

ENVISION HANDS PROJECT

Overview



Envision Hands Project – Problem Statement

Children across the World Community are disadvantaged when they cannot get the mobility support hands / arms they need

Perfectly good recyclable bottle tops are going into landfill when they could be re-purposed reducing the environmental impact

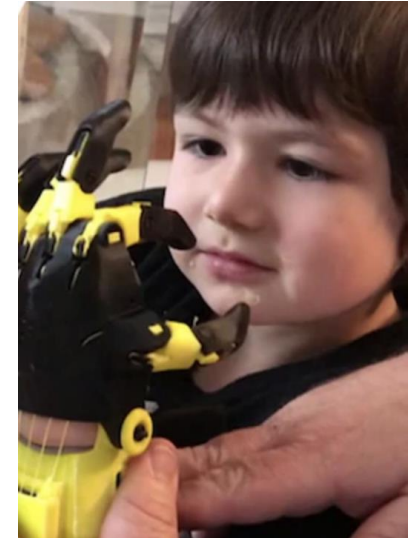
Envision Hands Project – Solution

- **Work with community groups**
- **Collect and process bottle tops**
- **Produce mobility support hands / arms**
- **Distribute them to people in need**



Envision Hands Project – Benefits

- Children are provided with mobility support hands / arms, enabling them to live fuller lives
- Millions of plastic lids do not get lost in landfill but instead are recycled reducing the environment impact of plastics on our ecosystem
- Carbon emissions are reduced because more plastic is recycled and repurposed rather than made from scratch
- Work experience and Work for Dole opportunities are provided to members of our communities





Envision is a not for profit charity that commenced operation as Envision Australia in 2002

We won a number of awards under the previous Prime Minister's Awards for:

Best Regional Project

Best supervisor – Top 3 Nationally

Best participant – Top 3 Nationally

- **Providing primarily Work Experience and Work for the Dole Training projects**
- **DES training and assessment**
- **Funded primarily through Commonwealth Government, other small funding and donations**

We are dedicated towards:

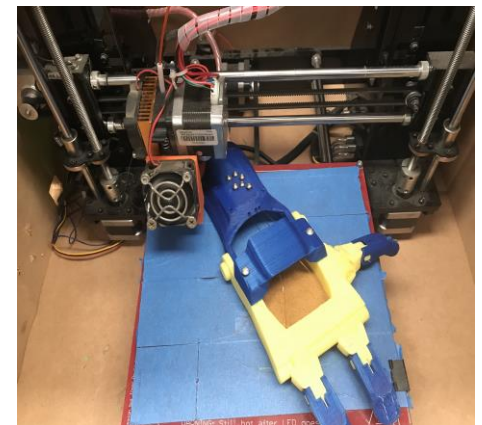
- **Supporting disadvantaged people and jobseekers in the community**
- **Helping increase the resources and engagement potential of community organisations**
- **Working with disadvantaged and socially isolated members of the community**
- **Supporting reduction of waste in the environment via recycling and upcycling wherever we can and thereby reducing the carbon footprint**

Why Envision projects are successful:

- **We are committed to the people we work with and always ensure:**
 - they are engaged
 - learn effective, work based skills in a relaxed environment
 - they develop confidence and self esteem
- **We care about the standard of the products we deliver to the World Community**

Envision Hands Project – The steps involved

- **Collect and ship bottle tops**
 - Clean and sort tops into colours and type
 - Ship bottle tops from local collection points to regional hub
 - Ship from regional hub to production centres
- **Produce usable plastic from bottle tops**
 - Convert bottle tops into shredded plastic or plastic granules
 - Extrude processed plastic into filaments and 3D print hand / arm components
 - Use processed plastic to produce components via injection moulds
- **Assemble the hand/arm from its components**
 - Build hand / arm together checking components
 - Test the assembled hand / arm
- **Package assembled hand / arm, organise shipping and follow up with recipients**



Envision Hands Project – We need help and money

- **Logistics** – we need volunteers to help with anything from answering emails, questions on social media, establishing collection points, updating web-sites...
- **Collecting, sorting and cleaning tops** – working with schools, community groups etc to collect tops. 'Bagging' tops and getting them to a drop off point.
 - Only clean No.2 (HDPE) and No. 4 (LDPE) tops can be used
- **Setting up drop-off points** – we need drop off points that will form part of a network, transporting the tops to processing or shipping centers
- **Storage** – we need to identify additional storage points for unprocessed and processed tops
- **Transport of tops** – we need help moving the massive volume of tops to centralised storage locations in the states and from there, interstate to processing centers

- **Shredding / Granulating the tops** – with the increase in tops being collected we need to increase processing, ideally by having process centers in the states. Processed tops take up less space, reducing the volume of shipped and stored plastic. We will need help obtaining the equipment (sponsorship) and then running it
- **Component Production** – 3D printing demands high quality filament. This is difficult to produce in quantity. Given the volume of tops we now receive we have to consider injection moulding. This would allow the use of mixed No 2 and No 4 tops in the process. Help producing moulds is needed as the hand components need to come in multiple hand sizes (~ 180 different components)
- **3D printing** – This is a difficult, time consuming process that takes a long time to perfect. Dedicated support is required for new groups starting out and low end printers struggle to produce quality components. We need more groups able to print the components but long term we also need to produce more components via moulds
- **Hand / arm distribution** – We need help establishing channels that get the assembled hands / arms to their recipients. We are talking to Rotary, UNICEF, World Vision, orphanages and many NGOs on the ground.

Who are our Partners / Supporters?



Rotary Wyndham



Our current supported include: Primary schools and secondary colleges, other Rotary Clubs and Lions Clubs. Businesses including; Powecor, Cleanaway, Pan Pacific Hotels Melbourne, Bendigo Bank, ANZ Staff Club plus hundreds of cafes and small businesses

SEND US YOUR CAPS 
 envision.org.au

SUPPORT US ON GO FUND ME
 www.gofundme.com/envision-hands




EVERY ONE MILLION CAPS = 100 HANDS

PROUDLY SPONSORED BY




Recycling bottle tops
 it's so simple, drop in the top



TARGET 1,000,000 BOTTLE TOPS

and don't forget to place the empty bottles in your normal recycle bin

This simple separation makes both items easier to recycle and stops them going to waste.

www.growwithjoe.org

BOTTLE TOP RULES

Find Bottle tops
Check Code 2
Drop in the top
Collect More



www.growwithjoe.org

Recycling bottle caps to make 3D printed mobility aids for disadvantaged children everywhere



TURNING WASTE INTO OPPORTUNITY




Envision HANDS

BOTTLE TOP DROP POINT

THANK YOU FOR YOUR SUPPORT!

For more ways to support go to:
 www.envision.org.au