

Brokerage Event

Food Security | Sustainable Agriculture and Forestry |
Marine, Maritime and Inland Water Research |
Bioeconomy | KET-Biotechnology |

Brussels, 15th November 2017



Sustainable Food Security

An organic insecticide, pesticide, biocide?

FertiBug PAT and TM 2015

**Based on a new approach using algae
as an insect repellent**

Svein Lilleengen

Bioskiva AS



www.ncp-biohorizon.net

BioHorizon project is funded by the European Commission - Grant Agreement no. 652637



We have been working in this field since 2004

The objectives of the project are to industrialise the product Fertibug, which was developed in FP7

Why Fertibug?

A sustainable combined fertilizer and insect repellent that is very good for the soil, causes no harm to bees and earthworms but *Delia radicum* cannot stand it and fly away, giving us all safe Brassicas to eat



The problem



for all
Brassica
producers in
the world is:

Delia radicum

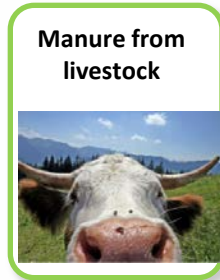


Roots are eaten by larvae of

Delia radicum
and the plants can die

Our solution is

FertiBug



Biogas plant



Fibre from biogas production

ALGAE
Patented insect repellent



Mix and pelletise

Pellet production at biogas plants all over Europe



Insect repellent and fertiliser

>99% manure from EU
< 1% algae from outside EU

Impact

EU farmers

Increased yield
>50% in field tests,
€1 395 mill /y to Brassica growers

EU society

Reduced health costs due to reduction of 19148 tonnes insecticides used:
€9 billion /y hence €324 mill€/y for Brassicas alone

+
Reduced environmental costs

Local raw material and production plus local use;
very small environmental footprints



Svein Lilleengen

Bioskiva AS

SME

Norway

svein@bioskiva.no

fertibug.eu