



CONFERINȚA NAȚIONALĂ A A.R.T.S.
ediția a IV-a
**"PIAȚA EUROPEANĂ DE TEHNICĂ DE SECURITATE -
AMENINȚARE SAU OPORTUNITATE?"**

București, 6 iunie 2012
Hotel Athenée Palace Hilton





Sustainable conformity assessment for Fire & Security products/services

Why Sustainability ?

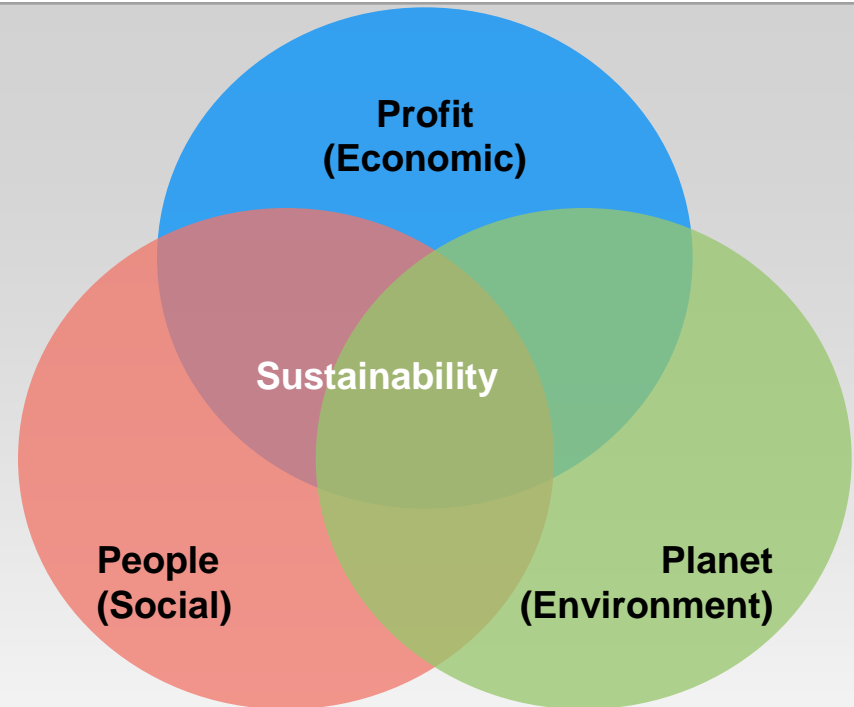
A development, that
"meets the needs of the *present*
without compromising
the ability of *future generations*
to *meet their own needs*."

(Brundtland Commission 1987)

The „Triple Bottom Line“ of Sustainability :

- **Economic prosperity**
- **Environmental quality**
- **Social Equity**

(Earth Summit, Rio 1992)



Product/Service Sustainability

Planet (Environment)

Preventive Environmental Approach

- higher responsibility for the environment
- environmental friendly technologies, e.g. low consumption of energy

Measurement and Reduction of Natural Resources

- Emissions (GHG, waste)
- Consumption of resources (energy, water, land)

People (Social, Ethics & Fairness)

Human Rights

- Respect & support of international human rights
- Ensure the company is not complicit in human rights abuses

Work / Labour Norms

- Elimination of forced and compulsory labour
- Abolition of child labour
- Elimination of discrimination

Maintenance of Employability

Stakeholder Engagement / Dialogue

Profit (Economic)

Anti Corruption

- Measures against all kind of corruption including blackmail and bribery

Corporate Governance

(e.g. DCGK – Regelwerk Deutscher Corporate Governance Kodex)

Sustainable Economics

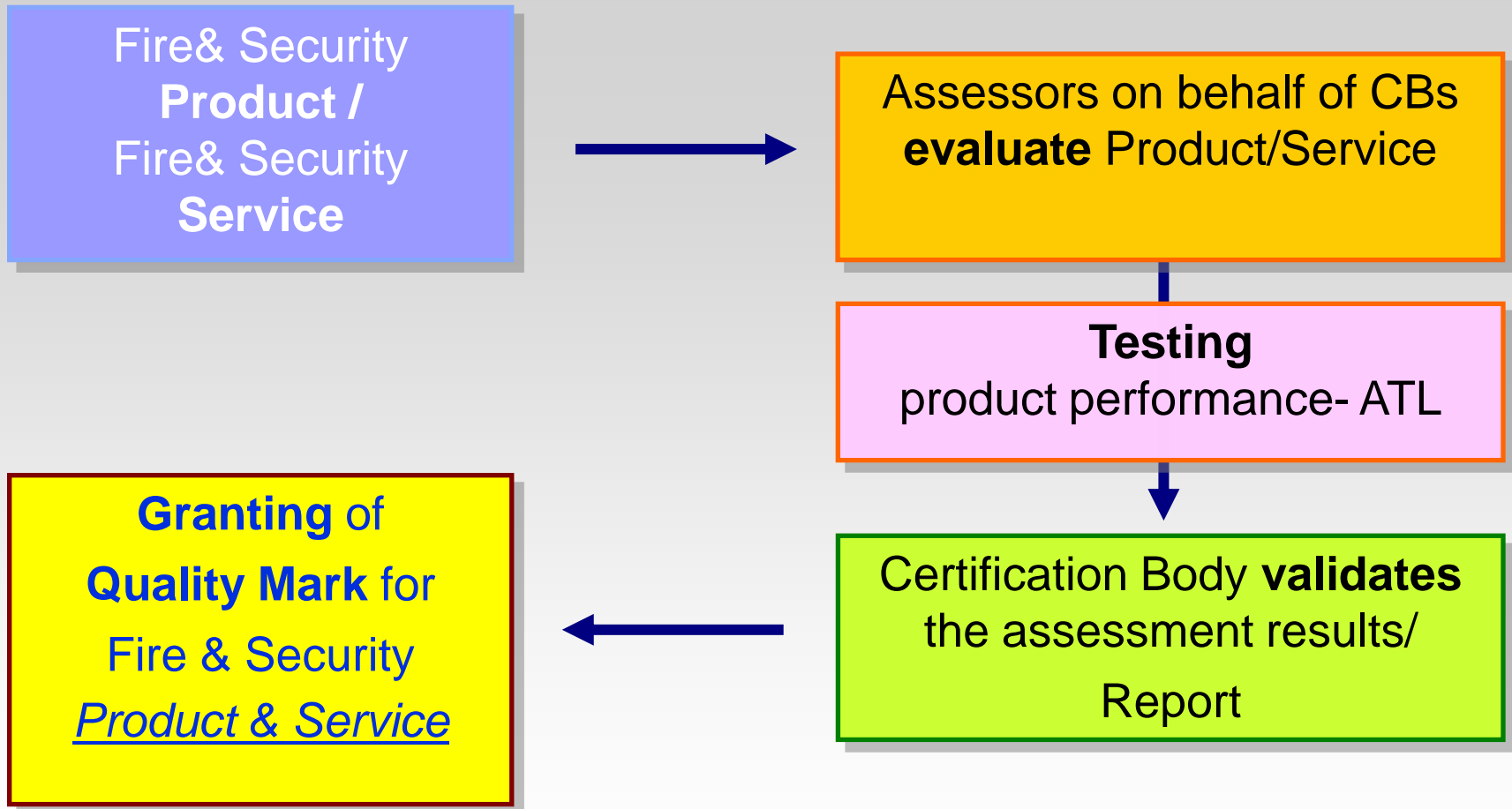
- Reasonable revenues

Risk Management

Code of Conduct, Management Systems, SPECIFIC BUSINESS AREAS' STANDARDS

* based on Global Compact, ISO 26000, Deutscher Nachhaltigkeitskodex (DNK Draft) and own definitions

Certification procedure



Assessment Criteria

Technical assessment:

- Specific business sector standards, e.g. Fire&Safety standards
- EU Regulations , and standards
- National specific regulations and legislation

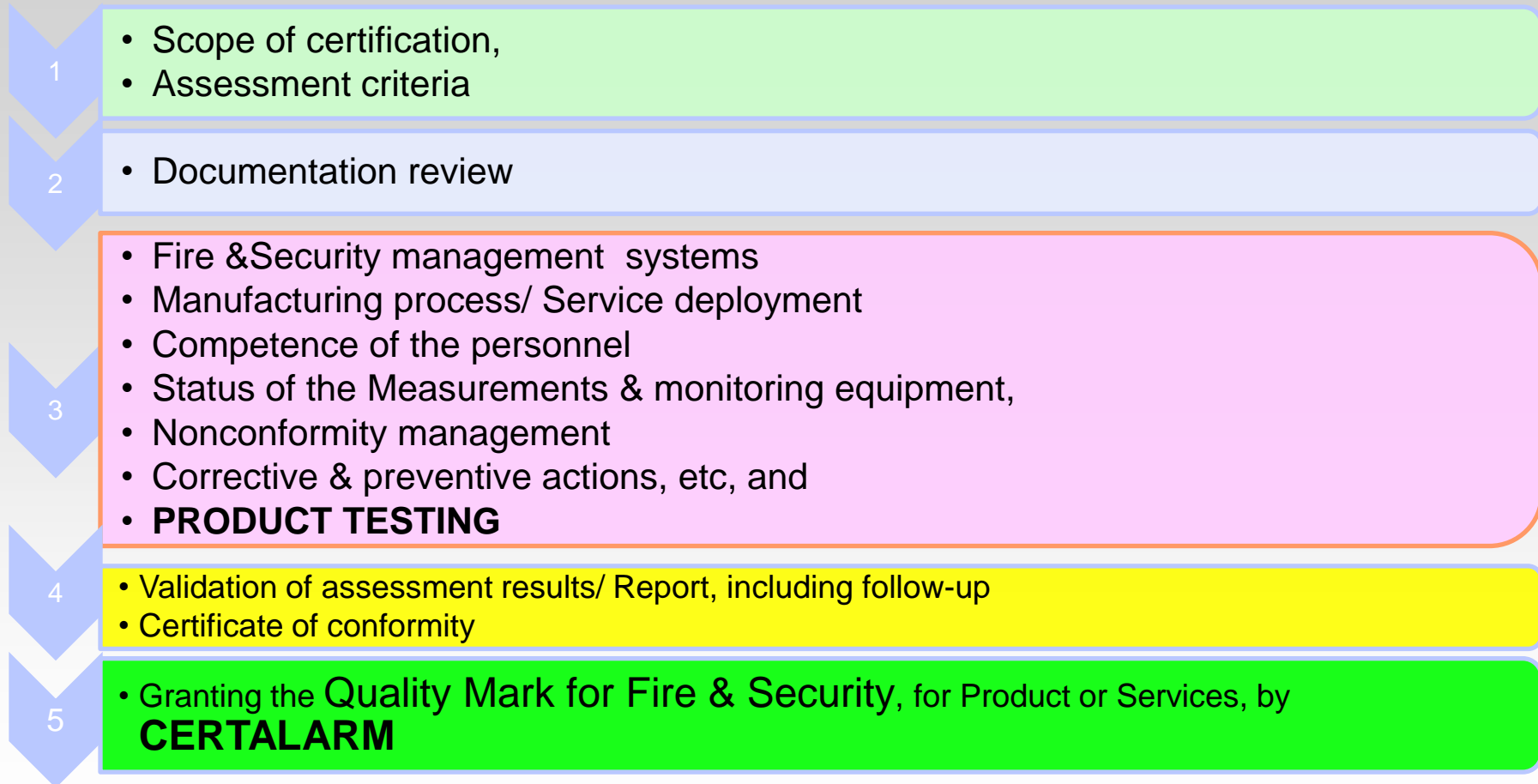
Environmental criteria:

- environmental friendly technologies,
- Waste management
- Product disposal
- Reduction of natural resources consumption , e.g. Energy,etc

Social accountability

- Stakeholders commitments for human rights , e.g. ILO Conventions
- OH&S policy and implementation,
- Ethical behaviour
- Ensure the safety use for people and environment, etc

Certification scheme



Certificate issuance and validity

Certificate for Fire& Security services:

- valid for 3 years
- Annual reconfirmation
- Recertification every 3 years
- Upgrade possible

Certificate for products :

- Valid as long no changes :
 - Design,
 - Manufacturing processes , control sand validation
 - Materials
- Any changes shall be reconfirmed

The certification body of TÜV Informationstechnik GmbH hereby awards this certificate to the company

<Company>
<Street>
<Place>

for the

<Data Processing>

fulfils all requirements defined in the technical specification


Trusted Site Privacy, Version 2.0

The requirements are summarized in the appendix to the certificate.

The appendix is part of the certificate and consists of <X> page(s).

The certificate is valid only in conjunction with the evaluation report Version <0.0> as of <Date>.

The certificate is valid until <Date>.



2010 Trusted Site
Voluntary Validation
© 2010 TÜVIT GmbH - Member of TÜV NORD Group

Essen, <Date>

Certification Body

TÜV Informationstechnik GmbH
Member of TÜV NORD Group
Langemarkstr. 20
45141 Essen, Germany
www.certtuvit.de

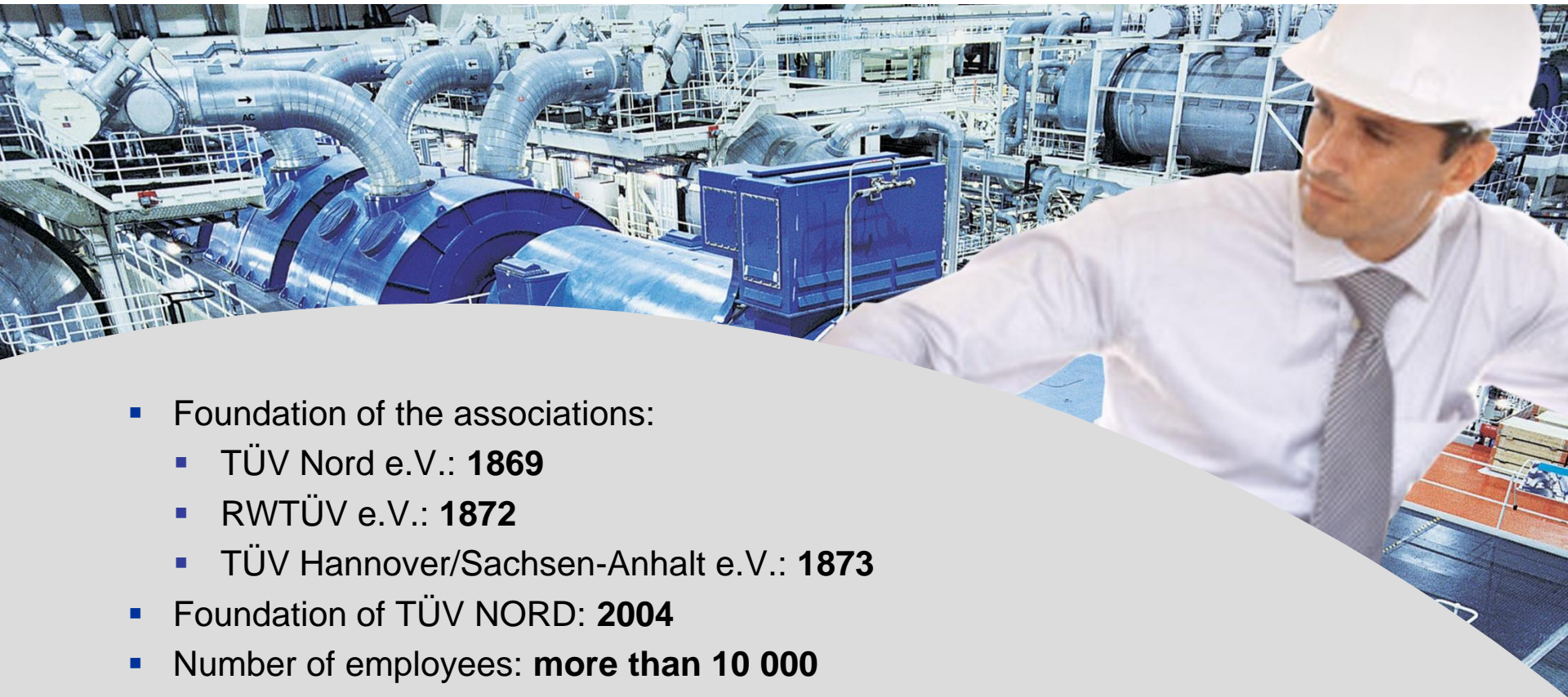
Certificate



TÜV NORD

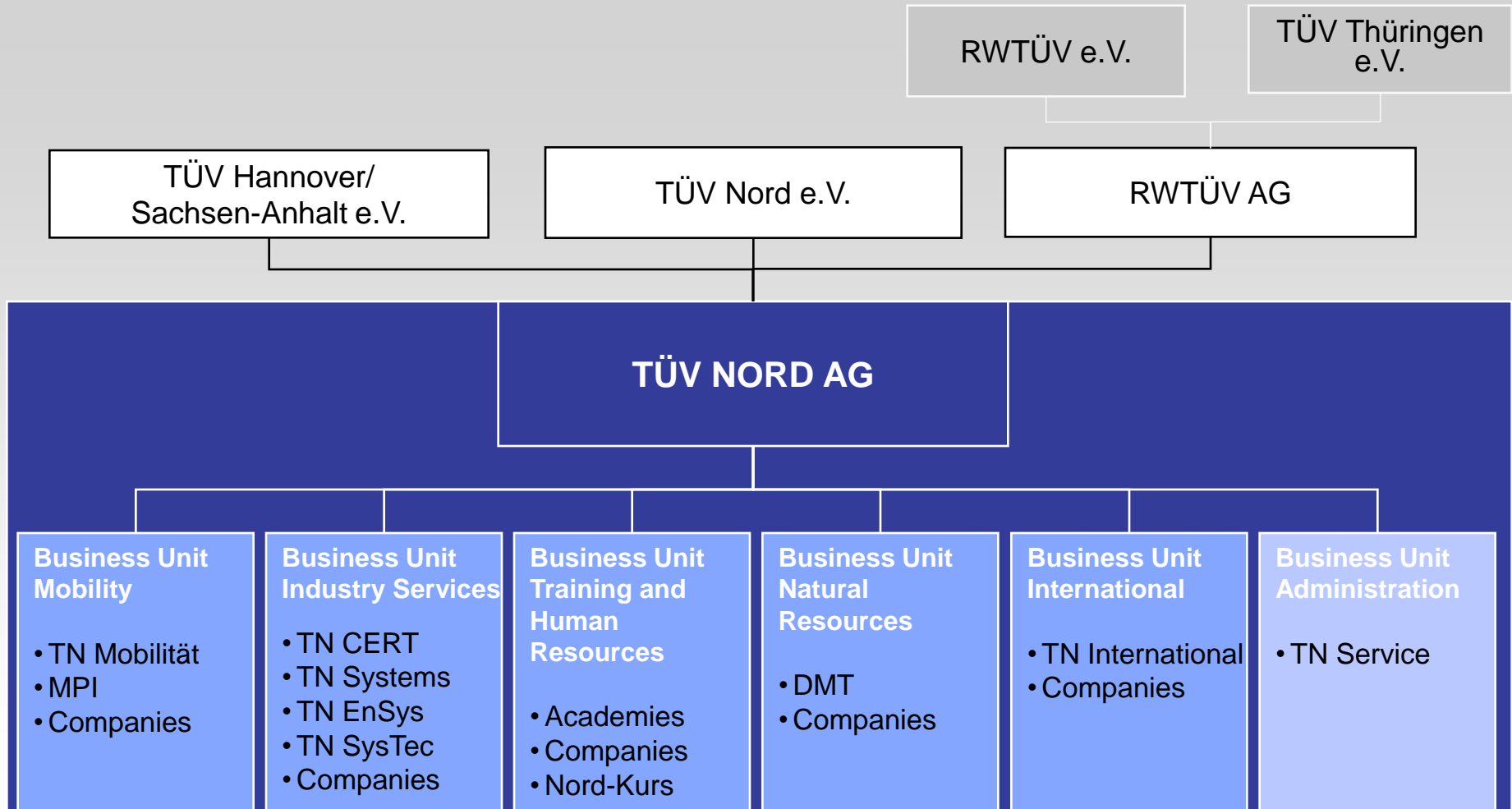
We make our world safer!

Our key data



- Foundation of the associations:
 - TÜV Nord e.V.: **1869**
 - RWTÜV e.V.: **1872**
 - TÜV Hannover/Sachsen-Anhalt e.V.: **1873**
- Foundation of TÜV NORD: **2004**
- Number of employees: **more than 10 000**
- Turnover in 2011: **€ 1,1 Bilion**

The structure of TÜV NORD



International activities of TÜV NORD



Our entire portfolio is available to you all over the world

- EU-Europe: Belgium, Bulgaria, Denmark, Estonia, Finland, France, Greece, Great Britain, Italy, Latvia, Netherlands, Poland, Rumania, Sweden, Slovakia, Spain, Czech Republic, Hungary, Cyprus
- Wider Europe: Croatia, Turkey, Ukraine
- Africa: South Africa
- America: Brazil, USA
- Asia-Pacific: China, Hong Kong, India, Indonesia, Korea, Malaysia, Philippines, Taiwan, Thailand, Vietnam
- Middle East: Bahrain, Iran, Oman, Saudi-Arabia,
- United Arab Emirates

Further expansion abroad is planned.

TÜV NORD works in more than 70 countries.

New areas of work year after year

- Steam boilers
- Mining
- Conveyor systems
- Electrical systems
- Pressure vessels
- Materials
- Motor vehicles
- Welding
- Driving licence examinations
- Piping
- Tank farms & storage tanks
- On-site supervision
- Noise control
- Conventional power generation
- Nuclear energy
- Education
- Occupational safety
- Occupational medicine
- Radiation protection
- Microelectronics
- Water protection
- Medical devices
- Biotechnology
- Quality assurance
- Information technology
- Telecommunications
- Certification
- Environmental impact assessment
- Renewable energies
- IT security
- Railway technology
- Data protection
- Health
- Aviation
- Natural resources

The TÜV NORD Group accompanies planners, constructors, manufacturers and operating companies through the entire life cycle of equipment and plant aiming for optimum economic efficiency.

**TÜV NORD Group
Added Value Services
in the Industrial Sector**

Based on our outstanding experiences and know-how we contribute to the success of the industries by means of:

- Testing
- Inspection
- Certification to achieve and maintain high quality standards
- Conformity Assessment
- Training of personnel and organizations

Around 8.000 skilled employees in more than 70 countries make TÜV NORD Group one of the leading technical service providers in the world.



Industrial Inspection competences

Expertise for entire product/equipment life cycle

NoBo



Supervisions and inspections



Engineering and consultancy



Design &
planning

Manufacturing
&
Construction

Commissioning
&
tests

Operation &
Maintenance

Optimization
&
Improvement

Operation and Maintenance

- Periodic inspection
- Inspection and Testing Plan
- Risk Based Inspection - condition monitoring
- Reliability Centered Maintenance
- Materials and welding technology - NDT
- Environmental measurements & verifications
- Provision of experts – Shut-down services

RISK CATEGORIES		CONSEQUENCE CATEGORY			
Hi-Cat. 1, 2 and 3		None	Lo	Med	Hi
Med-Cat. 4 and 5					
Lo-Cat. 6 and 7					
DEGRADATION MECHANISM CATEGORY	Large	Cat. 7	Cat. 5	Cat. 3	Cat. 1
	Small	Cat. 7	Cat. 6	Cat. 5	Cat. 2
	None	Cat. 7	Cat. 7	Cat. 6	Cat. 4

Renewable energy

Wind farm assessment:

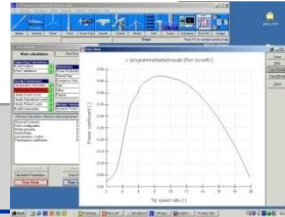
- Geotechnical study and soil investigation
- Foundation design
- Construction supervision
- Pre commissioning turbine inspections
- Periodical operating inspection



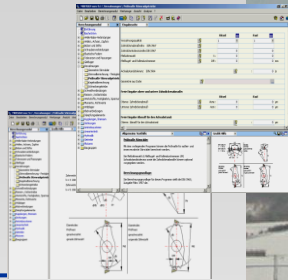
WIND turbine



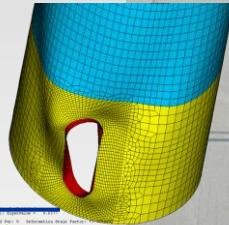
Loads



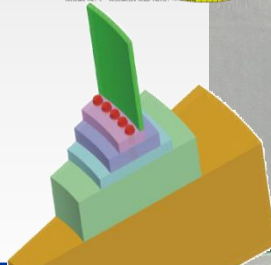
Mechanical components



Tower



Foundation



Safety System

Rotor blades

Electrical Components

Personnel Safety

Nacelle /Spinner

Manuals (maintenance,
manufacturing, commissioning)

Risks assessment over the life time

- Incorrect assumptions and faulty or complete data and information during the search for a site and plant design
- Limiting site conditions , e.g.
 - Substrate supply
 - Site access
 - Electricity / Gas supply
- Nuisance / Negative influence on neighbourhood (noise, odours)
- Errors in the planning and approval process
- Conformity, Payment capability?

-Start of erection

- Inadequate quality or quality assurance:
 - Development (Standards)
 - Manufacture
 - Transport
 - Storage
 - Erection
- Incompatibility within the system; Interface problems
- Insufficient communication on site, lack of understanding, documents missing, incomplete or incorrect
- Obstacles and delays
- Time pressure, Number of errors, Risks of accident

Before commissioning

- (Hidden/latent) defects in components and assemblies; "teething troubles"
- Dependency on suppliers
- Competence and experience deficits
- Inadequate:
 - quality assurance
 - documentation
 - measurements and
 - acceptance testing / final inspection (conformity)
- ...

Takeover / Transfer

- (Hidden/latent) defects, leakage, losses; incomplete documentation
- Plant reliability; Availability of substrate, replacement parts and personnel
- Insufficient operating experience; dependence on suppliers, providers, or service providers
- Failure of (safety-relevant) components
- End of warranty period
- Responsibility of operator, legal compliance?
- Negative influence on neighbourhood (noise, odours)

Planning

Development

Erection and construction

before Commissioning during

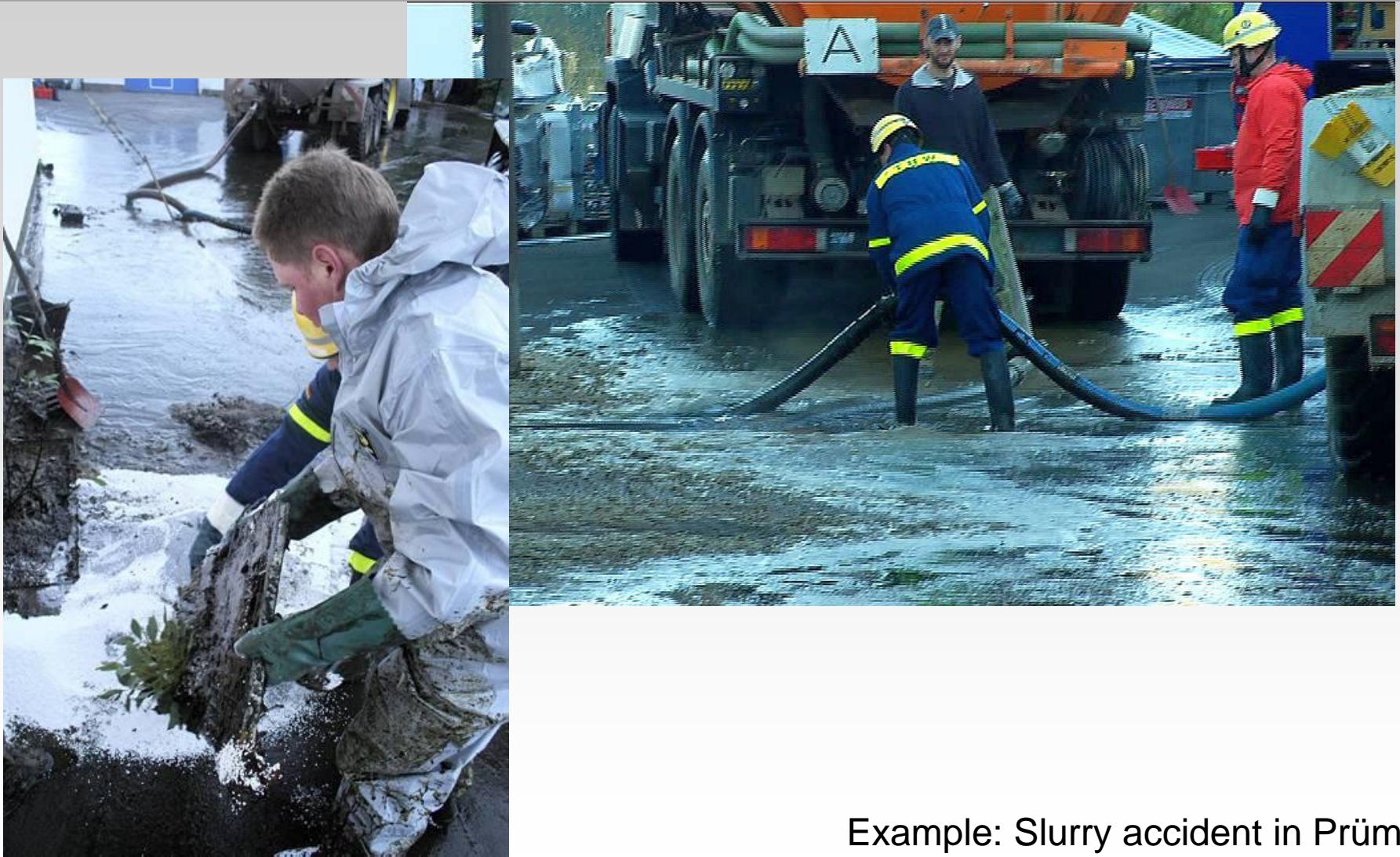
During operation

Risks to plant and machinery and investment assets



Example: Fire

... Risks to the environment



Example: Slurry accident in Prüm

... and also real risks to people



Example: H_2S accident

Your contact



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www.tuev-nord-cert.com

www.tuv-nord.ro

A stylized background illustration featuring a light green background with a row of white human figures holding hands. In the foreground, there are three large, light blue, stylized human figures with their arms raised, set against a light grey curved shape that resembles a hill or a large object.

Thanks for your attention!