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Through resource efficiency in the product creation cycle and in the value-added chain, it is possible to produce visionary and economical high-end components with outstanding ecological properties.



- Optimized material selection
- Reduction of energy use
- Reduction of the logistic effort
- Comprehensive recycling of materials



■ Network management

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INMOLDNET

smart injection molding

Smart development chains
for resource-efficient
highly functionalized
injection molded hybrid components

Highly efficient development and production of high-end components in special injection molding



The demands placed on components and products are becoming more and more stringent - on the one hand due to governmental, economic and ecological restrictions, on the other hand due to increasingly complex consumer demands. In order for special injection molded components to survive on the global market, highly innovative processes are required for their development and manufacture.

International competence in special injection molding

The **INMOLDNET** network combines the expertise of five Polish and 19 German research and industry partners to develop and manufacture high-end components in a highly efficient manner. The products are applied directly at their destination without further downstream processes, thus securing European development and production locations.

Effects

- Optimal material combinations
- Minimum number of process steps
- Short cycle times
- Reduced development costs
- Innovative component properties
- Securing European development and production sites

Fields of competence

- Component design and calculation
- Process planning and simulation
- Assembly and joining technology
- Tool and mold making
- Plant engineering
- Drive and control technology
- Manufacturing and production
- Sensors and actuators
- Industry 4.0, (AI)
- Quality management
- Resource management

Development lines

Novel, highly functionalized hybrid components

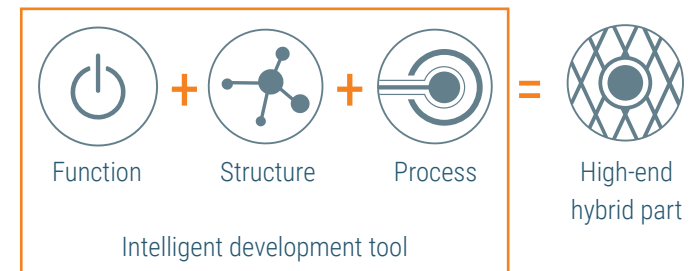
Development of resource-efficient injection-molded components and products using hybrid material systems and increasing the component- and product-specific functional density

Special injection molding technology

Development of resource-efficient injection molding technologies for the manufacture of highly functionalized components and products based on hybrid material systems

Self learning and networked development tool

Development of software to support networked development processes and the objective prioritization of product and process technologies



Optimized range of functions and properties