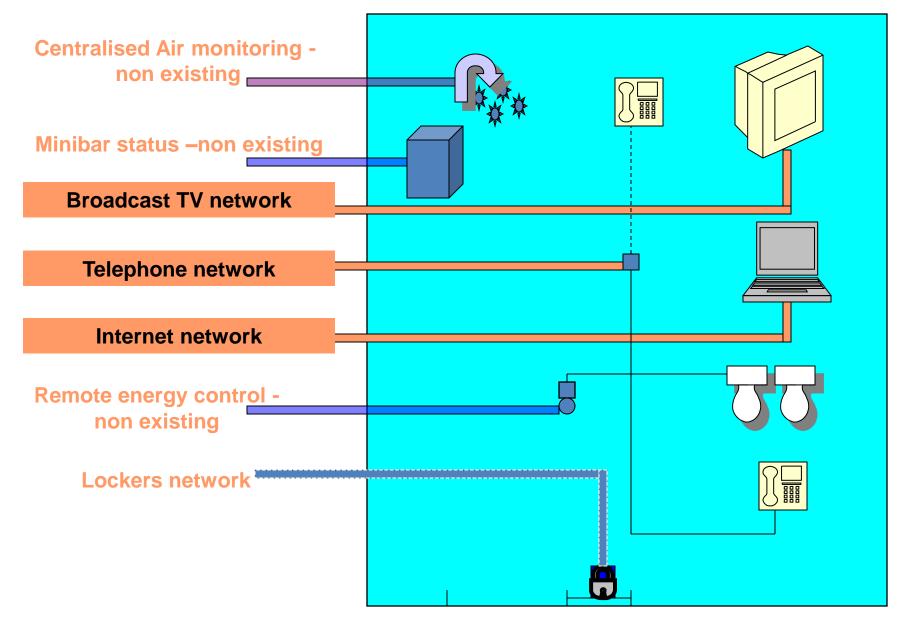
COOPER

As manufacturers of integrated multimedia communication, Cooper Gitiesse engaged into finding new ways for better performances at less cost for yards and owners

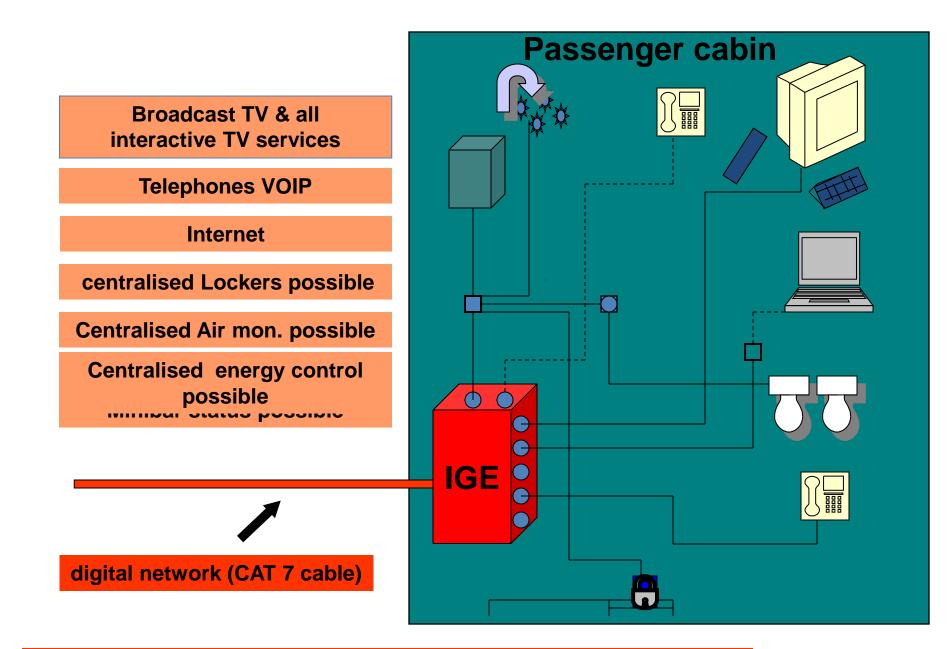
One of the primary goals is eliminating multiple cable networks.

By means of the latest LAN technology and TCP/IP applications offers a new approach to the communication network cabling

The "single cable - single task" principle now can be replaced by the "single cable - multiple tasks" one



Typical traditional cabin connections: At least 3 separate networks



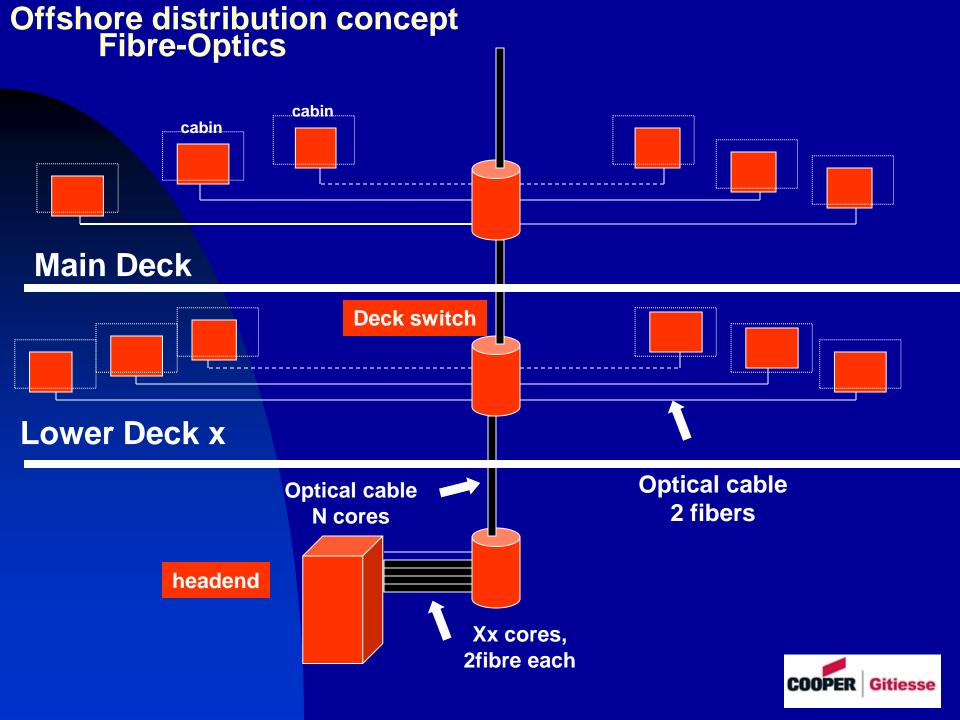
IMCOS[™] digital solution for cabin connection



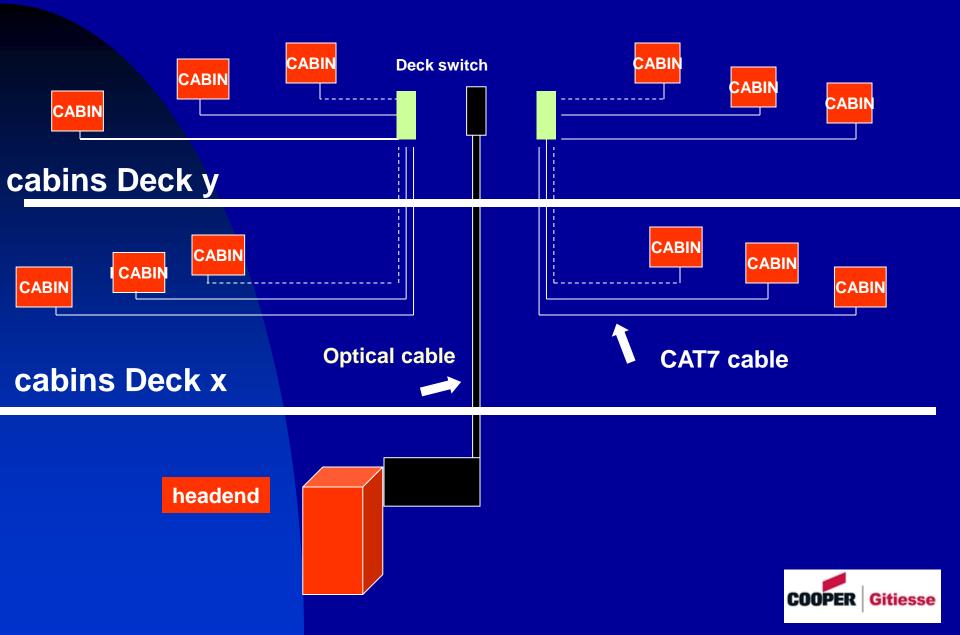
IGE means " **IMCOS Gateway Equipment**".

➢ This active box transforms and interfaces the comms peripherals into clients of the installation WAN (wide area network)

➢IGE can use either Cat7 conventional cable or optical cable network



Ship distribution concept CAT7



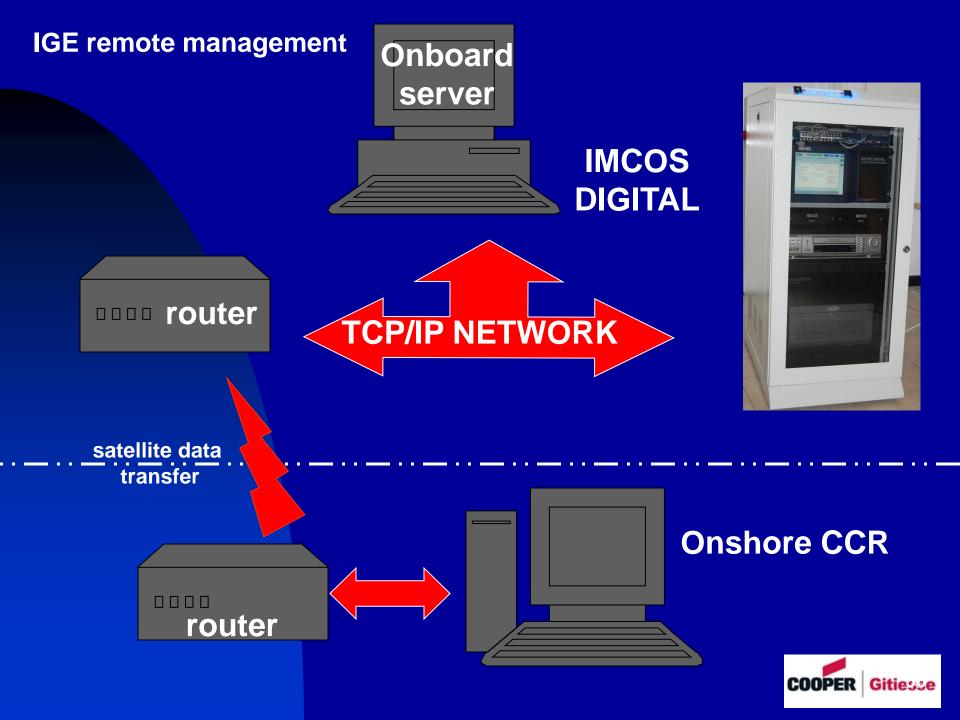


The IMCOS DIGITAL can be remotely managed by the onboard Server or through a satellite data media (Inmarsat, Vsat, etc.) directly from the Onshore CCR and the server access is protected by password.

The user can read IMCOS DIGITAL status & configuration as IP addresses etc.

-Provide quick access for configuration upgrades and quick troubleshooting from shore

-Remote tele-assistance programming of telephone PABX, peripheral computers, file downloading, TV programs refreshing, etc.





Past Projects



THANK YOU





