



The EDEN ISS greenhouse developed by European engineers, architects, scientists, and plant specialists allows people to grow fresh fruits and vegetables anywhere!



School children are invited to join our mission!

- Open competition for children between the ages 6 and 12
- Enter competition online by submitting an original artwork based on one of the two themes:
Theme 1: Depict the EDEN ISS mobile greenhouse container in an environment of your choice. (ideas: in Antarctica where it is presently, any place on earth that can benefit from a supply of fresh food, also think about where in space you can imagine growing fresh fruits and vegetables, like on the moon or Mars!)
- Theme 2:** Imagine yourself working inside an enclosed greenhouse surrounded by your favorite fruits and vegetables. What would your garden look like?

For every entry that is received, one Seed Transportation Package (STP), containing 10 lettuce seeds from Antarctica will be sent to your home! Your task is to grow these seeds into beautiful heads of lettuce for you and your family to enjoy!

Competition start: 24. October 2018

Deadline for entries: 01. February 2019



Seed packets have been prepared by [Rijk Zwaan](#) in the Netherlands.



THEME 1

Our greenhouse is in Antarctica!

In preparation for growing vegetables on the moon and Mars, technologies have to be developed here on earth. It is best to test these technologies in extreme environments, like Antarctica - one of the harshest environments on earth! Antarctica is made of solid ice (glaciers), and experiences year-round, below-freezing temperatures. The only people living on Antarctica, are those part of scientific expeditions. Extreme temperatures and remoteness are factors that have to be considered when building a lunar or Martian base.



Inside the mobile facility, a controlled-environment is maintained for growing fresh vegetables. Special systems are integrated into the facility, providing all the essential resources plants need to grow including light, air, water, nutrients and temperature. Having a mobile facility from which you can grow food anywhere – offers the possibility of living in places otherwise un-imaginable!

If you had a chance to grow fresh fruits and vegetables anywhere you wanted – where would that be?

- Would you continue the mission already started in Antarctica?
- Would you decide to go to a desolate island and live alone? How about the desert?
- Would you decide to use the mobile greenhouse to help people in the world where food is scarce?
- Would you decide that the best place, would be at home, so your family would never have to buy fruits and vegetables at the market or grocery store ever again?
- What about putting it in the center of your home town, and allowing all persons of the community to share in the harvest?
- Can you imagine taking the greenhouse container far from earth? With such technologies, it is possible to grow fresh fruits and vegetables on the moon, or possibly even Mars!



With a mobile greenhouse, the possibilities are endless!

Draw a picture of the **EDEN ISS mobile greenhouse container** in the place of your choice. Tell us what that place is. Your picture can be hand-drawn, collaged, digitally created, or made by other means.

THEME 2

Imagine having the chance to work with experts on growing fruits and vegetables in a mobile greenhouse – and being able to choose exactly which fruits and vegetables you want to have!



Scientist Paul Zabel lives and works in Antarctica for one-year while he oversees operations in the mobile greenhouse. Each day he visits the greenhouse to check the health of the growing plants. When they are ready for harvesting, Paul collects tomatoes, lettuce, radishes, cucumbers, kohlrabies, strawberries, peppers and different herbs, and

shares it with the crew members he lives with on the Neumayer Station III.

Research shows that persons living in isolation benefit psychologically from eating freshly-grown food. It offers essential minerals and nutrients for nourishing the body, and plants gives people access to nature which helps to improve their mood.

If you were to live for a year, far from your home and grocery markets, what would you want to be grown? What fruits and vegetables make you happy, or feel well?

Draw a picture of yourself inside the EDEN ISS greenhouse surrounded by your very own garden. You may use the template provided or create an entirely original piece of art for the competition.



Instructions and Entry Rules

The competition is in English.

Please read the Instructions and Entry Rules carefully with help of your parents/ teachers/ friends/ or older brothers and sisters who speak English. This is important to avoid disqualification.

The competition is open for school children and youths throughout Europe between the ages 6 and 12. Children of consortium members and their relatives are excluded from participation.

You can submit one artwork for each theme. Complete a separate entry form for each submission.

Deadline is February 01, 2019, 23:59:59.

Directions to enter the competition and upload your submission:

1. Go to: <http://eden-iss.net/index.php/participate/>
2. download the declaration of consent and enter your contact details in English (only) into the declaration of consent (page 3); Parents need to fill in this declaration!
3. Scan or photograph your work (digital work is also accepted) and send it together with the declaration of consent to

Natascha.Wernet@dlr.de

Or send everything via postal mail to

DLR Bremen
Attn.: Natascha Wernet
Robert-Hooke-str. 7
28359 Bremen
Germany



Prizes

All participants will receive an original EDEN ISS Seed Transport Package (STP) by post, which holds 10 lettuce seeds that have been in Antarctica.



Daniel Schubert, project coordinator of the EDEN ISS project, with STP lettuce seeds in front of the EDEN ISS container, Antarctica, and STP for competition

Winning entries will be announced on 3. Mai 2019 and will be featured on the EDEN ISS project website (www.eden-iss.net). Ten winners will be selected with the most creative ideas for where to next transport the EDEN ISS mobile greenhouse. Ten winners will be selected with the most enticing selection of fruits and vegetable to be grown in their mobile greenhouse.



Winners will receive an EDEN ISS mission patch.



Template for Theme 2

