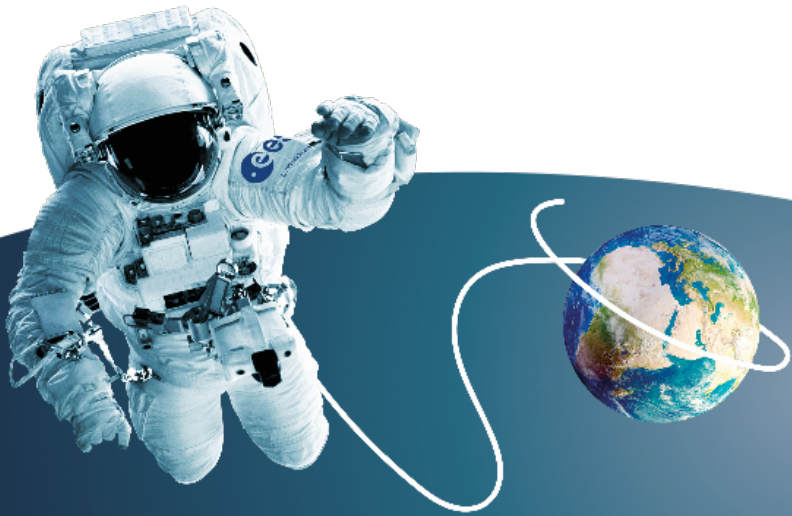




CREATING
A CIRCULAR
FUTURE

Melissa ; Petit Langoustier terrestrial,
application for SDG's through SILAB





Challenges for an Historic Fort on an Island



-Petit Langoustier inhabited Island is the **largest satellite island of the famous Porquerolles Island** located between Toulon and St Tropez.

-Porquerolles is a jewel along the French Riviera as an unspoiled island having the National Park status (crowded by one day tourism).

-Same Park status for Petit Langoustier Island forming a natural shelter in a bay with free mooring (overcrowded half of the year)

-**Challenges for the French State : restoring the Fort while promoting sustainable conditions for preserving Porquerolles island and surroundings** and developing replicable solutions



Taking up the challenge:an innovative PPP



- National Park unable to finance the restoration of such a Flagship of French national heritage on an island exposed to rough seas with unsecure access so far

- Solution **Long term lease (40 years) with 2 families for full restoration and use** complying with heritage and National park requirements .(40 years)

- **Lease holders stated objectives** : collaborative approach with NGO's ,civil society and any interested party to develop a project contributing to the National Park missions and to Sustainable Development Goals (SDG's)at all stages of restoration and use;

2 series of **key features for the project which may relate to Melissa**

- No possible connection to grid, no water resources ,no waste permitted in water.

-Barracks and space within the walls permitting to test and develop all kind of products and process



Sustainable Island Laboratory (SILAB) vision



The Fort will be a **multi sector testing ground** for products and processes interrelated from various sources, not yet commercially viable **for supporting the life of 10 individuals:**

- throughout the year
 - in global autonomy (except food)
 - toward zero waste
 - toward zero carbon footprint
 - in line with SDG's
 - with individual consumption level divided by 3 for power and water
- « One Planet objective »



SILAB proposal to Melissa



-**An Association and Scientific Council have been created** to develop SILAB at all stages of restoration and use including in relation to Melissa;

-**Commitment to recycle rain water and human waste for human needs, as well as any other human produced waste within the Fort walls**

-SILAB welcome exchanges with Melissa for developing jointly a platform of tests and development of Melissa system and products related to any kind of human waste

- **A SILAB house (above) is under priority restoration** where Melissa systems and products could be tested by people living on the Fort and selected visitors, including researchers, scientists and medias for short stays .



Situation and impact



- Petit Langoustier is a unique fully isolated and independant place sometimes referred to in the medias as « Stone Vessel ».
- Medias coverage for the Project (TV, internet and regular press) is already very large and set to be further developed due to its inclusive approach toward full autonomy highly visible
- The restoration program will include a virtual worksite.

-Any Melissa terresteerial applications related to human waste and recycling for isolated housing, boats and ports, becoming ripe for commercial developement , could be promoted naturally by a very large community including National Park.



Welcome on board!



MELISSA



MICRO-ECOLOGICAL
LIFE SUPPORT SYSTEM
ALTERNATIVE

THANK YOU.

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