

Maria Curie-Skłodowska University

— MANY POSSIBILITIES FOR DEVELOPMENT AND COOPERATION —



UMCS



Maria Curie-Skłodowska University (UMCS) was established in 1944, three months after the Nazi's occupation ended in Lublin (Poland), and named after one of the pioneers of science and Nobel prize recipients, Maria Curie-Skłodowska, the first woman who received this prize. She even received it twice from two different fields of science (Physics and Chemistry).



Currently, UMCS is the largest university in the eastern part of Poland, which serves as a cultural and opinion-forming factor and makes a significant contribution to building a knowledge-based economy.

Facts and figures

More than 75 years of tradition

2 830 employees, including 1 578 academic teachers

13 faculties in Lublin including the UMCS branch campus in Puławy

23 Institutes conducting research in various scientific disciplines



Facts and figures - continuation

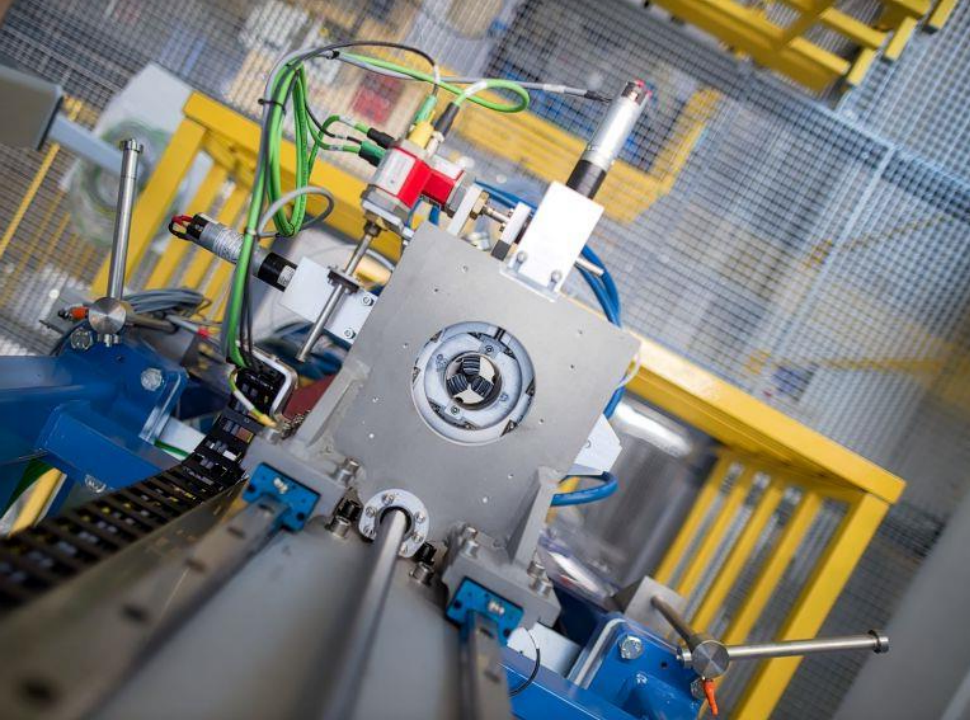
UMCS was granted the “HR Excellence in Research” award in 2017

Modern well-equipped labs and workshops

Achievements on the national and international levels

More than 100 patents





Facts and figures - continuation

Over 80 programmes on offer taught in Polish and English

More than 250 specializations available to choose from

More than 130 research clubs and university-wide organizations associating students and doctoral students

UMCS' Academic Sports Association – UMCS ASZ



Facts and figures - continuation

1 300 students who pursue sports at University Sport Clubs

2 500 vacancies in 9 dormitories

More than 200 agreements on scientific and educational cooperation with foreign partners

More than 330 Erasmus+ agreements





Facts and figures - continuation

16 971 students including
1 523 foreign students

275 doctoral students including
14 foreign doctoral students

More than
257 800 graduates students
4 500 graduates doctoral students

Average number per year
5 500 graduates students
50 graduates doctoral students



Examples of UMCS' cultural & recreational assets

UMCS' Botanical Garden & Kościuszków Manor

UMCS' Yacht Club

UMCS' Centre for Physical Culture

UMCS' Academic Culture and Media Centre „Chatka Żaka”

UMCS' Medial-Artistic Incubator: UMCS' TV & Radio Centrum 98,2 FM



Examples of UMCS' cultural & recreational assets

UMCS' Botanical Garden – established in 1965. The main task of this scientific-didactic unit is active protection of 7000 endangered species of plants. The garden is also a place of leisure and recreation.

UMCS' Yacht Club – established in 1976 and its goal is to organize tourism on water and provide active recreation to its members as well as organizing training cruises and courses for basic sailing degrees.

UMCS' Academic Sports Centre – over 40 sports sections, 9 league teams. Awards of Championships of Poland and Europe.

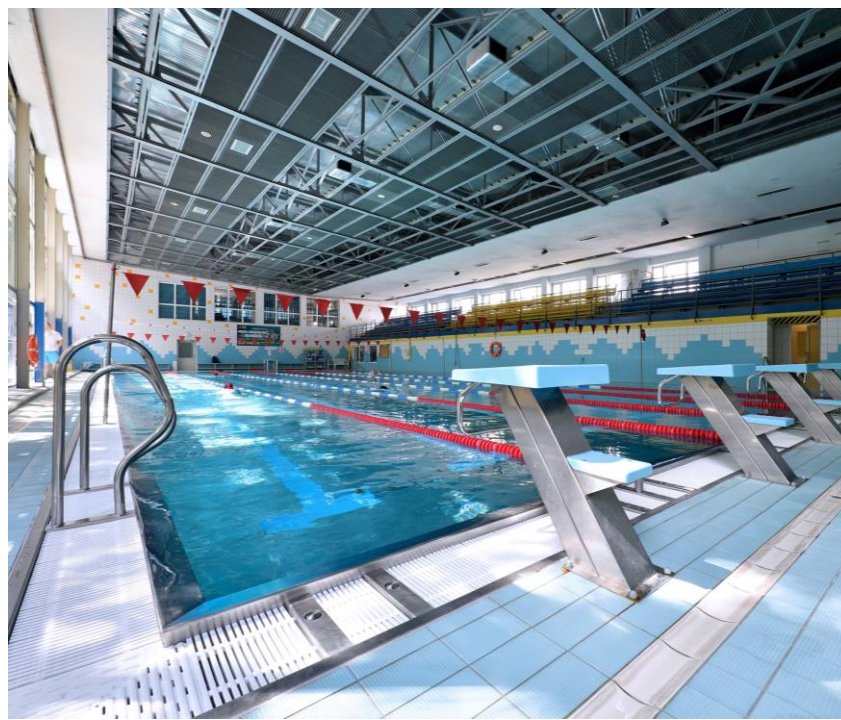


Examples of UMCS' cultural & recreational assets

UMCS' Academic Culture and Media Centre „Chatka Żaka” – a place where the events in almost all artistic domains take place (music, theatre, film visual arts, literature, radio).

UMCS' Medial-Artistic Incubator – a unique digital facility in the Eastern Poland. The facility comprises: Radio studio, TV studio, multifunctional performance hall, translation rooms and multipurpose computer lab.











UMCS in the network of European Universities ATHENA

The Consortium of European Universities operates on the basis of partnerships of higher education institutions of the regions of the European Union, which, by cooperating with each other, carry out activities that benefit the students, scientists and societies. This cooperation strengthens the academic exchange, among others by running joint study programmes, projects or trainings.



UMCS in the network of European Universities ATHENA

There are currently seven universities affiliated within the ATHENA network:

1. Politécnico do Porto, Portugal
(Project Coordinator)
2. Hellenic Mediterranean University, Greece
3. Universität Siegen, Germany
4. Univerza v Mariboru, Slovenia
5. Università Degli Studi Niccolò Cusano Telematica Roma, Italy
6. Université d'Orleans, France
7. Vilniaus Gedimino Technikos Universitetas, Lithuania
8. Maria Curie-Skłodowska University, Poland
9. University of Vigo, Spain





EDUCATION



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Welcome Center UMCS is a place of first contact for foreign students who came to Poland to study at the largest university in eastern Poland. They can obtain the necessary knowledge and tools for full integration with the academic community of UMCS and Lublin.



Main tasks of UMCS' Welcome Center:

- Contact and information point for foreign students and visitors
- Providing assistance and mentoring to foreign students
- Organization of integration and educational events
- Supporting the internationalization of UMCS



Examples of UMCS' educational assets

13 UMCS' FACULTIES offers over 80 programs with more than 250 specializations and more than 70 postgraduate programmes.

UMCS' EDUCATION AND STUDY SERVICE CENTER is responsible inter alia for supervising and coordinating the education process at first and second cycle studies, long-cycle master's studies, doctoral studies and postgraduate schools, training courses.

UMCS' INTERNATIONAL STUDENT OFFICE is responsible for handling affairs of foreign students as well as coordination of student's exchange programs.



Examples of UMCS' educational assets - continuation

UMCS' RESEARCH INFRASTRUCTURE to provide its students with modern teaching/learning facilities and its academics with a research base, UMCS has at its disposal modern infrastructure and equipment in numerous laboratories at Institutes of Chemical Sciences, Physics, Biology Sciences, Earth and Environmental Sciences as well as in the Analytical Center for Technologically Advanced Environmentally Friendly Research ECOTECH COMPLEX.



UMCS PROVIDE EDUCATION AT 13 FACULTIES

1. Faculty of Arts
2. Faculty of Biology and Biotechnology
3. Faculty of Chemistry
4. Faculty of Earth Sciences and Spatial Management
5. Faculty of Economics
6. Faculty of History and Archeology
7. Faculty of Law and Administration
8. Faculty of Mathematics, Physics and Computer Science
9. Faculty of Pedagogy and Psychology
10. Faculty of Philology
11. Faculty of Philosophy and Sociology
12. Faculty of Political Science and Journalism
13. UMCS Branch Campus in Pulawy

UMCS' FOREIGN STUDENTS ARE PROVIDED WITH

Internationally-recognized degree – diplomas issued by UMCS recognized in the European education market

High-standard 9 dormitories

Professional **guidance** provided by the International Student Office (speaking: English, Ukrainian, German, Spanish and Russian)

Scholarship opportunities

Multicultural environment tuition-free places for best applicants



UMCS' FOREIGN STUDENTS ARE PROVIDED WITH

Tuition-free places for best applicants

One-Year Preparatory Course for foreigners who wish to study in Poland

Summer School of Polish Language and Culture high quality of teaching based on European standards

SSAN – Senior Student Advisory Network providing assistance from senior students to new students

Many opportunities for scientific, sports, and cultural development



PROGRAMMES IN ENGLISH:

Programme	Degree	Duration (years)	Faculty	Fees* (per year)
Biology , Specialization: Medical Biology	Bachelor	3	Faculty of Biology and Biotechnology	1 st year – 4000 EUR* 2 nd year – 3800 EUR 3 rd year – 3800 EUR
Business Analytics	Bachelor	3	Faculty of Economics	1 st year – 2700 EUR* 2 nd year – 2500 EUR 3 rd year – 2500 EUR
International Relations	Bachelor	3	Faculty of Political Science and Journalism	1 st year – 2200 EUR* 2 nd year – 2000 EUR 3 rd year – 2000 EUR
Tourism Management	Bachelor	3	Faculty of Earth Sciences and Spatial Management	1 st year – 2200 EUR* 2 nd year – 2000 EUR 3 rd year – 2000 EUR
Technical Physics	Bachelor	3,5	Faculty of Mathematics, Physics and Computer Science	1 st year – 3200 EUR* 2 nd year – 3000 EUR 3 rd year – 3000 EUR
Sustainability Management	Bachelor	3	Faculty of Biology and Biotechnology	1 st year – 3200 EUR* 2 nd year – 3000 EUR 3 rd year – 2000 EUR
Chemistry	Master	2	Faculty of Chemistry	1 st year – 2200 EUR* 2 nd year – 2000 EUR
Data Science	Master	2	Faculty of Economics	1 st year – 2200 EUR* 2 nd year – 2000 EUR
International Relations	Master	2	Faculty of Political Science and Journalism	1 st year – 1750 EUR* 2 nd year – 1550 EUR
Intercultural Communication in Education and the Workplace	Master	2	Faculty of Humanities	1 st year – 1750 EUR* 2 nd year – 1550 EUR
Graphic Arts	Master	2	Faculty of Arts	1 st year – 3200 EUR* 2 nd year – 3000 EUR
IT Cyber security	Master	2	Faculty of Political Science and Journalism & Faculty of Mathematics, Physics, IT	1 st year – 3400 EUR* 2 nd year – 3200 EUR

*Admission fee of 200 EUR for non-EU citizens (85 zł/20 EUR for EU citizens) is included.

*ECTN European Accreditation



ACCOMMODATION & THE CAMPUS

The UMCS campus is a complex of buildings situated in close proximity of the University's teaching buildings and the city center. It consists of the UMCS dormitories, private dormitories, the UMCS Center of Physical Culture, the Academic Culture Center and the university-owned Academic Park. The cost of accommodation in our UMCS dormitories is about 70-100 EUR per month.

Some students arriving in Lublin also choose to rent an apartment instead of living in a dormitory. Prices range from 120 EUR for a room to 350 EUR for a whole flat (per month).









UMCS' lists of fields of study with double diploma

INTERNATIONAL AND EUROPEAN UNION

with University of Lorraine, France

POLISH-GERMAN CULTURAL AND TRANSLATION STUDIES

with University of Potsdam, Germany

POLITICAL SCIENCE, INTERNATIONAL RELATIONS, JOURNALISM or SOCIAL COMMUNICATION

with National University of Taras Shevchenko, National University Yuri Fed'kovych, National University Vasyl Stefanyk and Lviv National University Ivan Franko, Ukrainian



UMCS eagerly participates in international programmes such as

- EU Framework Programmes
- Erasmus Plus
- Gruntvig Lingua
- Jean Monnet for Poland
- The Baltic University Programme
- Polish- U.S. Fulbright Commission

UMCS' DOCTORAL SCHOOLS

THE DOCTORAL SCHOOL OF HUMANITIES

Archeology; Philosophy; History; Linguistics; Literary Studies; Culture and Religion Studies; Music; Fine Art and Art Conservation

THE DOCTORAL SCHOOL OF SOCIAL SCIENCE

Economics and Finance; Social Communication and Media; Political Science and Public Administration; Management and Quality Sciences; Legal Sciences; Socio-Economic Geography and Spatial Management; Sociological Sciences; Pedagogy; Psychology

THE DOCTORAL SCHOOL OF QUANTITATIVE AND NATURAL SCIENCES

Mathematics; Biological Sciences; Chemical Sciences; Physical Sciences; Sciences Connected with the Earth and the Environment (Earth and Environmental Sciences); Agriculture and Horticulture





UMCS ranked 1st among other universities in the region
in terms of graduates most sought after by employers



SCIENTIFIC RESEARCH

Examples of UMCS' research assets

23 RESEARCH INSTITUTES with advanced research infrastructure, comprising 1 578 academic teachers, including 1 271 researchers carrying out research in 23 different scientific disciplines.

15 UMCS' scientists are included in TOP 2% list, the prestigious ranking of the most influential people of science in the world. The TOP 2% list contains the names of scientists from around the world whose publications are most often cited by other authors.

UMCS' researchers publish on average **2 500 publications per year**.





Examples of UMCS' research assets - continuation

More than 200 agreements with universities from 48 countries for cooperation with UMCS.

UMCS' SCIENTIFIC RESEARCH CENTER provides support for applying, supervising and implementing research projects at UMCS.

UMCS' INTERNATIONAL COOPERATION CENTER serves as a central contact point for scientists who want to develop international cooperation with our University in any field of research.



Examples of UMCS' research assets - continuation

UMCS Center for Climate Change and Environment Research (CeReClimEn Center) established in 2021 is a platform for interdisciplinary, interinstitutional and international cooperation, operating in the consortium formula bringing together leading scientific institutions from Poland and abroad interested in conducting joint scientific research and undertaking promotional and educational activities in the field of climate and environmental changes (concerning, inter alia, climate reconstruction, climate change modeling, research on its social, economic and political effects).





UMCS scientists conduct research not only in Poland but also in 48 countries. Geographers have been conducting advanced climate research in Norway since 1986. In 2021 was held the 29th Polar Expedition to Spitsbergen.

International societies and research networks with UMCS as a member, e.g.

- ❑ European University Association
- ❑ European School of Sustainability Science and Research
- ❑ EUniverCities Network
- ❑ European Consortium for Political Research
- ❑ The Baltic University
- ❑ Central European Exchange Program for University Studies
- ❑ International Political Science Association
- ❑ International Relations Offices Forum
- ❑ ASTP Proton

UMCS' research offer

- ❑ **Visual arts and music:** fine arts (graphics, painting, drawing, sculpture, photography, intermedia, multimedia, animation), art design (ceramics, glass, molding), conducting (choral and instrumental), instrumental (classical/jazz), singing (classical/jazz), composition and theory of music;
- ❑ **Biological sciences:** genetics and microbiology, plant physiology and biophysics, industrial and environmental microbiology, cell biology, animal physiology and pharmacology, virology and immunology, botany, mycology and ecology, zoology and nature protection, immunobiology, functional anatomy and cytobiology, biochemistry and biotechnology, molecular biology;



UMCS' research offer - continuation

- ❑ **Chemistry:** thermal analysis, characterization of materials, broadly surface engineering, colloidal systems, voltammetric sensors of metal ions and biologically active compounds, molecular complexes and coordination polymers based on transition and lanthanide metals, structural studies of new crystalline phases by X-ray crystallography, material chemistry, biochemistry, pharmacy, analysis and identification of natural organic compounds, Computational Quantum Chemistry, chromatographic analysis, sorption and separation of metal ions, Raman spectroscopy, Atomic Force Microscopy, X-Ray Photoelectron Spectroscopy, Optical profilometry, optical fibers technology, optical materials technology (Laboratory of Fiber Optic Technology);



UMCS' research offer - continuation

- ❑ **Economics:** economics, finance and accounting, logistic, management and quality studies;
- ❑ **Philosophy and sociology:** multimodality studies, cognitive semiotic studies, aesthetics and finances, expert knowledge and decision making, sociology;
- ❑ **History and archeology:** classics, mediaeval history, early modern, modern and contemporary history, methodology of history, records management, history didactics, prehistoric, early-historical and modern archeology, non-invasive research of archaeological sites;



UMCS' research offer - continuation

- ❑ **Philology and cultural studies:** linguistic and literary interests, and, to a lesser degree, culture studies, religion included, as well as translation issues and teaching foreign languages, teaching Polish and teaching Polish culture as elements of the school/university curriculum, cultural studies;
- ❑ **Mathematics:** mathematical, complex and functional analysis, probability theory and mathematical statistics, ordinary and partial differential equations and queuing theory;



UMCS' research offer - continuation

- ❑ **Physics:** biophysics, Physics, material science, solid state physics, electronics, photonics, surface science and engineering, astrophysics, gravitation theory, theoretical nuclear physics, theory of condensed matter, mathematical physics;
- ❑ **Computer Science:** developing high performance computing software for multicore, GPUs, hybrid systems and clusters, analyzing big-data using machine learning techniques;



UMCS' research offer - continuation

- ❑ **Earth and environmental sciences:** hydrology, meteorology, climatology, soil science, geomorphology, mineralogy, sedimentology, geographic information systems (GIS) and terrestrial (field) laser scanning (TLS);
- ❑ **Socio-economic geography and spatial management:** human geography, spatial management, cartography, tourism;
- ❑ **Pedagogy and psychology:** neuropedagogy, teacher and student of early school education, education and rehabilitation of people with disability, development of human resources, educational psychology and psychological assessment, emotions and personality, clinical psychology and neuropsychology;



UMCS' research offer - continuation

- ❑ **Law and administration:** international, European and national law, criminalistic aspects of evidence law;
- ❑ **Political sciences and media studies:** international relations, security dilemma, diplomacy, food security, the “spatial turn” in international relations, human right to food and adequate nutrition, biopiracy, biotechnology– legal and social dimension, energy interdependence, International Memory Studies, anthropology of digital media art, film analysis, health communication, mediatization, mediolinguistics, social marketing.



Information on obtained external funds for research projects by employees, doctoral students, and students of UMCS

UMCS' national research projects:

- 219 projects completed in 2016-2022 for the amount of 53 053 437 PLN
- from 2022, at least 117 implemented / completed projects for the amount 55 003 593 PLN

UMCS' international research projects:

- 61 projects completed in 2016-2022 for the amount of 7 030 974 PLN
- from 2022, at least 25 implemented / completed projects for the amount 12 468 106 PLN

TOTAL: 127 556 110 PLN (approx. 27 mln EUR – the external funds)



Examples of international research cooperation

- ❑ Horizon 2020 projects and longlasting collaboration on photonics in consortium ACTPHAST involving 25 of Europe's leading photonics research institutions coordinated by Vrije University in Brussel;
- ❑ coordination of interdisciplinary Horizon 2020 Twinning project bringing together social and IT sciences with the support of KU Leuven and Macerata University entitled „Preserving Fundamental Rights in the use of Digital Technologies for e-Health Services”;
- ❑ Polish-Chinese cooperation in physics, biotechnology and environmental sciences (SHENG projects, bilateral agreements on research mobilities);

Examples of international research cooperation - continuation

- ❑ Polar research and cooperation in Arctic Science, eg. Polish-German project „Sustainable Urban Development in the European Arctic (SUDEA): Towards Enhanced Transnational Cooperation in Remote Regions”;
- ❑ International, comparative research on the role of industrial relations in the context of migrant work in the countries of Central and Eastern Europe under projects financed by European Commission (BARMIG, SMUG);
- ❑ Numerous bilateral collaboration in all science disciplines financed by NAWA, Visegrad Fund and other institutions.



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COMMERCIALIZATION AND BUSINESS COOPERATION

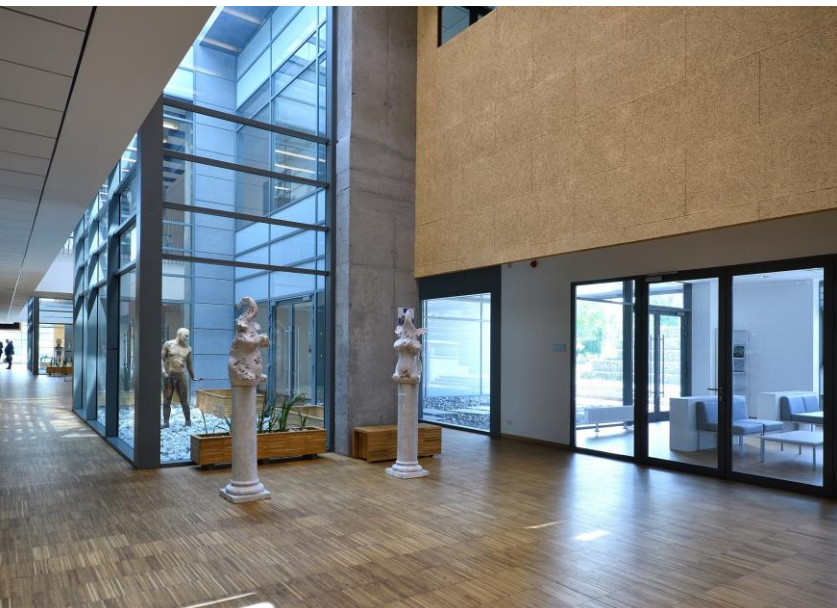
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Example of UMCS' bussines assets

UMCS' infrastructure with 13 Faculties, 23 Research Institutes, a many support central units, 2 823 employees and more then 100 patents.

UMCS Analytical Center for Technologically Advanced Environmentally Friendly Research (ECOTECH-COMPLEX) – has unique conditions for scientific research and the provision of research services for industry on a world-class level. The research conducted at ECOTECH-COMPLEX focuses on the following areas: agriculture, food, environmental protection, and biomedicine, which are in line with smart specializations of Lubelskie Region (RSI).





ECOTECH-COMPLEX Center – an area where research, business, and art have their place

Example of UMCS' bussines assets - continuation

Laboratory of Optical Fiber Technology conducts advanced research, inter alia research on new types of optical fibers sensor technologies for medical applications, including side-hole optical fibers.

The Analytical Laboratory of the UMCS' Faculty of Chemistry offers commercial and research activities, conducts also general training and consulting services in the field of implementation of management systems according to PN-EN ISO / IEC 17025 and the preparation of research laboratories for accreditation.



Example of UMCS' bussines assets - continuation

UMCS CeReClimEn Center - was created not only to conduct interdisciplinary research, but also to facilitate the process of commercialization and cooperation with business at the international and interinstitutional level.

UMCS' Knowledge and Technology Transfer Center – responsible for facilitation and practical application of research results.



Some of UMCS' bussines Partners



A one-stop shop contains the three-step cycle for Business Partners interested in academic R&D with UMCS

1. SELECTION

Regular review of promising research projects, pre-selected by a dedicated broker and decision on most interesting projects for further joint development

2. DEVELOPMENT

Establishing a Development and Mentoring Plan for a project Execution of the Plan



3. DEAL

Negotiations of terms and conditions



Step 1: Selection



- Decks of a few (< 10) slides with non-confidential information sent to a Business Partner



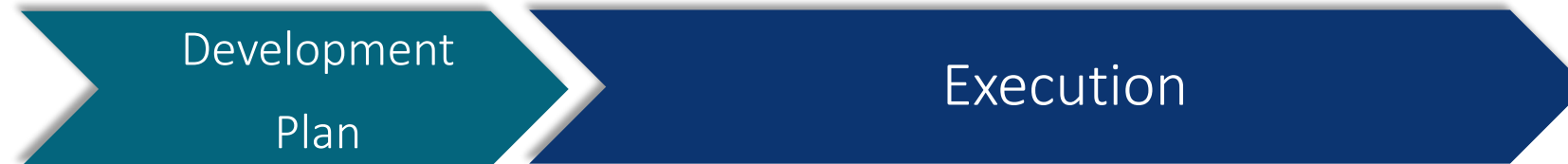
- Call with academics and a Business Partner to give feedback
- 3 options: YES, Maybe, NO
- Receiving additional data from TTOs, if necessary



- Call with academics and a Business Partner to make a go/no-go decision and feedback



Step 2: Development



- Setting goals by a Business Partner
- Establishing a working group, and a development and mentoring plan between a Business Partner and a TTO/University



- Execution of the Development Plan
- Status reports from KAM
- Mentoring from experts from Business Partner's side



Step 3: Deal



- Proposal with terms and conditions on IPR



- Talks between an Investor and a TTO



- Signing an agreement between an Investor and a University



Examples of UMCS' patents

- ❑ WAXO – Innovative wax analyzer is a portable electro-mechanical device allowing the wax analysis, e.g. beeswax, to determine the quality of beeswax tested for the presence of artificial admixtures and assess its usefulness, in particular for beekeeping.
- ❑ Protein-sugar fraction of the celomatous fluid of the earthworm *Dendrobaena veneta* for use in the treatment of lung cancer.
- ❑ A strain of bacteria "*Rhizobium leguminosarum* bv. *trifolii* KC3" and its application for fertilization of legumes in the process of biological reclamation of soils contaminated with heavy metals.
- ❑ Plant preparations for the treatment of nosemosis in bees and for improving their immunity.

Some UMCS' offers for business cooperation

- Joining the group of partners substantively implementing the cooperation offered by the UMCS CeReClimEn Center;
- Substantive joining to the development of the project on the study of the carbon footprint in manufacturing companies;
- cooperation in the field of applying for EU funds regarding the so-called green logistics.



UMCS' company for special purposes SYNERGIA UMCS Ltd.

- Indirect commercialization / Spin-off zone
- Training and mentoring services
- Headhunting
- Commercial business consulting
- Searching and matching business partners
- Organization of events and conferences





Thank you for your attention,
and we invite you to develop and cooperate with UMCS!