



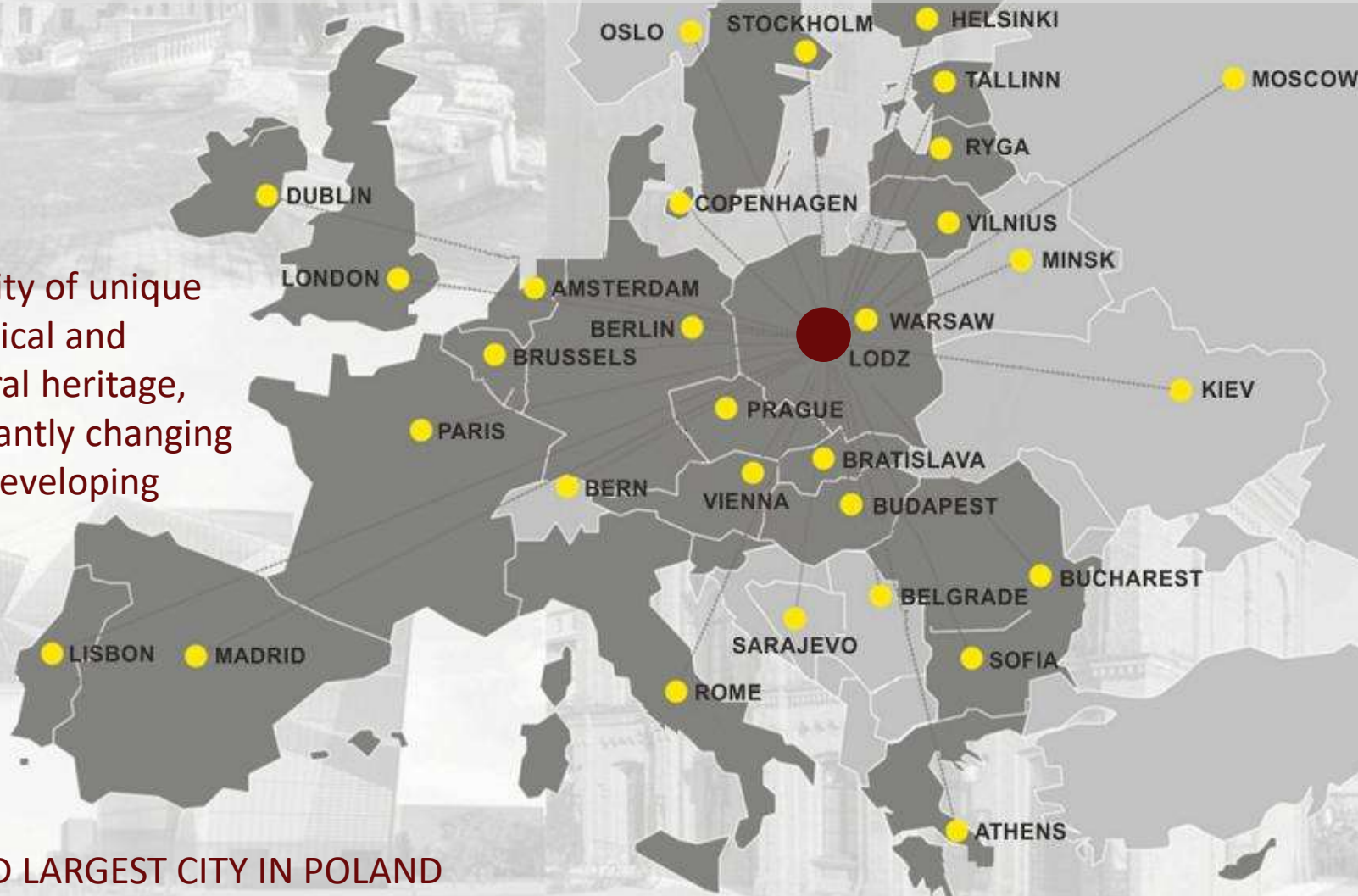
YEARS OF  
LODZ UNIVERSITY  
OF TECHNOLOGY



EDUCATION, RESEARCH, INNOVATION  
LODZ UNIVERSITY OF TECHNOLOGY

# LODZ IS SITUATED IN THE CENTRE OF EUROPE ONE OF POLAND'S BIGGEST CITIES

The city of unique  
historical and  
cultural heritage,  
constantly changing  
and developing



THIRD LARGEST CITY IN POLAND  
over 705 000 citizens in Lodz



# LODZ A UNIVERSITY CITY

Lodz a University City:

- 23 public and private universities
- 90 732 students
- 24 739 graduates

The biggest public universities in Lodz:

- University of Lodz,
- Lodz University of Technology,
- Medical University in Lodz.



# [ ŁÓDŹ THE BEST- CONNECTED CITY IN POLAND ]

**0h**

to Reymont Airport  
(within citi limits)

**1h**

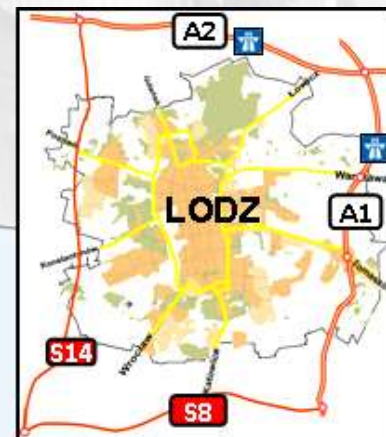
to Chopin Airport  
(via motorway)

**2h**

to Warsaw by train  
(22 trains/day)

**3h**

to major cities  
in Poland



## STRATEGIC CROSSROADS:



**A1**

NORTH – SOUTH  
GDANSK-VIENNA



**A2**

WEST- EAST  
BERLIN-MOSCOW

## EXPRESS ROADS:



S8 and S14

# [ WHAT MAKES US STAND OUT? ]

[ **211** projects  
carried out in 2017 ]

[ **313**  
professors ]

[ **856** inventions  
and utility models  
filed in 2008-2017 ]

[ **532** patents  
granted in 2008-2016 ]

[ **573**  
PhD students ]





# HOW ARE WE DIFFERENT?

- 32 ha in the center of the city. Contemporary and revitalised post-industrial buildings surrounded by greenery. Villas and palaces that once belonged to industrialists right next to steel-glass structures. This is what makes Lodz University of Technology stand out from other Polish universities.
- Lodz University of Technology:  
1 234 academic staff, 14 936 students, 661 Ph.D. students,  
110 000 graduates,  
  
54 fields of study, 9 faculties  
International Faculty of Engineering (IFE),  
International Doctoral School (IDS)



# [ DISTINCTIONS ]

- 6th MOST FREQUENTLY SELECTED UNIVERSITY according to Ministry of Science and Higher Education report
- INTERNATIONAL DOCTORAL SCHOOL OF TUL GETS LUMEN AWARD (LEADERS OF UNIVERSITY MANAGEMENT AWARD) FOR INTERNATIONALIZATION organized by the Perspektywy Education Foundation and PCG Polska

# [ AWARDS AND DISTINCTIONS ]



**Lodz University of Technology is ranked in the two most prestigious and most frequently referred to university rankings:**

- the QS World University Ranking,
- Times Higher Education World University Ranking Golden Age 2019 (THE WUR Golden Age 2019).



The rankings are prepared by Quacquarelli Symmonds.



# [ AWARDS AND DISTINCTIONS ]



Lodz University of Technology is the first university in Poland to have been awarded institutional accreditation by the **French Supreme Council for the Evaluation of Scientific Research and Higher Education**. The HCÉRES certification is a confirmation of the high quality of education, research, and management.



Lodz University of Technology, as one of three Polish universities of technology, has been ranked for the first time in the **RUR (Round University Ranking) World University Rankings**.

# [ NAGRODY I WYRÓŻNIENIA ]



- The **ELSEVIER Research Impact Leaders Award** is granted to outstanding research institutions that make the greatest impact on scientific research and contribute to the promotion of Polish science in the world.

**Lodz University of Technology has been awarded in the category of Agricultural Sciences.**

- The **LUMEN. Leaders in University Management Awards** for Lodz University of Technology in the category of Management.



# [ AWARDS AND DISTINCTIONS ]



URZĄD PATENTOWY  
RZECZYPOSPOLITEJ POLSKIEJ



HR EXCELLENCE IN RESEARCH

- Lodz University of Technology ranks **3rd** among Polish universities in the number of patent applications filed and granted.  
In 2017, Lodz University of Technology filed **97 patent applications**, all of which were granted.
- The European Commission awarded the **HR Excellence in Research** badge to Lodz University of Technology for ensuring attractive work and development conditions for researchers, which confirms that the University abides by the principles set down in the European Charter for Researchers and Code of Conduct for the Recruitment of Researchers. TUL is the first university of technology and the third academic school in Poland to be recognized by the EC.



# EUA INSTITUTIONAL EVALUATION



- Lodz University of Technology is one of the three Polish universities to have undergone **EUA institutional evaluation**.
- The EUA - IEP quality mark is recognized throughout Europe. It increases visibility and attractiveness of the University in the European Research Area and its capacity for membership of international research teams, networks, and consortia.
- The evaluation is granted for 5 years.

# INTERNATIONAL ACCREDITATION



- As many as five fields of study in which Lodz University of Technology offers degree programs, namely architecture, automatic control and robotics, materials engineering, technical physics, and information technology, have been granted accreditation by the **Accreditation Commission of Universities of Technology (KAUT)** and the **European Network for Accreditation of Engineering Education (ENAAEE)**.
- The following degree programs have been awarded the **EUR-ACE® Label (EUROpean ACcredited Engineer)**:  
the first- and second-cycle degree programs in Civil Engineering and the first-cycle degree program in Management and Production Engineering and Chemical Technology.



# INTERNATIONAL ACCREDITATION

- Responding to the call for applications under the International Accreditation competition, Lodz University of Technology submitted 17 applications to the Ministry of Science and Higher Education and has been the most productive in applying for international accreditations.
- The University has applied, among others, for:  
a prestigious American accreditation – ABET, European EUR-ACE Label, and also for the possibility of HKIE and HCERES accreditations.



# SCIENCE AND RESEARCH

**„Advanced technologies of sustainable development”**

is the principal theme of research conducted at TUL.

It encompasses 6 major research areas:

- **Advanced materials technologies.**
- **Energy, environment and infrastructure.**
- **Information technologies.**
- **Production, human resources and finance management systems.**
- **Industrial biotechnology.**
- **Biomedical engineering.**

# ICT CENTRAL POLAND CLUSTER

- Owing to the initiative of Lodz University of Technology, the **ICT Central Poland Cluster** was instituted that brings together 40 ICT enterprises and three largest universities in Łódź: Lodz University of Technology, the University of Lodz, and the University of Social Sciences.
- **Companies associated in the Cluster have a total headcount of 17 000.**
- The mission of the ICT Central Poland Cluster is to represent and integrate broadly understood ICT industry encompassing representatives of business, academia and business environment institutions locally, nationally and internationally in order to enhance its standing in the region, create conducive conditions for its further dynamic growth, and joint projects.



# ICRI-BIOM CENTRE OF EXCELLENCE

- The Foundation for Polish Science, in the MAB PLUS competition, awarded a grant to fund the **International Center for Research on Innovative Bio-based Materials (ICRI-BioM)** in Łódź.
- This is a claim to fame of a large group of people who prepared the application, and of **Lodz University of Technology** and **Max Planck Institute in Mainz** who supported it.
- The International Research Agenda will facilitate above-average research collaboration and involve international researchers in the education of students and PhD students. The Centre will provide excellent opportunities for student placements and doctoral research projects, and may be a source of their funding.



# [ STRATEGY „5G for POLAND” ]

- The Ministry of Digital Affairs, in its document „**Strategy 5G for Poland**” selected Łódź for a pilot implementation of a 5G network.
- Lodz University of Technology campus will be a testing ground. In addition, on TUL’s campus, a competence centre will be opened where start-ups will have the opportunity to test their products in relation to 5G technology.
- The document was signed by the Ministry of Digital Affairs, the Office of Electronic Communications, and the National Institute of Telecommunications

# [S5-Akcelerator Technologii 5G]

- The „Akcelerator technologii 5G” project is aimed at providing conditions for the development of **5G innovation for business**.
- An agreement has been signed by the Łódź Special Economic Zone (ŁSSE), Lodz University of Technology, Office of Electronic Communications, Ericsson, and Play – P4 Sp. z o.o. mobile network operator.
- The ŁSSE has been granted 14 million złoty for start-up support from the Regional Operational Program for Łódzkie Voivodeship.

## SUPPORT FOR RESEARCHERS

Lodz University of Technology implements an active policy of intellectual property management in the process of technology development and commercialization and in research project management.

- **Center for Technology Transfer** - a University company which coordinates transfer and implementation of technologies and solutions for industry.
- **Interdisciplinary School of Innovation (ISI)** is a programme aimed to stimulate, support and encourage academic entrepreneurship and creation of new, innovative, marketable solutions. Its activity is expected to result in spin-off companies and enable preincubation of ideas with a market potential.





# [ TECHNOLOGY TRANSFER ]

- over 50 laboratories equipped by industry
- 450 R & D projects carried out in collaboration with 230 business partners
- **TECHNOLOGY TRANSFER CENTRE, LTD.**  
Technology Transfer Centre, Ltd. is the first technology transfer company in Poland operating within the University. Established in August 2009.



# FACULTIES INTERFACULTIES UNITS



- Mechanical Engineering
- Electrical, Electronic, Computer and Control Engineering
- Chemistry
- Material Technologies and Textile Design
- Biotechnology and Food Sciences
- Civil Engineering, Architecture and Environmental Engineering
- Technical Physics, Information Technology and Applied Mathematics
- Management and Production Engineering
- Process and Environmental Engineering
- International Faculty of Engineering (IFE)



# INTERNATIONAL COOPERATION CENTRE

- **The International Cooperation Centre** was established to facilitate international actions.
- The aim of the unit is to involve the University in the process of creation of the European Higher Education, to promote Polish education abroad, to strengthen international standing of TUL, to support the process of TUL's internationalization by supporting international mobility of students and academic teachers, organizing international projects to be carried out at TUL, and also by strengthening TUL's participation in international educational, scientific and organizational networks and associations



# [ INTERNATIONAL FACULTY OF ENGINEERING ]

- The main objective of the Faculty is to **educate professional engineers and managers, fluent in foreign languages, able to apply their knowledge in science, engineering, technology and business.**
- At present, there are over **1000 students** at the faculty. The students have the opportunity to obtain double diplomas, one from TUL and the other from a partner university in France, Holland, Great Britain, Denmark and other European countries. TUL is the leader of student exchange.





# [ INTERDISCIPLINARY DOCTORAL SCHOOL ]

- TUL is committed to internationalization of research and education at the Ph.D. level.

**The INTERDISCIPLINARY DOCTORAL SCHOOL (IDS)** operating at TUL's faculties offers doctoral programmes in science and technology. Each student enrolled at the IDS follows an individual doctoral programme which includes scientific courses, additional courses such as academic writing in English, scientific communication, project management and a foreign language course.

- Katarzyna Pernal, PhD, DSc, the director of the Interdisciplinary Doctoral School of Lodz University of Technology, has been recognized for the implementation of a new organizational unit with the **LUMEN 2015 award in the area of internationalization.**

# DESIGN THINKING (DT4U) SHORT FAST TRACK TO DEGREE



- **DESIGN THINKING (DT4U)** is the only laboratory in Poland dedicated to creative problem solving with the application of the Design Thinking method. Lodz University of Technology is the first higher education institution in Poland to have formally introduced this effective and much coveted by employers method into its curriculum.
- **SHORT FAST TRACK TO DEGREE** is a project created especially for the most talented students of Lodz University of Technology. Its main objective is to facilitate their research career and enable their participation in research projects.



# [ „INTEGRATED PROGRAMME” PROJECT ]

- The project's objectives include implementation of new curricula, raising staff competences, facilitation of education management, and also development of an innovative model of education, the so called „flipped education” with the participation of international experts.
- The University plans to redesign 30 modules of education included in 9 programmes of study.
- By 2022, 1700 students and 300 staff (teaching and administrative) will have participated in the project.



# OUR INVESTMENTS

- **SPORTS BAY – ZATOKA SPORTU** is one of the most modern sports facilities in Poland:
  - 50-metre olympic pool,
  - 30-metre moving floor pool,
  - 17-metre climbing wall (one of the highest in Poland),
  - fitness center,
  - entertainment and sports hall,
  - outdoor fields for team games and endurance sports,
  - training rooms.



# ALCHEMIUM – THE MAGIC OF TOMORROW’S CHEMISTRY

- **The compound will be comprised of two structures:**  
the conference and teaching centre, and the laboratory  
and teaching facility.
- **The laboratory and teaching facility will have five  
above-ground floors and one below-ground floor.**  
The 16 616 m<sup>2</sup> of the Alchemium floor area will  
accommodate 124 conference, laboratory and teaching  
rooms including a ceremonial hall for 500 guests.



# [ STUDENT SCIENCE, ARTS, AND BUSINESS ZONE ]



- The Zone's project envisages modernization and extension of a historic post-industrial B16 building and its adaptation to serve new purposes.
- The objective of the project is to provide unprecedented in the entire country infrastructural support for various forms of student and doctoral student creative pursuits and activity in the fields of science, innovation, business, the arts, and social and personal development.
- A signature feature of the new development will be a scattered set of functional structures (workrooms, teaching rooms, creativity areas) connected by roofed common and circulation areas.

# ACCOMMODATION

- The halls of residence are modern, fully furnished double rooms with shared kitchen, toilet and bathroom facilities (one bathroom per two rooms), and with one shared per floor. Most student houses also have laundry rooms and Wi-Fi. The price of a shared room is approximately 90 EUR a month per person.

# CAREERS FOR ENGINEERS



One of the main tasks of TUL's Career Service is to support students in their search for satisfying employment and to encourage students and Ph.D. students to start their own businesses.

- Academic Job Fair,
- advertising temporary and permanent employment opportunities,
- career support,
- Internships and placements at the biggest companies of the region (Bosch, Dalkia, Dell, Indesit).



# STUDENT LIFE

- Student Government
- International student organizations
- Student radio station „Żak”
- Academic Choir and Orchestra
- Galleries
- Halls of residence
- Post office, travel agency, bank
- Canteens, pubs and cafès

# STUDENT ACTIVITY

- Our students take part in many workshops, contests, competitions and training programmes.

There are **over 85 student organizations** at TUL. They are a perfect platform for students with a passion for science who want to explore a particular area of its vast and varied territory. Students come up with ideas for scientific projects, get ready for competitions, share and discuss results of their original research during science fairs and other events.





# STUDENT SUCCESSES

- **LODZ SOLAR TEAM** are the creators of the first in Poland solar vehicle and the first team from Poland and from the Central and Eastern Europe that have taken part in Bridgestone World Solar Challenge. Lodz Solar team brings together students who are members of two student science clubs: Koło Miłośników Motoryzacji (Moto Maniacs Student Science Club) and Koło Młodych Elektroników (Junior Electronics Engineers Science Club).
- **THE IRON WARRIORS TEAM** - moto maniacs of the Koło Miłośników Motoryzacji – built the Eco Arrow solar vehicle which traveled the distance of 837 km on 1 liter of fuel setting a new national record in Poland. The students hope to increase the vehicle's fuel efficiency to 1 l/1000 km. Every year, Iron Warriors take part in the **Shell Eco Marathon** competition.



# 75

YEARS OF  
ŁÓDŹ UNIVERSITY  
OF TECHNOLOGY



## STUDENT SUCCESSES

- Students of the **RAPTORS** team built the first in Łódź Martian rover which, having defeated 22 teams from around the world, won the **European Rover Challenge** and ranked four in the **University Rover Challenge 2018** and second in World Robot Summit in Japan. The Raptors won a special award in the **European Robotic League Emergency 2019** competition, the Best Pilot Award, in the tournament, and ranked second in the main competition.
- **The HYPER ŁÓDŹ TEAM** members designed a passenger capsule for ultra high-speed transport system. The students developed a complete design of the pod-like vehicle, its propulsion system, aerodynamics and a complex safety system. The design was submitted in the Hyperloop Pod Competition that had been announced by the American company SpaceX and was qualified for the next leg of the competition.



# ACADEMIC SPORTS ASSOCIATION



- Owing to the efforts of Lodz University of Technology and the city authorities, Łódź will host **2022 EUSA Games**.
- EUSA Games is the largest University sports event in Europe 6000 student athletes from at least 40 countries take part.
- As part of the infrastructural development, a new EUSA information pavilion will be erected in front of the Sports Bay, whereas an underground walkway will connect campus B with the student residential area.



# [ EUROPEAN AND WORLD UNIVERSITY CHAMPIONSHIPS AT ACSD PŁ „ZATOKA SPORTU” ]



**ŁODZ 2019**  
EUROPEAN UNIVERSITIES  
BADMINTON CHAMPIONSHIP

**EUSA**



**ŁODZ 2019**  
EUROPEAN UNIVERSITIES  
VOLLEYBALL CHAMPIONSHIP

**EUSA**



**ŁODZ2022**  
EUROPEAN UNIVERSITIES  
GAMES

**EUSA**



# [ OPEN TO STUDENTS OF ALL AGES ]

- In 2008, **TUL's Children's University** welcomed its first students. The only children's university operating within a technical university, it sets only one admission requirement: that its students be 7 to 12 year old. Its mission is to inspire children's curiosity and to teach in a simple and fun way.
- In 2007, TUL opened its **secondary school**. Most of its graduates go on to study at one of the degree courses offered at TUL.
- TUL also has something for seniors. **Third Age University** was established in 2006 with the aim of including the elderly into the process of lifelong learning in order to empower them psychophysically.



YEARS OF  
LODZ UNIVERSITY  
OF TECHNOLOGY



[www.75lat.p.lodz.pl](http://www.75lat.p.lodz.pl)



# CONTACT

## INTERNATIONAL COOPERATION CENTRE

36 Zwirki Street, 90-539 Lodz, Poland

phone: +48 42-638-38-00

e-mail: [cwm@adm.p.lodz.pl](mailto:cwm@adm.p.lodz.pl)

## INTERNATIONAL FACULTY OF ENGINEERING

36 Zwirki Street, 90-539 Lodz, Poland

phone: +48 42-638-38-00

e-mail: [ife@adm.p.lodz.pl](mailto:ife@adm.p.lodz.pl)

## STUDENTS MOBILITY DIVISION

36 Zwirki Street, 90-539 Lodz, Poland

phone: +48 42-638-38-00

e-mail: [erasmus@info.p.lodz.pl](mailto:erasmus@info.p.lodz.pl)

(for polish students),

[foreignstudents@info.p.lodz.pl](mailto:foreignstudents@info.p.lodz.pl)

(for foreign students)

## STAFF MOBILITY DIVISION

36 Zwirki Street, 90-539 Lodz, Poland

phone: +48 42-638-38-00

e-mail: [staffmobility@info.p.lodz.pl](mailto:staffmobility@info.p.lodz.pl)

