

## Intelligent structures New materials in Dresden

### Services offered by the Department of Economic Development

- Approval management
- Real estate management
- Promotion of businesses start-ups
- Contacts to research institutions and networks
- Location marketing
- Lobbying

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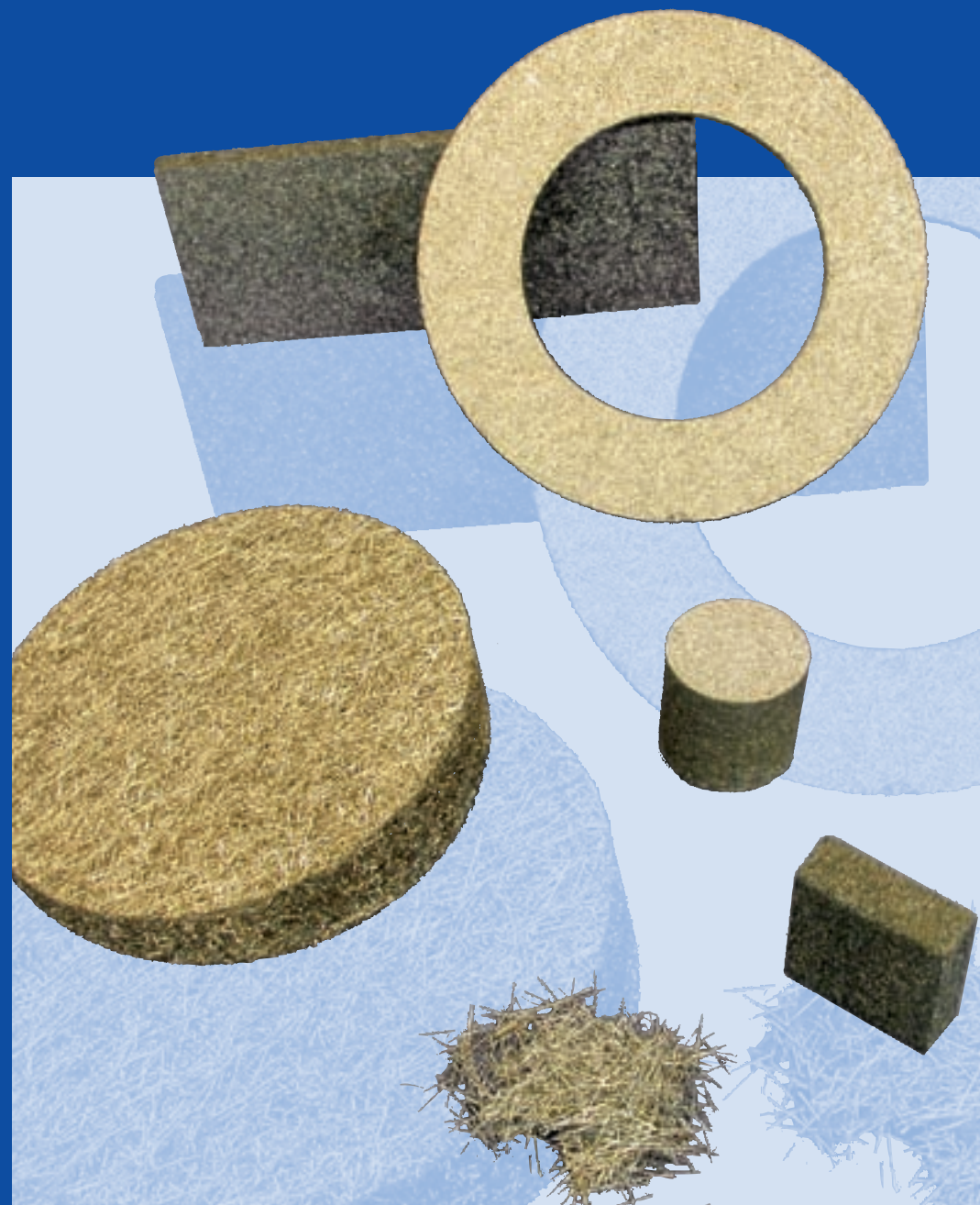
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Automobiles offering the highest levels of comfort and at the same time the highest levels of safety, intelligent residential window designs, allowing light and heat to pass through unimpeded, but only in one direction; computers doing double duty as film studio, phone system, music center and more: all of this is increasingly becoming the widely available technical standard. However, most users of these high-tech devices are oblivious to the fact that the enormous advances in the development of materials is the basis of this progress. These advances have made it possible to combine extreme and complex material characteristics. These achievements have been realized by modern material science in the worldwide stress field of natural and engineering sciences in large material science centers. Dresden is one of these centers.

## Materials of the future

Minute currents flow through the copper conductors of processor chips manufactured by AMD Dresden. The cross sections of the conduits are even smaller, so that the intensity of current calculated per square millimeter can be as high as 100 000 amperes. In this process, it is not permissible to destroy even a single one of the several billion conduits located on a chip of less than a square centimeter. Researchers from Dresden are contributing to efforts to achieve this goal. On the other hand, to build even quieter cars, the automobile industry is looking for lightweight materials equipped with sensors and actors, able to detect vibrations instantly and absorbing them by counteracting vibration. These materials are also being developed in Dresden. Three-dimensionally knitted or crocheted fiber structures for high-strength fiber composites also have their origin in technological developments in Dresden. This list could be expanded indefinitely. This comprehensive competence in all areas of material research contributes decisively to the attractiveness of Dresden as a preferred location for business and science.

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## Quick, efficient and without red tape

The Department of Economic Development assists and supports Dresden's development as business location with a number of activities. For instance, companies who decide to invest here receive suitable industrial properties for a successful settlement, but also for expansion or relocation projects, quickly and unbureaucratically. Newly established or young companies find optimal start-up conditions with tailor-made office space and laboratories in the TechnologieZentrum and in the BioInnovationsZentrum. As a contact for investors, project coordinators take care of trouble-free approval management and quick completion of all processes. Acting as guides within the municipal administration, they establish contacts to all concerned departments.

### It can be as quick as that

Special project groups ensure the unhindered start of investment projects. One example: on behalf of VTD Vakuumtechnik Dresden GmbH, the department of economic development coordinated the approval process for the construction of a new production hall, including the required flooding protection measures. As little as seven weeks passed from submission of the application to the issue of the building permit.

### Meeting point Dresden

Trade fairs and congresses stimulate the productive dialog between research and development institutes and businesses. NASA has already announced its participation in the first world congress on space missions, among other things, on the subject of coatings for spacecraft, in the year 2016. Today, the international symposium Nanofair, the international lightweight construction symposium and the annual material research conference of MFD guarantee a vibrant exchange within the technology landscape of Dresden.



The International Congress Center Dresden offers outstanding conference facilities; here: Nanofair 2005.