









January 2023 June 2024





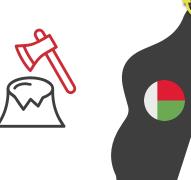














Madagascar: deforestation caused by the production of fuel for domestic use





40% loss of forests



More than 2 hours a day for the supply of fuels



Loss of **biodiversity**



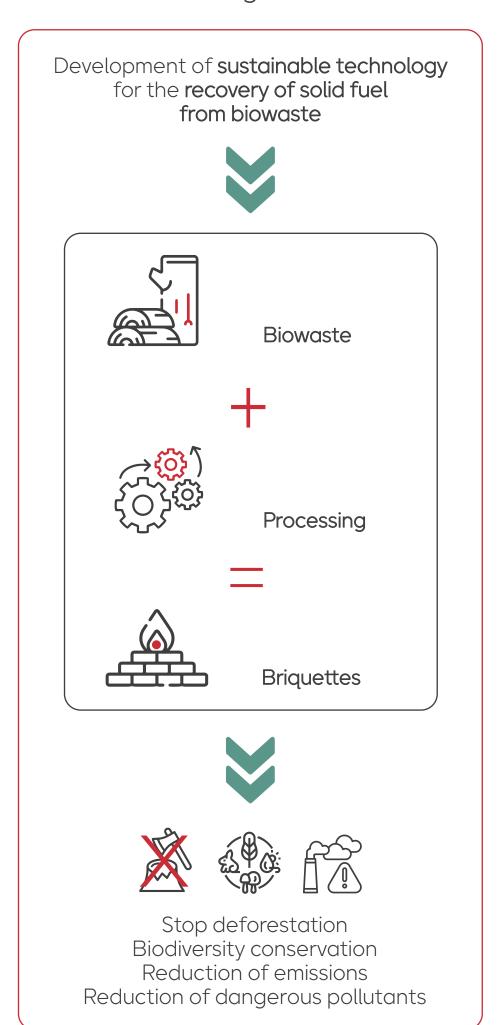
2-7% of total anthropogenic CO₂ emissions*

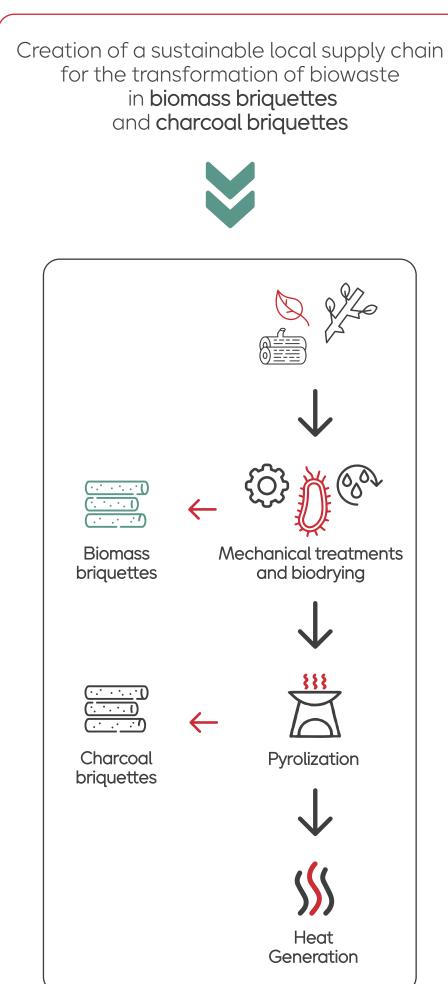


Release of **CO** and **PM**

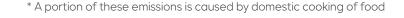


16,500 premature deaths per year









CHAR:NE

Polisocial Award 2022

Progetto finanziato da Polisocial Award 2022 - Politecnico di Milano Project funded by Polisocial Award 2022 - Politecnico di Milano









January 2023 - June 2024











Madagascar: deforestation caused by the production of fuel for domestic use







More than 2 hours a day for the supply of fuels



Loss of biodiversity













16,500 premature deaths per year

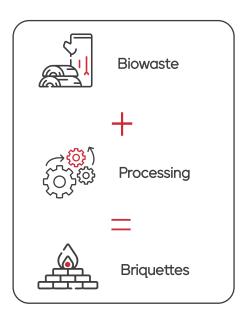
 $^{^{\}ast}$ A portion of these emissions is caused by domestic cooking of food





Development of sustainable technology for the recovery of solid fuel from biowaste













Stop deforestation
Biodiversity conservation
Reduction of emissions
Reduction of dangerous
pollutants

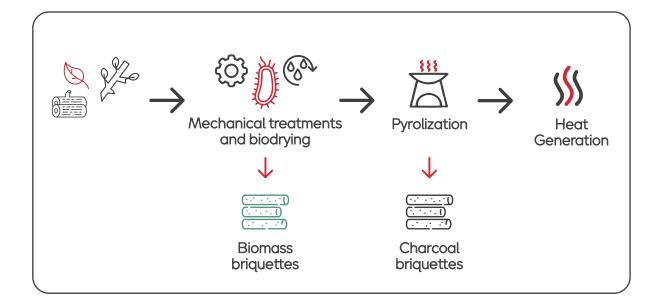




Proposed solution

Creation of a sustainable local supply chain for the transformation of biowaste in biomass briquettes and charcoal briquettes









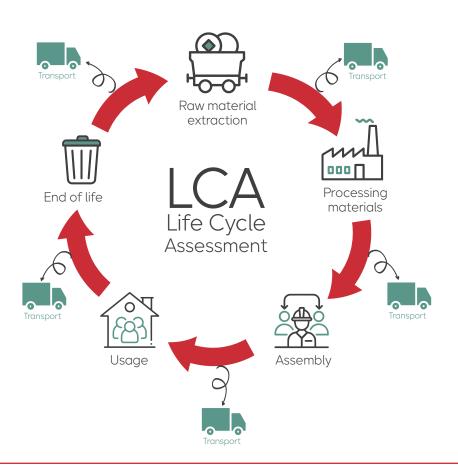


Environmental impact calculation (biodiversity, CO₂ emissions,...)













Positive impacts on **SDGs**













www.polisocial.polimi.it

Info/contacts: charme-project@polimi.it



Progetto finanziato da Polisocial Award 2022 - Politecnico di Milano Project funded by Polisocial Award 2022 - Politecnico di Milano







