

**Shaping the Future**

**Our Mission for more than 150 Years**

 **HUESKER**  
Ideas. Engineers. Innovations.

More than

30

missions ...

... destined for Mars have been launched since space travel began. Although none of these were manned, Mars visionaries have already drawn up ambitious plans for "terraforming" the planet in preparation for its colonization in as little as a thousand years' time. The foundations for this will be laid in the coming decades.

# Major Undertakings Need the Right Philosophy

**Humankind sets its sights high. Its ambitions sometimes stretch our imagination to the limit and awake the explorer in us - while also providing inspiration for the team at HUESKER. It is precisely this forward-thinking, inventive approach that drives us to deliver exceptional results. Our focus is always on finding the way forward in the search for intelligent and sustainable solutions.**

HUESKER's 150 year plus corporate history is an impressive success story of a company that always rises up to challenges and acts with the future in mind. For us, tradition and progress go hand in hand.

We relish demanding projects that allow us to demonstrate our expertise and ingenuity in delivering results that excite our customers.

Our technical textiles are successfully deployed in the fields of:

- Earthworks and foundations
- Roads and pavements
- Environmental engineering
- Hydraulic engineering
- Mining
- Agriculture
- Industry

In all these areas, they complement or replace standard constructions, e.g. the use steel and concrete. Our solutions excel by providing the best response to the complex demands of a particular application.

In collaborating with our customers on their projects, we are a reliable and knowledgeable partner. We are regularly confronted with the stiffest challenges, which we duly accept as our mission. These missions are then accomplished through supreme feats of engineering and the application of outstanding production technologies.



Temperature fluctuations of

# 212 °F ...

... are factors to be reckoned with. Extreme temperatures, winds and landscapes are typical of Mars. Here, Charles Darwin's concept of the "survival of the fittest" takes on a whole new dimension.

## Progress through Innovation

**Our products undergo decades-long exposure to a wide range of exogenous actions that test their performance and durability. How do we go about making our products and materials – which are routinely subject to the severest of loads – fit to endure extreme environmental conditions?**

We carry out a broad based program of research that covers everything from raw materials to the potential offered by sensor systems. Our interdisciplinary expertise also enables us to develop new production processes and methods. Our continuous investigations into new fields of application, underpinned by the scientific research conducted by our engineers, culminates in the creation of unique, patented system solutions that are custom-engineered to meet the requirements of our time.



It is our thirst for discovery that sets us apart. We are not satisfied with our past achievements because we know that there is always room for improvement and that there is an answer to virtually every problem.

Research is the key to our future. HUESKER's innovative power and spirit of discovery also explains why an average 30% of its sales are generated by products that have only been in its portfolio for three years or less.

More than

# 500

own scientific

# publications

worldwide

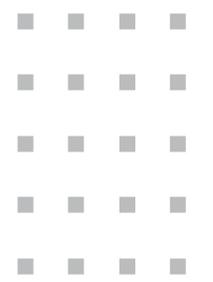


More than

# 20

new products

in 3 years



# 30 %

of our sales

are generated by products less than three years old



# Intelligent Geotechnics = Top Class Engineers

What do we mean by stability? What effect does gravity have on the ground and atmospheric pressure on buildings and their structural performance? Our projects are governed by numerous factors, most of which are on our radar. But what if conditions change?



Our decades-long track record in the vast field of geotechnics provides us with an in-depth understanding of the associated challenges and enables us to overcome seemingly insurmountable obstacles by developing efficient solutions.

Our geotextile-encased columns carry structures for which alternative crushed stone or slender concrete pile assemblies would be entirely inadequate. We live 'excellence' and relentlessly strive to improve our products so that we can excite our customers even more.

In the geosynthetics sector, HUESKER boasts a unique portfolio of fabrics and geogrids with tensile strengths hitherto unsurpassed by any other products worldwide. Our geotextile tubes are manufactured from special wovens that allow faster dewatering than any comparable systems. Our active geocomposites are able to bind diverse contaminants even those that even include radioactive substances.

That is why our engineers take delight in every fresh challenge and the search for innovative answers to new problems. Our ingenuity in delivering solutions makes us your partner of choice in shaping the future, not just by forward thinking, but also by forward-thinking action.

HaTelit SoilTain Tektoseal  
Incomat Fortrac Basetrac  
Stabilenka Ringtrac

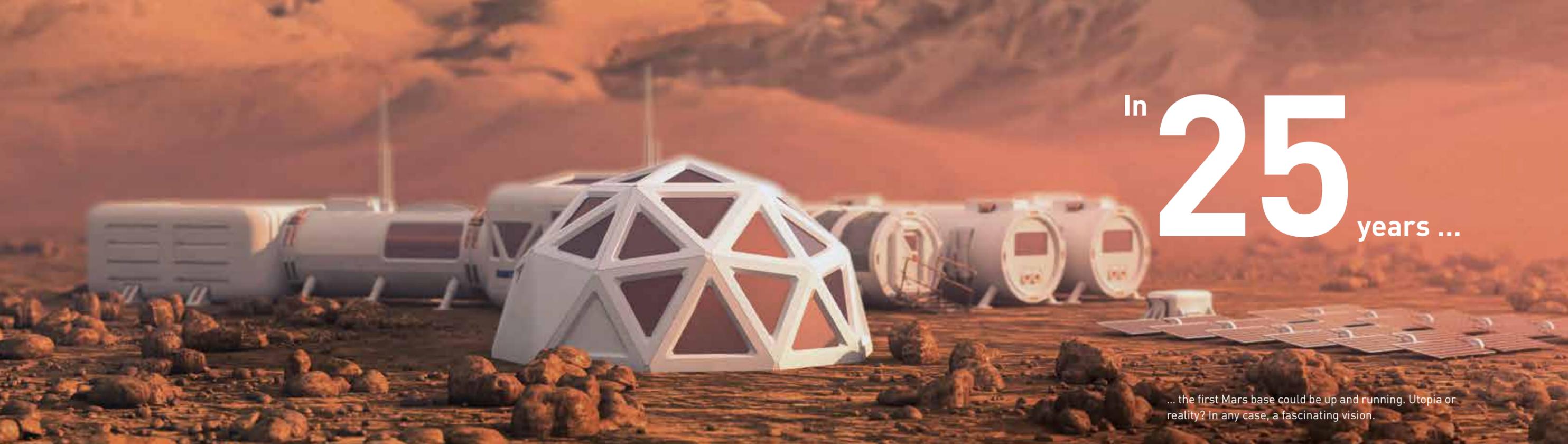


# 38%

gravity and ...



... 0.87 psi atmospheric pressure. The seventh successful Mars landing saw Curiosity touch down on the planet's surface. The rover is designed both to cope with and investigate the conditions on the red planet.



In **25** years ...

... the first Mars base could be up and running. Utopia or reality? In any case, a fascinating vision.

# Agriculture and Industry – Evolution of Civilization

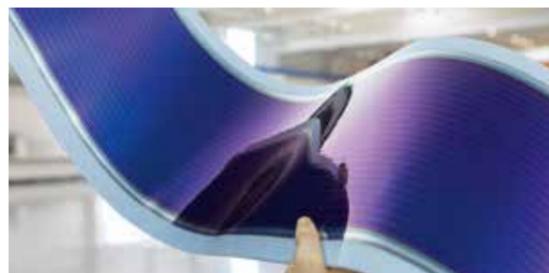
**Our lives are heavily dictated by developments in agriculture and industry, both of which are fundamental to our urbanized societies. Both sectors face a host of immediate and future challenges. Many of these are related to the issues of sustainability, safety, efficiency and comfort.**

HUESKER offers system solutions in the fields of automotive manufacturing, aviation, industrial shed construction and transportation, to name but a few. Here, our products impress by features such as low weight, high stability and cost-effectiveness. Our door assemblies are wider and lighter than all comparable systems. Our transport solutions include products for the reliable securing of cargo while our technical textiles help to make cars even safer.

HUESKER's entry into the photovoltaics market has underlined its credentials as a future-oriented company: as its ultra-lightweight textile photovoltaic systems have taken on a pioneering role.

In the agricultural sector, our system solutions cater to a variety of applications. We offer all-in, networked livestock building ventilation systems that have been shown to maximize both human and animal comfort. In the area of agricultural engineering, our solutions also help to avoid empty vehicle runs. We offer systems for biogas, emission control, concrete and silo protection applications, and much more.

Our technical textiles hold unlimited potential. In these and many other areas, our products open the door to the future because they often embody technologies that far exceed present expectations.



Skytex TechnoTex Lubratec  
Ventitec **Flexcover** UmbraTex  
Agritec Tectura **Covertex**



# 16 miles high mountains ...

... still represent inconceivable dimensions for the human mind. But should we still be thinking inside our familiar box? Should the present serve as our only compass when we develop visions for more distant objectives? The fact is that what was unthinkable yesterday is today often normality.

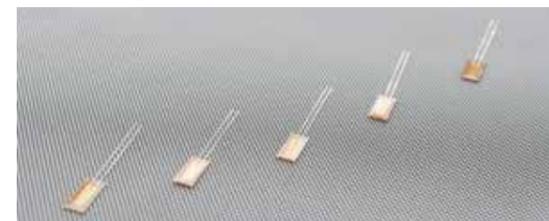
## Using Smart Textiles to Tap the Unthinkable

**Mission impossible? There is often only a fine line between the possible and the impossible. Only those who have regularly experienced the impossible becoming reality are not deterred by the seemingly unthinkable.**

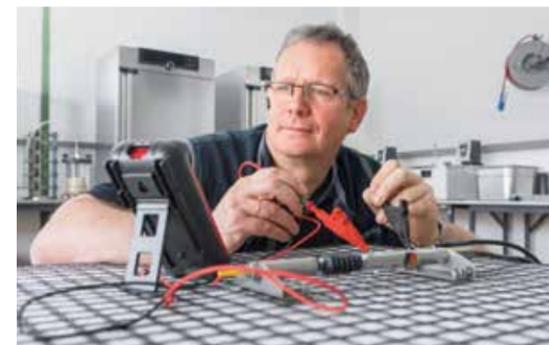
That is why we never relent in our efforts to develop our company and refine our solutions. To make our technical textiles fit for the future, we equip them with integral measurement systems and thereby enable them to contribute positively to the progressive digitalization that is shaping our world.

These so-called "smart textiles", allow the condition of structures to be monitored. For this purpose, the sensors integrated in our products can measure a variety of physical parameters such as the forces and strains in our geogrids. They can supply invaluable performance data on our geotextiles and allow key conclusions to be drawn about the condition of the overall structure.

Quite apart from this, they also help us to hone the future performance of our products, to optimize our design principles and construction methods, and to model structures more effectively.



And we have only just begun. In the laboratory, our measurement system R&D continues – all with the aim of achieving improvements, boosting efficiency and reducing weight, while increasing stability, flexibility, sustainability and smart functionality.





# 1

## individual ...

... i.e. each person is decisive for the results of the team and each team member contributes his or her own special expertise and each individual is wholeheartedly committed to the mission.

# We are an International Team

**Columbia, Atlantis, Discovery – all names with strong connotations, all evocative of the spirit of exploration. But explorers first need a mission, and a mission first needs a vision. Moreover successful missions need a passionate and experienced team.**

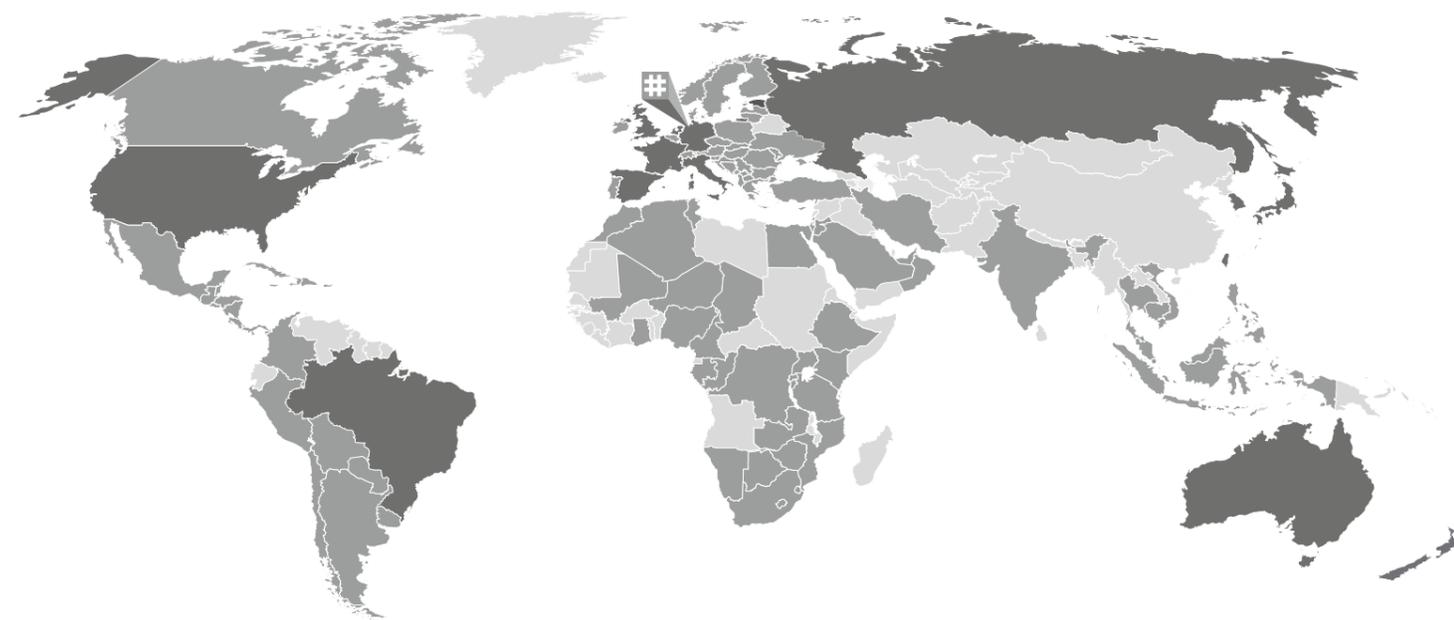
In opening up new horizons, we can draw on an international team of experts. With subsidiaries, production sites and distribution partners on five continents, HUESKER forges close ties with its customers. The international networking of our local specialists and global dialogue on engineering challenges contribute to the steady expansion of our know-how. In this way, the experience gathered from the renaturation of canals in Austria or the stabilization of mangrove belts in Thailand can feed into new projects in Brazil, Russia or France.

We are the first port of call for many companies requiring services in our business areas and we cultivate close working relationships with all project team members. We partner our customers in developing ideal solutions in the shortest possible time. The versatility of our team, our family-like culture and the passionate



commitment of our employees are inspirational. This positive energy has enabled us to expand our team by a quarter to a headcount exceeding 500 within only five years. We believe in an open and trusting exchange of ideas and join together in thinking across boundaries.

We are therefore delighted at the enormous international recognition conferred by the professional community on HUESKER, as a consultant and development partner on an equal footing. When the going gets tough, our clients turn to us – and rightly so.



- # Head office
- Subsidiaries / branches
- Distribution partners

# We Accept Responsibility

Despite the thrill of fathoming new possibilities, adopting a dependable, down-to-earth approach remains our key priority. Although Mars exercises a tremendous fascination, the earth remains our home. This is where our present and our future lie.

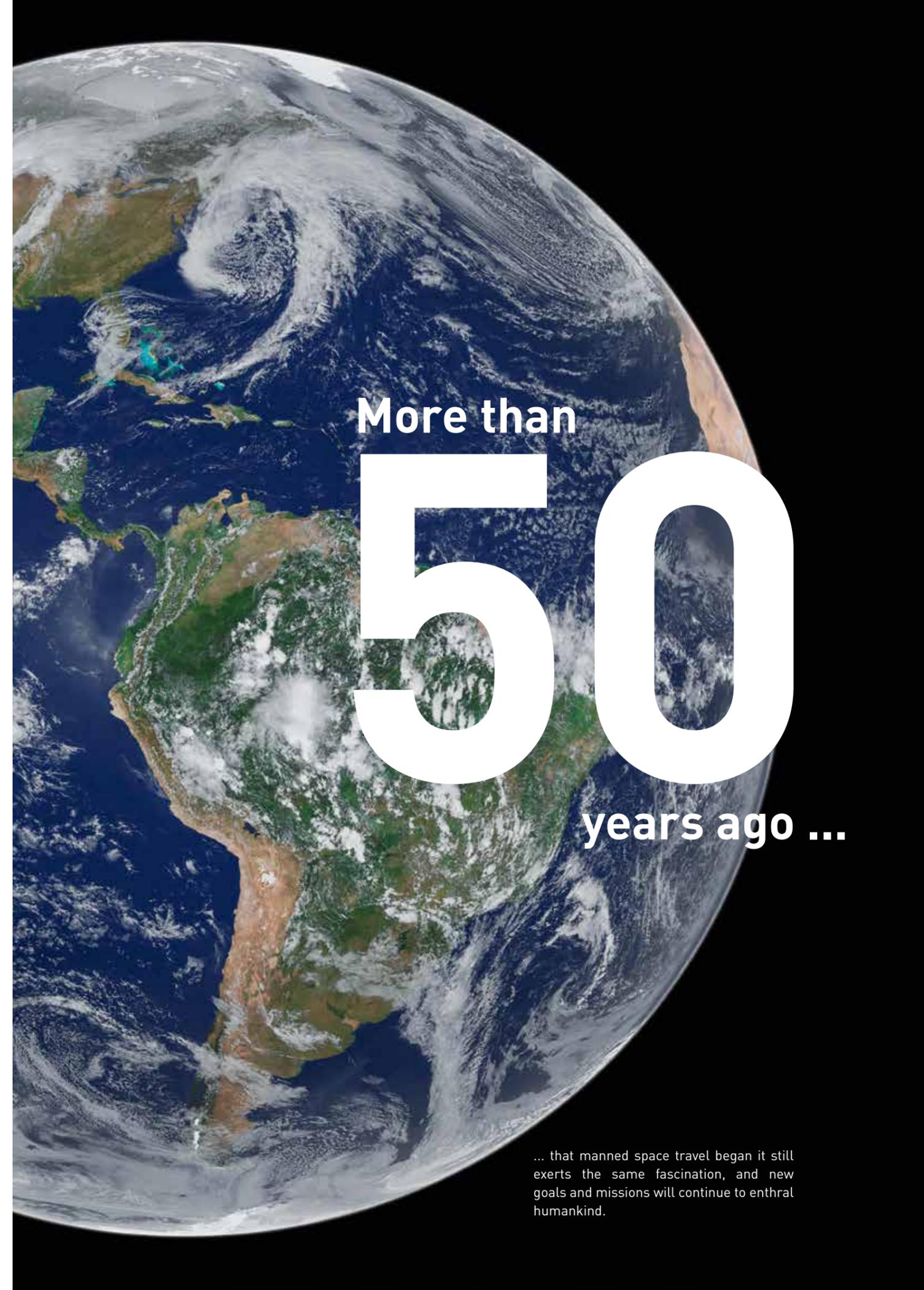
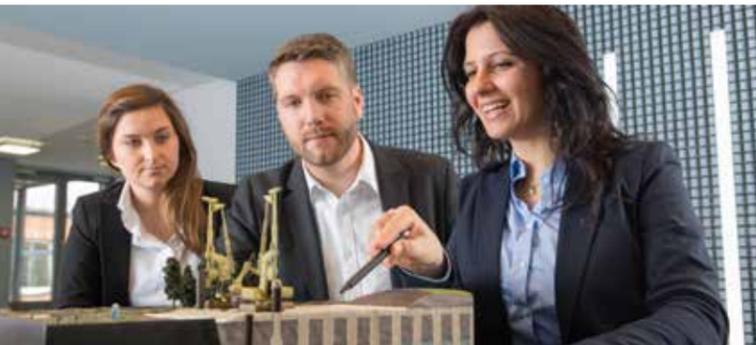
Now more than ever, humankind must accept its responsibility to treat our planet and environment with respect.

HUESKER was the first company in its sector to be awarded an Environmental Product Declaration (EPD) certified by an independent third party, for the assessment of the sustainability of its products in comparison to other systems.

Sustainability projects in support of environmental protection are also part and parcel of our in-house operations. Our ISO 14001 certification demonstrates our commitment to eco-friendly production. Single-minded action, even on a small scale, can deliver impressive results: the simple investment in an intelligent lighting concept using modern LED lamps at our company sites has cut energy consumption by an amount equivalent to the demand for one hundred four-person households. And it goes without saying that our energy management system is certified to ISO 50001.

Who knows where our path will take us. Perhaps, at some time in the future we really will set foot on new worlds where new questions will need new answers. We are ready to find those answers.

**We have understood our mission.**



More than  
**50**  
years ago ...

... that manned space travel began it still exerts the same fascination, and new goals and missions will continue to enthral humankind.

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HUESKER Synthetic is certified to ISO 9001, ISO 14001 und ISO 50001.



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