Perspective directions of the innovative nature of forestry in Kostroma, Yaroslavl and Kirov regions of the russian federation

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The state of innovation structures in the forestry sector for Kostroma, Kirov and Yaroslavl regions of the Russian Federation is assessed. This is possible to identify the main long-term activities.

Promising areas of forestry development in the Kostroma region are: the cultivation of new varieties of forest fruit plants; growing seedlings and establishing plantations of commercially valuable softwood and hardwood with improved hereditary traits; micropropagation of economically valuable forest plants; establishment of forest breeding and seed production center; biofuel production from low-grade wood and logging residues and wood.

Promising areas are in the Kirov region: cis-use of biotechnology in forestry and agriculture; the use of GIS technology in forestry; establishment of forest breeding and seed production center and others.

For the forest industry of the Yaroslavl region can be considered a promising biofuel from wood waste, the use of unmanned aerial vehicles in the environmental monitoring of forest areas and the development of equipment, mechanisms and methods of tillage and sowing seeds.

For three regions of the Central part of Russia present a proposal for the most promising areas of research for the development of forestry. They are: the development of recommendations on the use of agricultural chemicals and plant growth regulators in forest nurseries; development of technology for CTL timber complex «forwarder – harvester» to retain the undergrowth and finely-measure; proposals for adjusting technology and combined artificial fir reforestation methods; development of silvicultural and cost-effective ways of cutting and reforestation plantations with the participation in the composition of defective aspen; development of methods for reclamation of forest land that came out of the peat extraction for them by growing forest berries and medicinal plants; development of technologies for clonal micropaganation of hardwood and berry forest plants; methodological assistance in developing and implementing for regional development programs of forest seed and other.

Keywords: forestry, innovative development, innovative structures, promising areas, research.

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