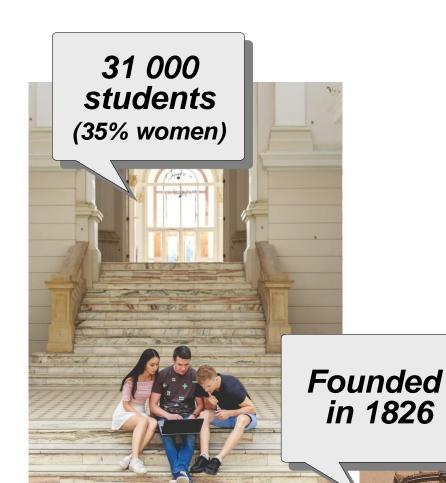


Warsaw University of Technology

WUT's roadmap to a wider participation in the Framework Programme

Rajmund Bacewicz

Conference of Rectors and Presidents of European Universities of Technology, Budapest 2019



Warsaw University of Technology

The oldest and the largest technical university in Poland



100+

study

programmes

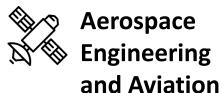




- Ranked **No. 1** in Poland among 21 universities of technology, **No. 3** among all Polish universities
- QS World University Rankings 521-539 rank
- Classified in 10 subjects of QS Ranking (Civil Engineering: rank 151-200, engineering & technology, Materials Science, Mechanical Engineering, Electrical&Electronic Engineering 201-250)

Circa 10% of CEO's and Presidents of the largest enterprises in Poland are graduates of WUT!

Strong Research Areas



Photonic Technologies

5G Networks and Internet of Things

Artificial Intelligence & Robotics

Cybersecurity & Data Science

Biotechnology & Biomedical Engineering

Materials Technologies

High Energy Physics & Experimental Techniques



Energy Conversion & Storage



Transport Engineering and Logistics

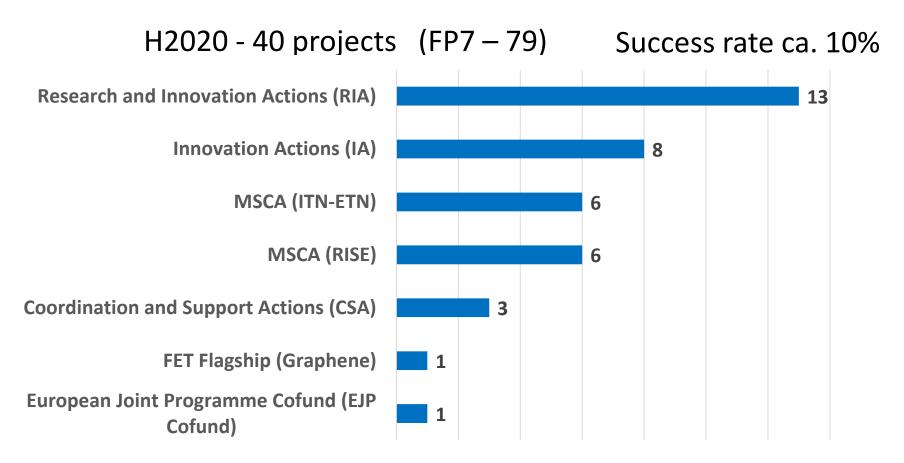


Innovation and Technology Transfer



- 24 spin-off companies created
- 100 R&D projects in cooperation with industry, worth 14 Million EUR,
- Over 550 active protection right (Patents)
- 58 Intelectual Property commercial agreements, (one of these worth more than 120 000 EURO)
- 2,5 Million EUR invested in one spin-off company by Polish Industrial Investor

H2020 projects at WUT



WUT 10 M EUR, 2nd among technical universities

H2020 projects at WUT - examples



STEM4youth

BRINGING TEENAGERS CLOSER TO SCIENCE & TECHNOLOGY

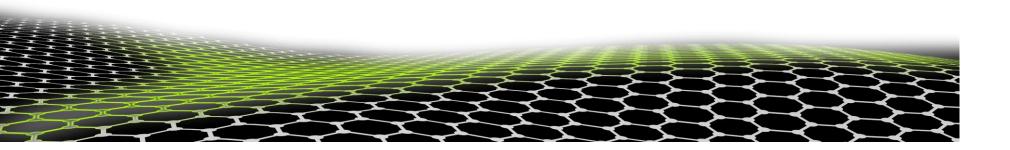


microMole

SEWAGE MONITORING SYSTEM FOR TRACKING SYNTHETIC DRUG LABORATORIES

WUT in FET Flagship Graphene

- research on crystallization, characterization, applications of graphene and other two-dimensional materials,
- fabrication of devices,
- studies of properties and applications of graphene-related materials



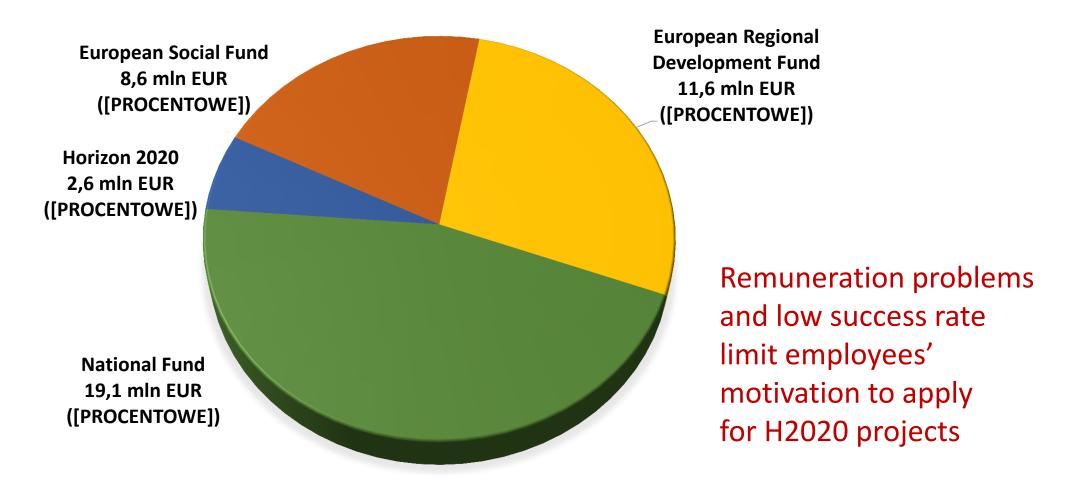
H2020 – problem: remuneration scheme

Higher education remuneration system in Poland:

- Low salaries and additional remuneration paid from research projects
- H2020 remuneration regulations are non-compatible with national project's funding rules and getting H2020 remuneration is practically impossible

Only a few HE institutions in new member states have managed to introduce the new remuneration model

Awarded Research Funding in 2018





Framework Programme essential for realizing WUT's institutional development strategy

- Stimulates to deliver highest scientific excellence
- Contributes to tackling societal chalengies across borders
- Breeding ground for innovators and breakthrough technologies
- Boosts our attractiveness worldwide

We are determined to increase our participation



WUT - university in change

In Poland Higher Education reform is underway - New Higher Education and Science Law (Act 2.0) since Oct. 2018

- Puts emphasis on research quality
- Introduces dedicated funding schemes to support excellence initiatives and emerging world-class universities
- Gives greater organisational and financial autonomy
- Stimulates activity in obtaining funds from non-budgetary sources and better use of EU funds.



WUT in change - Polish Excellence Initiative

Warsaw University of Technology is applying in the Excellence Initiative competition

In our quest for excellence we created plan aimed in enhancing research and education quality, with overarching need for internationalization

Improving research performance





- Promotion of the quality culture
- Creating incentives to intensify research staff activity
- Introducing a new academic staff appraisal system
- Focusing research into priority research areas
- Investing in attracting international students and professors



Innovative WUT Programme

- Facilitating technology transfer processes
- Establishment of an accelerator fund for spin-offs
- Study visits within WUT Best Innovators Program
- Taping on experience of of Polish diaspora WUT graduates in the best universities in the world



Enhancing quality of education

- Shifting to innovative teaching and learning (project based learning, research-based education)
- Individually designed learning paths for particularly gifted students
- Pro-quality grants for doctoral candidates

Horizon Europe plans and expectations

We count on proposed changes in Horizon Europe rules:

- Simpler and more transparent
- More flexibility
- Defining broad areas allowing mission driven research and innovation
- Full coverage of real costs taking differences between countries into account
- Single set of rules principle

Horizon Europe plans and expectations

- We expect right balance between basic and applied research funding
- We hope the Horizon Europe will strengthen the role of universities in disruptive innovation
- We count on Widening actions to reduce disparity between the new member states and the old EU.

Wider participation in Horizon Europe is a key goal on our road to internationally recognized research University

Thank you