

The National Institute of Research and Development in Mechatronics and Measurement Technique - INCDMTM

The National Institute of Research and Development in Mechatronics and Measurement Technique (INCDMTM) activates in the **scientific research area (both fundamental and applied)** as well as in the **technological development area** comprising **mechatronics and fine mechanics**. **INCDMTM** activity also focuses on elaborating **performing measuring techniques**. **INCDMTM** researchers' efforts are concentrated on developing various **conventional** and **un-conventional mechatronic products and technologies**. More, as a National Institute, **INCDMTM** contributes to attaining scientific and technological objectives stated by the National Research, Development and Innovation Plan (**PNCDI**) and the Nucleus Program. Together with the integration into the EU, INCDMTM aims at participating into as many competitions as possible and, consequently, respecting the eligibility criteria and being accepted. For reaching all these objectives, INCDMTM puts a great emphasis on **quality management**, ensuring that all the prerequisites it includes are respected.

The main activities covered by INCDMTM include:

- Intelligent mechatronic measuring techniques elaboration;
- Non-electric measure device producing;
- Medical instruments design;
- Investigation and analysis device developing;
- Laboratory and scientific research devices production;
- Micro-mechatronics, mechatronics and robotics product realization.

Divisions:

- ▶ Divisions and subordinated laboratories
- ▶ Accredited Laboratories
- ▶ Support Laboratories dedicated to research
- ▶ Office of International Relations
- ▶ CRTTC - RELAY CENTRE FOR TECHNOLOGY TRANSFER AND CONSULTING
- ▶ CIITT - Interregional Center of Innovation and Technological Transfer Iasi-Chisinau-Bucharest
- ▶ LE (Calibration laboratory) - pressure
- ▶ "NANOMECATRONICA" Cluster
- ▶ Intelligent Measurement Mechatronics
- ▶ Devices, Research
- ▶ Strategy, Development, Marketing and Technologic Transfer Department
- ▶ Interregional centre of innovation and technologic transfer Chisinău-Iasi-Bucuresti
- ▶ Innovating technologies
- ▶ Quality Management and Standardization department

Projects

<u>SISMOS</u>	Researches on advanced control techniques based on the analysis of errors and three-dimensional modeling for a high precision measurement of the complex surfaces
<u>DIASYS</u>	Vibroacoustic in-situ diagnose applied to industrial machines and equipments to constitute a predictive maintenance service
<u>LIL</u>	Project investments - pi
<u>PROTFORM</u>	Investment project, capacities, PNCDI-II, contract 51/2007 ANCS - National Authority for Scientific Research național budget allocated money amount: (lei): 1,871800
<u>LAITVM</u>	Metrological testing, trial and checking up laboratory-LAITVM
<u>UACUZ</u>	Intelligent and autonomous mechatronics equipment used in the removal of snow on secondary access roads in the urban environment
<u>ROAD WEATHER</u>	Autonomous modular system for the monitoring of weather conditions on roadways (temperature, barometric pressure, fog, glazed frost, snow, wind, pluviometry) - (road weather)
<u>SCEN</u>	Nanotechnological equipment calibration mecatronic system
<u>ORTODONT</u>	Poliaggregate orthodontic therapeutical studies ment to carry out acomplish the complex aspects of the deficiens in the maxilo fanel field (ortodont)
<u>EUROTMJ</u>	Promoting the integration of the romanian medical research in the european framework by assessing the degree of tmj health in the context of the efforts to improve the quality of live of the young population
<u>OSTEO-DISTRACT</u>	Promoting romanian research to european programmes in the area of using external fixing methods in distraction and osteoreconstruction in hemichondrodiasthesis, pseudarthrosis and lobster disease

<u>BIOIMPLANT</u>	Promotion of the romanian participation in the european research programs on cellular biology and biocompatibility at the tissue integration zone of the implant
<u>ROBEX</u>	Research and development of ultra-precise positioning systems with extended mobility
<u>OSTEO-CONTROL</u>	Increasing of international visibility of ramanian medical research in the field of orthopaedic and maxilo-facial reconstructive surgery through controlled osteosynthesis
<u>LIDM</u>	Development of the accreditation testing of medical device laboratory for extension of tests range, by direct related with the applicable 93/42/cee directive and national legislation
<u>IPCPMMA</u>	Development of the information platform to characterize the precision mechanics field, mechatronic and automation domains, for the increase of the competitiveness and optimization specific activities- development of a cooperative environment (IPCPMMA)
<u>BENCHMARK</u>	Creating a benchmarking network in order to use strategic, performance and process benchmarking to support economic reform, commerce for small and medium Enterprises - (BENCHMARK)
<u>INFOREC</u>	Computerized methods and equipments for monitoring the treatment of posttraumatic and post-operative affliction recovery
<u>CALORCRO</u>	Formation of a research integrated network in the field of methods and equipment for determining the caloric consumption during chronicle disease patients walking
<u>SIMPADA</u>	Intelligent measurement system for water supplies and waste water parameters, regarding the integrated water management
<u>APE</u>	Researches concerning modernization of intelligent and informational engineering by achieving high-tech devices without diaphragm, pneumatic and electronic operated, for dimensional measurements
<u>SMVACD</u>	Researches about of a high-tech integrated system for vibro-acoustical and dimensional control, for growth production quality and adaptability to client's requirements
<u>MASPROF</u>	Research for developing performant systems to monitor and control the rolling elements in order to improve maintenance and security of railway transport

<u>VIBROACLAB</u>	Creation and Accreditation of a Vibration-Acoustical Testing Laboratory According to the EU Directives to Evaluation of Noise and Vibrations Exposure of Population in the Natural and Industrial Environment
<u>EXLAB</u>	The Extension Of The Accreditation Domain Of The LAITVM Laboratory To The Evaluation Of The Conformity Of The Digital Manometers And Pressure Transducers, According To European Directives
<u>PRELCAR</u>	Accomplishment Of High-Resolution Mecatronic Systems For Handling, Transport And Control Of Products On Transfer Technological Lines
<u>MULTIFLEX – LASER</u>	Development Of A National Facility For Research And Technological Applications For Processing With Laser Beams
<u>ECOPAN</u>	Technological methods and procedures for executing phonoabsorbent and phonoinsulating panels destined for the decrease in phonic pollution caused by the transport means in highly populated areas
<u>(ECO-TOALETA)</u>	Research Concerning The Implementation of a watertight , vacuum ecological toilet system for the passenger cars in railways transportation
<u>DIAGNOZA</u>	Research concerning the diagnosis methods of the railways passenger cars with a view of improving the safety and security of railways transport
<u>CARBLAB</u>	Researches on the creation of a high precision integrated system needed for computerized investigations specific to hard-type composite materials
<u>SIMVAR</u>	Research concerning the development of complex systems for the measurement and the computerized processing of two variables of a technological process, aiming at improving the industrial applications – SIMVAR system