

## **PROSPECTS OF DEVELOPMENT OF AGRICULTURE OF UKRAINE**

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The possibilities and potential of Ukraine are enormous. Most of the country's territory is occupied by a unique fertile black earth, labor resources several times greater than in any other country in Europe. But at the same time, Ukraine remains an importer of agricultural products, and the main reason is the imperfection of the technical base. Until now, the means of production developed and introduced in the agro-industrial complex at the end of the last century have been used.

Today, having huge resources, the Ukrainian agro-industrial complex is still in crisis. Of the entire working-age population of the country, 13% are engaged in agriculture. But the backwardness of the technical base leads to the fact that crop losses reach 25-30%, unit costs are several times higher than those in Europe and the USA.

At this stage of the industry's development, it is necessary to introduce new solutions, new technologies and techniques that are cost-effective. Gradually introduced into agriculture such concepts as saving agriculture, accurate farming. Modern information technologies make it possible to improve the quality of field work, the speed of their implementation and to reduce costs while increasing yields.

One of the most rapidly developing areas for the development of agricultural machinery is the introduction of satellite navigation systems in the management of agricultural machinery. Parallel driving systems made it possible to more efficiently use the new wide-grip technique, to carry out night work in the field, for example, during the spraying of crops, to minimize the "human factor" when productivity depends on the ability and capabilities of the operator.

The first stage in the introduction of precision farming systems is the use of navigators for tractors during field work. Modern firms offer various navigators for tractors that meet the specific economic characteristics of a particular agricultural enterprise. There is a navigator for the tractor from the satellite receiver, controller and screen, which displays information about the trajectory of the agricultural machine. Thanks to the systems of parallel driving, the machine operator is able to drive the tractor along a specified trajectory with an accuracy of 20-30 cm. It is enough to mark the beginning of the first strip and fix its end point. Next, the navigator shows how to properly drive the tractor and at the same time minimize overlaps or omissions during operation.