C³ Farming

Team Profile
There are five members in our team. Two are from architecture major from The Chinese University of Hong Kong, who are good at sustainable urban design and planning as well as applying urban climate knowledge into real practice. One member holds the background of public health, also from the Chinese University of Hong Kong. The rest two members are both from The Hong Kong University of Science and Technology, studying urban meteorology and pollutant dispersion in street level.

Summary
Because of high-density urban morphology and scarce land resources in Hong Kong, 94% agricultural products are imported from other countries, which leads to food security concerns. The main concept of this project is to insert vertical farming structure in high-rise high-density areas in order to increase arable land. Through establishing a comprehensive urban vertical farming community, the project fulfills the target of sustainable neighborhood, in terms of ecological cycle, economy cycle and social cycle (C3). Natural resources, such as rainfall, flying and plants, are combined with social economy and social communications to enhance green economics, water management and inclusive eco-design.