



# TECH FOR OCEAN PLASTIC PREVENTION AND EXPANDED RECYCLING (T.O.P.P.E.R.)

MARCH 2019 – MARCH 2021 | IMPLEMENTER: Gringgo Indonesia Foundation | LOCATION: Denpasar, Indonesia | PLANNED BUDGET: \$190,262

## PROJECT OVERVIEW

Building on the lessons learned from its pilot project in Sanur Kaja village in Denpasar, Gringgo recognizes the importance of collecting and maintaining up-to-date field data on the city's solid waste composition and ecosystem. Reliable, current data are critical to informing public sector waste managers on options for improving collection efficiency, organizing waste handling and processing operations, and formulating plans for future waste management. Gringgo will seek to improve community participation and build reliable data systems of Denpasar's waste ecosystem through establishing a crowdsourcing model and improving cooperation between community residents and the city's solid waste management operators. Gringgo defines "crowdsourcing" as a form of open collaboration in which individuals and/or organizations participate voluntarily in collecting and analyzing data, interpreting the results of data, and solving problems. This approach will enable Gringgo to accelerate the collection of geospatial, ecological, plastic pollution, and solid waste generation data and will facilitate the development of software tools and a targeted communication and education strategy. Technical inputs will be combined with community education and engagement to promote waste separation at source, improved recycling, and increased incomes for waste collectors.

## ABOUT THE IMPLEMENTER

The Gringgo Indonesia Foundation (Gringgo), established in 2017, grew out of the technology startup PT Gringgo, which focused on the solid waste management sector in Bali. Gringgo's principal goal is to positively address the urban waste crisis and the pervasive ocean plastic problems confronting communities in the fast-developing economies of Asia. Since its inception, Gringgo has been developing technology-based solutions for improving the solid waste management (SWM) systems in Bali and reducing land-based sources of plastic pollution.

## EXPECTED RESULTS

The project will establish a self-sustaining crowdsourcing community that can provide valuable GIS data for the local government. The crowdsourcing will generate reliable waste ecosystem datasets that will be used to support the design and implementation of effective SWM practices by the local authorities, private sector, and communities. Informal waste collectors and private sector will be linked to the municipal SWM system to better monetize waste collection and improve the recycling value chain.