

Transversal competencies



Independent
Living Base

Independent Living Base is an AgriTech created in October 2019. It has created a unique system in the world for the organic production of plant foodstuffs in soil above ground in a structure, the Bubble Tech ILB, which can be self-sufficient in water and energy, mobile, modular. This solution can easily be implemented for manned flights and space stations on Mars or the Moon.

COMPETENCIES & CAPABILITIES

Independent Living Base has a multidisciplinary team in botany, electro-technical, climatology, genetics, making it possible to design and manufacture complete on-board systems intended for space to produce continuously and in situ the food essential to astronauts in manned flights or on space bases.

A full-scale demonstrator has been in operation under normal conditions for 2 years. It has produced more than 100 different species of fruits and vegetables continuously.

A mini block of Bubble Tech 8m long, 3m high and 2m wide can produce enough to continuously feed up to 10 astronauts.



INDEPENDENT LIVING BASE

PRODUCTS & SERVICES

Independent Living Base designs, manufactures in France and distributes complete Bubble Tech systems. These food production systems in soil above ground and organic allow people in isolated sites to have abundant, balanced food, rich in trace elements and vitamins, produced continuously. Bubble Tech can be sold or rented to user companies. ILB trains future users (astronauts) of Bubble Tech for 1 to 2 days to help them quickly acquire all the skills to operate and, if necessary, repair the system in the event of a failure. The system has as standard 3 alternative operating solutions in the event of failure allowing it to operate for up to 25 years whatever the conditions.

The obvious interest for space bases is to reduce supplies by cargo, which are very expensive and uncertain, to improve the autonomy of astronauts on Mars or the Moon, to allow them to have on site a varied, fresh and non-iodified food.

MAJOR SPACE PROJECTS & REFERENCES

After more than 2 and a half years of research and tests, concluded by the filing of an international patent in November 2021, Independent Living Base has just started to market Bubble Tech to a diversified large account clientele. Energy companies are interested in feeding their employees in isolated sites in the middle of the desert. Cosmetic pharmacology companies ask ILB to produce flowers to extract essential compounds. Governments, landowners and local authorities are currently asking for quotes to increase local food sovereignty. ILB participated in the CNES Innovation Day on May 17 because Bubble Tech provides a certain and essential, tailor-made solution for the continuous production of food on another planet in order to feed the astronauts who will stay there for periods of several consecutive months.

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TURNOVER 0,2 M€

WORK FORCE 15

SPACE TURNOVER

SPACE WORK FORCE 1