

Future50

Food, Agriculture and
Land Use (FALU)

Vertical and Urban Farming/Aquaponics



Alesca Life



<https://www.alescalife.com>

#GreenManufacturing

Highlights:

Alesca Life is an alumnus of **Masdar Innovate**,¹⁵⁴ **Dubai Futures**,¹⁵⁵ and **Mohammed Bin Rashid Innovation Fund**.¹⁵⁶ It is also a **World Economic Forum Global Innovator**,¹⁵⁷ **Stanford StartX**,¹⁵⁸ and **Unreasonable Impact Alumni Mentor**.¹⁵⁹

The company states that it has installed turnkey vertical farms for **Sustainable City**,¹⁶⁰ **Shangri-La Hotels**,¹⁶¹ and **Saudi Aramco**, as well as precision agriculture solutions into greenhouses and nethouses in the UAE and Saudi Arabia to digitise and improve conventional farm operations.

Strategic alliances:

- Real Estate Developers
- Hotel and Restaurant Groups
- Smart Sustainable Cities
- Agriculture and Farming
- Infrastructure and Construction
- Government and Public Entities
- Glasshouse and Greenhouse Operators

List impact technologies:

Precision Agriculture, Vertical Farming, Artificial Intelligence of Things (AIoT), Digital Twin

Headquarters:

Singapore

Middle East operational countries:

Saudi Arabia, United Arab Emirates

Summary:

Alesca Life is an agritech company that seeks to maximise farm productivity and efficiency by deploying **turnkey vertical farms and precision agriculture solutions**.

The company states that it has developed patented indoor growing systems, proprietary management software, AI-enhanced IoT networks, and multispectral cameras to grow more than **100 varieties of fresh vegetables, fruit saplings, and ornamental flowers**. Alesca Life reports that it has recently inaugurated a **10,000m² manufacturing facility** in China¹⁵³ to significantly reduce project deployment timelines and hardware costs for customers.

Impacts:

Alesca Life claims that its vertical farms use **90-99% less water, fertiliser, and land** compared to traditional farms and generate **less carbon emissions and food waste** as compared to imported products. It adds that its solutions offer year-round production with no chemical pesticides or GMOs. Alesca Life estimates that its global projects will collectively **save 1Tn+ litres of water by 2030**.

