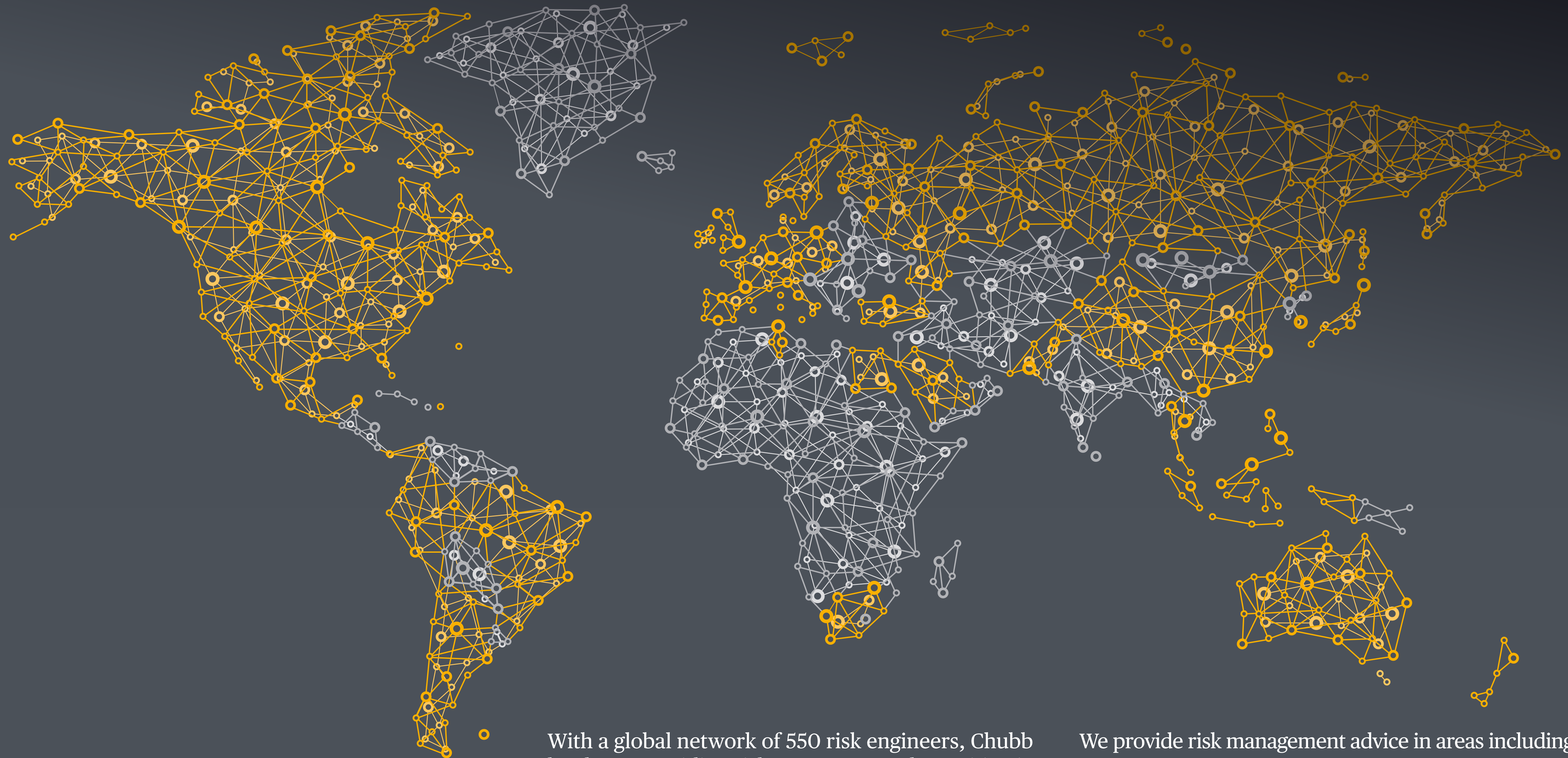


Risk Engineering Services in Europe

CHUBB®



Crafting solutions across a global network



With a global network of 550 risk engineers, Chubb has been providing risk management, loss mitigation and prevention services to our clients around the world for many years.

From complex multinationals to single site businesses, we craft bespoke and practical risk managed and engineered solutions, enabling clients to identify and remove causes of loss, achieve best industry practice and protect their bottom line.

We provide risk management advice in areas including :

- Property
- Casualty (general liability, products liability, employers' liability)
- Terrorism
- Cyber
- Technical Lines
- Energy
- Environmental
- Marine.

Our approach

Chubb's Risk Engineering services are custom crafted to address clients' specific risks - from repetitive injuries to emerging hazards to catastrophic failures.

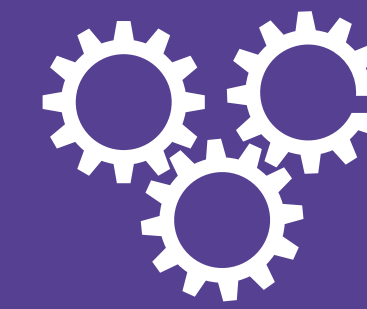
Helping clients manage their risks through a collaborative approach.

Our risk engineers work with clients to gain a deep understanding of their hazards and exposures. We also support clients and brokers through training and provision of pragmatic guidance and technical information.



Our expertise

- An internationally recognised group of experienced risk engineering professionals with multiple qualifications and accreditations
- Expertise in Property, Casualty, Cyber, Environmental, Technical Lines, Energy, Marine and in our Industry Practices, such as Life Sciences, Technology and Real Estate
- Servicing built on a unique blend of industry and technical expertise; business acumen; and a solutions orientated approach.



Technical guidance based on:

- Comparisons of local and international risk management and loss prevention standards
- Recent research data and actual loss histories
- Industry best practice expectations

The client benefits



Understanding the hazards and risks to their business and how to mitigate them



Short to long term risk solutions



Establishing pragmatic and cost effective risk engineered solutions



Easy to understand benchmarking systems



Protecting the business and balance sheet



Customised reports



Customised risk engineering services and programmes



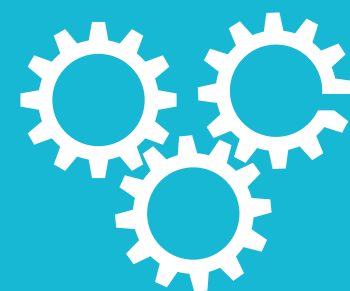
Access to recent research data and actual loss histories




Extensive industry experience



Stronger relationships based on professional engineering technical input and trust



Consultative engineering based approach



Property risk management

Along with property risk engineering inspections and risk improvement solutions, our engineers also have the specialist skills to offer a wide variety of added-value services:

Evaluation and review

- Corporate risk management standards evaluations and gap analysis
- Active and passive fire protection system reviews and evaluations
- Active and passive security system reviews and evaluations
- New build and refurbishment project reviews
- New plant and upgrade reviews
- Fire and security protections impairment management
- Infrared thermography testing and evaluations
- Allied perils evaluations
- NAT Cat mapping and accumulation analysis
- On-site risk assessment and evaluation inspections
- AAA and risk score benchmarking

- Risk profiling/self-assessment tools
- Customised reporting
- Business interruption/business continuity planning analysis
- Supply chain analysis

Training, guidance and support

- Development of best practice guidance documents and emerging risk bulletins
- Training seminars and workshops
- Technical support
- Risk engineering programme management
- Claims analysis/lessons from losses



Casualty risk management

Helping businesses achieve their risk management ambitions whatever the size, location or budget.

Added value services for Casualty risk management include:

Evaluation and review

- Qualitative and quantitative assessment of risk management standards and claims defence capabilities
- Risk profiling/assessments
- Customised reporting
- Technical support
- Product quality system analysis
- Product recall programmes
- Liability claim history and trend analysis
- Implementation of agreed risk engineering plans with customised reporting
- Product liability risk evaluation and advice

Training, guidance and support

- Risk engineering programme management
- Development of best practice guidance documents and emerging risk bulletins
- Managed provision of specialist consultants to deliver a range of risk management solutions including: management training; Safety culture evaluations; incident investigation process improvement; slips and trips audits; machinery guarding reviews; manual handling risk reduction and workplace transport reviews
- Bespoke training seminars and workshops
- Expert technical support



Marine & Transportation

Transportation professionals with experience of seagoing, port operations and freight forwarding. Providing support in the assessment of risk and safe delivery of different cargo types worldwide.

Services include the following:

- Reviews and audits of logistics supply chains
- Support with logistics service provider selection, contracts and KPI's
- Cargo theft prevention, both in transit and whilst in store
- Packing assessments
- General load stowage and securing reviews
- Cool chain/pharmaceutical reviews
- Warehouse assessments
- Vessel suitability reviews
- Project cargo management/heavy lift surveys
- Specie risk assessments
- Training and support
- Support with the development of relevant Standard Operating Procedures (SOP's)
- Education and Training
- Post loss surveys/post loss learning support

Speciality lines

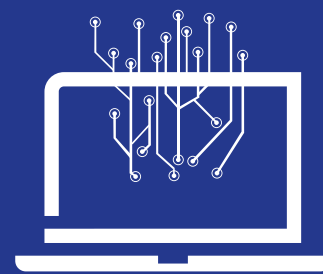
We offer services across a number of speciality sectors and have expertly trained engineers who are familiar with local laws and regulations.

Some of the services we offer across these lines include:



Terrorism

- Risk Identification and evaluation
- Protection security and risk mitigation analysis
- Mobile risk analytics
- Customised reporting



Cyber (data privacy and business interruption risk)

- Investigations and analysis of information governance including risk management methodologies and framework
- Cyber readiness evaluations
- Supply chain and conduit threat risk evaluation
- Technological and procedural controls evaluation
- Incident response & breach detection capability
- Incident response plan and recovery capabilities
- Technical whitepapers and articles
- Technical training



Environmental

- Guidance on proactive methods to prevent potential environmental exposure
- Mock regulatory compliance audits
- Assistance with duty of care and waste management
- Assistance in assessing environmental risk exposure of a company/project
- Environmental site survey
- ISO 14001 pre-audit
- Spill plan review and development
- Environmental crisis simulation
- Environmental awareness refresher training
- Sub-contractors selection guidance

Speciality lines *continued*



Technical Lines - Construction including civil works and infrastructures, Engineering and operational Power Generation

- Engineering survey services
- Protection and risk mitigation assistance - On-site risk assessment and evaluation inspections
- Development of best practice guidance documents and emerging risk bulletins
- Active and passive fire protection system reviews and evaluations
- Active and passive security system reviews and evaluations
- Fire and security protections impairment management
- Risk engineering programme management
- Technical white papers and articles
- Technical training and workshops
- Technical support
- Claims analysis/lessons from losses

For further information about
Technical Lines services contact:

Gerardo Marquez -

Engineering Technical Standards Manager



Energy

- Risk evaluation of upstream and downstream Energy risks
- Upstream - Exploration and Production assets deployed to produce oil and gas
- Downstream - Refineries, Petrochemical, Fertiliser plants and tank farms
- Evaluation of business interruption exposures
- On site risk assessment, mitigation & improvement recommendations on:
 - Process safety management systems
 - Identification of inherent process hazards
 - Assessing both physical damage and business interruption exposures.
 - Passive and active fire protection
 - Equipment inspection and maintenance
 - Industry best practice & lessons learned
- Bespoke Business Interruption studies carried out for key clients.
- Energy specific technical training & workshops for clients

For further information about Energy services contact:

James Miller - Head of Energy Engineering

Contact us

Chubb Risk Engineers are located in the following countries/cities in Europe:

Belgium (Antwerp)
Denmark (Copenhagen)
France (Lyon, Paris)
Germany (Dusseldorf, Frankfurt, Hamburg)
Hungary (Budapest)
Ireland (Dublin)
Italy (Bologna, Milan)
Netherlands (Amsterdam, Rotterdam)
Poland (Warsaw)
Spain (Barcelona, Madrid)
Sweden (Stockholm)
United Kingdom
(Birmingham, Glasgow, Leeds, London, Manchester)

Please note, that although some of our services may not be available in certain locations, we will work with you, with the aim to provide a solution. Contact our Risk Engineering management team for more information - Click on their names to email them directly

Paul Brooke

*Head of Property & Casualty Risk
Engineering Services - Europe*

Rafael Andres

*Property & Casualty Risk Engineering
Services Manager - Southern
Continental Europe*

Phil Hastings

*Senior Transportation Risk
Manager UK&I*

Peter Kelderman

*Marine Risk Management Leader
Continental Europe*

Heiner Eckhardt

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Services Manager - Northern
Continental Europe*

Andrew Templeton

*Property & Casualty Risk Engineering
Services Manager - UKI*

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Chubb European Group SE registered in England & Wales number SE000116 with registered office at 100 Leadenhall Street, London EC3A 3BP. Authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. Full details can be found online at <https://register.fca.org.uk/>

IMPORTANT NOTICE: Chubb European Group SE (CEG) is proposing to transfer its registered office from the United Kingdom to France on 1 January 2019 when it shall be governed by the provisions of the French insurance code with registration number 450 327 374 RCS Nanterre and have the following registered office: La Tour Carpe Diem, 31 Place des Corolles, Esplanade Nord, (92400) Courbevoie, France. This is subject to the fulfilment of the statutory requirements applicable for the re-domicile of a Societas Europaea. Until such time the registered office of CEG remains 100 Leadenhall Street, London EC3A 3BP, United Kingdom and CEG, with company number SE000116, remains authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. For more information about what our Brexit preparations mean for you, please refer to our website at www.chubb.com/Brexit