



**ADDRESSING SOIL POLLUTION IN DESA SINDANGMULYA, CIBARUSAH
THROUGH THE UTILIZATION OF ARANG HAYATI (BIOCHAR) AS A
WOMEN EMPOWERMENT INITIATIVES**

UNDERGRADUATE FINAL PROJECT

**Submitted as one of the requirements to obtain
Sarjana Sosial**

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**FACULTY OF HUMANITIES
INTERNATIONAL RELATIONS STUDY PROGRAM**

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TRASHFORMERS: “Addressing Soil Pollution in Desa Sindangmulya, Cibarusah Through the Utilization of Arang Hayati (Biochar) as a Women Empowerment Initiatives”
Jababeka Education Park, Jl. Ki Hadjar Dewantara Jababeka City,
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I hereby declare that my thesis/ final project / business plan entitled ***TRASHFORMERS “Addressing Soil Pollution in Desa Sindangmulya, Cibarusah Through the Utilization of Arang Hayati (Biochar) as a Women Empowerment Initiatives”*** is to the best of my knowledge and belief, an original piece of work based on sound academic principles. If there is any plagiarism detected in these final projects, I am willing to be personally responsible for the consequences of these acts of plagiarism, and will accept the sanctions against these acts in accordance with the rules and policies of President University. I also declare that this work, either in whole or in part, has not been submitted to another university to obtain a degree.



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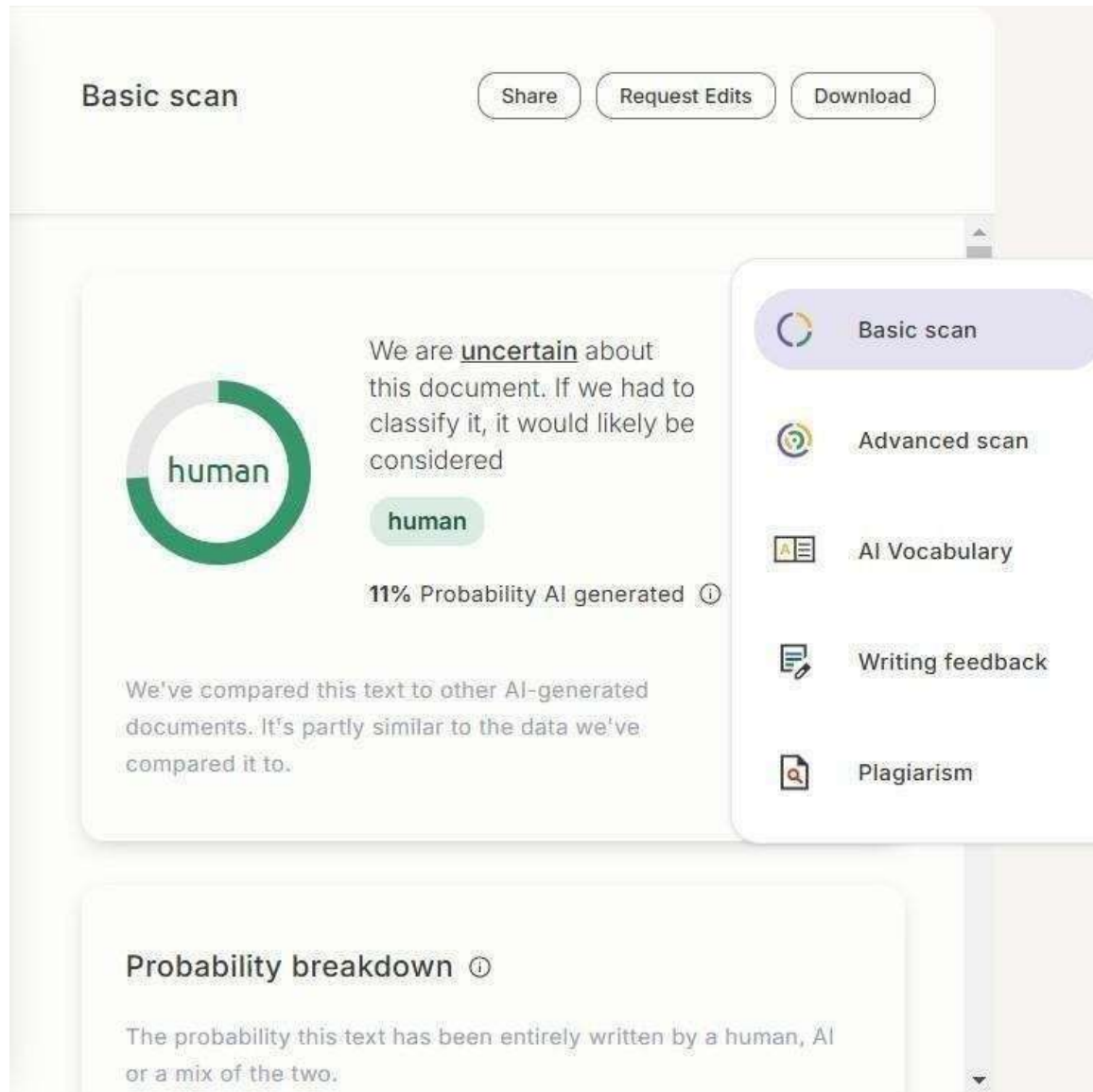
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CONSENT PAGE

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ABSTRACT

Trashformers adalah proyek sosial yang memiliki misi menganalisis masalah dari perspektif lingkungan, dalam hal ini isu lingkungan yang diangkat berfokus limbah pertanian sebagai solusi berkelanjutan dari krisis pencemaran tanah. Dalam konteks ini pertanian modern sering kali menimbulkan masalah lingkungan, terutama dalam hal kualitas tanah. *Arang Hayati* (Biochar) dipilih sebagai salah satu pendekatan karena mampu meningkatkan kesuburan tanah. Kami mengidentifikasi bahwa kurangnya pengetahuan masyarakat mengenai pengelolaan limbah pertanian secara berkelanjutan dalam pertanian modern. Untuk meningkatkan pengetahuan masyarakat akan pengelolaan limbah pertanian secara berkelanjutan dalam pertanian modern, Trashformers menggunakan teori SDGs 15 sebagai upaya keberlanjutan lingkungan dan implementasi kualitatif dalam penelitiannya. Tujuan dari proyek ini yaitu meningkatkan kesadaran masyarakat akan pentingnya pengelolaan limbah pertanian yang berkelanjutan melalui penggunaan *Arang Hayati* (Biochar) dalam memperbaiki kualitas tanah dan mengurangi dampak permasalahan lingkungan lainnya. Upaya yang dilakukan dalam merealisasikan tujuan proyek sosial ini meliputi kampanye online di Instagram @Trashformers.id, serta seminar dan pelatihan. Project ini menargetkan kesadaran dan pengetahuan kepada *Kelompok Wanita Tani Dahlia RW 10 Desa Sindangmulya*, hal ini berdasarkan survei yang telah dilakukan 100% anggota ini bersedia mengikuti seminar dan pelatihan mengenai *Arang Hayati* (Biochar). Survei setelah kegiatan di RW 10 Desa Sindangmulya menunjukkan bahwa 76% peserta memilih untuk mulai menggunakan *Arang Hayati* (Biochar) pada tanaman-tanaman yang akan ditanam, hal tersebut menandakan bahwa proyek sosial Trashformers menghasilkan dampak positif pada masyarakat.

Kata Kunci: Lingkungan, Limbah Pertanian, *Arang Hayati* (Biochar), Pencemaran Tanah, SDGs 15



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ABSTRACT

Trashformers is a social project that has a mission to analyze problems from an environmental perspective, in this case the environmental issue raised focuses on agricultural waste as a sustainable solution to the soil pollution crisis. In this context, modern agriculture often causes environmental problems, especially in terms of soil quality. *Arang Hayati* (Biochar) was chosen as one of the approaches because it can improve soil fertility. We Identified that there is a lack of community knowledge regarding sustainable management of agricultural waste in modern agriculture. To improve the community's knowledge of sustainable management of agricultural waste in modern agriculture, Trashformers used SDGs 15 theory as an environmental sustainability effort and qualitative implementation in its research. The goal of this project is to increase public awareness of the importance of sustainable agricultural waste management using *Arang Hayati* (Biochar) in improving soil quality and reducing the impact of other environmental problems. Efforts made in realizing the objectives of this social project include an online campaign on Instagram @Trashformers.id, as well as seminars and training. This project targets awareness and knowledge to the *Kelompok Wanita Tani Dahlia RW 10 Desa Sindangmulya*, this is based on a survey that has been conducted 100% of these members are willing to take part in seminars and training on *Arang Hayati* (Biochar). The post-activity survey in *Kelompok Wanita Tani Dahlia RW 10 Desa Sindangmulya* Showed that 76% of the participants chose to start using *Arang Hayati* (Biochar) on their crops, indicating that the Trashformers social project had a positive impact on the community.

Keywords: Environment, Agricultural Waste, *Arang Hayati* (Biochar), Soil Pollution, SDGs