

EDITOR'S NOTE

The Fourth Industrial Revolution

The world is changing at an amazing speed. New technologies develop rapidly. Connectivity, smart machines and new media influence our daily lives and therefore work mode. The labor market has become very unpredictable and in turn is hard to say how this would look in five or ten years. Appear new jobs, while others disappear.

The fourth industrial revolution is a revolution in technology that plays a key role "smart" technologies. By default, therefore, research and innovation. In addition, as was said at Davos in January 2016, "technology must be central to nations to transform and create an environment prosperous citizens" and the example of Australia is significant: a plan 1.1 billion dollars to support innovation, the surest way to revive the country's economy.

However, the future wave of technological innovations, that of connected objects, robotics, biotechnology or nanotechnology may trigger new disruptions in social, meaning that it could eliminate many traditional jobs in favour of robots.

The radical changes that will move the labor market, including the robots ascent and of the artificial intelligence, will result in the loss of 5.1 million jobs over the next five years in 15 large economies, representing approximately 65% of the global workforce, as shown by an analysis of the Davos Economic World Forum and published taken from Reuters

However, robots should build and program, and in this respect 2.1 million new jobs in the technology industry, engineering, programming, architecture etc. will emerge. Beginning with today, robots and design, built and programmed, and in STEM (science, technology, engineering and mathematics) there is a growing demand for well-trained specialists.

According to the theory of Industry 4.0, the main characteristics of industrial production in the future will include the extensive product individualized production environments, accomplished in high flexibility production backgrounds, integrating the customer experience and partners from the earliest stages of engineering and design. Everything is going to be integrated with services the highest quality in a new category of "hybrid products". Moreover, some products will

be made using 3D printers, which will allow customization, be it clothes, food or building materials.

In the future, technological innovation will also lead to a supply-side miracle, with long-term gains in efficiency and productivity. Transportation and communication costs will drop, logistics and global supply chains will become more effective, and the cost of trade will diminish, all of which will open new markets and drive economic growth. The Fourth Industrial Revolution, finally, will change not only what we do but also who we are.

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