Keywords

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| Precision Agriculture | Data-Driven Solution | Community Engagement |
| Environment Sensing Platforms (ESPs) | Crop Management | Technology Adoption |
| Crop Monitoring | Resource Optimization | Interoperability |
| Nutrient Administration | Agricultural Technology | Cost reduction |
| Integration | IOT | Smart sensor |
| Seamless Connectivity | Smart Farming | Environmental stewardship |
| User Experience | Crop health | Ecosystem services |
| Sustainability | Environmental Monitoring | Sustainable urban development |
| Urban Greening | Data exchange | Agricultural Innovation |
| Tree planting initiatives | Sustainable development | Farm Management |
| Real-time data | Digital Agriculture | Resource efficiency |
| Centralized platform | Remote sensing | Urbanization |
| Agricultural productivity | Urban forestry | Green spaces |
| Environmental Health | Air Quality | Plant Nutrition |
| Widespread adoption | Climate regulation | Data Integration |
| Market-Purchased devices | Green infrastructure | Climate change mitigation |
| Production efficiency | Public health | Ecological restoration |
| Hardware integration | Adoption barrier | Public awareness |
| Cost-effectiveness | Remote monitoring | Sustainable food production |
| Standardized communication protocols | Sensor networks | Mobile technology |
| Urban challenges | Data Analytics | Precision agriculture solution |
| Environmental risks | Adaptive management | Urban ecology |
| Biodiversity Conservation | Precision nutrient delivery | Land use planning |
| Sustainable Practices | Soil health | Data visualization |
| Decision-making | Climate resilience | Geographic Information system (GIS) |
| Plant Management | NodeBand | Irrigation |