

B-Star, Pitch (Food Security)

Insect Collection Technology

Copyright © 2017 B-Star. All rights reserved

Technology Innovation

Date : 30/05/2017



Insect Collection Technology

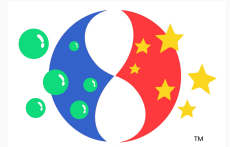
Copyright © 2017 B-Star. All rights reserved

With food scarcities increasing and the need for ways to collect protein for food and feed continuously growing, the efforts to study and make use of insects to fill such need are essential.

There are currently insect based feed and food solutions that focus on a single species, usually worms, maggots, crickets or others species that are harvested and eaten mostly in larva state. New insights like making use of silkworms (from silk industry) as protein source for humans and as fish/animal feed are also currently explored for use.

This innovation will be different from current practices. The technology will passively collect an array of locally available flying insects in high density areas. It makes use of fermentation fumes that one would find at brewery exhausts and bio-ethanol (fuel) production sites. Volatile compounds that are released by the yeast (fermenting available sugars) attract all sorts of insect species. Since this is an off-gas, the elevated fumes released will attract only flying insects.

It combines the lure of the aroma in the fumes with light settings and an electric grid for stunning/killing the insect. Insects are passively collected and processed (dried and ground) on-site.



Insect Collection Technology

Copyright © 2017 B-Star. All rights reserved

You are free to:

Share — copy and redistribute the material in any medium or format

Adapt — remix, transform, and build upon the material

Under the following terms:

Attribution — You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.

Non Commercial — You may not freely use the material for commercial purposes.

All material shared by B-Star and through this ppt. slide deck, is licensed under a Creative Commons Attribution-NonCommercial 4.0 International License

