Sustainable growth of corn

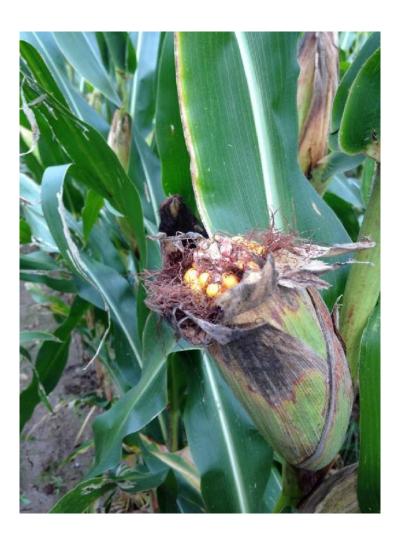




The one billion dollar chafer



Introduced from USA into Europe in 1992



Feeding at the pollen threads disturbes pollination and causes yield losses





Root feeding causing lodging and yield losses

Think in systems!

Never mind!

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Neonicotinoids for seed treatment have been banned.

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How to avoid lodging and pollination feeding?

Think in systems!

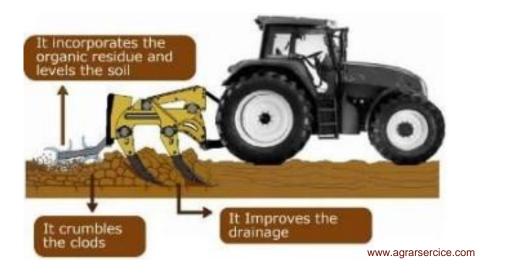
soil treatment

fertilisation

corn variety

biological pesticide crop rotation

soil treatment



Depth loosener gives a better rooting system

corn variety



There are big differences between corn varieties in development root systems

The polllination of early flowering varieties past over before the main time of flight

crop rotation

Growing only two years corn after corn interrupted the multiplication

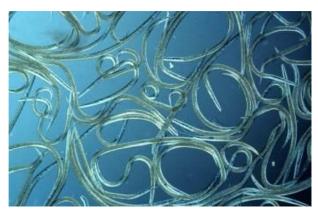


Avoid attractive catch crops between the corn periods

Go for a biological treatment already first year after crop rotation

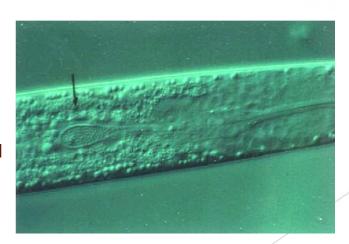


Beneficial nematodes Entomopathogen nematodes (EPN)

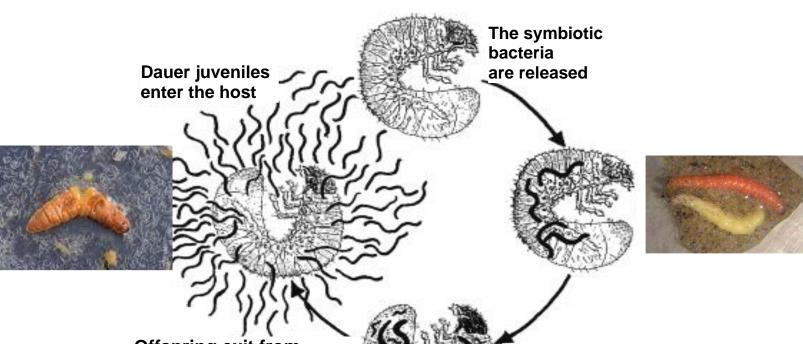


Entomopathogene nematodes

- Worms of 0.5 0.9 mm length
- Present in all soil environments (endemic)
- Dauer juveniles (DJ) free-living in the soil, reproduction only in host insects
- ► Highe host specification
- DJ well adapted for long-term survival in the soil (fat reserves, non-feeding, ambushing)
- Symbiotic bacteria in the intestine, which is responsible for the dead of the insect pest

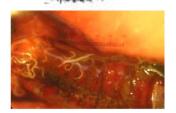


Life cycle



Offspring exit from insect cadaver and searching for new hosts

The insect dies, nematodes developed to adults

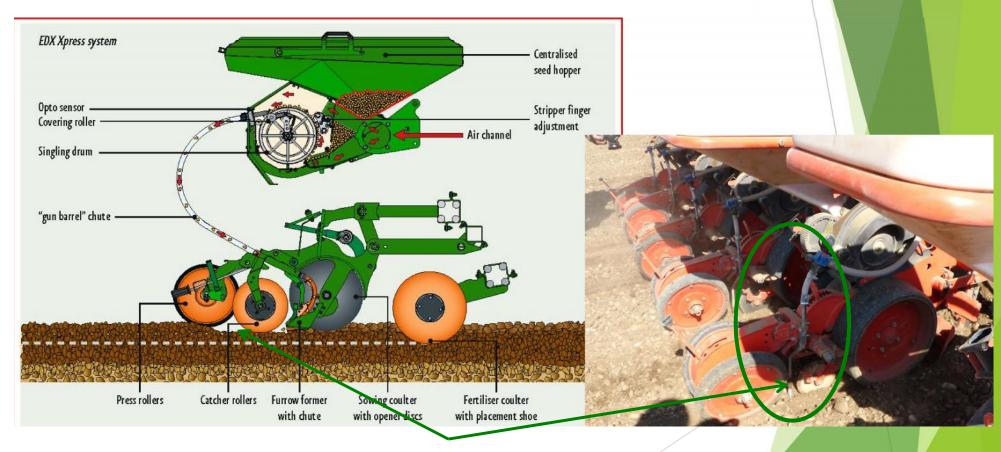




All larval stages and pupa are susceptible



Most of the needed application is standard technology
No extra working process is needed



Special liquid injection was developped

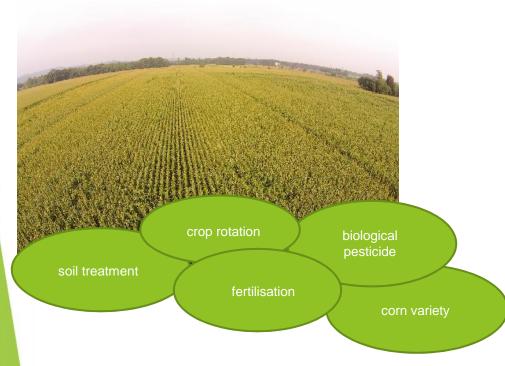


Liquid application on top of the seeds



Easy handling without any risk for the environment and user

Have success - think in systems!







Thank you!