

Technology under Control
DEUTA





»Our mission: to realise visions together with you.«

Technological progress is happening at an ever faster pace today. Things which were unimaginable just a few years ago are taken completely for granted today. For example, in industry, medicine or the economy. These new achievements mean not only more complexity, but also increased demands on people and machines to be in control of the technologies. Ultimately, entire economic processes – and often human lives – depend on everything functioning smoothly.

DEUTA has been facing up to this challenge for over 100 years. Because we have made it our mission, using innova-

tive solutions, to make new technologies easier to control and therefore safer. True to our slogan “Technology under Control”.

In 1905, it was the invention of the speedometer. Today, the cutting-edge developments of our family-owned enterprise, such as IconTrust[®], form the basis for our worldwide reputation as an innovative development partner. It is hardly surprising, then, that customers all around the globe trust us when it comes to realising their visions. And who knows? Perhaps your company will be joining them soon.



Fabian Rensch
CEO / MD Policy



Dr Rudolf Ganz
CEO / Technical MD



Thomas Blau
CEO / Commercial MD

»Our products are based above
all on one thing:

customised solutions.«



Examples of high-end safety solutions by DEUTA.

From left to right: PMU 23 | DF16 | DRS 4/1 | ESG 14 | MFT L11 | DEUTA REDBOXpro | MFA 20

Technology today is more demanding than ever. In addition to functionality and economic viability, system safety assumes particular importance. In order to be able to develop customised solutions in this area, highly specialised expertise, decades of experience and a visionary world view are required.

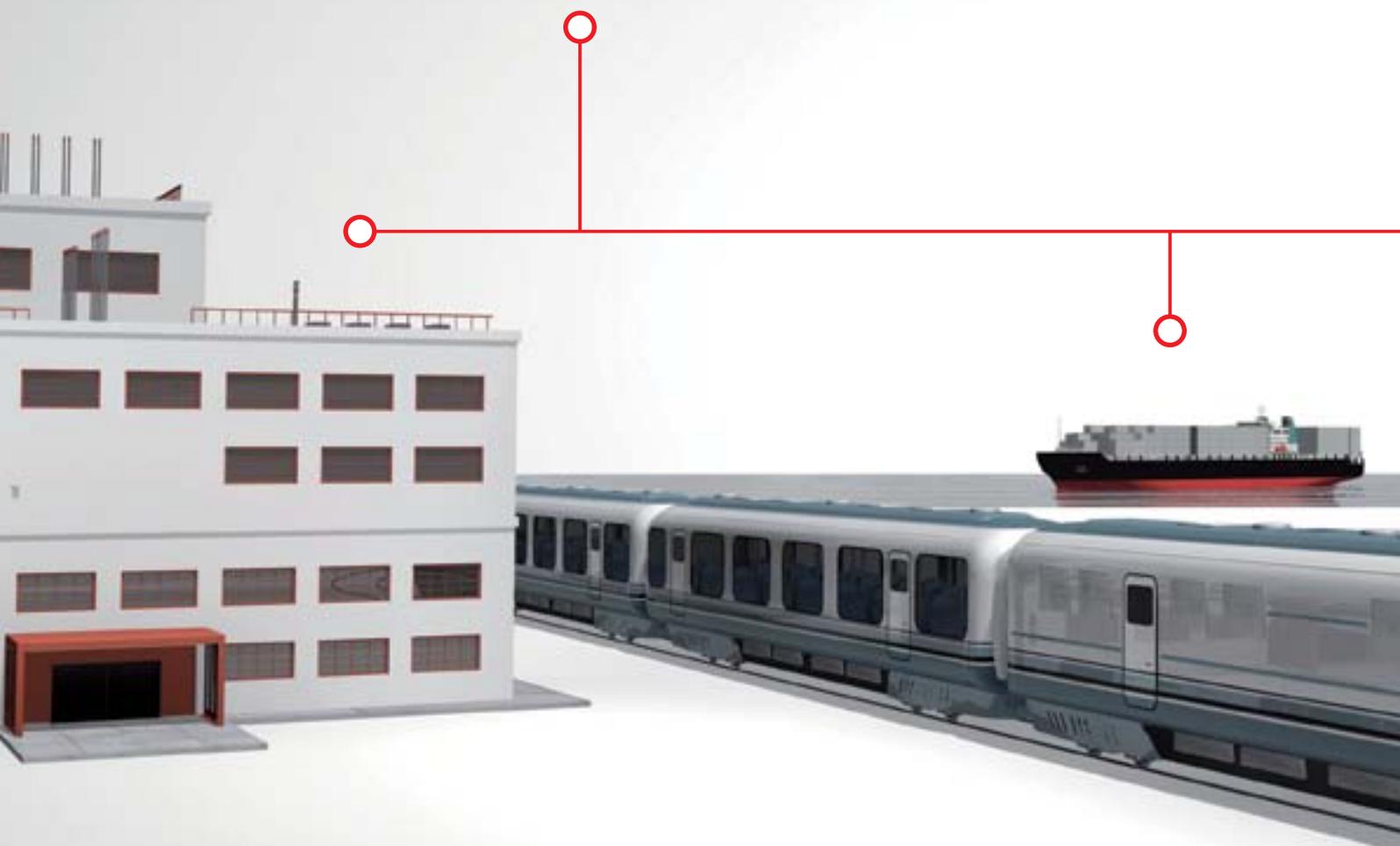
Attributes which have always characterised DEUTA and which DEUTA continues to demonstrate. The focal point of our work has always been people. Safe human-machine

interfaces are our goal. For example, in train technology: we not only view the information chain – from data acquisition using sensors and camera recordings through to visualisation – we also facilitate qualification processes and help with the relevant standards. In the end, a solution is achieved which, for example, makes the speed of an ICE high-speed train visible, traceable and controllable. In effect, "Technology under Control".



»Technology under Control.

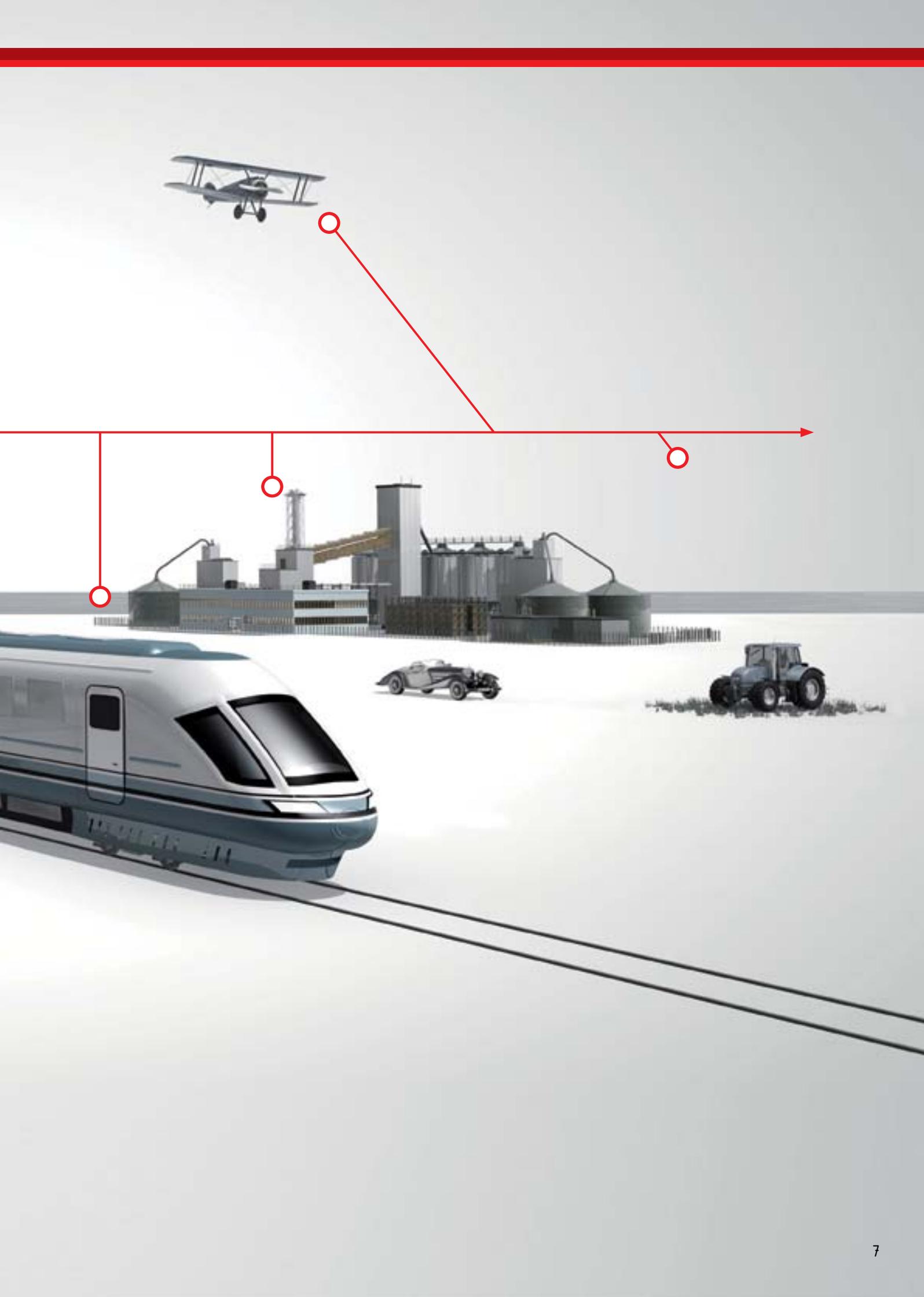
Our mission for over 100 years.«



There has been a central theme characterising the company's history since it was founded in 1905: the spirit of innovation. It all began with the development of the first speedometer for vehicles, which functioned in real time and with an incomparable level of accuracy. An invention that, in the following years, set off from Germany on its triumphal procession all around the world and marked the beginning of further developments spanning different industrial sectors. The list of innovations in the decades following is as diverse as it is long: speedometers for railway vehicles, electrical

laboratory instruments, tachometers for aeroplanes, blind flying devices, devices for wind measurement and train protection systems as well as components for drive technology, machine tools and textile machines.

The name DEUTA is synonymous with precision and durability. Then and now. The best example of this is the modular driver's console display, which has been in active service on trains all over the world for the last three decades. And will continue to be in the foreseeable future.





QUALITY ASSURANCE

CUSTOMER SUPPORT

SOFTWARE DEVELOPMENT

MANAGEMENT

»Those looking for investment security need a partner with product and process competence.

At all levels.«

DEUTA solutions stand for precision and reliability world-wide – and there is a reason for this. What distinguishes us from others is our high level of vertical integration – and with that our clear process and product competence. We produce, assemble, qualify and provide support all around the globe and are your contact partner at all levels.

None of this would be possible without coordinated processes in development and highly efficient project management. Starting with the design phase, our products are

analysed and evaluated in interdisciplinary teams with the aim of meeting customer requirements. Lateral thinking is expressly desired during this process in order to reach the best possible product solution. We are satisfied only when you are – with quality, price and long-term availability. For us, this means success. For you, investment security.

»My multifunctional terminals are in it for the long haul.

Just like me.«

Michael Schmergal, Project and Innovation Manager, DEUTA-WERKE

Endurance is not only needed for marathons. It is also an important quality criterion when it comes to terminals for railway vehicles. While railway vehicles today are used for long distances and are in service for an average of 25 years or longer, the built-in electronic systems are short-lived and frequently affected by component discontinuation.

For many years, DEUTA has been achieving the balancing act between product operating life on the one hand, and discontinuation cycles on the other. Our philosophy: long-

term product strategies, the implementation of defined stages in the management process and intercompany cooperation. We develop and produce customer-specific boards in-house. Perfect preconditions for replacing discontinued displays with our own form-fit-function developments.

No wonder this integrated approach has made our driver console displays No. 1 in the world.



»Can existing applications be made even safer?

For me, not a question, but a stimulus.«

Holger Manz, Head of R&D, DEUTA-WERKE

DEUTA products are part of safety-relevant applications. Therefore, for us, safe is not safe enough. This is what motivates us at DEUTA to work day by day towards better solutions – and deliver process-oriented verification at a high formal level. This includes, for instance, expert reports according to DIN EN 50126 / 50126 / 50129 or IEC 61508. They certify the suitability of system components for a particular application scenario and for a required Safety Integrity Level (SIL) featuring a residual risk that must be complied with.

The standard DEUTA development process includes the precise capture of safety requirements and a safety plan based on these. The subsequent intelligent architecture specification and the high level of expert evaluation reduce development time for our product solutions. And that pays off: for you.



»What for me is self-evident applies equally to our products:

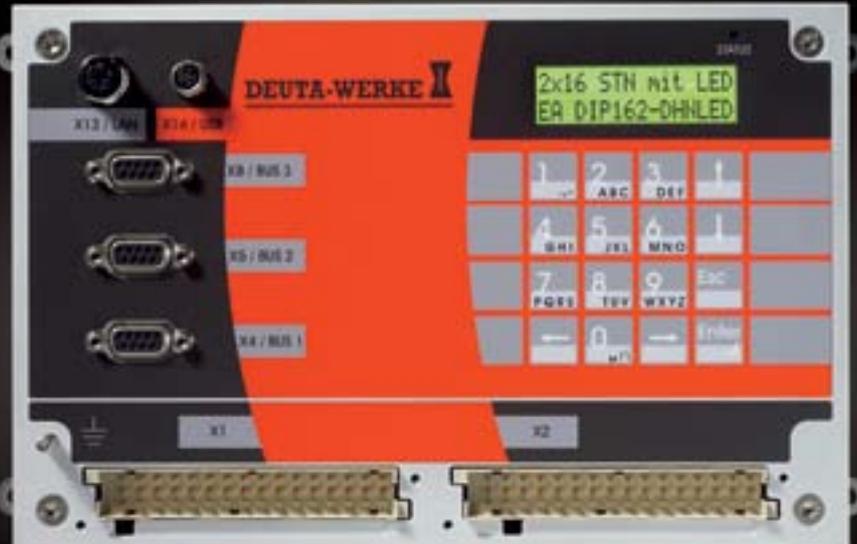
always keep your edge.«

Rainer Giebel, Development Recorders, with DEUTA for 40 years

Safety has no expiry date for us. Therefore, alongside technical characteristics, long-term availability of our products is a key criterion during the decision-making and development phases for new components. These are selected in such a way that they consistently meet the requirements of product obsolescence.

Should continued production become impossible or uneconomic, we qualify or recommend a replacement

product with comparable performance and safety characteristics. An example of the successful replacement of a product is the route taken by our KWR and DSK recorder series, which have evolved to become the new DEUTA REDBOX generation of multifunctional recorders.

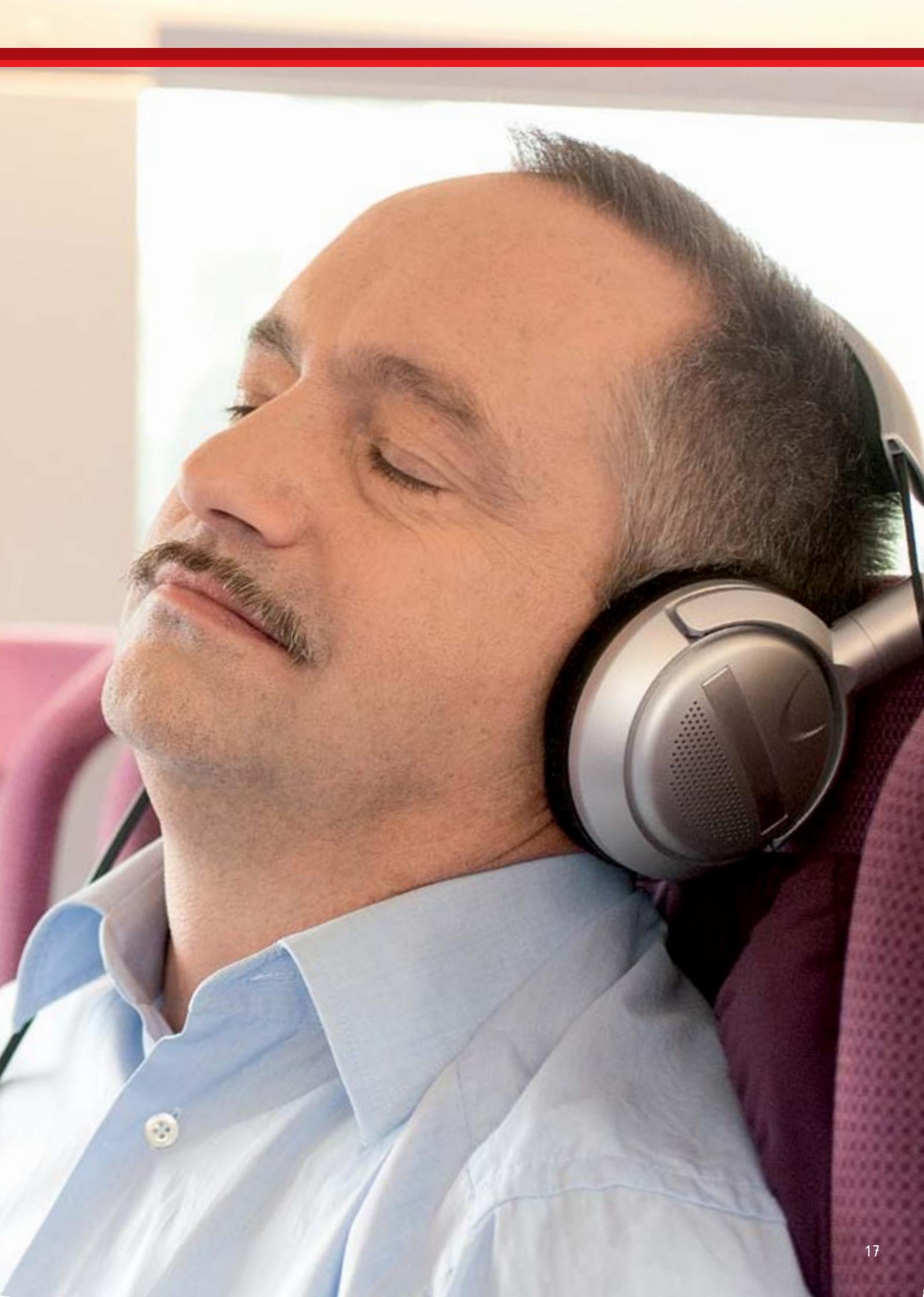


»What we do might not
always be visible,

but you'll always feel it.«

For example, when we ensure behind the scenes that cruising at 350 km/h
can be safe and relaxing.

Wulf Kolbe, Product and Innovation Manager for Radar and Odometry, DEUTA-WERKE



»Only solutions which reduce complexity are innovative.

This is the way to increase safety.«

Muammer Ayalp, Application Technology, Video Technology and IconTrust®, DEUTA-WERKE

There is hardly a production method today that does not involve complex processing stages. So it is all the more important that these function smoothly. The human factor plays a leading role. Decisions often have to be made which are based on information provided on TFT displays. If process factors are displayed incorrectly, then costly malfunctions, or in worst case even accidents, are inevitable.

DEUTA is the first company worldwide to successfully pioneer the solution to this problem. Our newest innova-

tion IconTrust® with the extended SelectTrust® function is the only system which ensures that correct values are also correctly displayed. A groundbreaking solution for numerous sectors – plant and machine construction, the chemical and pharmaceutical industry, the energy sector, medical technology, shipbuilding, aviation, vehicle construction and special-purpose vehicles.

Ultimately, there are no boundaries when it comes to safety.



»Our base is Bergisch Gladbach.

Our home is wherever safety is needed.«

Vivian Auwärter-Leng, Project Coordinator China, DEUTA-WERKE

Thanks to our competence, flexibility, experience and commitment, we have become an important partner for numerous global players – and a global player ourselves over time. Our headquarters are in Bergisch Gladbach, Germany, and we have representatives and competent contacts on all five continents. Whenever and wherever you require the support of a leading developer, producer and provider of safety components and systems, we are

there. If we are involved at an early stage, we guarantee the functionality and efficiency of the delivered solution. And not only until on-site start-up, but also well beyond that with our after-sales service.





»Whatever task you give us –

we find a way to the solution.«



TECHNOLOGY
UNDER
CONTROL.
DEUTA.



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