

INCREASING THE CAPACITY OF BLACK SOLDIER FLY CULTIVATION THROUGH ZERO WASTE CONTAINER TECHNOLOGY FOR COMPOST, ANIMAL FEED AND PLASTIC SEEDS IN POTORONO VILLAGE, BANTUL REGENCY

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ABSTRACT

One area that has had success in strengthening the contribution of independent communities is Potorono Village, Banguntapan District, Bantul Regency. In the village there is an independent waste management managed by the Salakan Bersemi Non-Governmental Organization (KSM). This waste management business has been established since 2016 and now has 30 members consisting of housewives. As a follow-up to the community service program that has been carried out by the team, namely the waste management system (WAMAS) said that the potential to develop derivative products from processed waste products that have high economic value opportunities. Furthermore, partners are developing the Black Soldier Fly (BSF) farm. The problems faced by partners are BSF breeding technology problems, maggot enlargement sites, and maggot marketing. Solutions to partner problems consist of two types, namely solutions to problems in production technology and product marketing. On the issue of BSF breeding production technology and maggot enlargement, the assistance of 1 unit of BSF breeding production site and 1 unit of maggot breeding site that can support Sustainable Development Goals (SDGs) number 3 (good health and welfare), namely on waste management; number 9 (Infrastructure, industry and innovation) namely on BSF breeding product innovation and number 15 (maintaining terrestrial ecosystems) namely by good waste management will maintain the stability of terrestrial ecosystems. The problem of maggot marketing can be solved by adding a sales feature in the Waste Management System (WAMAS) startup application which can support SDGs number 1 (eliminating poverty), namely members of partners can increase income from selling maggot; number 2 (end hunger) namely by selling this maggot, it can be used as animal feed which can finally eradicate hunger; number 5 (gender equality) namely the number of female and male workers in partners being balanced and number 8 (decent work and economic growth) namely by selling maggot that can be reached on a national scale, each partner member will get a decent job and can increase growth economy. The achievements that have been produced are (1) the progress of activities is 70% with absorption of funds above 60%; (2) The outputs that have been fulfilled are the procurement of BSF cages, maggot enlargement sites, and draft articles in national journals; (3) Partners' responses to PKM activities tend to be positive; and (4) Partners can independently use BSF cages and cultivate maggot with training and mentoring

Kata Kunci: *BSF, maggot, Wamas, SDGs*