



Warsaw, November 2021

## Sense Poland - Educational Edition 2021

"Let's lem!" - let's come up with something that can be the beginning of something new, unique, groundbreaking.

The Sejm of the Republic of Poland established 2021 as the Year of Stanisław Lem, the most outstanding representative of Polish fantasy and one of the most widely read science-fiction writers in the world, author of, among others, "The Cyberiad", "Solaris" or "Fables of Robots". The text of the resolution of the Sejm of the Republic of Poland states:

"In his considerations on the condition of modern man and the effects of technological and civilization progress (S. Lem) saw many fundamental issues for contemporary culture and thought. He warned against the negative effects of the technical development of civilization, and his theoretical works and futurological forecasts have a significant impact on defining the place of humanity in the universe and forecasting its fate."



Stanisław Lem, writer, philosopher, visionary, predicted the future we live in. He created iconic inventions of modern times in literature a few decades earlier than the research and development works on them began. Already in the 1950s and 1960s, he invented in his books, among others: the Internet, Google, smartphone, Kindle, audiobooks, VR, the Matrix.

The creative industry (broadly understood as new technologies, innovations, design), combined with the achievements of national culture, can effectively drive the economy and contribute to its development. In recent decades, global trends in economic promotion indicate the growing role of the creative industry and culture as well as consistency in, for example, the creation of new jobs. This is indicated by UNESCO reports from 2014-2017.

In the above-mentioned reports, a new term "Cultural Times" appeared, which indicates the importance of culture and creative industries in stimulating economic growth. It is estimated that this industry generates approximately USD 250 billion in revenues per year and gives an impetus to the creation of approximately 29.5 million jobs. These reports also indicate the importance of the creative industry in the process of promoting the national economy. Examples of effective actions in this area are provided, among others, by Ireland, South Africa, Canada (especially Ontario) and Israel – all of these countries are pioneers of consistent promotional campaigns of this nature, using the resources of the creative industry.

But creative thinking starts early in the primary education of children and adolescents. Awakening creativity in this period has invaluable consequences for the development of a young person. This year's edition of Sense Poland begins right here – in primary and secondary schools. The English idiom "Let's Lem!" not only is to encourage young people participating in the competition to come up with something fantastic, which may become a real object in the future, but also to be remembered by them deeply as a phrase that they can be proud of, going into the world – a phrase that remembers the legacy of Stanisław Lem but also the legacy of Polish achievements based on creative thinking.

We can boast of such great inventors in the world as Jan Czocharlski ("father of electronics", single crystals and radiomicroscope inventor), Jan Szczepanik (bulletproof vest inventor), Józef Bożek (passenger car inventor), Ignacy Łukasiewicz (oil lamp inventor), Henryk Magnuski (walkie-talkie inventor), Jan Szczepanik and Julian Ochorowicz (telectroscope inventors – the progenitor of today's TV set), Józef Hofmann (car wipers inventor) or Stanisław Ulam (hydrogen bomb co-creator).



# let's lem

The most interesting competitions entries – the results of the creative search of young people participating in the competition and the descriptions of the ideas will be included in the "Let's Lem" e-book. Maybe in a few or a dozen years, the effects of lemming will produce another Polish invention that will affect the fate of the world.

KGHM Polska Miedź is the patron of the Educational Edition of Sense Poland 2021

KGHM is the leader of innovation in Poland and in the world. The status of an international corporation obliges KGHM to carry out more and more research on development. Innovation is the key to further expanding the company's knowledge and experience.

#### **About the Patron of the Sense Poland 2021 Educational Edition:**

KGHM Polska Miedź S.A. is a global and innovative organization that conducts technologically advanced exploration, mining and metallurgical activities in the non-ferrous metals industry. The company was established in 1961 and in 1991 it was transformed into a joint stock company. Since 1997 the company's shares have been listed on the Warsaw Stock Exchange. It is one of the largest enterprises in the country of key importance for the Polish economy. The heart of the company beats in Lower Silesia, in the Copper Belt, and the headquarters is in Lubin. KGHM Polska Miedź S.A. is present on four continents – apart from Europe, also in South America, North America and Asia, employing over 34 000 people globally. KGHM is one of the leading manufacturers of copper and silver in the world (2nd place in silver manufacturing and 7th place in copper manufacturing in 2020). The company is also the only European manufacturer of rhenium and ammonium perrhenate from its own resources.

The product portfolio also includes metals such as molybdenum, palladium and nickel, paving the way for KGHM to take a strong position among global multi-raw materials companies. In Poland KGHM has a license to exploit one of the world's largest copper deposits, the resources of which guarantee the maintenance of extraction for several dozen years. The extraction of copper ore in Poland takes place in three underground mines: Lubin, Rudna and Polkowice-Sieroszowice, ore processing at ores enriching plant and the manufacturing of copper, silver and other products at the smelters in Głogów and Legnica and the Cedynia rolling mill. Thanks to the production capacity of Polish copper smelters, KGHM is one of the world leaders in the metallurgical industry. On the other side of the ocean, the company has mines in the US, Canada and Chile.

Copper, silver and other metals with the KGHM mark have for years been synonymous with the highest quality, appreciated and recognized in the world, and its guarantee are certificates of international commodity exchanges. Copper is listed in London and Shanghai, while silver in the form of ingots is registered under the KGHM HG brand and has a registration certificate on the COMEX New York Stock Exchange and Good Delivery certificates issued by the London Bullion Market.

Association KGHM, as a signatory to the 2030 Agenda, operates on the basis of the principles of sustainable development, taking into account such areas as Society, Environment, Economy, Security and Resource Efficiency in its daily obligations. As part of its CSR policy, KGHM implements and supports dozens of events and projects. In line with the assumptions of its strategy, the management board of KGHM pursues a policy of sustainable development, cooperating with the surrounding municipalities and supporting their development.



The copper company employs residents of nearby towns, supports local sportsmen through sponsorship and supports local governments and pro-social programs implemented by them. In addition, KGHM carries out extensive CSR activities through the activities of its Foundation which financially supports selected projects in four areas: health and safety, sport and recreation, culture and tradition and science and education.

More information on the competition: [www.sensepoland.com/letslem](http://www.sensepoland.com/letslem)



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