

EUKI-Project “Humus per la Biosfera” Q4 2022 – New project participants

Practical work right at the beginning is a perfect teambuilding and environmental adaption tool for our 7 newcomer students and volunteers from Germany, Turkey and France.



The German EVS volunteers Loretta Miehle (left) and Lina Saleh (right) have much fun by their new sowing experience, taught by GV-president Gino Montagno. The oat-barley-sweetvetch mixture will be an important ground cover in order to enrich the soil and to increase the humus content in the soil.



Lunch break at the olive harvest with Sören Krawczyk, Laura Serra, Felix Aufderheide, Paula Ferre Fornos and Eylül Uslu. Right: Milo Landsberg and workman Riccardo Samperi at fire prevention work.



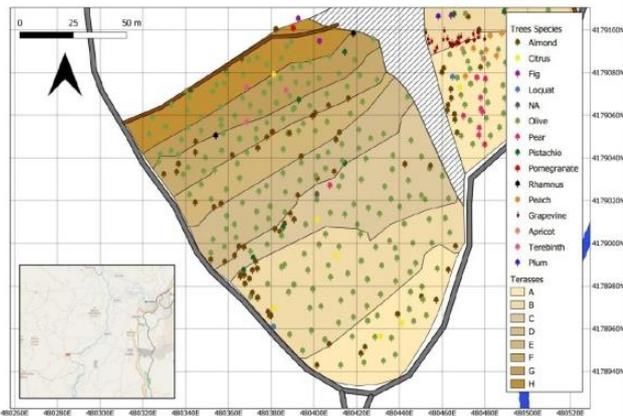
The HUMUS project introductions include both theoretical basics (left and right picture with Stefanie Hermsen from the MHS) and visual experiences, such as the visit to the compost-producing earthworm farm Biotica.



EUKI-Project “Humus per la Biosfera” Q4 2022 – Field analyses and mapping



In October, we planned the winter activities like erosion prevention measures of terraces.



Our experimental plots for regenerative agriculture with each single tree and its condition got GPS tracked and mapped by the students Sören Krawczyk, Felix Aufderheide and Lina Saleh (photo at the right).



The soil-study analyses with the Uni Catania staff continued. Various experiments to measure soil density, moisture, respiration, etc. were carried out and recorded using different instruments. Photo above: A new soil drill is forged! Biology docent Andrea Zimone, Prof. Paolo Guarnaccia and blacksmith Alfredo Favazza. Right: Students Antoine Vallée (FR), Felix Aufderheide (D) and Luca Proto (IT) measure the water absorption capacity of the soil.



EUKI-Project “Humus per la Biosfera” Q4 2022 – Effective Microorganisms

Effective Microorganisms (EM) are used in agriculture and households and for nutrition to shift the milieu of bacteria, microalgae and fungi in favour of the beneficial organisms. They shall contribute to a quick organic transformation in humus. We want to gain knowledge and contribute to the science with new insights.



Our French trainee Antoine Vallée (on the left together with Theresa Jäger from Germany) grow EM and conducted a four-week experiment, comparing the influence of EM and sauerkraut on compost worms. The result showed no significant effect in this particular experiment, only a slightly higher multiplication in the EM-treated culture than in the sauerkraut and the 0-sample.



We fulfilled a second experiment with the self-produced EM solution, using it on the GV fields to later investigate its influence on crop yield and root systems. The solution was only applied to a certain area, the treated and untreated plants will therefore be compared next year.



EUKI-Project “Humus per la Biosfera” Q4 2022 – Environmental education

After the summer holidays, indoor lessons in the schools around Mt. Etna started once again.

The importance of humus and environmental protection was explained to the children with the help of our PowerPoint presentation by GV staff Lidia Marullo (right photo), Andrea Aidala (photo below). In addition, each volunteer presents a short personal story on the topic.



Left: Volunteer Theresa presents her story first in the GV office before talking in front of a class.



World Soil Day, 5 December

Event title: Soil Advent Calendar - Calendario dell'Avvento del Suolo
 Organizer: Giacche Verdi Bronte (Italy) and Mantfred-Hermsen-Stiftung (Germany)
 Date: 3 December 22 - 3 December 22
 Location: Bronte
 Website: http://www.terrebiosfera.org/?page_id=2685
 Contact person: Andrea Aidala (Giacche Verdi)

A side activity was the Soil advent calendar, which was created dedicated to the **World Soil Day 2022**. From December 1 to 24, the volunteers made a daily soil-related post on the GV social media channels. It went from facts to advices and riddles. The project was 1 of only 4 in Sicily.



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EUKI-Project “Humus per la Biosfera” Q4 2022 – Creation of public green areas



Adrano: Students and our volunteers prepared the school yard for an upcoming feast.



22.11.2022: At the *Festa degli alberi*, the first green area was created. The GV staff Andrea Aidala and Dott. Salvatore Vinciguerra together with the volunteers took part at it in the *Istituto Comprensivo Giuseppe Guzzardi* school. A short film about reforestation was shown and then several trees, plants and flowers were planted, all together, with some humus soil in the school garden.



The next round of tree planting has begun and hundreds of oak seeds have already been planted in the volunteer garden, which when they grow and are ready will be made available for citizens to make cities greener and raise awareness.



EUKI-Project "Humus per la Biosfera" Q4 2022- Compost in town



**29
NOV
2022**
ORE II:00
WEBINAR
**"COMPOSTAGGIO
COMUNALE:
VANTAGGI
E PROSPETTIVE"**
in diretta sulla pagina fb
GIACCHE VERDI BRONTE

INTERVERRANNO:
**MICHELANGELO
GIANSIRACUSA**
SINDACO DI FERLA (SR)
SALVO BULLA
PRESIDENTE ASSOCIAZIONE
RIFIUTI ZERO SICILIA

MODERA:
DANILO PULVIRENTI
RESPONSABILE
"LABORATORIO PROGETTO
AMBIENTE" (CATANIA)
E COLLABORATORE
GIACCHE VERDI BRONTE

**PROGETTO
"HUMUS PER
LA BIOSFERA"**



"Municipal composting: advantages and perspectives" is the first of our three compost webinars which address administrations, citizens and organizations within the planned Biosphere Reserve around the Etna.

In the first webinar, the focus was on explaining the realization of the so-called systems in terms of expenses and bureaucracy.



The webinar was broadcast live on the social media platform Facebook and had over 240 viewers. It was moderated by Dr. Danilo Pulvirenti, the Mayor of the municipality of Ferla Dr. Michelangelo Giansiracusa and Manuela Leone, regional leader of Zero Waste Sicily and representative of Zero Waste Italy.

Ferla was the first place in southern Italy to construct compost houses by the concept of Dr. Danilo Pulvirenti with the help of volunteers of the community. In that sites the organic waste of families from the municipality is changed into qualitative compost. Ferla is the prove that the concept of community compost sites is working.



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EUKI-Project “Humus per la Biosfera” Q4 2022 - Bokashi

In addition to the existing compost in the volunteers' garden, they experiment with “bokashi”



Bokashi is called the anaerobe process of organic material. Kitchen scraps are added to the bin and after some weeks the end product is a pre-compost and bokashi juice or liquid fertilizer. Our homemade buckets were filled with organics, added by also self-produced microorganisms.

Produci l'humus a casa e rendi felici le tue piante
Inizia anche tu ad aiutare il pianeta!

Uso pure il succo di bokashi perché è un ottimo fertilizzante.

Non ho modo di fare il compost, non ho un giardino. Però... lo faccio il bokashi!

Getto l'organico in un bidone speciale affinché diventi bokashi.

Il ciclo dell'organico mantiene il mondo davvero felice

Dopo un po' già posso usarlo come terriccio per i miei fiori.

Non compro mai terriccio con torba!

- Il suo estratto causa significanti gas serra e distrugge biodiversità
- Facendo terriccio e fertilizzante a casa, risparmio tanti soldi

Qui le piante crescono grazie all'humus da lombricoltura, donato da un'azienda locale.
Per info: www.biotica.bio

Qual è il processo esatto? Per maggiori informazioni visita il sito www.terrebiosfera.org

SCAN ME

Questo pannello è stato realizzato durante il progetto “Humus per la Biosfera” promosso dalle Giacche Verdi Bronte con il sostegno della Fondazione Manfred-Hermesen-Stiftung nell'ambito del programma EUKI del Ministero tedesco BMWK.

Within the created (and future) public green areas we inform citizens with an easy understandable panel about the advantage of own humus production with a non-smelling bokashi fermentation even in small kitchen or balcony spaces.

A QR code leads to the project page terredellabiosfera.org, where more information and a precise explanation is available for those interested.

