ANZAGG 3D Meeting Minutes

28 June 2023

# 1. Roll call with self-introductions

Meeting chaired by Leona Holloway, Monash University

11 members in attendance from Monash University, NextSense, NSW Department of Education, Victorian Department of Education, BLENNZ, SASSVI and Tact-Ed

# 2. Feature Presentation – Ruth Nagassa on audio labelling

Ruth Nagassa of Monash University presented on technology options for adding audio labels to 3D models.

Ruth presented six main methods for providing audio labels for 3D printed models:

1. Apps
2. Electronics, e.g. Bare conductive boards
3. Overlays on a touch screen, with capacitive points embedded into the 3D print
4. Voice recording devices, e.g. audio push buttons
5. Pen devices like pen friend
6. Tactonom – see <https://www.tactonom.com/en/home-2/> for information about the device and <https://www.problind.org/en/> for a database of tactile graphics and instructions on how to create your own

We then discussed the methods and their practicalities. Some key points included:

* In a classroom setting, you don’t want audio labels going off all the time. Ideally, students would be able to connect via Bluetooth to use bone conducting headphones.
* Pairing with an iPad seems ideal in a classroom setting because most students already have an iPad. But it seems less practical for large or very 3D models.
* There was concern about labels that need to be attached as they may not stick well to a 3D surface or withstand cleaning
* Options requiring a lot of hardware, like the Tactonom, might be more useful in a museum/gallery setting
* The system needs to be easy for staff to create the labels and set up in a classroom. It also needs to be distributable, e.g. some of the audio recording devices need to be set up individually for each device.

# 3. Other Business

## 3.1 NSW Department of Education models

The tactile 3D models created by the NSW Department of Education are now available for free download from Thingiverse at <https://www.thingiverse.com/blps/designs>

## 3.2 3D printing design guidelines

Progress has been made on adding our 3D printing design guidelines to the ANZAGG website. More images are wanted to help illustrate the key points in the guidelines.

# 4. Next Meeting

Next meeting is scheduled for Wednesday 19 July. Matt Gesualdi will speak about his work at Tact-Ed building tactile museum exhibits and models.