

Polish technological innovations at Hannover Messe 2017

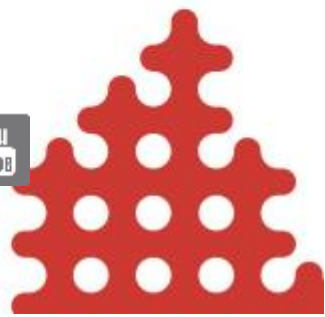
Warsaw, April 19, 2017.

The accomplishments of 5 Polish institutes and 27 inventions authored by Polish scientists will be presented in the SciTech Poland zone at this year's Hannover Messe, taking place on April 24-28, 2017. The fair participants will have a chance to see, among others, the electric personal tram as well as observe the work of a pollinating robot and a drone neutralization system.

Poland has been nominated as this year's partner country of the International Fair of Innovative Industrial Technologies Hannover Messe, after India and the United States – the partners in previous editions. The slogan of the Polish presence at the fair is SMART MEANS POLAND. The participants of the fair will be able to get acquainted with the achievements of Polish science and technology at the so-called national stand as well as in the special zone of SciTech Poland.

The creation of SciTech Poland is a result of cooperation between the Impact Foundation and the Ministry of Science and Higher Education, the National Center for Research and Development. The zone will be entirely devoted to the technologies created in the Polish academic sector and will present innovative technological concepts, from research to products and solutions ready for implementation. For the first time, Polish companies and research teams will have the opportunity to share innovative achievements and to establish contacts with potential business and scientific partners.

- Polish creators of industrial innovations are very creative, and the technologies they devise are of the highest quality. I am convinced that they will soon find their application in the global industry and support the development of many economies. Polish companies are already successful on global markets, investing and providing employment opportunities in Western European countries. We can be proud of the entrepreneurship of Poles, their energy and intellectual capital, thanks to which we can cooperate towards building a better future for Europe – said Jarosław Gowin, Deputy Prime Minister, Minister of Science and Higher Education.

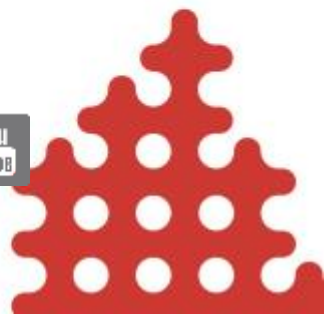




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The authors of the innovations presented at Hannover Messe are research teams from Polish higher education institutions and scientific institutes, students and companies. Their inventions include:

- **Personal tram** – is a PRT-based electric vehicle consisting of 4-5-passenger cars and traveling on light track infrastructure or using a "virtual" track on the roadway. The system operates on a *door to door* basis, so there are no intermediate stops between the start stop and the end stop. The Tram was created at the Faculty of Transport of the Warsaw University of Technology.
- **PIAP GRYF® Mobile Pyrotechnic Robot** – used for terrain reconnaissance and exploration of hard-to-reach areas. The robot is capable of performing a number of tasks, including inspection and reconnaissance of given site or object prior to commencement of action, transport of objects of up to 15 kg, neutralization of hazardous cargo and listening to calls in its immediate environment, as well as moving through uneven terrain and obstacles of up to 45 ° slope. The author of the device is the Industrial Institute of Automation and Measurements.
- **SafeSky** - drone detection and neutralization system developed by Advanced Protection Systems sp. z o.o. It allows for an effective detection of drones from 1000 m afar at any time of day and in all weather conditions.
- **15-millimeter-long micro-robot** – mimics the movements of a caterpillar and is driven and controlled by light. In addition to being able to move on a flat surface and climb over slopes, the microbot is capable of transporting loads up to ten times its own weight. This monolithic robot was created at the Faculty of Physics at the University of Warsaw using intelligent new generation materials.
- **A new PET scanner** – is a device that, at low cost, guarantees increased productivity. The device was created at the Jagiellonian University.
- **B-Droid, a robot for plant pollination** – an autonomous device capable of finding flowers, and positioning them in a three-dimensional space, that collects pollen onto a specially designed *brush* and transfers it to other flowers of the same species. Ultimately, the product is expected to be implemented in horticulture and to be widely used in greenhouse and field cultivation. Another device, for precise application of plant protection products, is planned to be created on the basis of the same technology. B-Droid is the result of the work of scientists at the Warsaw University of Technology.
- **Radiodetector** – is the first commercially available device that can be introduced in schools and universities. Its author is the Technology Transfer Agency TECHTRA sp. z o.o., which is the only Polish company to transfer technology from the CERN laboratory to the Polish industry.
- **Descriptions and presentations of other technologies can be found at** <http://scitechpoland.com/tech-set/>



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SciTech Poland is a result of cooperation between the Impact Foundation and the Ministry of Science and Higher Education, the National Research and Development Center. SciTech Poland is complementary with the the National Center for Research and Development zone located in the national pavilion, where 10 technologies will be presented.

The visitors of Hannover Messe will find the SciTech Poland zone at the C59 stand located in lobby no. 2.

impact'17, the biggest event in CEE devoted entirely to economy 4.0 and digitization, taking place in Krakow from May 31st to June 1st, will be a natural continuation of cooperation with innovators exhibiting their inventions.

More information on SciTech Poland available at:

www.scitechpoland.com

More information on Hannover Messe 2017 available at:

<http://www.hannovermesse.de/>

All technologies presented in the SciTech Poland and the National Center for Research and Development zones are also going to be made available for viewing during Impact'17, which will take place in Krakow from May 31st to June 1st. This is the only event in the CEE region dedicated entirely to the future economy and digitization. Impact is a practical approach to the topic of opportunities and challenges of the economy 4.0. It creates a space of real action, bringing together corporations, startups, people of science, public administration representatives and investors.

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