

# Food Without Agriculture

The **global agricultural system** depends on steady sunlight, temperature, and rain.

Agricultural food is vulnerable to **global catastrophes**.



Climate Shocks



Biological Threats

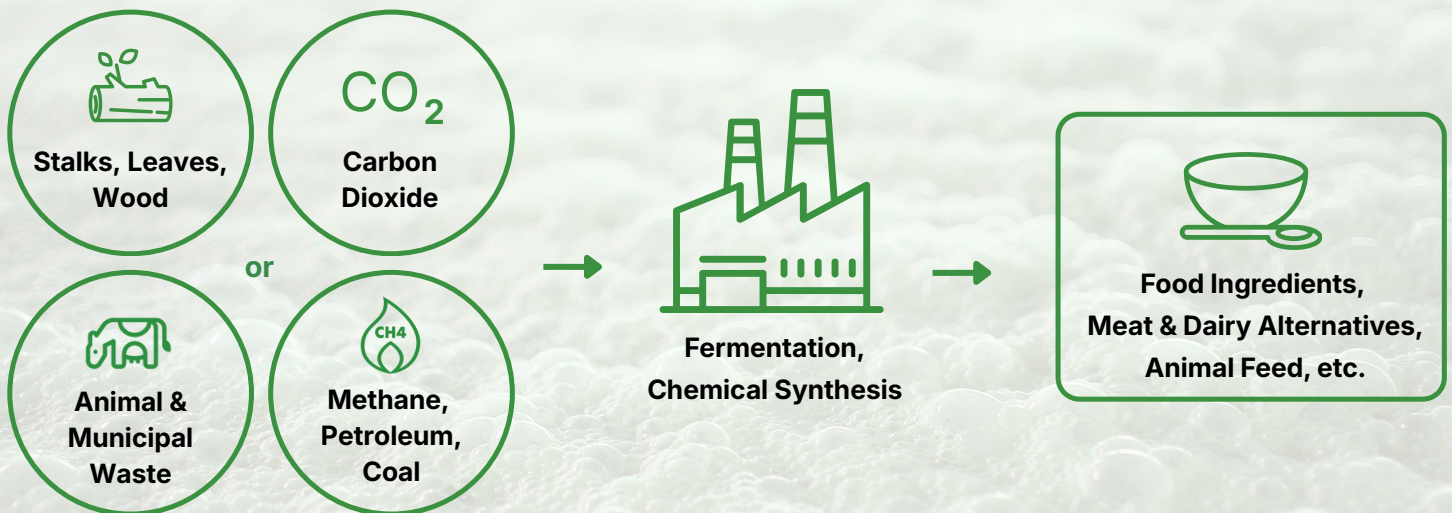


Abrupt Sunlight Reduction Scenarios



Food Trade Restrictions

**Fortunately, food can be made outside of agriculture, fulfilling *all* global caloric and most nutritional needs**



Full research paper: [tinyurl.com/food-w-o-agriculture](https://tinyurl.com/food-w-o-agriculture)



Sustainable



Resilient



Cost-efficient

## Next Steps

Critical next steps for catastrophe readiness are to pilot new and repurposed production facilities, obtain regulatory approval, ensure nutritional safety and create open-source designs.