

## EDEN ISS

### Ground Demonstration of Plant Cultivation Technologies for Safe Food Production in Space

Human exploration of space requires the development of bio-regenerative life support systems within space stations, transport vehicles, and possible outposts on Moon and Mars.

In this regard, Arescosmo is currently involved in the EDEN ISS program, led by the German Aerospace Center (DLR) and funded by the European Commission under the Research and Development Program Horizon 2020.

The main target of EDEN ISS is to provide an Antarctic test facility for the adaptation, integration and demonstration of plant cultivation technologies and operational procedures for safe food production in a representative environment for future human exploration missions.

Within this program, Arescosmo has recently successfully completed the installation and testing of the atmospheric control system of the greenhouse (temperature control, humidity, contaminants, CO<sub>2</sub> and O<sub>2</sub> level, etc.).

Actually, testing of the whole system is in progress, before leaving for Antarctica, scheduled for October 2017.

