



Welcome to
FORCE Technology

About FORCE Technology



- FORCE Technology is one of the leading technology, consulting and service companies on the international market.
- We transform highly specialised engineering knowledge into practical and value-creating solutions for a broad spectrum of sectors and industries.

About FORCE Technology



FORCE Technology is an

- Independent,
- Non-profit company



- Development budget > MDKK 200





Vision

Our vision is to be our customers' preferred partner in projects and concepts involving a high proportion of specialised knowledge.

Mission

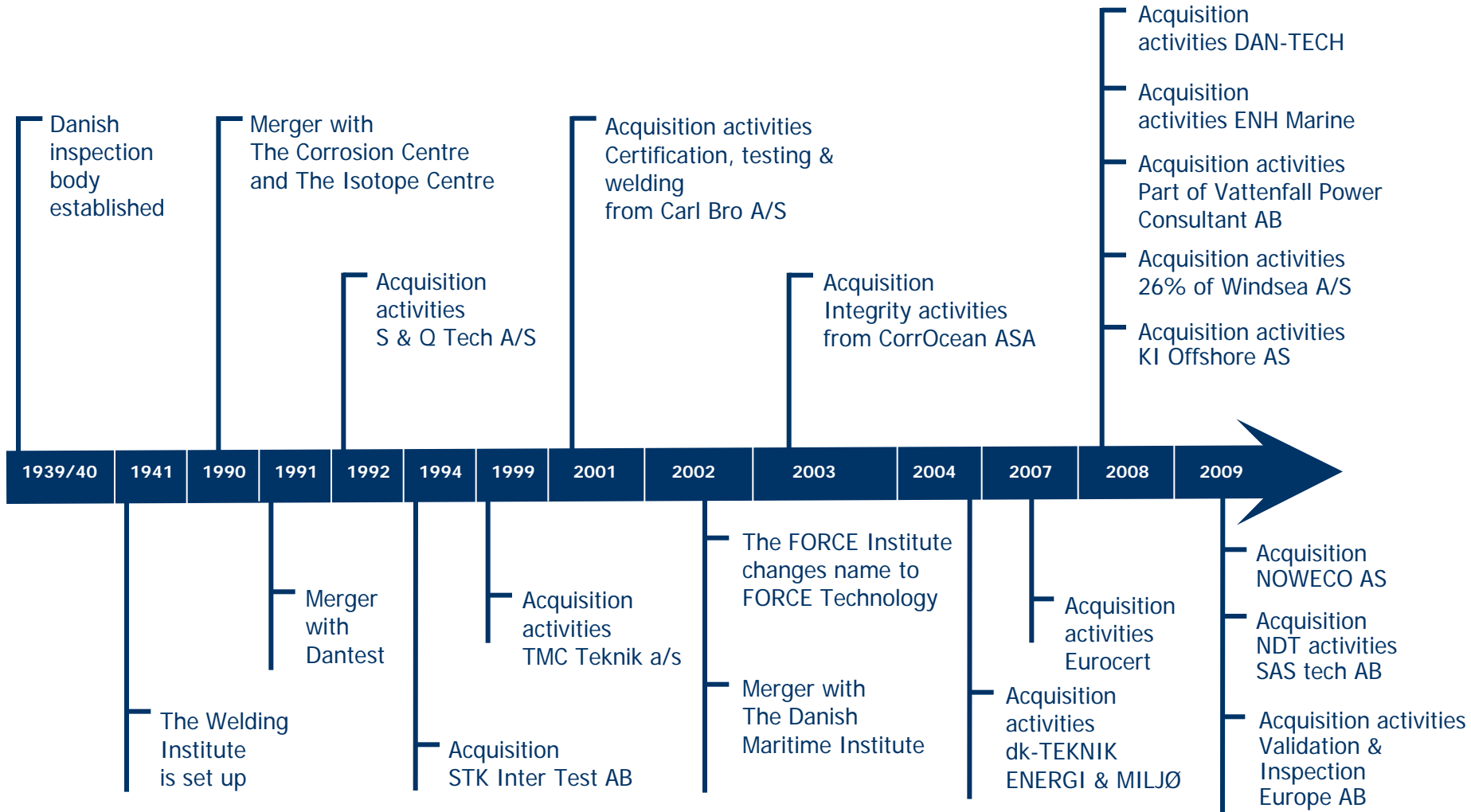
Our mission is to develop and market value-creating technologies, solutions and services to boost the competitiveness of our customers, thus assisting them to achieve their business goals and results.

Strategy

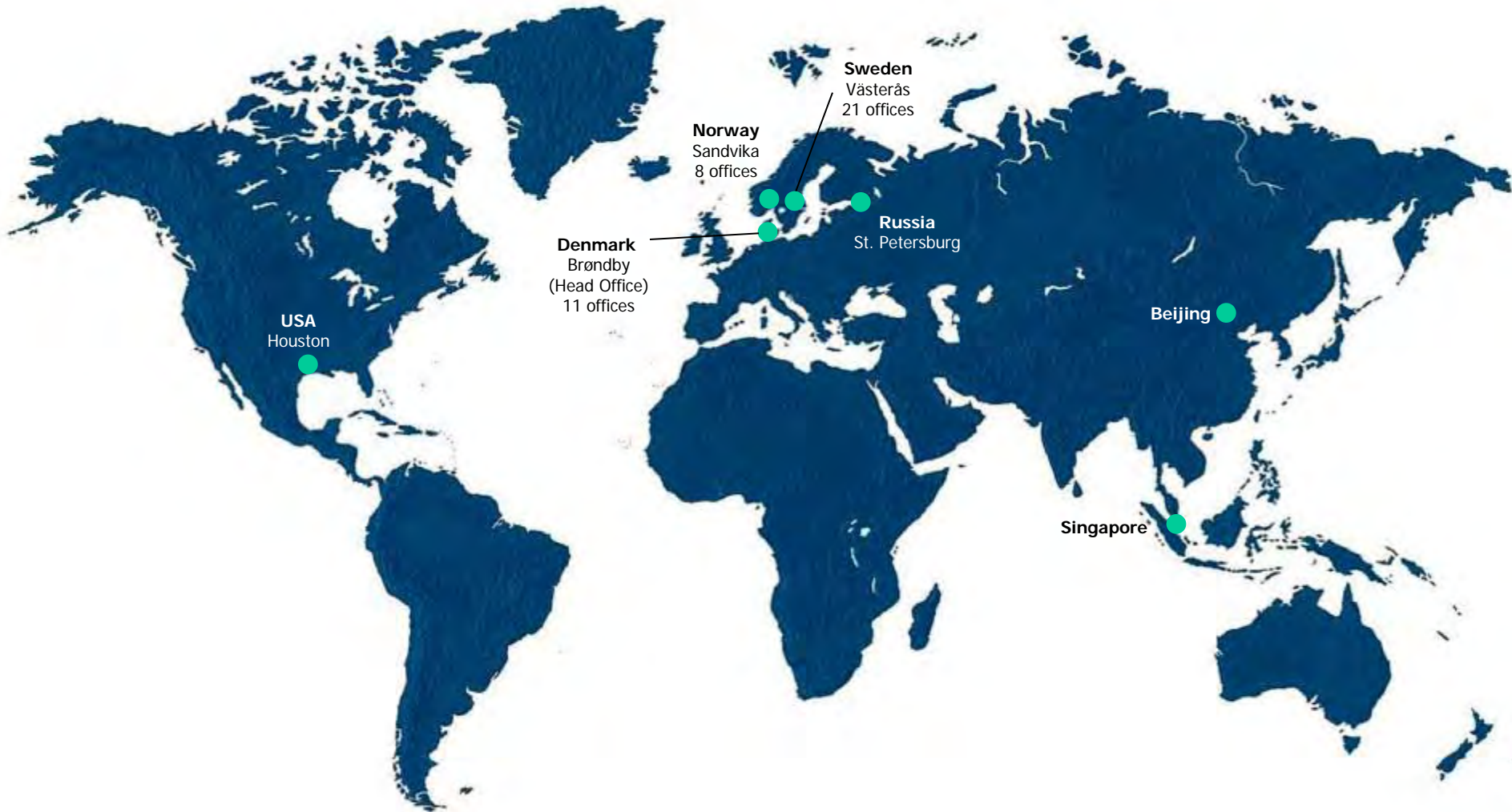
Our strategy is to promote the company through:

- New technologies
- Organic growth
- Growth through acquisition

History



An international company



Industry and society

System and management development
Integrity management and maintenance optimisation
Inspection, testing, verification and certification
Design, product, process and production optimisation
Training and mediation



Process and automation



Materials technology



Testing technology



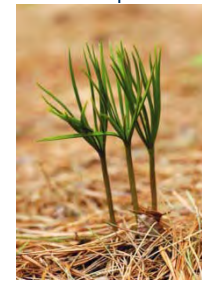
Sensors and metrology



Hydro- and aerodynamics



Simulation technology

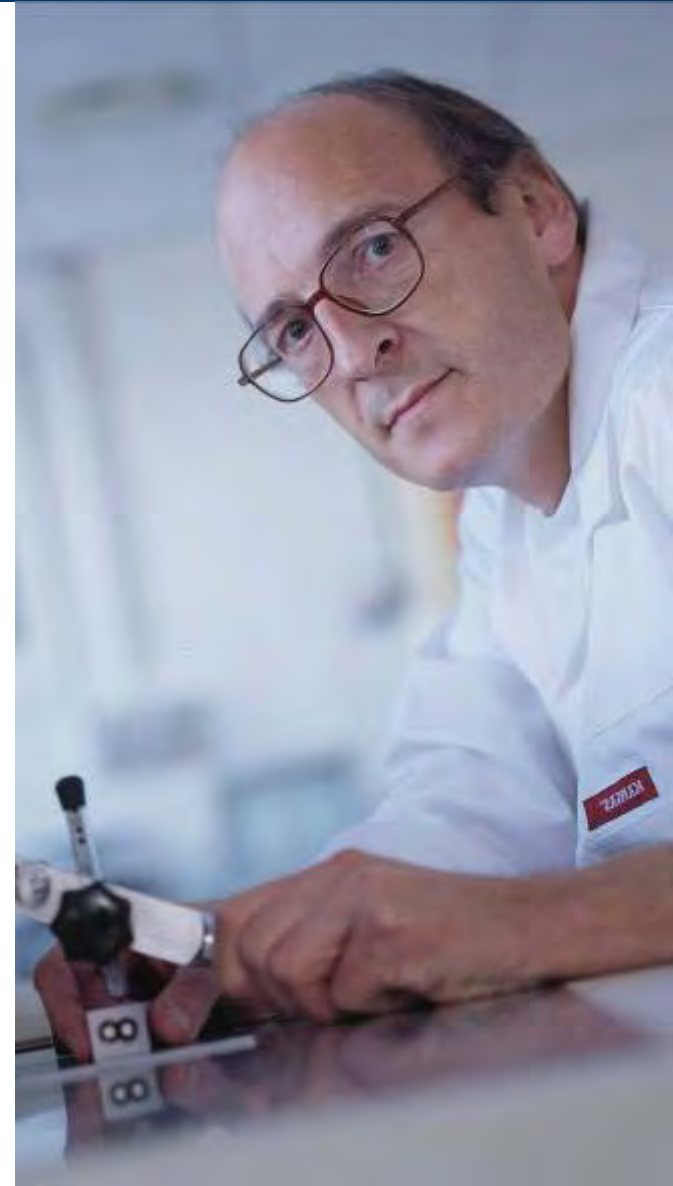
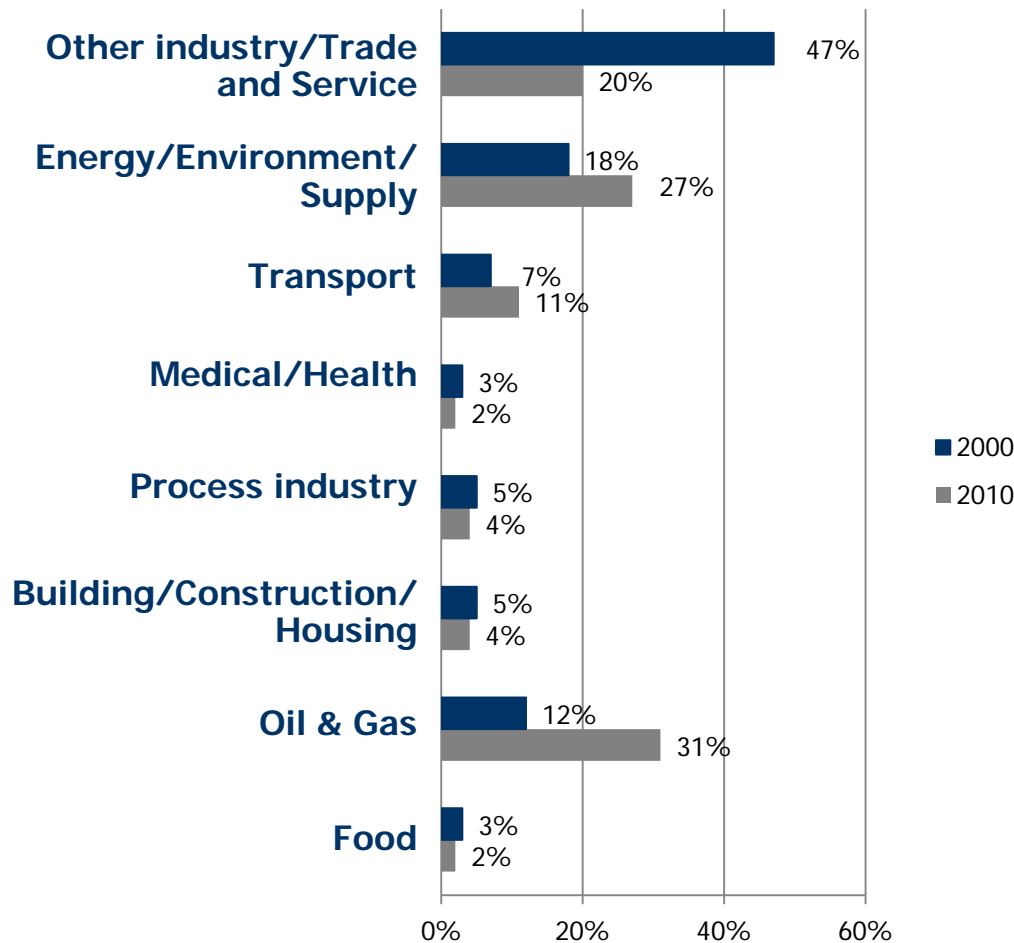


Energy and environment

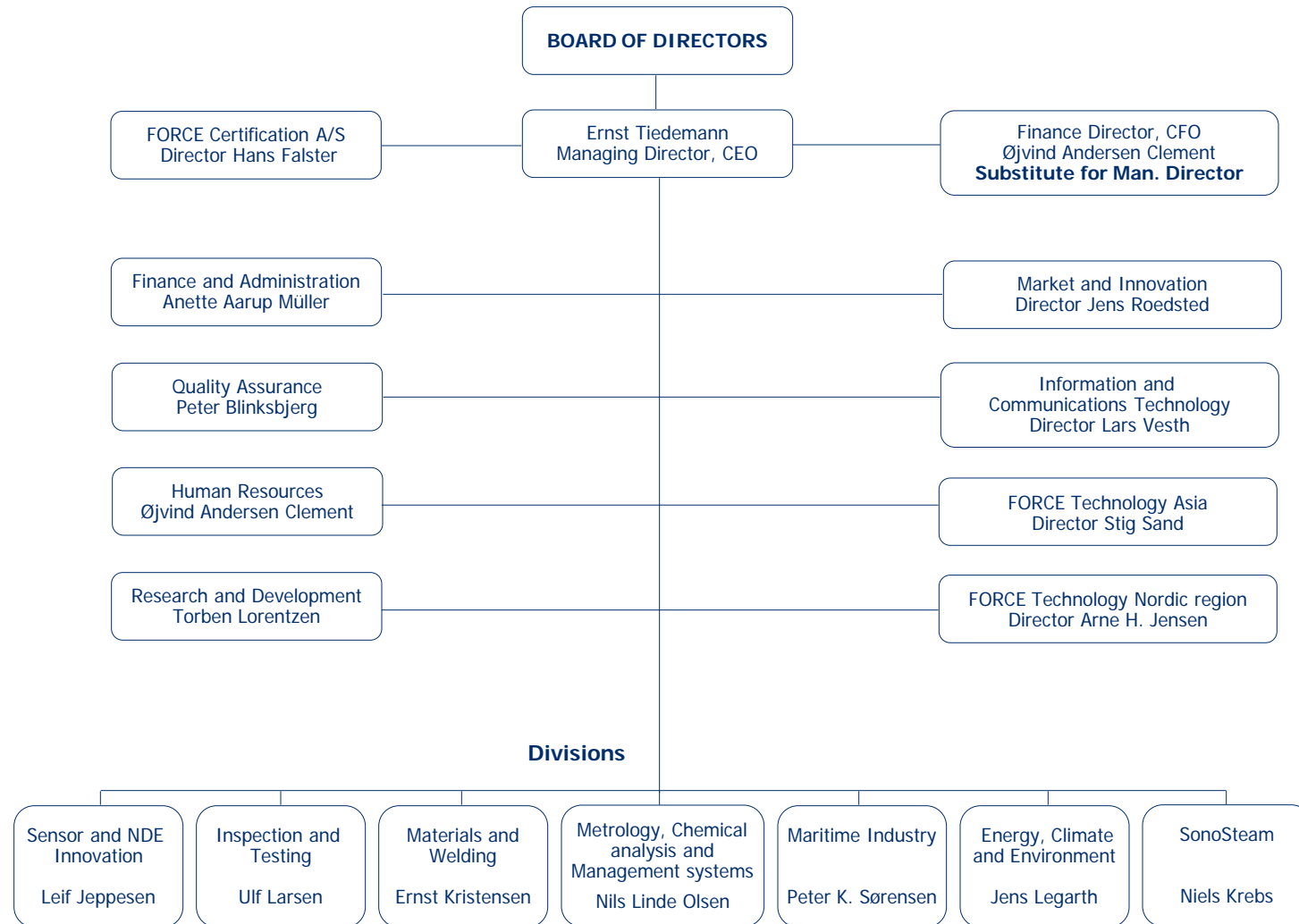


Structural integrity

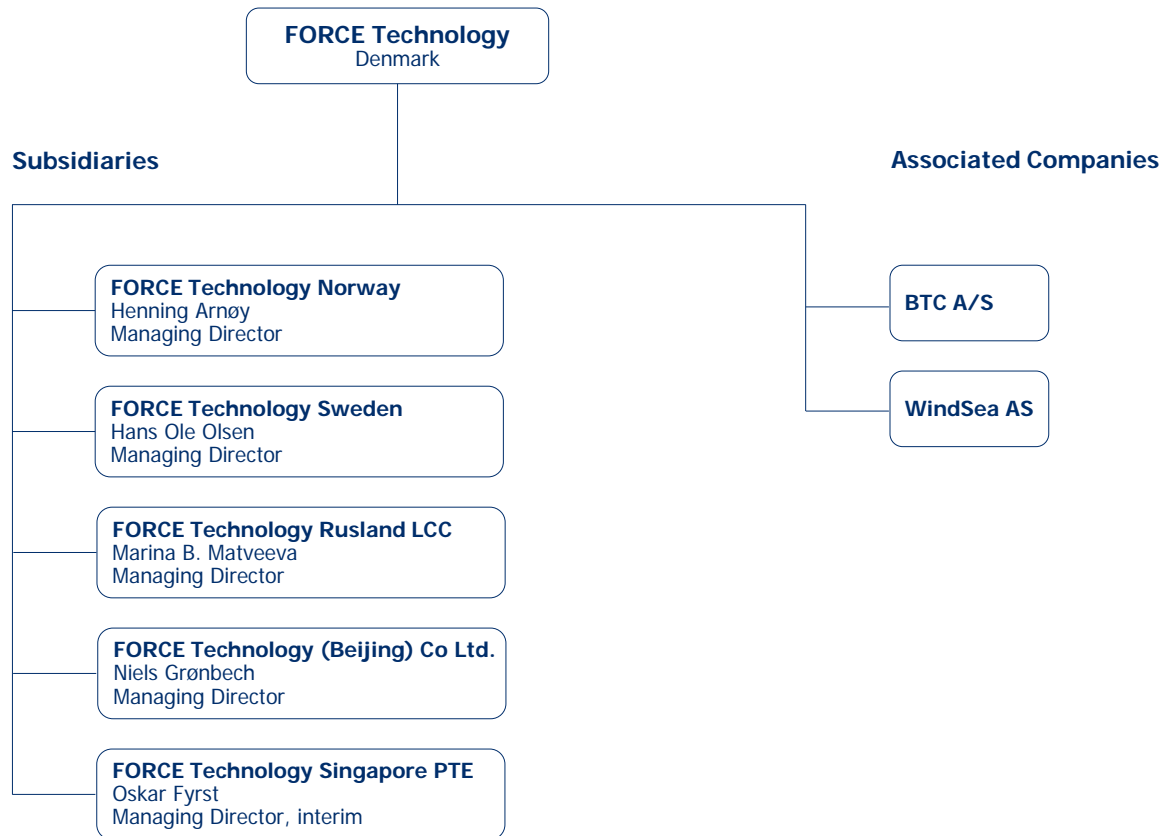
Customers – turnover industries



Organisation chart



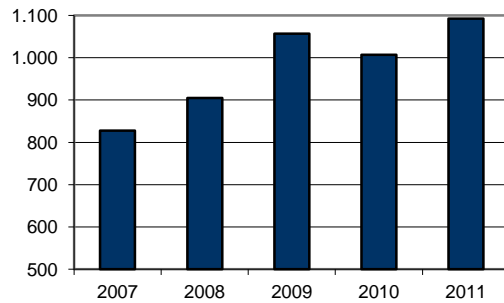
Operational Corporate Structure



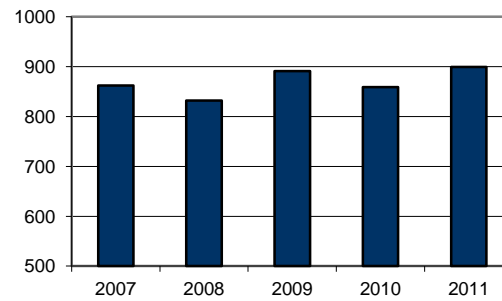
Key ratios



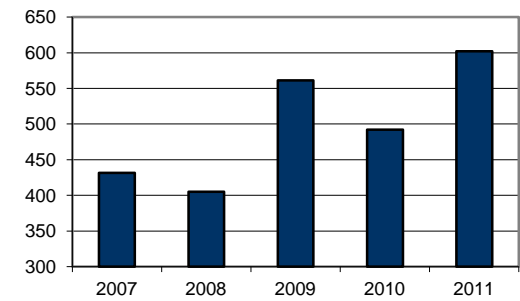
Turnover MDKK



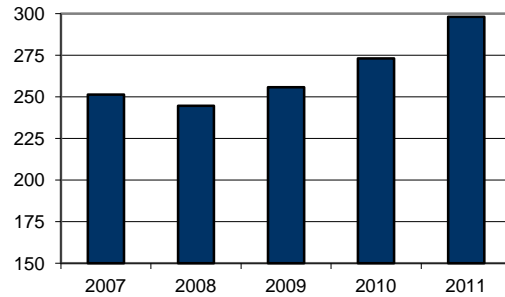
Turnover per employee TDKK



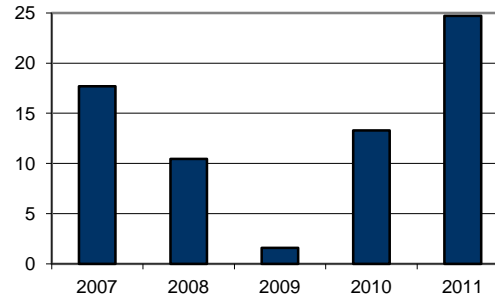
Turnover abroad MDKK



Capital and reserves MDKK



Profit MDKK



Development, consultancy and services

- Production and process technology
- Materials and analysis
- Inspection and testing
- Energy and environmental technology
- Integrity management
- Structural integrity services
- Sensors and measurement systems
- Metrology
- Hydrodynamics
- Aerodynamics and industrial processes
- Simulation technology
- Education and training
- System and management development
- Certification



Materials and welding

- Optimum utilisation of materials
- Damage and breakdown investigations
- Service life analyses
- Corrosion protection
- Process optimisation
- Weld technical consulting and inspection
- Surface treatment
- Automation and robotics
- QA/QC – document control





Inspection and testing

- Non-destructive testing
- Automated testing
- Subsea testing
- Materials and product testing
- Plastics and concrete testing
- Inspection of pressure bearing equipment and lifts

Integrity management

- Risk Based Inspection planning (RBI)
- Maintenance optimisation through RCM
- Corrosion management
- Corrosion protection
- Pipeline Integrity Management (PIM)



Structural integrity services

- Design and concept development
- Third part verification
- Reassessment/ modification
- Lifetime extension/ Risk Based Inspection planning (RBI)
- Structural Reanalysis Systems (SRS)
- Decommissioning
- Marine engineering
- Hazard engineering
- Advanced finite element analyses



Sensors and measurement systems

- Online measurement
 - Non-destructive testing
 - Hands-off measurement
 - Precision measurement
 - Customised measurements
- Inspection of sub-processes
 - Process management
 - Product sorting
 - Product documentation
 - Condition checks



SonoSteam

- Reduces bacteria, mould fungus and viruses from biological and non-biological surfaces through steam and ultrasound – no chemicals
- Fast and efficient
- Food and non-food



Metrology

- Calibration
- Verification and inspection
- E-labelling
- Type testing
- Servicing and repairs
- Construction of measurement systems
- Courses and consultancy services
- Chemical analysis and documentation





Hydrodynamics

- Model trials on ships and offshore structures
- Numerical calculations of the movement of ships and offshore structures
- Optimisation of ship propulsion
- Calculation of ship stability
- Trial runs with new structures

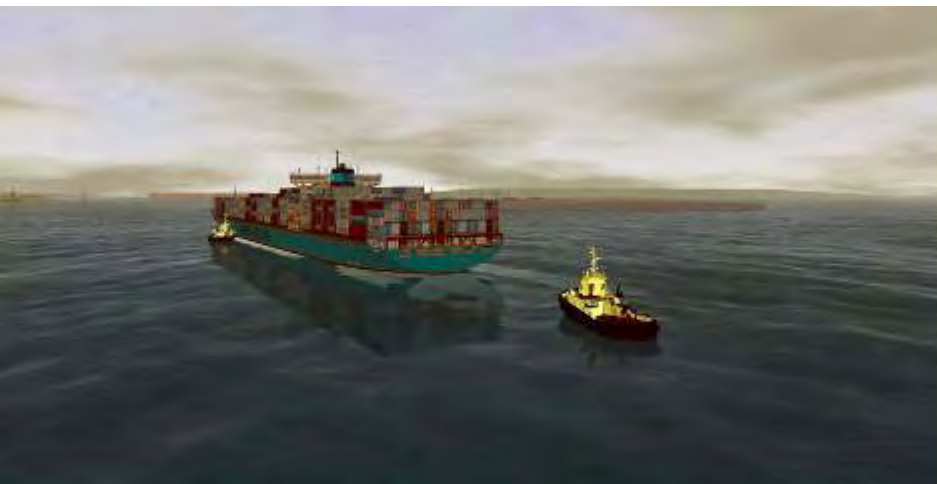


Aerodynamics and industrial processes

- Design optimisation of wind-exposed structures, such as bridges and buildings
- Optimisation of flow bearing equipment and processes, such as pumps and compressors
- Model trials and calculation (CWE)
- Computational Fluid Dynamics (CFD)
- Aerodynamic field measurements

Simulation technology

- SimFlex Navigator ship simulator, from PC to full mission
- Sailing conditions and the layout of harbours, canals and other seaways



Onboard systems for ships

- SimFlex Stability for stability and leak stability
- SeaSense for decision support in heavy weather navigation
- SeaPlanner for route guidance



Education and training

- Quality and audit
- Welding
- NDT
- Materials & corrosion
- Maritime industry
- Energy and fuels
- Environment and working environment
- LEAN
- Food safety



System and management development

- Quality management
- Environmental Management
- Work environment management
- Statistical methods
- Enhancement tools (LEAN etc.)
- Food safety



Energy, Climate and Environment

- Environmental assessment and CSR
- Energy labelling
- Projecting of energy and environmental plants
- Energy and process optimisation
- Fluid Dynamics; consulting and calculations
- Combustion and gasification of biomass and waste
- Emission and immission measurements
- Air pollution
- Odour emissions



FORCE Technologys subsidiary FORCE Certification A/S performs

- Certification of management systems – i.a.:
 - ISO 9001, EN 14001, OHSAS 18001/AT EO 923/01
 - Quality Act 506/06 and MM EO 661/06
 - DS/EN ISO 3834-2, -3, -4,
 - QA to self-regulation of pressure bearing equipment (AT EO 100/07), refrigeration equipment and lifts
- Certification of welders and NDT operators
- Certification of products (Notified Body No. 0200)
 - PED/SPVD/TPED, LD, MID, PPE, CPD, Toys, MarED
- Inspection (3. party) of products/plants according to
 - Pressure: AT EO 99/07 and 100/07
 - Lifts: AT EO 629/08, 677/08 and 678/08
- Verification of CO₂
- Examination according to the EWF and IIW training programmes



The key to our collaboration

- Partnership and value creation
- Technology and innovation
- Knowledge sharing and network