

Smart Urban Farms

growing food for the modern city



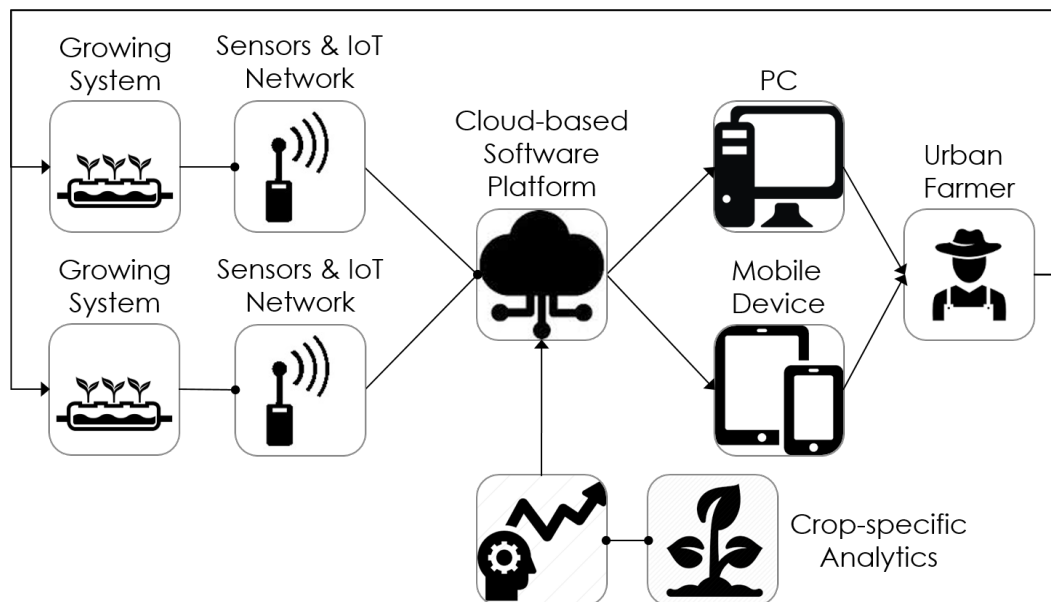
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Overview

With the rise in urbanisation and cost of resources, traditional farms face tremendous pressure to improve their productivity or risk becoming unviable. Technology has leapfrogged rapidly and with the advent of Internet-of-Things (IoT) and data analytics, it is time to modernise farms and their operations. Urban farms bring the source closer to the table by shortening the supply chain, so that the produce is fresher and more nutritious.

Our solution enhances standardised growing systems by adding sensors, IoT capabilities and data analytics to improve the productivity of a modern tech-based farm. Sensors collect microclimate data, nutrient media information and relay them in real-time to a cloud database via IoT infrastructure. Our cloud platform combines the data with growth recipes to deliver crop-specific analytics both to the farmer via mobile apps and directly to the growing system, enabling dynamic automation capabilities. The growing system is self-aware and able to regulate its conditions automatically for maximum performance.

System Architecture



Outdoor Farm



Indoor Farm



Benefits

- Functions as a green roof
- Reduces urban heat island effect & lowers energy bills
- Self-sustainable system with minimal running cost

Benefits

- Maximises production capability
- Potential to grow any crop with climate control
- High yielding & profitable operations