

**INSTITUTE OF WORLD
AGRICULTURAL MARKETS**

MEDIA DIGEST

05.06 – 11.06.2023



THREE MAIN TOPICS

- [ChatGPT Helps to Develop a Robot which Can Harvest Tomatoes](#)
- [Russia to Challenge Canada for Pea Export Supremacy](#)
- [Rabobank: Decline in Global Demand for Dairy Products](#)



EDUCATION

EDUCATION / 06.06.2023

SSAU Departments Will Be Launched in the Largest Agricultural Holdings in Russia

Stavropol State Agrarian University (SSAU) is going to open basic departments located at the facilities of leading agro-industrial enterprises. Agreements on joint work have recently been reached with the Steppe agricultural holding, the Zolotaya Niva agricultural firm, the StavropolAgroSoyuz agricultural enterprise, the Energomera agricultural holding and the Stavropol Gardens fruit association. The number of industrial partners may increase in the future. [Russian Ministry of Agriculture](#)



EDUCATION / 06.06.2023

Smart Farm to Open in India to Promote Sustainable Agriculture

India and Sweden have launched a Smart farm to promote a sustainable food production system. As planned by the creators, it will allow small farmers to grow more food with much less water, and will reduce dependence on fossil fuels. The farm will be located at the National Solar Institute (India) and will serve as a valuable learning resource for institutions, agricultural universities, and communities interested in learning about innovative technologies for small-hold farming. [Energyworld](#)

EDUCATION / 08.06.2023

Delegation of Ryazan State Agrotechnological University Visited Belarus

Delegation of Ryazan State Agrotechnological University named after P.A. Kostychev (RSAU) has visited the Republic of Belarus. During the negotiations, the parties signed a range of cooperation agreements between the RSATU, Belarusian State Agricultural Academy, Belarusian State Agrarian Technical University and Agricultural Technologies LLC. They also determined a list of key areas in the field of joint research and development, educational activities, scientific and cultural events.

[Russian Ministry of Agriculture](#)

 SCIENCE

SCIENCE / 05.06.2023

Researchers Found what Affects the Reproductive Function of Cows

New Zealand researcher Franzie Wijk has collected data for 5 years at five large beef processing plants. She came to the conclusion that the physical condition of cows during the breeding season and pregnancy affects its reproductive ability at the next mating. Franzie Wijk also studied the influence of phenotypic and genetic traits on the physical condition and identified a link between the physical condition score and pregnancy. [Milknews](#)

SCIENCE / 06.06.2023

Sweden Patents Potato Ice Cream

Swedish plant-based foods company Veg of Lund — DUG Drinks' parent company — announces new patent approval for an ice cream that combines potatoes, rapeseed oil, and a vegetable protein emulsion. This ice cream patent protection covers only the Swedish market. Still, the company says it has filed applications to secure international protection as well. Veg of Lund also said that the company was working on new products in the alternative meat and ice cream segment, which would be based on a potato emulsion. [Rambler](#)



SCIENCE / 06.06.2023

UK Scientists Explore Molecular Priming Tech

Scientists at James Hutton Institute and Ireland-based BioAtlantis will spearhead a new European research project called 'CropPrime'. The project seeks to develop "molecular priming" technologies, which will enhance crop yield under stressful conditions caused by climate change. One important aspect of the project will be the identification of natural compounds found in "plant biostimulant products", which trigger natural plant processes that enhance nutrient use efficiency, derived from marine algae such as seaweed. [Farming UK](#)

SCIENCE / 09.06.2023

KFU Found a Way to Speed up the Processing of Livestock and Poultry Waste

Scientists of the Crimean Federal University have elaborated a technology for the accelerated processing of poultry and livestock waste into compost. It is based on the use of a microbial consortium. This was announced by Associate Professor of the Department of Botany and Plant Physiology of KFU Igor Bugara. Research is carried out within the framework of the federal academic leadership program Priority 2030. [GlavAgronom](#)



INNOVATION

INNOVATION / 05.06.2023

Russian Scientists Upgraded 3D Food Printing Technology

A new approach to 3D food printing and new ink recipes have been developed by Vyatka State University scientists. According to them, it became possible to assemble dishes with the necessary biochemical parameters, like construction toys. Scientists highlight that the technology will be one of the ways to manage eating behavior, because it allows users to create products with a given texture, nutritional value, appearance and taste. The results of a study were published in the journal Gels.

[RIA News](#)



INNOVATION / 06.06.2023

Drone Swarm Is Already a Reality in Brazil

The Chinese company Eavision introduced the EA-30X-Pro technology in Brazil, which will allow one operator to control three atomizer drones at once. The device will boost the coverage of areas sprayed with drones to 60 hectares per hour. The EA-30X-PRO has other important upgrades, such as sensors and radar systems for obstacle avoidance, precision, and operability, which increases flight safety and application efficiency. [Future Farming](#)

INNOVATION / 08.06.2023

ChatGPT Helps to Develop a Robot which Can Harvest Tomatoes

A team of researchers at the Swiss technical university EPFL and TU Delft has collaborated with ChatGPT to design a robot. In their experimental study, the team showed that large language models (LLMs) like OpenAI's ChatGPT can guide the robotic design process, on both a conceptual and technical level. This is the first robot assembled with the participation of a chatbot. At present, scientists are improving their robot and continue to study the capabilities of a neural network to develop new robots. [TechInsider](#)

INNOVATION / 08.06.2023

Dutch Startup Uses AI to Teach Drone to Fly Fully Autonomously

Dutch startup MultiRotorResearch (MRR) is working on introducing artificial intelligence (AI) technologies into drones. The idea is simple: researchers intend to teach AI to coordinate the flight of a drone and determine where it flies, at what height and in what way it is better to reach the destination. According to MRR, drones with AI are ideal for mapping agricultural land, as well as for inspecting windmills, buildings or dams. [Future Farming](#)





WORLD MARKET

WORLD MARKET / 11.06.2023

WORLD MARKET / 08.06.2023

Indonesia and Malaysia to Fight against Palm Oil 'Discrimination'

Indonesian President Joko Widodo called for better collaboration with neighboring Malaysia to fight what he called "discrimination" against their countries' palm oil products, as a new European Union law threatens to dent exports of the commodity. "We need to strengthen this collaboration. We don't want commodities produced by Malaysia and Indonesia to be discriminated against in other countries," the Indonesian president said in a press conference in Kuala Lumpur after meeting Malaysian Prime Minister Anwar Ibrahim. [TASS](#)

WORLD MARKET / 09.06.2023

Egypt Signs Cattle, Frozen Meat Deal with Five Countries

The Egyptian meat industry has expanded its supply sources by signing a contract to import cattle and frozen meat from five countries, Sudan, Djibouti, Tanzania, Uganda, and India. According to the Minister of Supply and Internal Trade, Ali Moselhi, the deal is aimed to secure the population's demand for meat at low prices since local meat prices have been increasing due to the global food crisis.

[Food Business Africa](#)

Free-Trade Talks between Australia, EU Stall over

Negotiations on a comprehensive trade agreement between Australia and the European Union stalled due to EU requirements to comply with product labeling rules. This was announced by the Australian Minister of Agriculture Murray Watt, speaking on the radio station ABC. "There is a lot at stake and it is very significant for us to open markets, including the EU market, for Australian manufacturers, <...> but we strongly insist that the terms of this [trade agreement] are in the national interests of Australia, otherwise we won't sign it", Watt said. [ABC](#)





ANALYTICS

ANALYTICS / 07.06.2023

Russia to Challenge Canada for Pea Export Supremacy

AgPulse Analytica predicts that in the 2023/24 season, Russia will supply 1.2 million tonnes of peas to China, which is 0.2 million more than Canada. Ottawa has recently dominated in the Chinese market. The situation began to change in December 2022, when Russia and China signed a phytosanitary agreement, paving the way for Russian peas. "A significant part of peas will now be imported from Russia", analysts say. [The Western Producer](#)

ANALYTICS / 08.06.2023

LMC: Supply Drop in the Global Vegetable Oil Market

A decrease in supply is observed on the world market of vegetable oils. This was announced during a speech at the international conference VegOilTrade-2023 by Aaron Henson, Senior Economist at LMC International. At the same time, the analyst pointed out that there was a high probability of the El Niño natural phenomenon, which could return and lead to a significant reduction in palm oil production in both Indonesia and Malaysia in the marketing year 2023/24. [Rabobank](#)

ANALYTICS / 10.06.2023

Rabobank: Decline in Global Demand for Dairy Products

The effects of high food price inflation, along with a slowdown in economic activity in 2023, have reduced demand for dairy products in both developed and emerging markets, analysts at the agricultural bank Rabobank said. Various companies in Western Europe, Australia, Brazil, China show weaker-than-expected sales in 2023, according to a new report. However, it is the USA that is a notable exception, where consumer demand for dairy products remains strong. [Milknews](#)

