



INNOPROM 2021

Speakers at INNOPROM 2021, Russia's leading industrial trade fair, discussed the future of manufacturing in an IoT world.

"The introduction of the Internet of Things is closely tied to Big Data, some of which currently goes unleveraged. This is in part down to the shortage of people with big data skills," explained Dmitry Konov, Chairman of the Management Board at SIBUR, during his talk at INNOPROM 2021.

DMITRY KONOV

Chairman of the Management Board at SIBUR:

"The introduction of the Internet of Things is closely tied to Big Data, some of which currently goes unleveraged. This is in part down to the shortage of people with big data skills."

"Basic automation means that everyone gets a huge flow of data generated by ubiquitous sensors; every action is recorded and stored in an information system. Then there is a problem that has become all the more apparent during the pandemic: in this information age, we actually use data quite poorly. Only around 5%–10% of available data is used for decision making and creating some kind of value," Mr Konov added.



It is vital for employees to optimise processes through big data analysis and a range of digital tools to unlock maximum value.

With this in mind, in his opinion, companies need a new breed of talent, who will be attracted, retained and developed in a completely different manner, since the profile of workers is radically changing. It is vital for employees to optimise processes through big data analysis and a range of digital tools to unlock maximum value.

MIKHAIL MISHUSTIN

the Prime Minister of Russia:

“The pandemic has disrupted the established supply chains of industrial products and caused shifts in demand in key markets. In a crisis such as this one, you must promptly react to changes in consumer preferences.”

Olga Ziborova, Vice President for Ecosystem Development & Marketing at Russian telecoms giant MTS, also showed interest in recruiting highly-skilled young talent with a combination of a scientific background and business experience. MTS enters into agreements with Russian universities to set up degree programmes that fuse management and advanced technology, including Big Data. Graduates of these courses can immediately get stuck in to building business cases to find solutions to the obstacles around data management and efficient data use.

Vyacheslav Shasherin, Chief Digital Officer at Essen Production AG, explained that certain operational aspects stand in the way of implementing 5G use cases in manufacturing and integrating manufacturing equipment based on 5G technology. The most important of these is information security.

His concerns were echoed by the cybersecurity expert Sergey Kikilo, who heads up Information and Communication Solutions at Innostage Group. In his opinion, the introduction of new technologies invariably also entails new information security threats.

“Any modern system should be designed with information security in mind. This allows threats to be identified early on and the

necessary technical safety measures to be deployed; for example, cyber-immune IoT gateways to protect devices and encryption modules to prevent data compromise and the substitution of control commands,” he explained.



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Mikhail Matveev, Head of the IoT Centre at MTS, is confident that industrial 5G use cases will grow primarily through dedicated networks that are tailored to the individual customer and are not connected to public networks.

“It boosts security and makes the network autonomous and cyber resilient. MTS is already working with dedicated 5G and 5G-Ready networks: in 2020, we launched these networks at KAMAZ, Gazprom Neft, Uralkali and Polymetal, while this year we will deploy a dedicated commercial 5G network at a SIBUR-Khimprom plant,” said Mr Matveev.

Mikhail Mishustin, the Prime Minister of Russia, argued that digitally driven flexibility is now becoming a key enabler of efficient production, as it allows risks to be minimised and losses to be mitigated.

“The pandemic has disrupted the established supply chains of industrial products and caused shifts in demand in key markets. In a crisis such as this one, you must promptly react to changes in consumer preferences,” stated Mr Mishustin in his talk at INNOPROM 2021, Russia’s leading industrial trade fair.

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