

Information about the lecture

Speaker	Philippe Faucon
Title	Toit Tout Vert - Intensive urban farming under a greenhouse on a roof in Paris
Group of topics	June 21 st , 2017 Architecture - Projects - Best Practice
Language	english
Content	<p>The ecological trends, the “needs of nature” for urban residents, the increase of food needs in urban areas and local distribution channels are leading to the development of urban agriculture. At the ground level or integrated on buildings, in public or private areas, for self-consumption or commercialization, with a social, educational or economical purpose, there is a various range of urban farming projects.</p> <p>Toit Tout Vert is a start up which develops urban farming project in France. The first project is a 1200 m² greenhouse on a roof top in the center of Paris. The aim is to supply in the close surroundings (less than 1 km) fresh and safe products at normal price.</p> <p>To design the facilities, a partnership with CRITT Horticole specialized in Greenhouse design, vegetated building and crop management and Toit Tout Vert was settled.</p> <p>The result is a 1200 m² ETFE covered greenhouse, where tomatoes, zucchinis, radish, lettuce and strawberries are grown.</p> <p>To be economically viable, despite of the low available area, CRITT Horticole and Toit Tout Vert have developed new growing solutions for high yields production, using a 3 dimensions reasoning instead in flat.</p> <p>Then, multilayers crops are required. Furthermore, a specific high rotary tower (GreenUP system), who minimize the use of artificial light, have been developed.</p> <p>This presentation will explain the complex project procedure and develop the economical study and social aspects.</p>