The objects:
Covelana (K) mulch
Red clover mulch-30+10 t/ha
Non-covered mineral fertilized-100 kg N/ha
Non-covered control
Celeriac cv. Diamant (Bejo)
CONCLUSIONS

✓ Soil mulching with biodegradable organic fleece had favourable effect on maintenance the soil surface free from weeds within growing period of celeriac.

✓ Biodegradable organic fleece Covelana K considerably increased yield of celeriac to the value comparable with mineral fertilization at dose of 100 kg N/ha as well as average tuber weight.

✓ Gradual decomposition of organic fleece released considerable amount of easy available nutrients and did not cause any threat of nutrients excess in soil environment after celeriac growing.

✓ Red clover mulch was most effective for yield enhancing, but less for weed control and later in the season have to be supplemented with hand weeding.

✓ Decomposition of red clover mulch biomass gradually released high amounts of available nutrients within vegetation season which could be a potential threat of soil pollution if not exploited by the crop.

Experiment realized within the confines of the project LIFE+ „New soil improvement products for reducing the pollution of soils and waters and revitalizing the soil system BIOREWIT „