



Add value.  
Inspire trust.

Inspiring trust in the  
physical and digital  
world

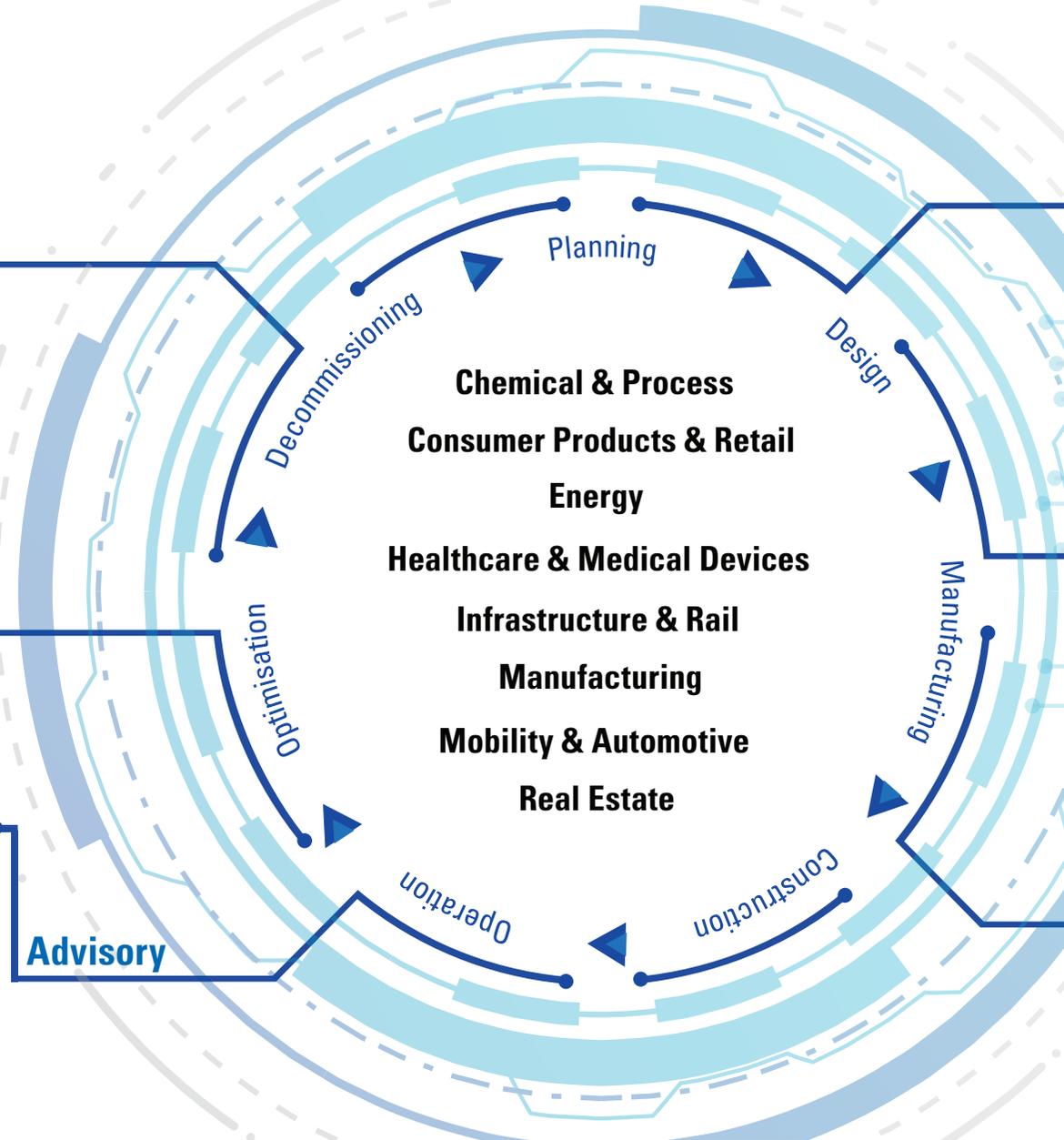
# Adding value across the business lifecycle

TÜV SÜD has a proven track record of partnering with businesses and inspiring people to trust and embrace new technologies and innovations. Our comprehensive suite of end-to-end solution servicing the eight key customer segments enables us to view our customers' operation in its entirety and deliver value across the entire business lifecycle.

We support people and organisations to enhance performance through a wide range of work safety, technical, management systems, executive training programmes and certified qualifications.



We provide advisory on diverse topics ranging from quality, safety and risk to environmental protection, regulatory requirements and process optimisation.



## Auditing and system certification



We audit and certify management systems for virtually all industries, ensuring your value chain complies with requirements for quality, performance and IT security according to international, national and other relevant standards.

## Inspection



We independently verify that, at every stage, your systems, processes and procedures comply with the relevant codes, requirements, regulations and standards.

## Testing and product certification



Beyond testing for compliance with directives, we issue TÜV SÜD certifications based on standards set according to internationally recognised benchmarks.

# TÜV SÜD at a glance



**150+**  
YEARS OF  
SAFETY, SECURITY  
& SUSTAINABILITY



**1,000+**  
LOCATIONS  
WORLDWIDE



**25,000+**  
EMPLOYEES



**574,000**  
CERTIFICATES



**1**-STOP  
SOLUTIONS  
PROVIDER



**€2.6**  
BILLION IN  
ANNUAL  
REVENUE



**41%**  
OF REVENUE  
OUTSIDE  
GERMANY



**100%**  
INDEPENDENT  
&  
IMPARTIAL



## 1964

Expansion beyond Europe began with a cable car accident investigation in Cape Town, South Africa.



## 1989

TÜV Product Service GmbH was launched, pioneering the concept of worldwide approvals.

## 1991

Asian subsidiaries launched in Hong Kong, Japan, Taiwan, China, and subsequently in Korea during 1994, with North American subsidiaries set up around the same time.



## 1996

The TÜVs from Germany's southern states united to form TÜV SÜD.

## 2006

Singapore's PSB Group was acquired, with TÜVTÜRK launched the following year.



## Today

TÜV SÜD actively pursues a strategy of digitalisation, spearheading pilot initiatives through two Digital Service Centres of Excellence in Germany and Singapore.



## Consumer Products & Retail

With a holistic approach to product safety and quality from design to delivery, TÜV SÜD reduces time to market and enables global market access for businesses; enabling them to meet consumer demand for smart and sustainable products.



## Healthcare & Medical Devices

As the global leader in medical device certification, TÜV SÜD is shaping the future of healthcare by enabling organisations to manage new dimensions of risks that come with a connected healthcare system.

# Add value. Inspire trust.

Digital transformation is already revolutionising every aspect of our lives, changing the way we live, work and play. Throughout this period of uncertainty, TÜV SÜD is striving to add value to governments, businesses and consumers worldwide. Our aim is to inspire trust in technology, enabling progress by managing technology-related risks and facilitating change. This commitment is embodied in the new claim: Add value. Inspire trust.



## Energy

With a comprehensive service portfolio for all types of energy, storage and grids, TÜV SÜD is partnering the energy transition by optimising operational efficiency and availability.



## Infrastructure & Rail

With experience in planning, building as well as operating infrastructure and rail projects globally, TÜV SÜD is adept to partner customers to deliver on complex projects such as high speed rail to meet the rising demand of urbanisation.



## Chemical & Process

By maximising operational efficiency while minimising risks, TÜV SÜD partners global businesses beyond compliance, digitalising industrial processes through the integration of smart technologies.



## Mobility & Automotive

Leveraging on a century of experience in automotive safety and performance, TÜV SÜD is partnering the industry to realise the future of mobility through innovations such as autonomous driving, electrification and shared mobility.



## Manufacturing

With an integrated approach to industrial safety and security, TÜV SÜD is partnering customers to harness the potential of Industry 4.0, achieving higher levels of productivity through the integration of technologies such as additive manufacturing and robotics.



## Real Estate

Through an interdisciplinary approach and in-depth knowledge, TÜV SÜD partners customers by leveraging digital twin technologies to offer a comprehensive construction management portfolio for the entire asset lifecycle.

# Inspiring trust yesterday, today and tomorrow

TÜV SÜD was founded to enable progress by protecting people, the environment and assets from technology-related risks. Today, this purpose remains valid and embedded in our mission. As we look to tomorrow, we have identified four megatrends that we believe will shape the narrative of commerce and society in the decades to come: Digital Transformation, Glocalisation, New Mobility, and Sustainability. The following pages outline the work that we are doing around the world to drive the development of these trends.



SCAN TO FIND  
OUT MORE

# Digital Transformation

Ushering in the fourth technological revolution

Homes, phones, factories, energy grids – it seems everything has the potential to be ‘smart’. Industry 4.0 is creating intelligent networks by enabling interconnected components, machines and systems to communicate autonomously. For the experts at TÜV SÜD, the future is already here. We are giving people the confidence to trust in these new technologies.

## Committing to cyber security via the Charter of Trust

We have signed the Charter of Trust – a global cyber security alliance initiated by Siemens and other leading organisations. Its 17 members aim to build trust in digital technologies. We contribute by protecting critical systems and sensitive data, helping our customers ensure their business continuity.



## Establishing safety of AI-based systems

Working with the German Research Centre for AI (DFKI), we are developing an open platform ‘openGenesis’ to certify AI-based systems used in autonomous driving. A ‘roadworthiness test’ will be developed to validate safety of the underlying algorithms.

## Developing standards for BIM

We are helping to develop a public German Building Information Modelling (BIM) Standard for high-rise to empower design, construction and operation of more than 31,000 assets. Contributing through BIM advisory, we are developing use cases, best practices for processes and templates.



## Realising Industrie 4.0 transformation

To drive industry-wide transformation, we developed the Smart Industry Readiness Index with the Singapore Economic Development Board which was rolled out in countries in Asia, Europe and US. Together with the partners, we have launched a ‘Prioritisation Matrix’, a computational tool for identifying priority digital initiatives.

# Glocalisation

Instilling confidence across global supply chains

In our increasingly commoditised and connected world, consumers are choosing to trust brands which fulfil global quality and safety standards while meeting individualised demands. Achieving glocalisation, striking a balance between “Globalisation” and “Localisation”, is the challenge for businesses today. TÜV SÜD partners businesses to maximise their market potential with local relevance and global scale wherever their ambitions take them.

## Achieving safety beyond compliance

We tested and certified Huawei’s smartwatches according to TÜV SÜD Wearables certification, going beyond current compliance requirements to ensure that the products maintained high standards of safety while meeting consumers’ expectations of performance and marketability.



## Implementing nationwide periodical vehicle inspections

With our German expertise, we are the only company in Turkey to have successfully implemented a modern system for vehicle inspection nationwide. We created a network of 189 test centres and 81 mobile test stations in just 18 months. Through this, congestion and air pollution were reduced while road safety was improved through significant reduction of traffic accidents.

## Globalising quality management approach

We provided integrated auditing and certification of management systems to about 400 companies within Würth Group across 80 countries, with the aim to improve their management systems and quality, and strengthen their company brand identity while increasing economic efficiencies.



## Navigating EU approvals for high tech products

We partnered with Kawasaki Heavy Industries in its efforts to achieve compliance with European Union regulations related to components used in hydrogen-powered motor vehicles. Since 2014, this partnership has enabled Kawasaki to successfully certify its components and positioned the company to gain critical market share with major OEMs in the automotive industry.

# New Mobility

Solving complex challenges for growing cities

The world's urban population is on the rise. For the first time in history, more of us live in cities than rural areas. The need to develop an efficient transportation network to support urbanisation has become more critical than ever. With decades of experience in automotive, rail, safety and security solutions, we are uniquely placed to help solve the challenges of our urban future and create a desirable quality of life for us all.

## Digitalising homologation through simulations

In a partnership with NVIDIA Corporation and AVL GmbH, we are defining parameters such as safety requirements, potential critical driving scenarios, and evaluation criteria necessary to establish simulation as a test method in vehicle approval.



## Establishing product quality of AM components

With Deutsche Bahn, we developed the "Additive Manufacturer Certification Scheme" for Additive Manufacturing (AM) suppliers of spare parts and finished components. The scheme ensures a high-end manufacturing readiness level which helps to achieve consistent and reproducible product quality throughout the rail industry's process chain.

## Ensuring safety of highly automated driving

As part of the PEGASUS research project promoted by the Federal Ministry for Economic Affairs and Energy (BMWi) in Germany, we are working with 16 industrial and research partners to formulate method and test requirements to ensure safety of highly automated driving functions for highway deployment.



## Shaping the future of AV development

To propel Autonomous Vehicle (AV) development, we have participated in the development of the first national regulatory framework, Technical Reference 68 (TR68), for fully autonomous vehicle launched by Singapore. We were in the working groups for operational / functional safety, cyber security and vehicular data.

# Sustainability

Managing growth for the good of all

Our wants are infinite. Unfortunately, our resources are not. Current projections put the world's population at 9.6 billion by 2050. Our ability to meet the needs of tomorrow comes down to the decisions we make today. That is why we are helping businesses meet their responsibilities to employees, customers and the environment through a balanced, sustainable approach.

## Bringing safe sanitation to all

To bring safe sanitation to 2.3 billion people worldwide, we have partnered with the Bill and Melinda Gates Foundation on several projects to support the 'Reinvent the Toilet' challenge. Through ISO standards development, we are enabling the commercialisation of innovative ideas that could benefit billions.



## Mitigating operational risk of offshore wind farm

From monitoring of manufacturing, transport, erection / installation and commissioning of the entire offshore wind farm to operational release approval from the responsible German authority, our experts ensured that all components conform to given requirements in order to mitigate operational risk in the certification of a new offshore wind farm, Nordsee One.

## Energy storage solutions for smart grids

Testing and certification of power devices against conformity requirements are fundamental to building reliable smart grids. Together with China Energy Storage Alliance, we have developed a battery energy storage system guideline to support the safe handling of energy storage technology.



## Uncovering energy saving potential

We provided KISCO, a steel manufacturer in Korea, with industrial energy saving solutions using a technically advanced methodology to reduce operating costs. To do so, we collaborated with iDRS, a demand response company, to minimise the impact of fluctuating energy consumption.

# Giving your business a clear competitive edge

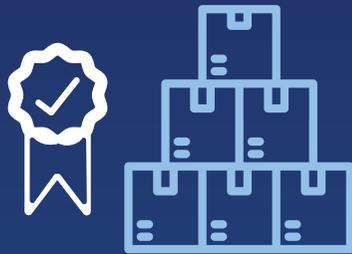
By choosing TÜV SÜD, you are partnering with a dedicated team of experts who are committed to increasing safety, security and sustainability while adding value to your operations. Our services help you to deliver consistent quality across the entire supply chain without compromising on cost efficiency or time to market. We provide business solutions that reduce risks, optimise revenue and maximise profitability to give your business a real competitive advantage.



# The sure sign of trust

The TÜV SÜD logo is universally respected as an independent and impartial symbol of safety, security and sustainability. It is based on a distinctive octagonal design that also forms the basis of our certification marks. TÜV SÜD certification marks and certificates represent third-party endorsement by a globally renowned organisation, while our personnel certificates provide our customers with greater market opportunities.

In an increasingly complex and virtual world, we have relevant solutions to ensure your business reaches its full potential in the real world.



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**500,000**  
product certificates



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**54,000**  
system certificates



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**20,000**  
personnel certificates

# Enabling access to global markets

Over 1,000 TÜV SÜD locations in about 50 countries

With an extensive network of multidisciplinary experts, accredited laboratories and offices established in the world's major business hubs and key production centres, we are ready to support your need for safety, security and sustainability wherever you do business.

## Germany (HQ)

Argentina  
Austria  
Bahrain  
Bangladesh  
Belgium  
Bosnia & Herzegovina  
Brazil  
Canada  
China  
Croatia  
Czech Republic  
Denmark  
Egypt  
Finland  
France  
Hungary  
India  
Indonesia  
Ireland  
Italy  
Japan  
Malaysia  
Mexico  
Netherlands  
Oman  
Philippines  
Poland  
Portugal  
Qatar  
Romania  
Saudi Arabia  
Singapore  
Slovakia  
Slovenia  
South Africa  
South Korea  
Spain  
Sri Lanka  
Sweden  
Switzerland  
Thailand  
Turkey  
UAE  
United Kingdom  
USA  
Vietnam





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