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The business area of NANO-X GmbH is chemical nanotechnology. This is a process with which materials, such as coatings or 3-D objects, can be developed from minute nanocomponents of just millionths of a millimetre in size. By varying the composition, shape, size or character of the surface, these nanoparticles can be shaped again and again like small building blocks, resulting in unprecedented scope for material design.

This new technology has been modelled on nature which offers illustrative objects ranging from the most simple of precious stones, protective surfaces of plants and beetles to complex biological systems, such as the replication of the genetic make-up of mankind. We are still a long way from reconstructing such self-orientating or self-reproducing systems in our research. However, even at this point in time, the developments in the field of modern nanotechnology provide for amazing success stories, such as the possibility of reconstructing surface structures for industrial materials that are demonstrated to us in nature. This leads to added value from an economic point of view and benefits for the general public in the areas of application of mobility, communication, health, the environment and energy.

NANO-X GmbH develops and produces new materials from chemical nanotechnology with multi-functional properties. The service provided by the company ranges from consultancy in innovations to targeted developments of materials already available for customer-specific applications right through to the production and application of the desired system solutions.

Our areas of business include:

- Easy-to-clean surfaces with nano-effect in the areas of protection against soiling for glass, ceramics and metal
- Self-cleaning surfaces through the photocatalytic effect for exterior applications
- Scratchproof and abrasion-proof coatings for plastics, metals etc.
- Multi-functional coatings to protect metals from corrosion
- Anti-fingerprint coatings for surfaces of stainless steel
- Protective coatings to prevent dewing and fogging