Information Technology use in agriculture

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Abstract

Two major trends that have an effect on our planet: increase and urbanization. The anticipated increase for the primary one and half this century is discouraging. Betting on the estimate, there’ll be nine to ten billion individuals by mid-century. This population is simply beneath seven billion that means that there’ll be a couple of fifty percentage increases from the start to the centre of this century. One could dialogue the relative accuracy of explicit models, however all of them agree that there’ll be several, more mouths to enclose the approaching decades. IT has reworked several different aspects of human endeavour and has helped produce systems for responding to a good varies of social group wants. Indeed, transportation, communication, national security, and health systems square measure utterly dependent thereon to perform even basic functions. However, data, and its automatic technological embodiment, has not compact agriculture to identical level.

The Importance of Agriculture

Agriculture is a main source for the survival of human begin. In agriculture field, plants are more important because these plants are used to produce several food grain and through by products such as cereals, powers, organic products without food the life cycle would not possible

Agriculture products export to other country and the farmer brings income through agriculture products. This food is an important part of human beings in day to day life. Time to time the agriculture produces or farmer changes their methods of production with the help of information technology.
Role of IT in Agriculture

Information technology is an important platform for people from all over the world. Agriculture is manual art for the farmer which is given from generation to generation. Manual art likes techniques and secrets of the farming. Crops have their own differences and atmosphere plays a main role on their developments. But new technology brings a huge change in production and farming. Information technology. Farmers must aware of information technology through IT. They can produce large production of food grain. Through IT they can aware of serving bank & insurance services, government programs super market etc.

The Effects of IT on Agriculture

IT has created its method into the agricultural sector, and with positive results. to call some, here square measure a number of its effects:

- Improved higher cognitive process
- Better coming up with
- Community involvement
- Agricultural breakthroughs
- Agriculture for everybody
Improved deciding
By having the mandatory info, farmers—big and tiny will build higher and a lot of educated call regarding their agricultural activities. might or not it's concerning The exchange of information from all over the world additionally helps farmers be a lot of tuned in to factors to think about before creating their choices.

Better coming up with information technology in agriculture thanks to approach back up with farming code which may keep higher track of crops, predict yields, once to best plant and what to plant, to intercrop or specialise in only one product, or confirm this would like of the crops—just concerning everything required to boost production and financial gain. By adjusting to the trendy farming methodologies, farmers will have higher management of their crops. Gaining info from their farm is crucial in sustaining its success and supply more growth.
Community involvement

There are many programs that are created attainable by information technology helps. Once a community adopts trendy strategies for agriculture, the assembly of native merchandise are often augmented. There are places where folks greatly have the benefit will result in higher financial gain for everybody concerned.

Ict Applications For Smallholder Inclusion In Agribusiness Supply Chains

Information technology in small holder supply chains result show below.

Examples of Value Chains, Their Participants, and the Value Added Along the Chain

Yarn value chain, Ghana

<table>
<thead>
<tr>
<th>Actor</th>
<th>Value added</th>
<th>Traveling trader</th>
<th>Wholesaler</th>
<th>Retailer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farmer</td>
<td>-</td>
<td>50%</td>
<td>13%</td>
<td>18%</td>
</tr>
</tbody>
</table>

Kaja Apple value chain, Pakistan

<table>
<thead>
<tr>
<th>Actor</th>
<th>Value added</th>
<th>Pre-harvest contractor</th>
<th>Commission agent</th>
<th>Wholesaler</th>
<th>Retailer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farmer</td>
<td>-</td>
<td>92%</td>
<td>11%</td>
<td>16%</td>
<td>31%</td>
</tr>
</tbody>
</table>

Cocoa value chain, Ivory Coast

<table>
<thead>
<tr>
<th>Actor</th>
<th>Value added</th>
<th>Agent</th>
<th>Trader</th>
<th>Exporter</th>
<th>Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farmer</td>
<td>-</td>
<td>9%</td>
<td>15%</td>
<td>60%</td>
<td>24%</td>
</tr>
</tbody>
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Conclusion
Farmers have to know the importance of information technology for farming and identify the terms of frequency and impact on the production. Sources of Internet, E-mail are the least preferred methods of information technology as farmers are not aware about these sources.

Reference

1. N. Koblitz, “Elliptic Curve Cryptosystems,” Math. of Computation,