

# ORGANIZATION OF UKRAINIAN NATIONAL TECHNOLOGY PLATFORM ON ADVANCED MATERIALS (UNTPAM)

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# WHY ADVANCED MATERIALS?

- Priority areas of science and technology for the period till 2020  
(Law of Ukraine №2519 from 09.09.2010)

## ***Chapter 6: New substances and materials***

- State scientific and technical program "Nanotechnology and Nanomaterials"

- Complex programs of NAS of Ukraine:

"The fundamental problems of nanostructured systems, nanomaterials, nanotechnologies"

"Hydrogen in alternative energy and new technologies"

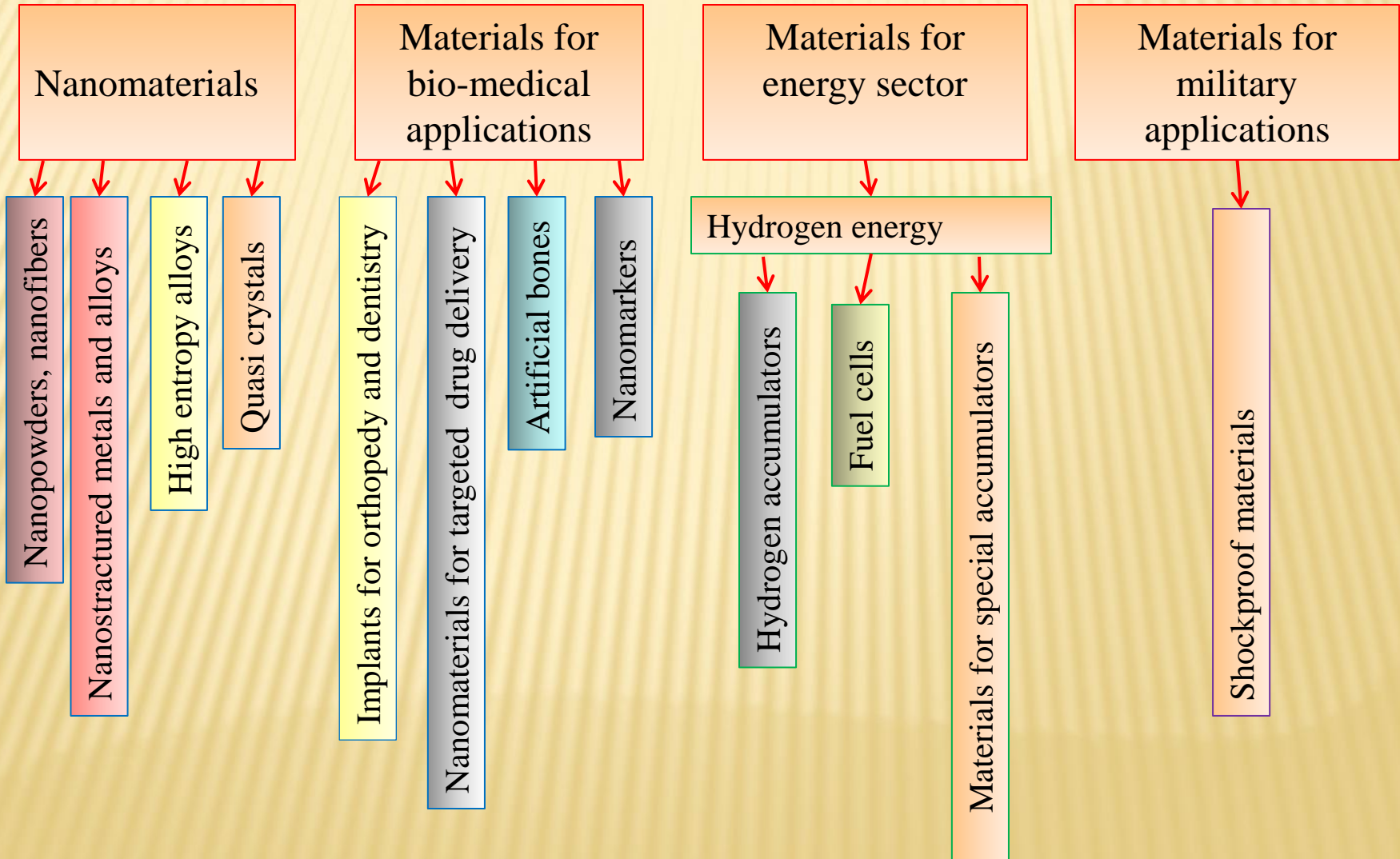
"New materials for chemical industry"

- Targeted program of Department of Physical and Technical Problems of Materials Sciences of NAS of Ukraine:

- "The fundamental problem of creating materials with predetermined properties, methods of connection and processing"

- Joint program of scientific and technology cooperation between NASU and DB YUZHNOE and State Enterprise "Antonov"

# THE MAIN GROUPS OF ADVANCED MATERIALS (DPTPMS OF NASU)



# THE MAIN GROUPS OF ADVANCED MATERIALS (DM OF NASU) IN COOPERATION WITH SE ANTONOV , DB YUZHNOE

New perspective aviation and composite materials

Materials with enhanced strength for aviation and space constructions

Light alloys and metal-based composites for heat protection of space systems

Various kinds of materials for electric jet engines

# THE MAIN STEPS OF UNTPAM ACTIVITY

- Formulating the database of potential participants ( research sector, industrial sector, business structures)
- Report about market needs
- Contacting with representatives of European Technology Platforms (EuMat, Nanofuture, Manufuture)
- Analyses of database of innovation projects
- Juridical preparations (signing of corresponding documents)

# THE MAIN AIMS

- Establishing business relations between materials science researches and materials manufacturers from one side and business representatives from another side;
- Presenting of detailed information about advanced materials research investigations;
- Issuing orders to perform aimed researches for practical needs ;
- Consolidation of advanced material national producers and research engineers efforts on innovation technologies in the field of materials science and common access to European and global markets.

# SOURCES OF UNTPAM ACTIVITY FINANCING

- resources of industrials partners;
- resources of government organizations;
- own resources .

Part of financing may be ensured due to cooperation with European Technology Platforms (cooperation with research and industrial European partners ).

# UNTPAM ACTIVITY COVERS ALL ELEMENTS OF SCIENTIFIC DEVELOPMENT LIFE CYCLE (FROM IDEA TO PRACTICAL REALIZATION)

- formulation the research problem;
- scientific developments for new technologies and new materials;
- solving the problem of innovative technologies transfer;
- brokering and marketing activities;
- legal issues;
- establishing of new enterprises, companies etc.



# UNTPAM TASKS AT THE STAGE OF ITS FORMATION

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- -Revision of the current state of production and science in the field of materials science: identifying available resources and potential possibilities.
- -Formation of requests for new technologies in the field of materials science, including nanomaterials and biomaterials: marketing researches of world and national needs for new technologies of such type materials and methods of their production.

- -Creating the conditions for active dialogue between all participants of the process, including analysis of the legal framework, establishing contacts with regional and city administration, organization of seminars, forums and symposia .
- -Focusing of collaborative efforts on existing innovative developments in the field of materials science, organization of consultations, trainings and "brainstorms".

# THE MAIN PRINCIPLES OF UNTPAM ACTIVITY

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- -acceleration of the practical implementation of the results of scientific researches through public-private partnerships;
- -creating of synergies between UNTPAM partners;
- -ordering the R&D by private companies.

# EXPECTED RESULTS

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- significant acceleration of implementation of scientific results;
- improving of scientific research funding;
- increasing of the number of working places;
- access to the European and world markets.

# POSSIBLE UNTPAM PARTICIPANTS:

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- industrial enterprises of all forms of properties;
- representatives of financial community (banks, funds, private investors);
- institutes of National Academy of Sciences of Ukraine, universities and high educational institutions;
- public organizations and representatives of industry

# ORGANIZATIONS INTERESTED IN UNTPAM ACTIVITY:

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- ✘ **Academician Institutes:**
- ✘ Frantsevich Institute for Problems of Materials Sciences ;
- ✘ Bakul Institute of Superhard Materials ;
- ✘ Institute of Physics;
- ✘ Lashkaryov Institute of Semiconductor Physics;
- ✘ Institute of Impulse Processes and Technologies ;
- ✘ Kurdyumov Institute of Metal Physics;
- ✘ Institute for Scintillation Materials;
- ✘ Nekrasov Institute of Black Metallurgy ;
- ✘ Verkin Institute of Low Temperatures Physics and Engineering;
- ✘ Bogatsky Physical and Chemical Institute.

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## ✘ Public organizations:

- ✘ Kharkov Technologies;
- ✘ Association of thermal power companies, “ALINEKA” company;
- ✘ Agency of European Innovations (Lviv).

# CONTACTS

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**THANK YOU FOR YOUR ATTENTION!**