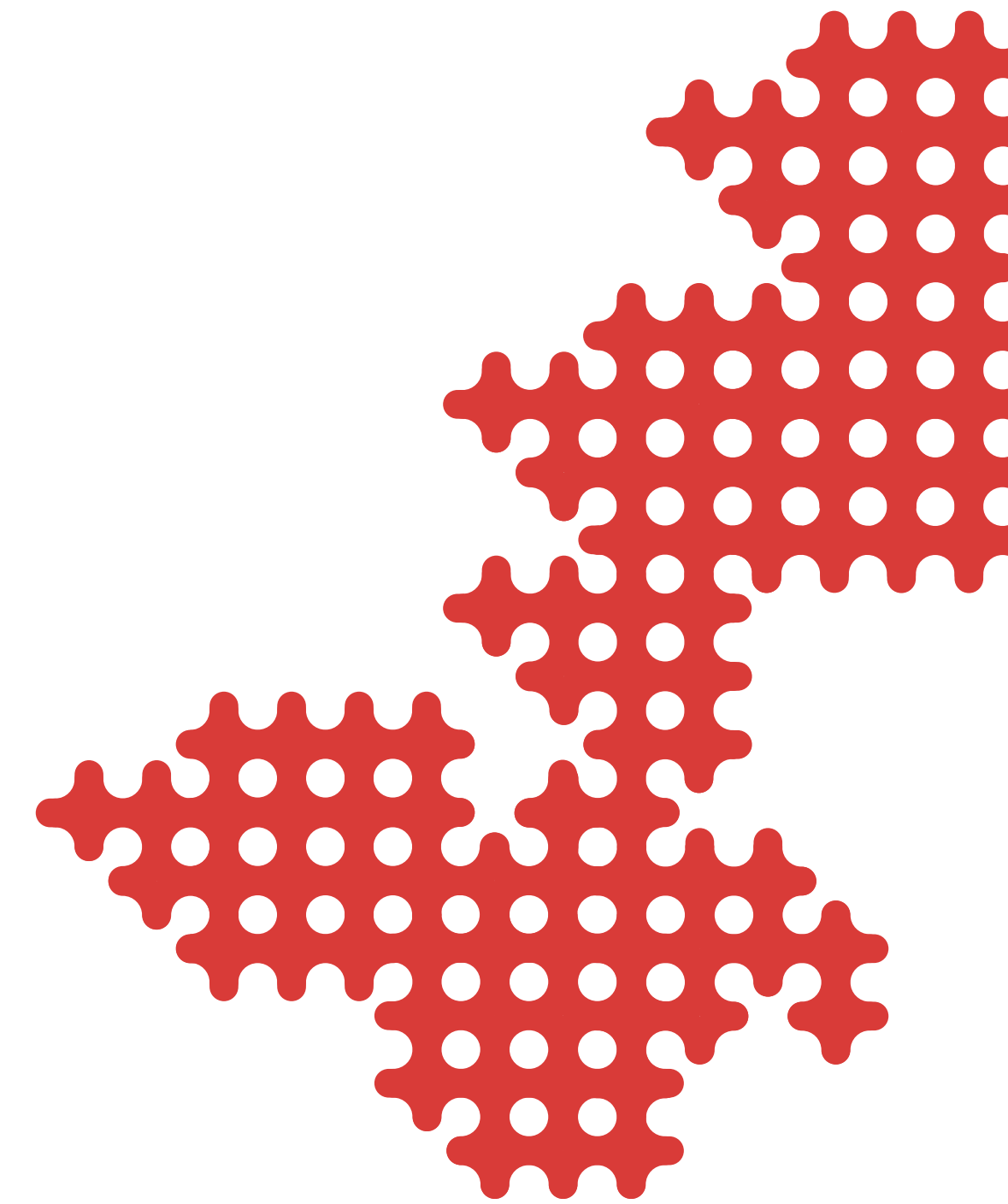


SciTech Poland at Hannover Messe 2017

•
24th - 28th April 2017

Empowering Industries

#scitechpoland

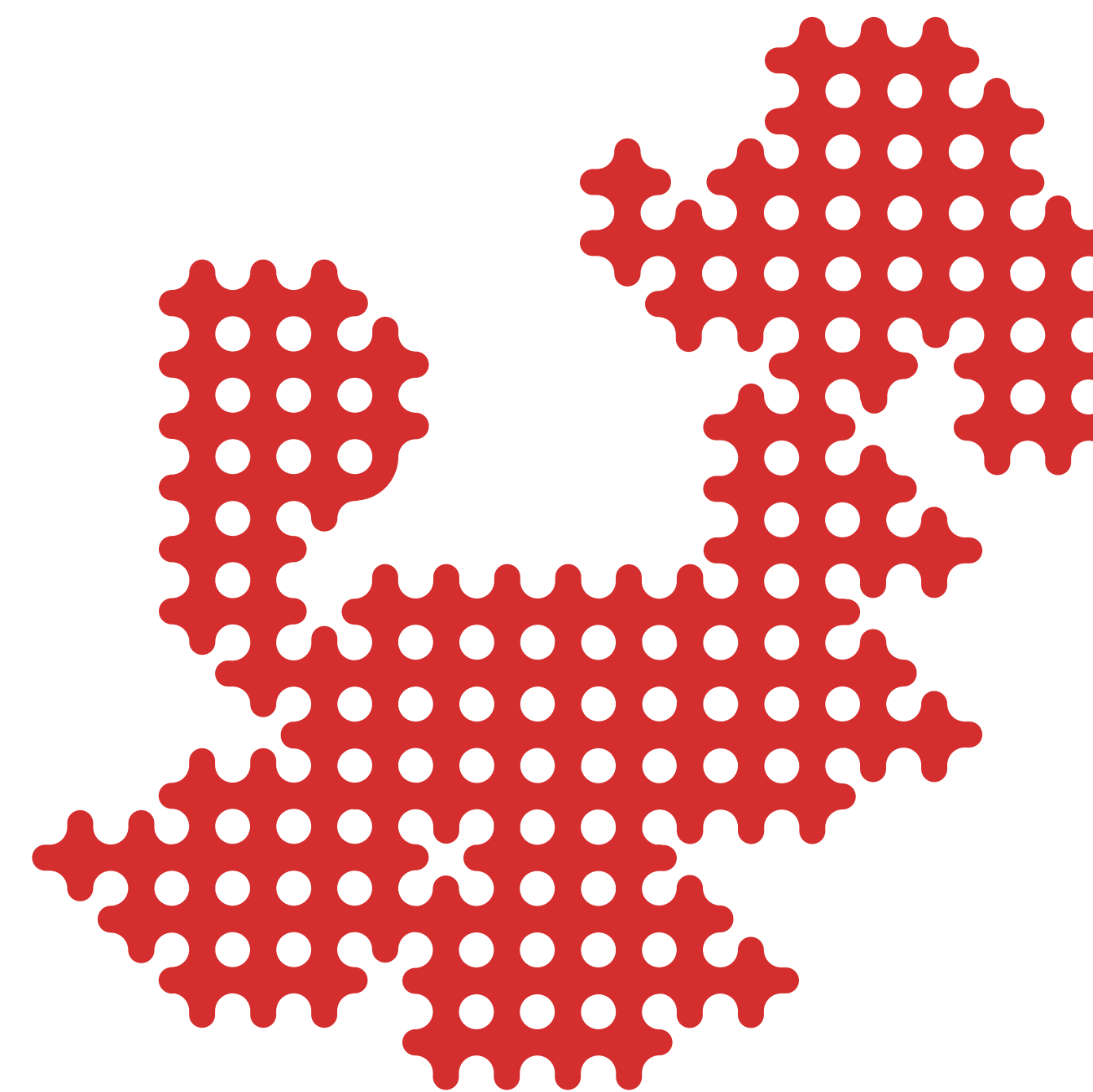


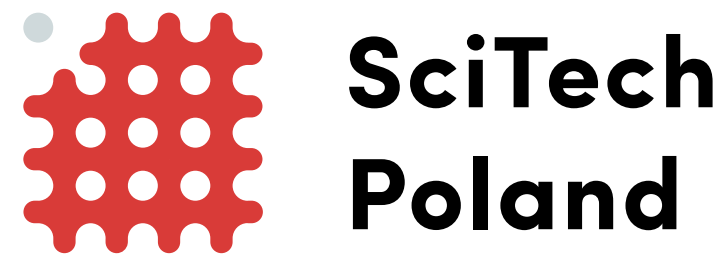


SciTech Poland is the place to explore Polish technological development.

In SciTech Poland you can find the full range of Polish technological development, from the basic research to ready-to-implement products & solutions.

The exhibition was prepared in partnership with the Ministry of Science and Higher Education, in cooperation with research teams from the top Polish universities and research institutes.



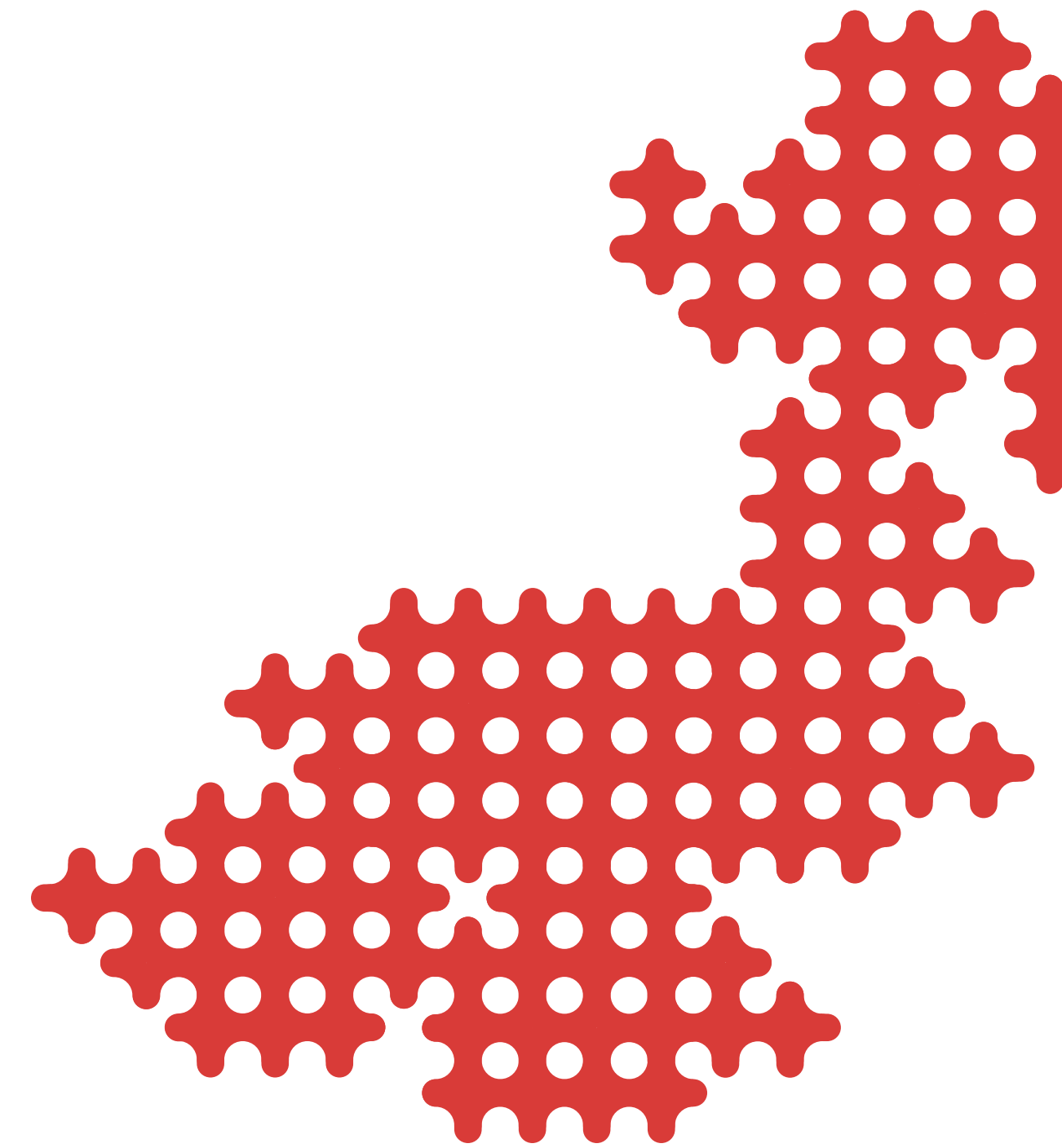


Poland – Partner Country at HANNOVER MESSE 2017

Poland's industry has an impressive track record in terms of growth and innovation. The country's development plans centre on reindustrialization, the promotion of innovative enterprises, and expansion onto foreign markets. Poland will showcase its entire technological spectrum in Hannover – with special emphasis on IT and energy.

Hannover Messe 2017

Hannover Messe is the world's biggest industrial fair, held on the Hannover Fairground. It gathers about 6,500 exhibitors and 250,000 visitors every year.





•
NCBR

The National Centre for Research and Development is the implementing agency of the Minister of Science and Higher Education. It was appointed in the summer 2007 as an entity in charge of the performance of the tasks within the area of national science, science and technology and innovation policies. When it was founded, it was the first entity of this type, created as the platform of an effective dialogue between the scientific and business communities.

Currently, it operates under the Act on National Centre for Research and Development dated 30 April 2010 (Journal of Laws from 2010, No. 96 item 616). The science reform adopted in the autumn 2010 gave the Centre more freedom to manage its financial assets, within the scope of a strategic research programme. In addition, the National Centre for Research and Development extended its activity with new initiatives and possibilities on 1 September 2011. Assigned by the Ministry of Science and Higher Education the function of the Mediation Institution in three operational programmes: Human Capital, Innovative Economy and Infrastructure and Environment, the Centre became one of the greatest innovation centres in Poland.

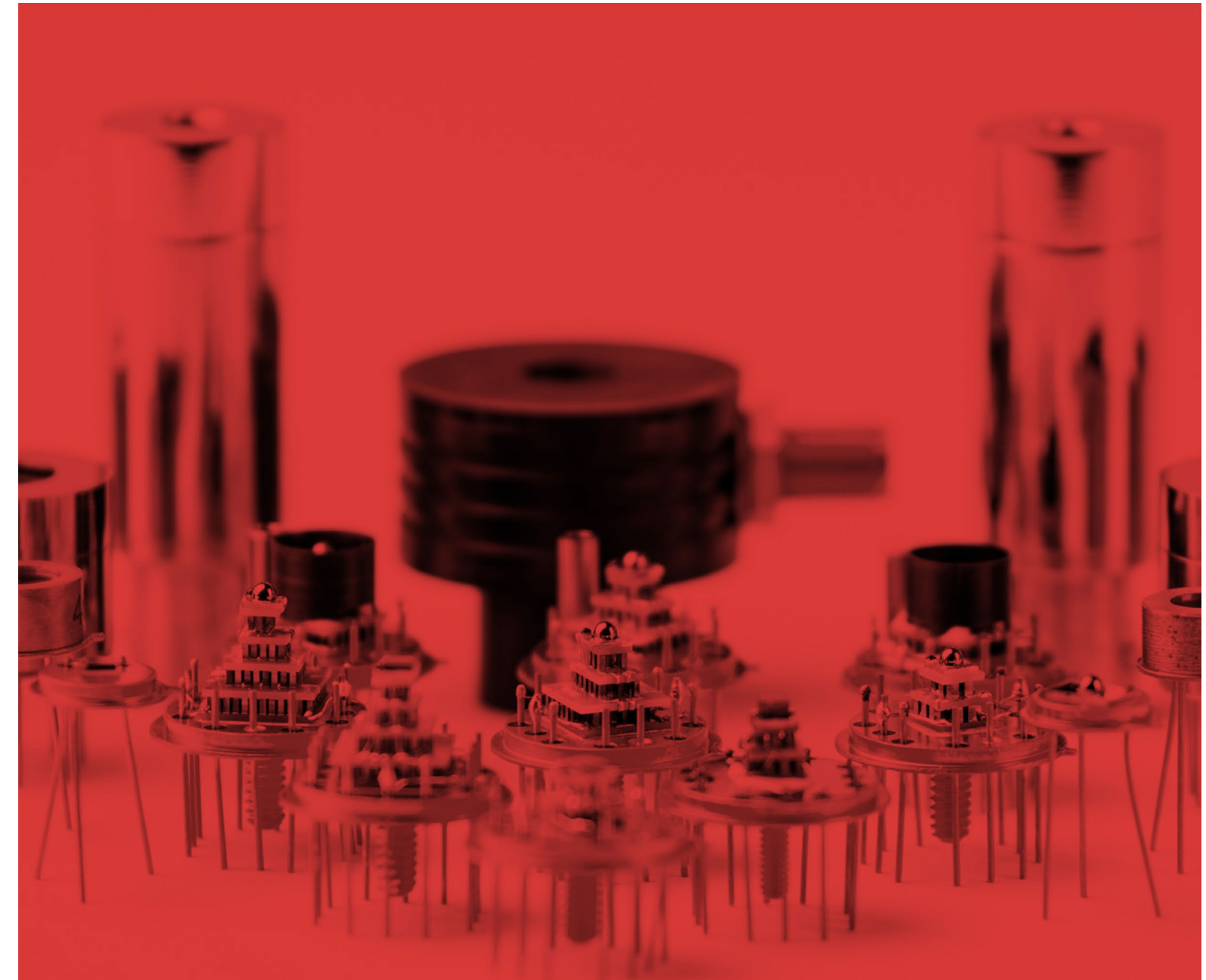
The activity of the Centre is funded by the national treasury and the European Union.

IR Detectors

VIGO System

VIGO System S.A. has developed a unique technology to provide devices for fast and convenient IR sensing, at any wavelength from 1 to 16 μm , without cryocooling.

The IR detectors developed and manufactured at VIGO System are based on Hg-CdTe ternary alloy, ideal for a wide range of IR detectors due to the material's fundamental properties high optical absorption coefficient, high electron mobility and low thermal generation rate, together with the capability for bandgap engineering.





**SciTech
Poland**

For many years the manufacturing of the IR detectors at VIGO System was based on a modified ISOthermal Vapour Phase Epitaxy (ISOVPE). At present, the fabrication of our IR devices relies on low temperature epitaxial technology, namely MetalOrganic Chemical Vapour Deposition (MOCVD), frequently in combination with the ISOVPE.

The continuous improvement in the performance of the devices fabricated by VIGO System was possible due to progress in the development of the advanced 3D band gap engineered detector architecture, multiple cell heterojunction connected in series, monolithic integration of the detectors with microoptics, integration of sensors with Peltier coolers, encapsulation of the devices in various packages, and many other improvements.

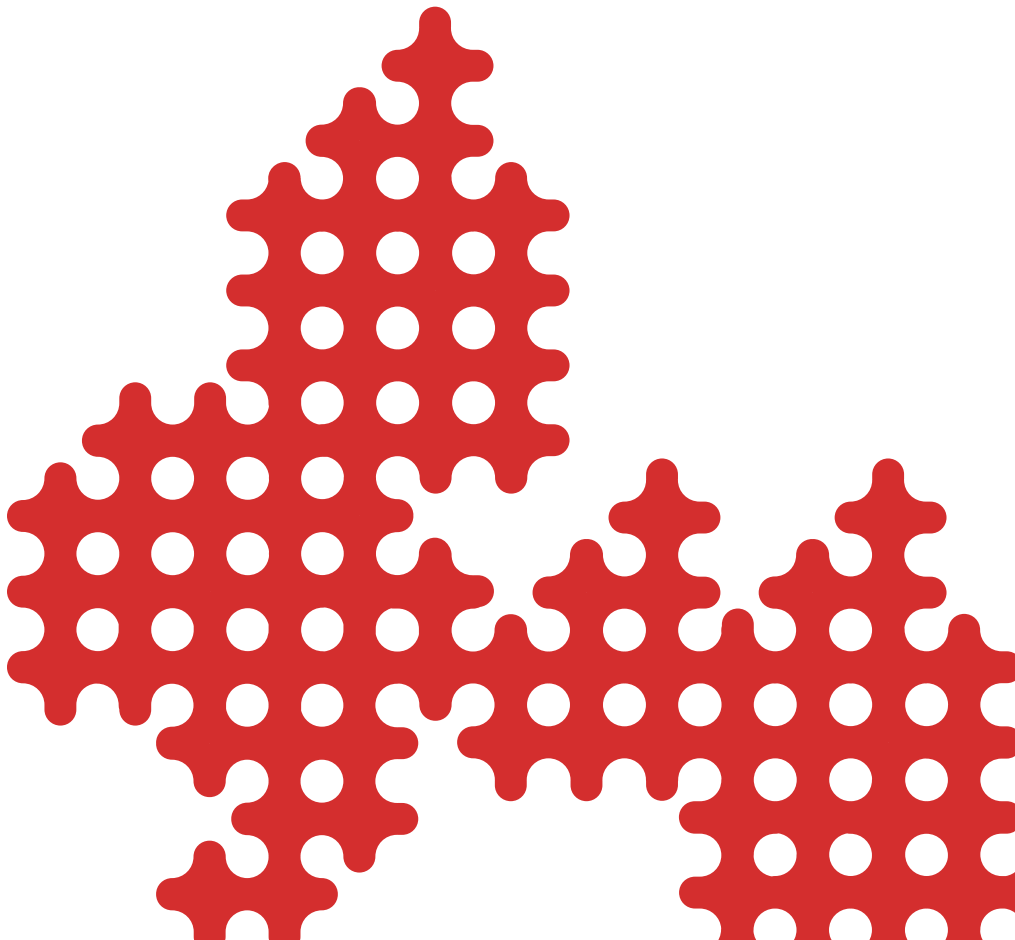
Present fabrication program includes, HgCdTe, photoconductive, photoelectromagnetic and photovoltaic detectors optimized for operation at any wavelength within a wide spectral range from 1 to 16 μm and operating within 200 – 300 K temperature range. Special solutions have been applied to improve the speed of response, allowing for the construction of devices close to picosecond time constant.

The broad line of preamplifiers specifically designed for the HgCdTe detectors, temperature controllers and power supplies as well as a wide variety of heat sinks provides an ideal addition to complement any type of detector – photoconductive, photoelectromagnetic or photovoltaic offered by VIGO System.

Contact

Adam Piotrowski PhD / +48 502 569 434 / apiotrow@vigo.com.pl

**SiTech Poland zone has been jointly
designed and created by:**





Join impact'17!

If you missed the chance to find out everything what you would like to know about, you can see a lot of presented technologies and talk to their authors in Krakow! The most forward-looking event in Central Eastern Europe, unlocking the future of economy and digitalization.

Visit our page and get your pass: www.impactcee.com

See you in Krakow!