



INNOVATIVE STRATEGIC CLUSTER FOR THE SMART SPECIALISATION OF MECHATRONICS «MECHATREC»

Founded in 2010

Research & Development 13

Authorities 9



Catalyst institutions 22

Industry 100

IF YOU AIM FOR  
➔ BIGGER PROFIT...  
➔ MOR INNOVATIVE PROJECTS...  
➔ HIGHLY QUALIFIED WORKFORCE....  
JOIN OUR CLUSTER !

BECAUSE ...

We are involved in the partnerships with universities, research institutes, SMEs, chambers of commerce and regional development in promoting the field, enhancing the competitiveness of member organizations, , developing competences among higher learning graduates and stimulating innovation.



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COOPERATION

## Mission and vision:

The **Mission** consists in developing the cooperation of science and research with the business environment, in creating the proper conditions for innovation and technology transfer, for increasing the competitiveness of the members, aiding innovation for obtaining a profitable position within the value chains of regional, national and international research in the high-tech field of mechatronics, of internationalization of enterprises under a strong joint brand and promoting an environment adequate for research and production, attracting young experts who aim at a career in research; optimizing resources and attracting specialized workforce.

The **Vision** of Mechatrec cluster is that by 2020 it becomes one of the most credible service providers of innovative high-tech services and products in Europe and worldwide. The motto of the cluster - "Mechatronics for the future!" - shows the importance of the high-tech field, the training of the human capital in the area of research of excellence and of innovative research, as well as in the very activity of research and development, which is a generator of knowledge, of innovations and of advanced products and technologies that are connected to smart economic growth, but especially the importance of a cluster-like focus, featuring national and international vocation for the development of this innovative field.

MECHATREC Cluster runs its activity in the Region of Bucharest - Ilfov, Romania, having currently in its composition 144 entities: 13 R&D entities, 9 public authorities, 22 catalyzers and 100 enterprises.

## The idea...

"MECHATREC" Cluster actually develops the "innovative scientific cluster - NanoMecatronica" initiated in 2008. The need for increasing innovation at regional and national level created the new Cluster. MECHATREC is built on the principles and concepts of European structures type "four clover model", which bring together bodies in research, industry and local government.

## Objectives

- Supporting innovation in firms in the cluster structure;
- Economic competitiveness nationwide and abroad, promoting a policy of cooperation, both within the cluster and with other external organizations, based on a common strategy;
- coordination in defining common strategic objectives and specific actions, to achieve the proposed objectives;
- developing a common framework for the transfer of know-how and cooperation between partners in research - development of new products and advanced technologies;
- participation in various forms of association, in cooperation with other organizations, both domestic and international applications in projects of common interest;

The activities of the Cluster cover the NACE codes of the branches of precision mechanics and related fields. MECHATREC is placed at the size of small and medium enterprises in the sector of reference, that is - Mechatronics.

- collaboration with local authorities, regional and central authorities, in order to ensure sustainable development of the area;
- unitary development of all activities related to the established purpose.

## Strategic areas

- mechatronic, integronic, adaptronic and cyber-mixmechatronics high-tech intelligent equipment with technological features for measuring - adjustment and control;
- mechatronic, integronic, adaptronic and cyber-mixmechatronics devices and systems for intelligent medical and biomedical applications;
- mechatronic, integronic, adaptronic and cyber-mixmechatronics micro - nano - technologies;
- new intelligent materials, with micro - nanometric structure and special features and processing technologies;
- modular systems and innovative technologies;
- NEMS & MEMS advanced mechatronic, integronic, adaptronic and cyber-mixmechatronics devices;
- micro-sensors and nano -sensors;
- actuators and micro-nano-actuators;
- robotics and micro-nano-robotics;
- mechatronics and integronics applied industrially and commercially;
- adaptronics and cyber-mixmechatronics for future technology;
- intelligent measurement, calibration and testing techniques - functional trials;

The Development Strategy of MECHATREC cluster is on the same line with the horizontal policies, national policies and those of the European Union, on sustainable development and equal chances, and innovation.