

Small Scale Farming

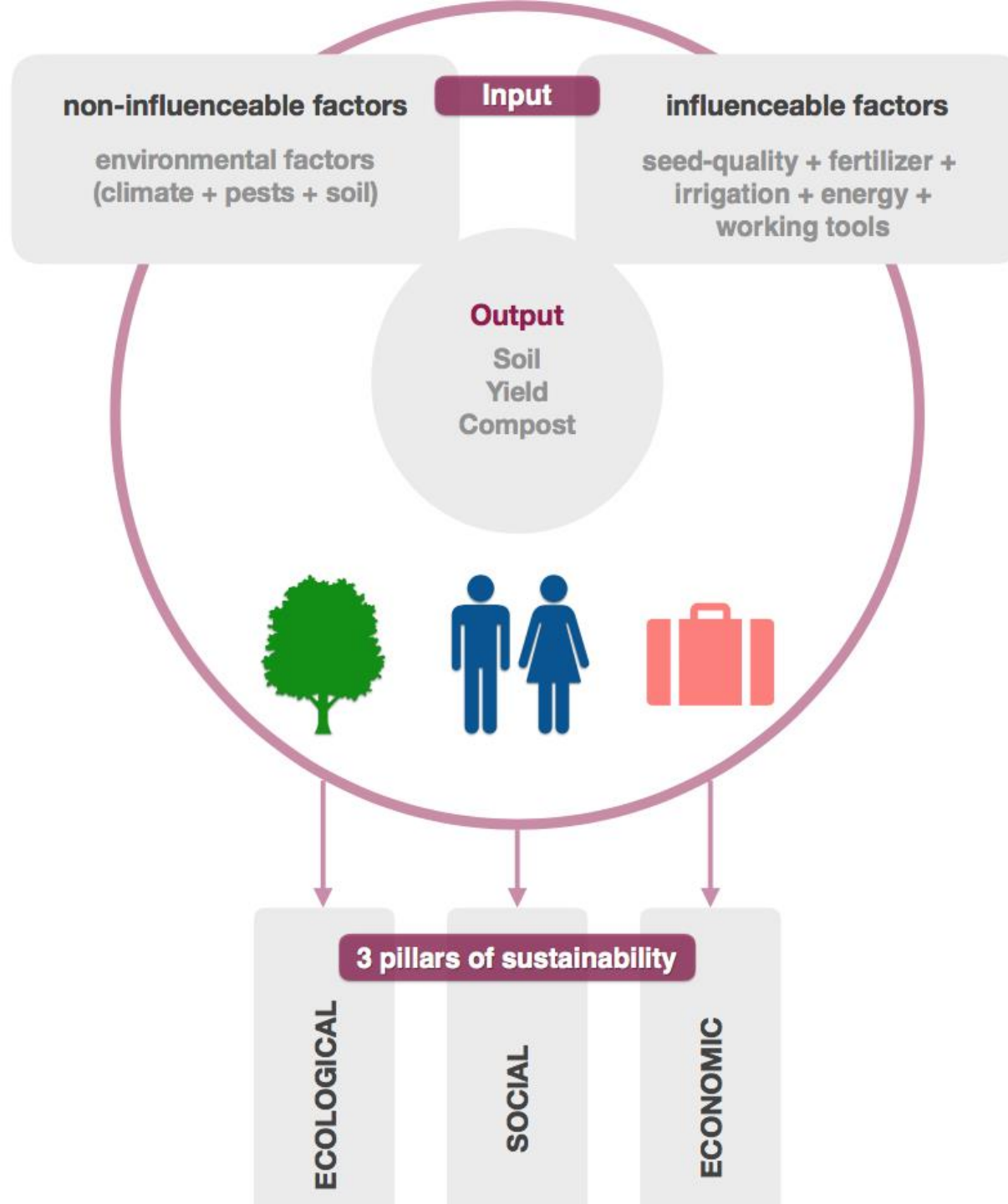
- concept and guidelines on how to achieve an average income with an available area of 6000 m² in Lower Austria

Why is this topic so important ?

- ▶ 2050 world population of 9 billion people
- ▶ more food has to be produced
- ▶ Problems about conventional farming
 - ▶ Monocultures
 - ▶ massive amount of pesticides and herbicides
 - ▶ contaminate soil and waters
 - ▶ Soil degradation
- ▶ →Micro-Farming as a solution

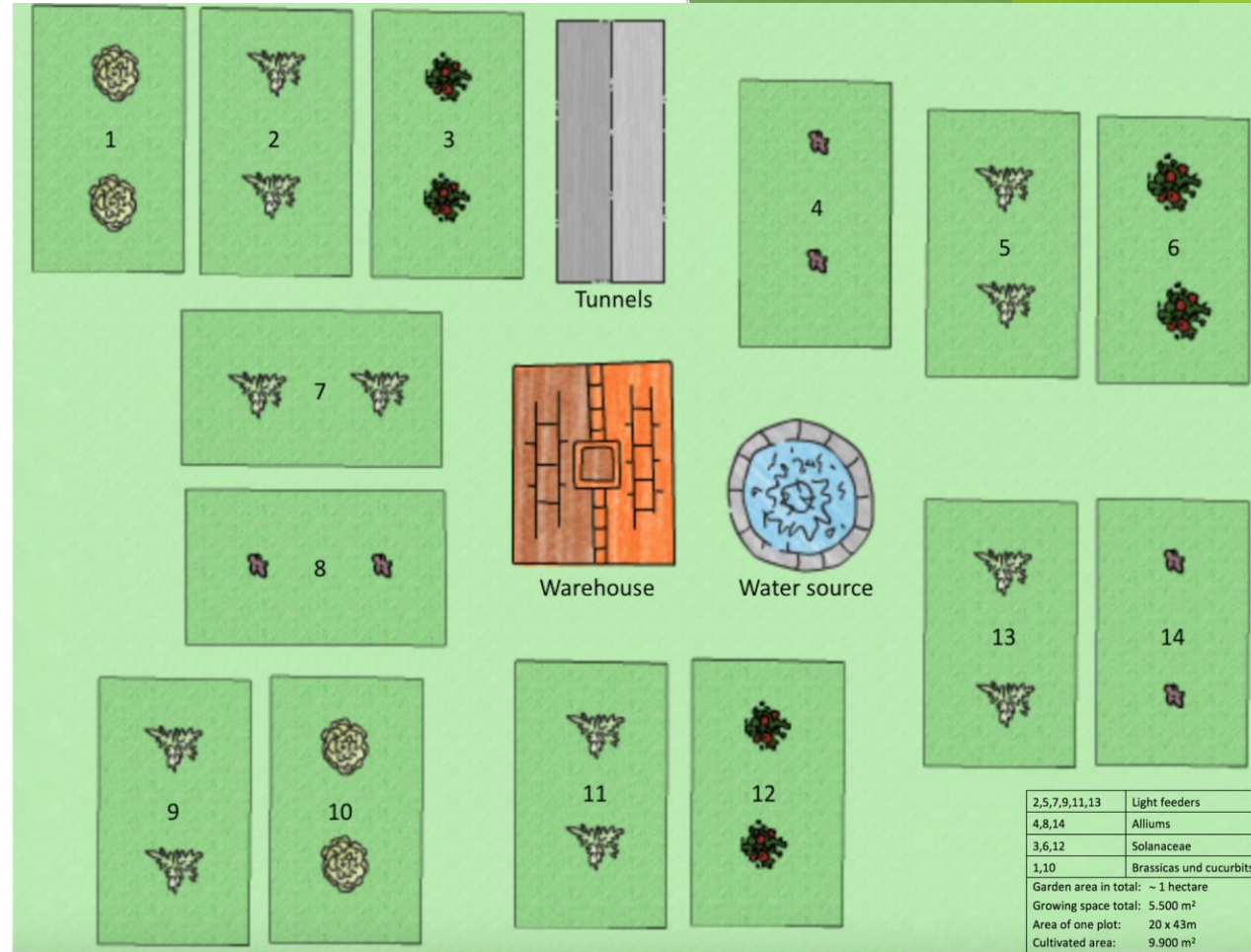


System of our micro- farm



General assumptions

- ▶ land of 6000 m²
- ▶ 29 types of vegetables
- ▶ Principle of crop rotation
- ▶ No usage of heavy machinerie
- ▶ No usage of chemical pesticides, herbicides
- ▶ No costs for delivery
- ▶ 100% yield



Non- influenceable & influenceable factors

- ▶ Climate and soil conditions in Tulln
- ▶ Pests, diseases, beneficial insects

- ▶ Seeds
- ▶ Water
- ▶ Energy
- ▶ Working tools
- ▶ Workload
- ▶ Fertilizer



Output - yield

Total costs first year	132.000 €
Total costs following years	115.000 €
Average yearly revenue	144.000 €
Income first year	12.000 €
Income following years	30.000 €



Three pillars of sustainability

▶ Ecological dimension:

- ▶ No chemical pesticides
- ▶ No electrical machineries
- ▶ Cycle of crop rotation
- ▶ Additional land use for compost

▶ Economic dimension:

- ▶ Average income in the first year
- ▶ ...in the following years

▶ Social dimension:

- ▶ Workload of 45 hours a week
- ▶ Satisfaction through organic farming



What do we conclude?

- ▶ Early stage
- ▶ More research needed

- ▶ Fascinating topic
- ▶ Become more important in the future





Thank you for your attention!

