# Revolutionizing Agriculture: Transforming the Future of Food Production through Technology and Sustainable Practices

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#### **Abstract**

The agricultural sector has witnessed a remarkable revolution in recent years, driven by advancements in technology, innovative practices, and a growing need for sustainable food production. This mini review manuscript explores the transformative changes occurring in agriculture and their potential to shape the future of food production. It discusses key areas of revolution, including precision farming, genetic engineering, vertical farming, robotics and  $\mathbf{z}^*\mathbf{c}[\{\mathbf{z}\mathbf{c}\mathbf{i}\}\mathbf{b}^*\mathbf{a}^*\mathbf{c}^*\mathbf{c}\mathbf{b}^*\mathbf{a}^*\mathbf{c}^*\mathbf{c}^*\mathbf{b}^*\mathbf{c}^*\mathbf{$ 

## Citizen science and participatory approaches

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adac; a a c ada d
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c c d d a c b a c a ac,
a b acc,ad d c - c c
a d ca d [8].

#### **Precision farming**

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## Genetic engineering

## Vertical farming

# Robotics and automation

# Sustainable practices

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#### Benefits, challenges, and implications

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## Conclusion

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