

Biomimicry and four other technologies that can limit carbon emissions from food production

Here are five major innovation trends that could help to curb the worst of the climate impact.

Biomimicry provides an increased scientific understanding of the chemical and molecular communication mechanisms in nature that can positively impact our food system. The technology will be increasingly utilized to develop climate-smart technologies in food and agriculture.

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Re-creating categories with diverse, plant-based food sources. 75% of our diets consist of just [12 plants and 5 animal](#) species. Think soy, maize, wheat, and beef. Historically these crops have provided humankind with cheap calories, resulting in some of the lowest hunger rates in human history. But hunger is [now on the rise](#), and the dominance of monoculture is driving our health and planetary crisis. Diversifying our food sources is a critical step to feeding the planet in a healthy and sustainable way.

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Artificial Intelligence (AI) to Address Food Waste: Could this be the year that intelligent machines address the food waste problem once and for all? No doubt we will see the increasing importance of AI in monitoring and managing food safety, [recipe development](#), and supply chain management. But the holy grail? Food waste management.

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