

Teaching area for self-sufficiency Dole- Permaculture and Ecoremediation

Teaching area for self-sufficiency Dole lies in small village Modraže. Hamlet Dole got its name after the surface which is in the shape of "dol", a small valley in the U letter shape. An area measure 1,5 ha and in history was not intensively cultivated since the soils are poor. In majority we find slope pseudogleys that have shallow upper horizon with compacted soil and acidic pH reaction as well as very little organic substance. According to all this the selection of permaculture and ecoremediation as a way of cultivating was necessary.

Area is divided into five parts:

- **First part** in seen at the entrance, this is permacultural garden with green house, fountain, mound beds and hobbit underground house, where various plants are grown and seeds are stored. Hobbit house is prolonged garden where all our products are stored since the higher moist level, lower temperature level and lack of light the products are kept under the best storage conditions. Close here we also find a learning soil profile for the soil researches and area for resting. Closely we also find natural toilet, where water is cleaned by drainage ditch system;
- **Second part** of area is following the slopes, where we find strawberry terraces, beds with herbs, textile and card beds that use material absorption for keeping the moisture and new soil creation;
- **Third part** of the area is so called wood-garden, where the trees, bushes, round beds and composting place with earthworms intertwine and so support the food production;
- **Fourth part** of the area is the yurt with green house, compost toilet, hall, bathroom and small kitchen that is supported by the Sun energy (water and electricity). Around the yurt we find various beds, like spiral bed, key bed, lifted bed, lifted bed with biomass and growing beds. Here the plants with efficiency of antibiotics are planted. Nearby is also a pond, which is made without plastic sealing underground, hotel for insects, shelter for ladybirds and some bushes.
- **Fifth part** of the area is meant for the ecoremediation. Enabled are various habitats (acidic, alkaline, nitrophilus, with active charcoal, drought loving, etc.), phytoremediation beds and small field with wild potato-Jerusalem artichokes. In the upper part of the area water retention system is kept. It catches all precipitation water which is later used for the watering of green house.

Ecoremediation support permaculture by the water collection and use of water, cleaning of the water and soil and for the helpful use of the available natural sources. Sustainably designed objects show, how can we use imaginative connection with the nature and therefore live healthy, qualitative and creative and that we have numerous possibilities for living in coexistence with nature.

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PERMACULTURE and ECOREMEDIATION

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