



MAKING SYSTEMS INTELLIGENT

ITK ENGINEERING GMBH

Inspiring and
setting high
standards
– on a personal
level and
technologically

WHAT MOVES THE TECHNOLOGICAL WORLD?



TAILOR-MADE SOLUTIONS



CROSS-DOMAIN METHOD EXPERTISE

- Systems Engineering 
- Safety 
- Cyber Security 
- Software Engineering 
- Control System Design 
- Image & Signal Processing 
- Verification & Validation 
- Cognitive Solutions 



AUTOMOTIVE

SHAPING THE MOBILITY OF TOMORROW



Highly Automated Driving

automated and safe: tailor-made solutions for the car of tomorrow



E-Mobility

electrified and connected towards the future



Systems Engineering

mastering complexity with methodology expertise



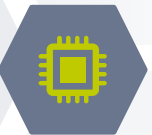
Verification & Validation

intelligently verify & validate complexity



Automotive Applications

future-oriented solutions pertaining to connectivity and automotive health



Automotive Products

from software & hardware development to serial production



COMMERCIAL VEHICLES

SAFE. ECONOMIC. CONNECTED.



Logistics 4.0

transport chain digitalization (last mile, automation of business processes, intelligent trailer)



Development & Implementation of Connected Services

platooning, connectivity, fleet management, predictive maintenance



Custom-Made Prototype & System Development

platform-independent system solutions for TCO reduction (autonomous driving kit systems)



Emission-Free Drive Solutions

hybridization / electrification / H2 technologies



OFF-HIGHWAY VEHICLES

ADVANCING OCCUPATIONAL SAFETY AND PRODUCTIVITY



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Digitalization

smart farming, Nevonex feature development, connectivity – along with increasing automation of machines and processes



Certified System Solutions

system development, reliable detection of objects & people, sensor simulation, use cases on digital 3D capturing



Cross-Platform, Cross-Product & Cross-Component Realization

grey-box engineering from prototype to industrialized solutions – tailored to customer requirements



RAILWAY ENGINEERING

DIGITAL. MODEL-BASED. CERTIFIED.



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Digital Solutions for Rolling Stock & Infrastructure

modern software und systems engineering as
a partner for railway operators as well as
systems and component manufacturers



Rail 4.0

innovations on the track via software,
cross-industry synergies and smart
engineering



Strategic Areas

modular software architectures, smart maintenance,
AI and cloud-based, distributed acoustic sensing
(DAS), cyber security, automated operation and safe
and extremely precise localization



Software Factory

certified ITK CENELEC Reference Workflow
for process-oriented, automated and
standard-compliant development

MOTORSPORT

INTELLIGENT. FASTER. FIRST.



From the Initial Idea to Racing Application

development and implementation of innovative concepts, optimization of race cars, technical support on the racetrack



Test Lab for New Concepts

endurance test for the future of series vehicles on the street



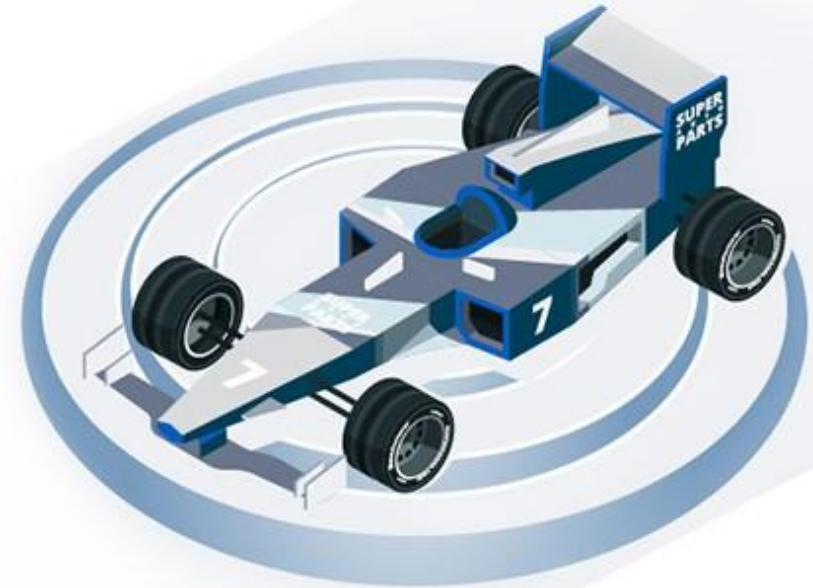
Motorsport as a Team Sport

passion and major successes – in the race and at the development stage



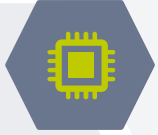
Cross-Manufacturer & Cross-Racing Series Realization

simulation & optimization, data analysis, verification & validation, algorithm and function development



MEDICAL SYSTEMS ENGINEERING

SHAPING TOMORROW'S HEALTHCARE TECHNOLOGY



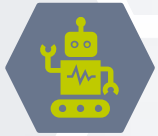
Systems Engineering

tailor-made systems engineering all from one source: software, electronics, and mechanics



Digital Health

one-stop supplier for connected health solutions: from consulting and development to approval



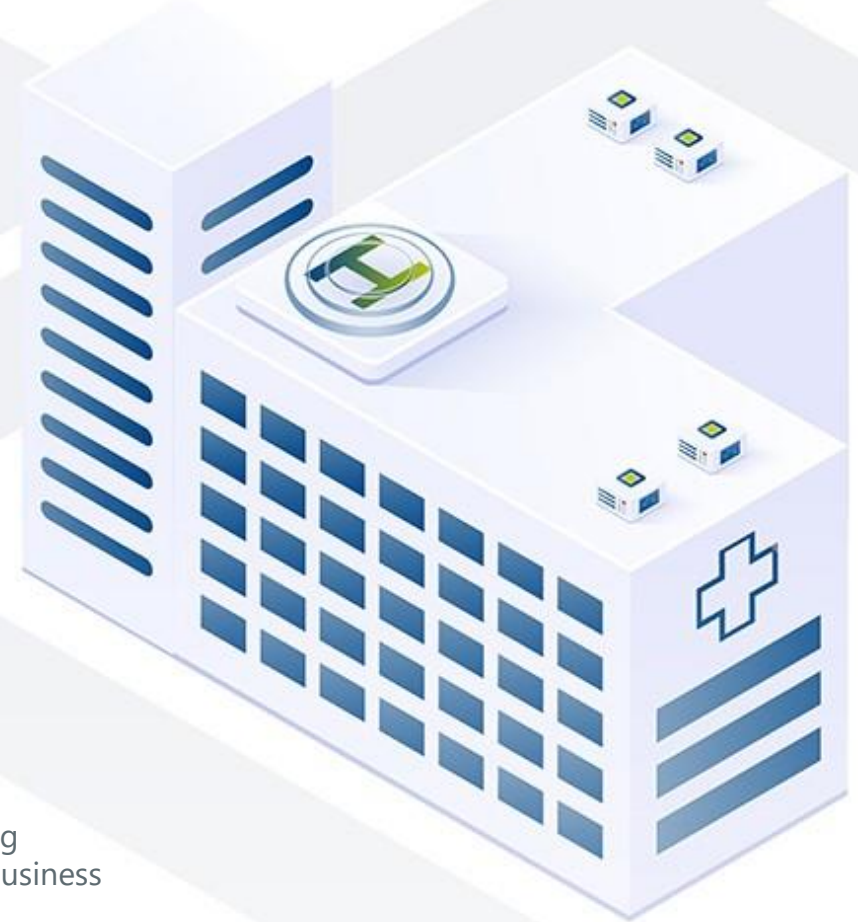
Robotics

smart, robot-supported assistance systems: safety-critical software, control algorithms, electronics and mechanics



Medical Consulting

consulting rooted in real-world experience regarding regulatory topics as well as new technologies and business models



INDUSTRY

ENABLING DIGITAL TRANSFORMATION



Smart Factory: Digital Transformation

partner on the trajectory towards custom-tailored industry 4.0 solutions



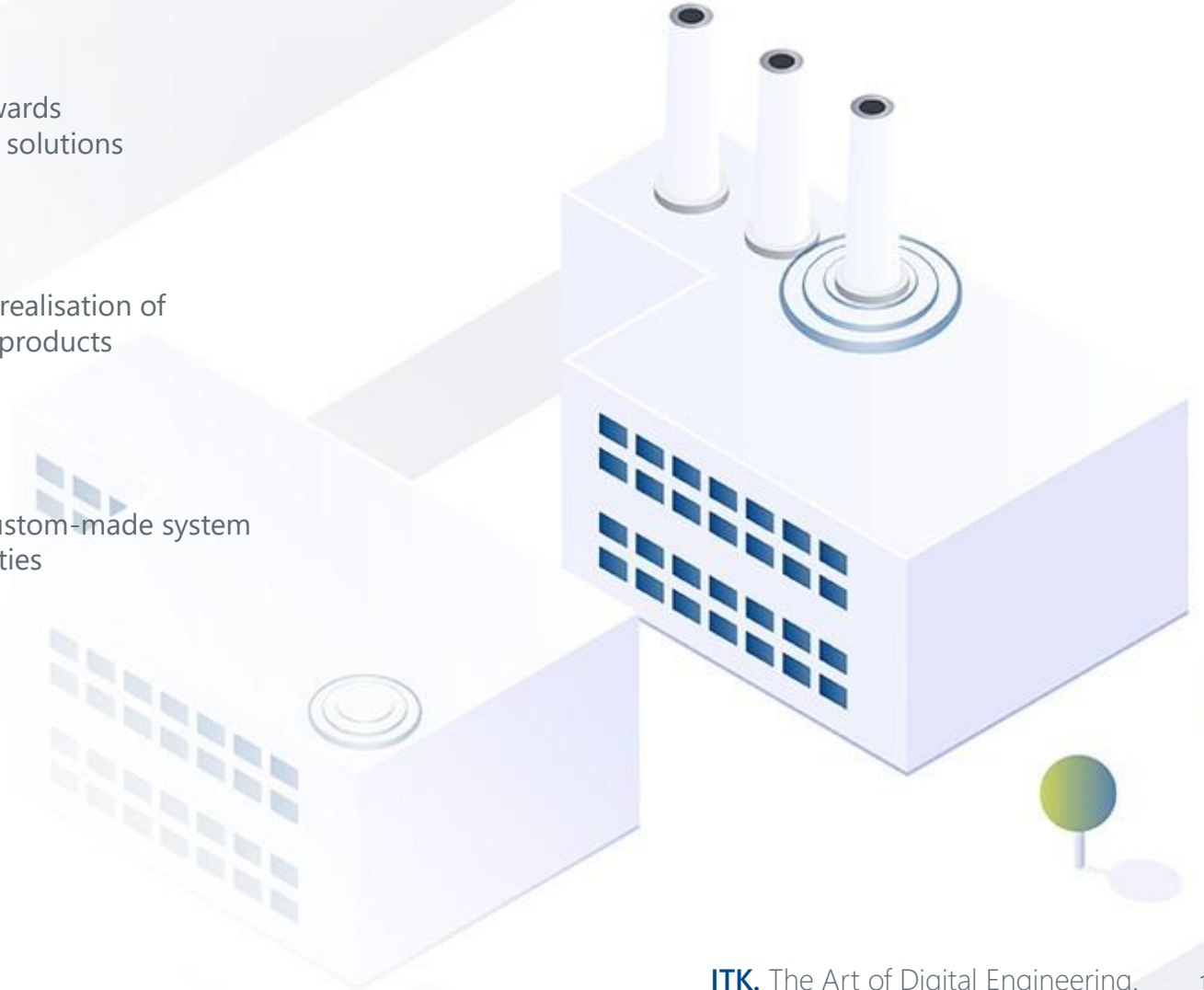
Smart Products: Prototype to Series Production

enablement and realisation of non-automotive products

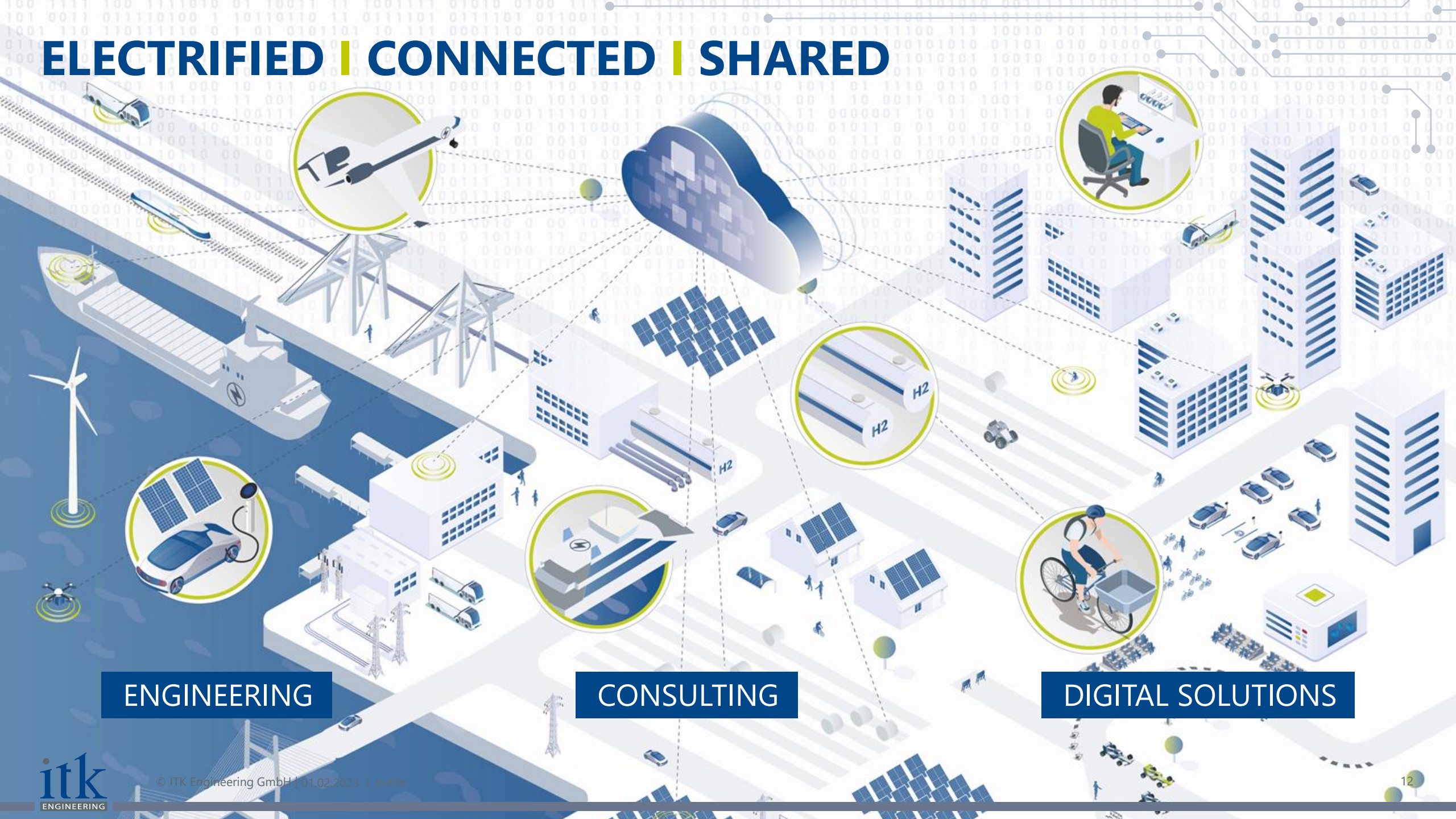


Smart Machines: Digital Industry Systems

general contractor for custom-made system solutions in small quantities



ELECTRIFIED | CONNECTED | SHARED

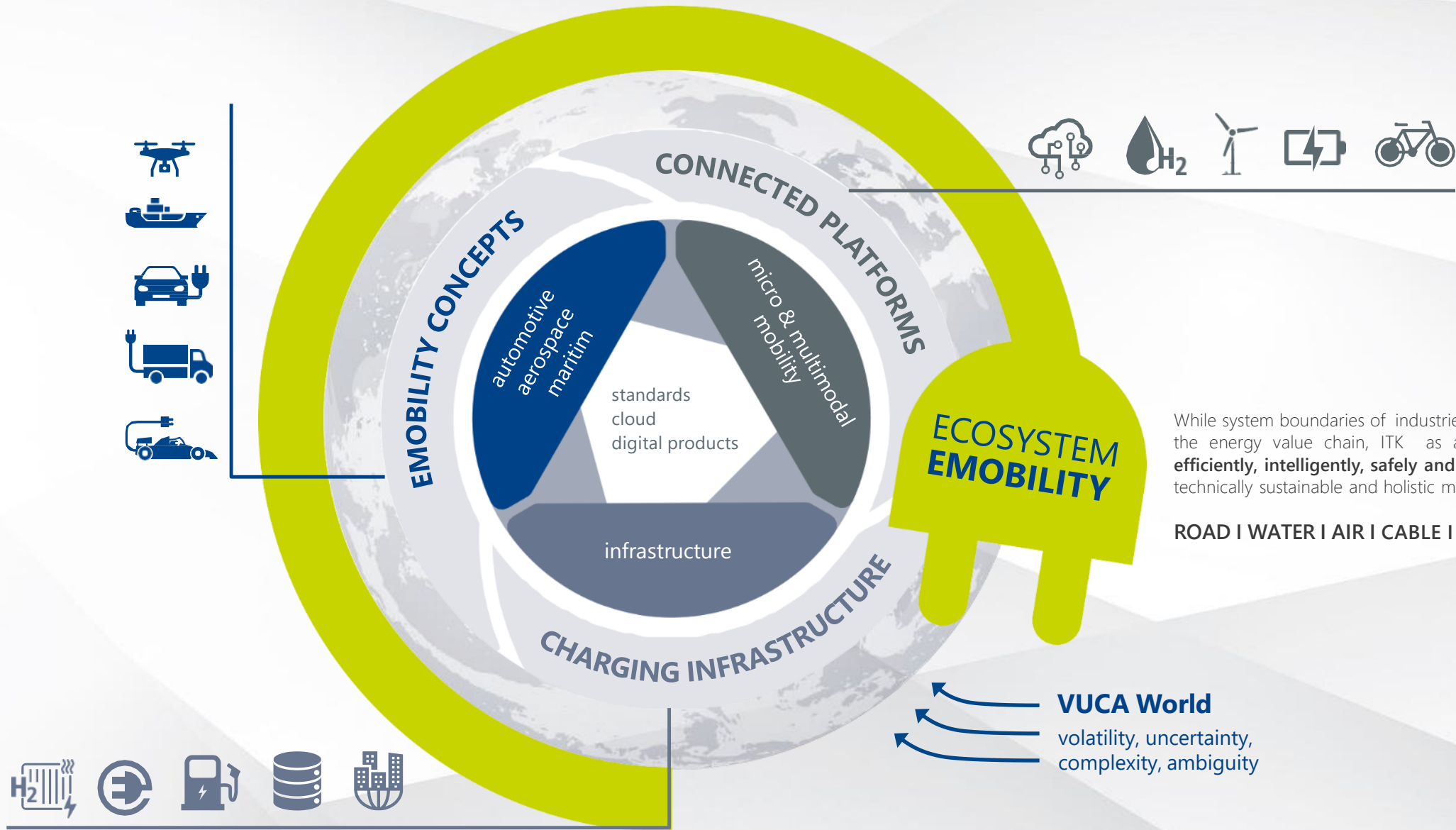


ENGINEERING

CONSULTING

DIGITAL SOLUTIONS

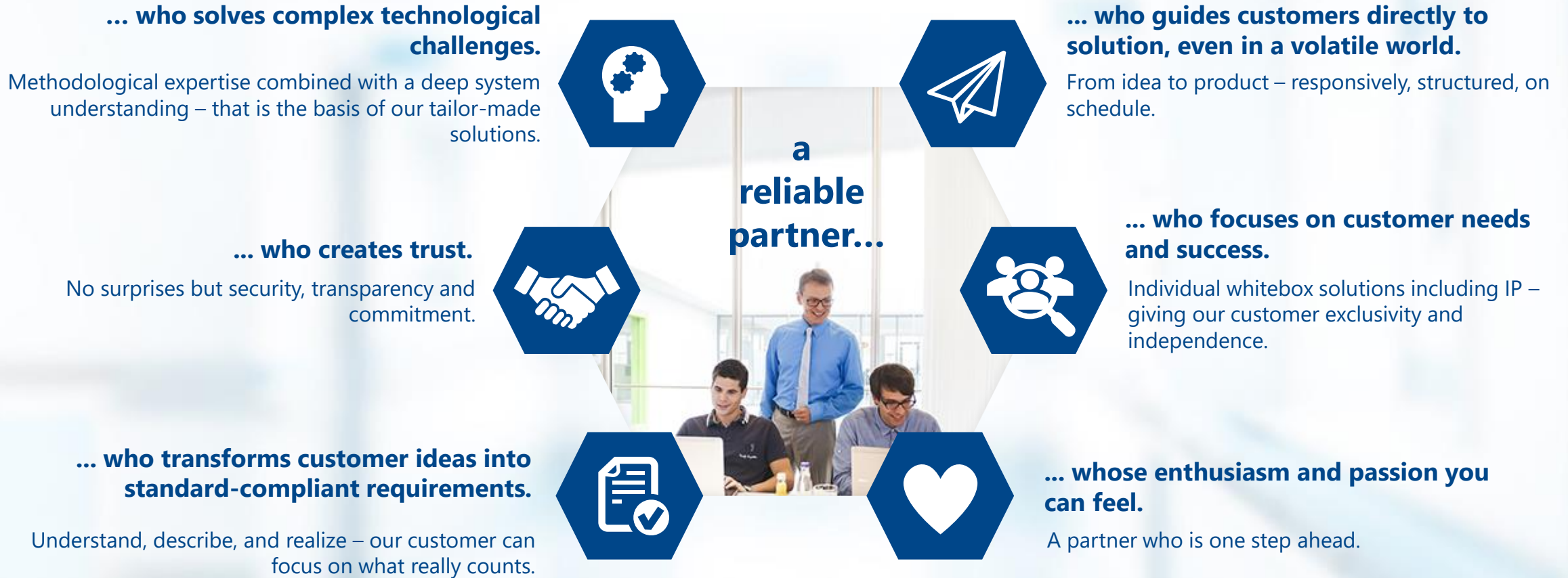
OUR CROSS-DOMAIN EXPERIENCE



While system boundaries of industries merge along the energy value chain, ITK as a partner leads **efficiently, intelligently, safely and securely** into a technically sustainable and holistic mobility

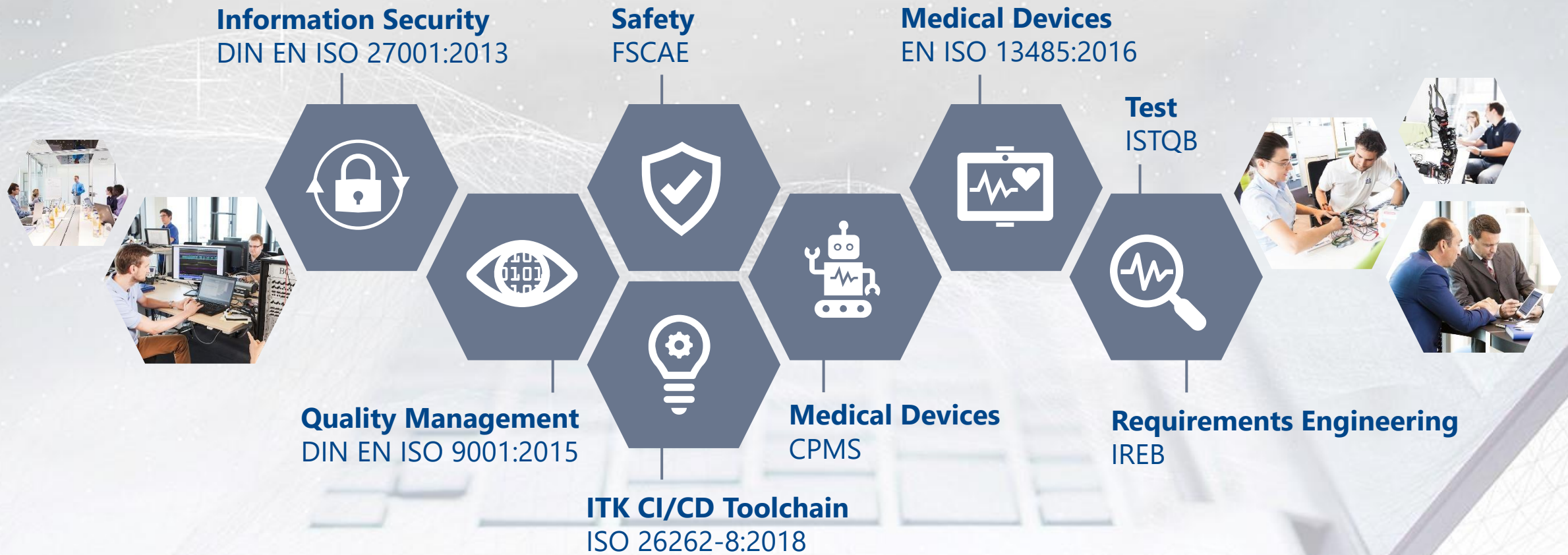
FROM IDEA TO FINISHED SOLUTION

MISSION STATEMENT



FROM IDEA TO FINISHED SOLUTION

CERTIFICATIONS



FACTS & FIGURES



Dr. Frank Schmidt
CEO



Jens Hofmann
CFO

 **1994**
year of establishment

100% 
subsidiary of Robert
Bosch GmbH since 2017

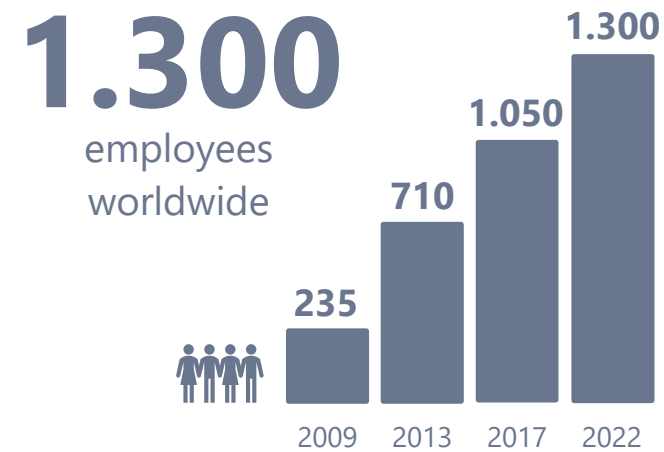


10 locations in Germany 

Ruelzheim | Berlin | Holzkirchen |
Ingolstadt | Stuttgart | Frankfurt | Lollar |
Cologne | Braunschweig | Friedrichshafen

5 locations worldwide 
Barcelona | Detroit | Wuxi | Tokyo | Vienna

>25 years 
of experience in
custom-made systems
and software engineering
in various industries





YOUR PARTNER FOR COMPLEX CHALLENGES OF THE NETWORKED FUTURE



THANK YOU FOR YOUR ATTENTION.



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