



# Community Development Report

Date: 25/05/20

Produced by: Robert Venus

Special Statement: Given the current crisis resulting from Covid 19 and the associated issues this has caused both socially and in regards to project delivery, I have been working pretty much exclusively on this issue since March 15<sup>th</sup> 2020.

As such, the following report is a summary of some of the work I have been undertaking as attempting to cover all aspects within a single report would be untenable.

That said, I would welcome calls from any Councillor wishing to discuss things in more detail.

## Local Covid19 Support Measures

Since the commencement of the heightened severity of the C19 situation I have been working with local volunteers to establish a range of support services for local residents. These have included:

- **Volunteer phone befriending and check-in calls;** continuing with increased demand.
- **Prescription Collection Volunteers:** continuing with increased demand and more volunteers offering to support. Margaret Street Pharmacy interested in discussing longer term arrangements post-Covid due to benefits seen through collaboration.
- **Community Shoppers:** continuing.
- **Online Support:** continuing. Plans begun to arrange greater support in this area following consultation with community volunteers and partners. Preference for Facebook "base" for information with use of other social media platforms where appropriate. Possible live links to websites to be investigated. Existing use by health boards, County and WG services allows for easy sharing of accurate information.
- **Meals on Wheels and Food Support Services:** continuing with increasing demand being reported through partner providers.
- **Public and Professional Queries:** These continue to come through and are increasingly focused on issues around finance and financial support. In particular I am handing queries relating to furlough pay entitlement, business and 3<sup>rd</sup> sector grants/loans and delays with benefits reflecting the true/current financial position of families. Where possible these are directed to the appropriate service or handled directly where this isn't feasible.
- **Information Accuracy:** This continues to be an issue locally with many posts on social media raising concern. Primarily these relate to inaccurate medical advice being given, hostile posts by people against the movement restrictions and possible scam posts. I am working with the relevant partners to ensure these are filtered out or addressed/corrected as soon as possible.
- **Cwmaman Covid Relief Hub:** the foodbank has now been in operation for 3 weeks and is supporting around 20 families. To support and further develop this provision I have secured £7,300 in funding under the Western Power "In This Together" fund which will go towards food and essential items.
- **MakerSpace Response:** see over page.

**GI Project:** We have now submitted the Year 1 End of Project Report to Welsh Government. See attached. We have also sent the Covid Response in regards to the funding for Years 2, 3 and 4 of funding within which we, as a partnership, argue for the maintained requirement for the funding to be issued and express our ability to deliver against the project outcomes despite Covid.

**Artisan Plastics Project:** The collaboration within the Frontline 3D initiative has added value to this project and we are currently working on a design for a "no-weld extruder" to add to the project; something which may prove helpful in poorer countries in their own response to Covid. It will also be possible for schools to produce this item with minimal use of high-risk procedures such as welding or plasma cutting.

A large number of volunteers have also expressed an interest in being involved with the project when we are able to continue; once social distancing restrictions have been lifted and risks are at low levels.

**Keep Wales Tidy Funding:** I'm pleased to inform you that the application I submitted for funding to the "Places for Nature" fund was successful. I have confirmed the ability to commence works in June/July as per the original requirements. This will see the creation of a dedicated "Place for Nature" for butterflies created within the community.

**In addition** – in discussion with the project lead for Places for Nature, interest was expressed in the Artisan Plastics project as a possible all-Wales initiative to be delivered in collaboration with Keep Wales Tidy. I was also advised to submit an application for the "water management" aspect of the next round of funding which would see additional planting space and water management infrastructure in place at the Community Centre (external, not connected) and the Yard/Workshop and Youth Resource Centre.

**Wellbeing of Future Generations – Annual Report:** Following a meeting with the larger town and community councils' group and County this week, the submission deadline date has been set in time for the September PSB Meeting. I will be collating and coordinating our response and the report production accordingly.

## Amman Valley MakerSpace – “Frontline 3D Print Farms” Imitative

The current numbers of note in regards to this initiative are:

**Face shields produced:** 15,000

**Volunteer 3D Print Farms Activated:** 36 Fully Operational, 4 Small Parts Farms

**Distinct organisations and wards supported:** 203 at time of writing

**Total Levered Funding:** £49,000

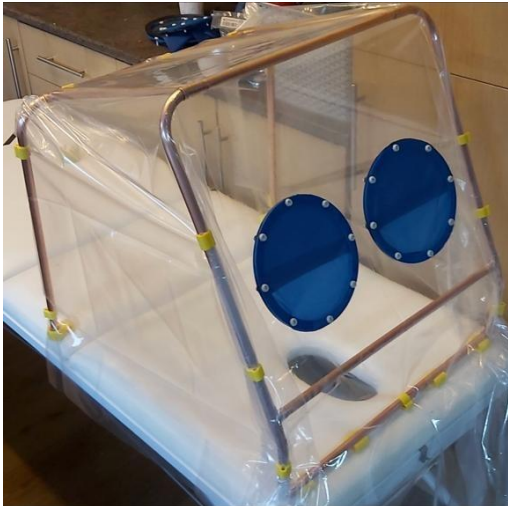
**New Items Past Prototype:** 6

**New Items in Prototype (awaiting approval):** 3

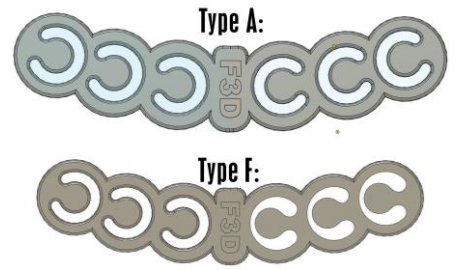
We have now provided over 15,000 face shields to frontline workers and vulnerable people. As a result, we have seen a gradual slowdown in demand and expect this to increase when the next Welsh Government changes to social distancing/isolation are announced.

We have received requests to support with a number of new items from health/medical professionals in Prince Philip, Glangwilli and Cardiff. These include:

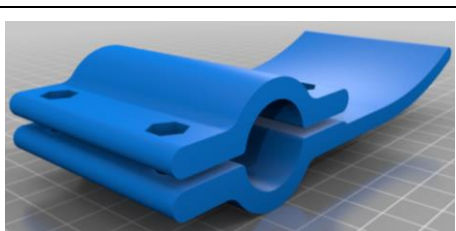
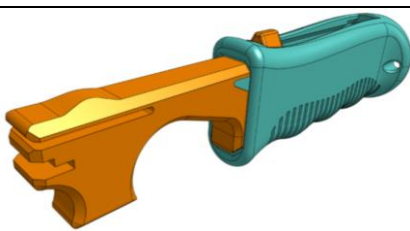
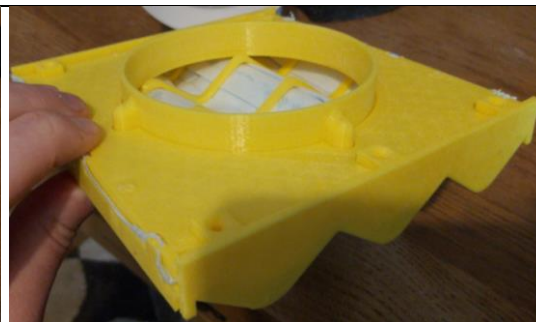
1. **Intubation Tent** – used to protect clinicians during the intubation process where they are most at risk of infection. Current options are failing clinical opinion as they are either too heavy and cumbersome (making emergency removal difficult), expensive or single use (the current available option is over £200 per unit and single use only). The prototype now submitted to Cardiff costs around £65 in materials and is 95% (based on cost) reusable.
2. **Negative Pressure Filtered Duct Fan** – this is to be used in conjunction with the intubation tent and offer increased protection by drawing air down towards the feed of the patient and away from the clinicians. We are currently working on the filter attachment to use existing pleated masks; hopefully reducing the issues faced by lack of filter material availability. We are also working on a 2<sup>nd</sup> prototype which uses existing viral filters in a matrix.
3. **Ear Savers** – these are simple 3D printed items which relieve the pressure from the ears of medical staff using ear loop masks and improve the “fit”. We have supplies 9 different prototypes to Hywell Dda for approval and have now received an order for 600 units of 3 types, with 6 passing testing. (See images below).
4. **Mask Fit Improver** – this is a “ring” of plastic which the user wears over pleated masks to help improve/correct facial fit problems. We are currently working on prototype designs and will be submitting these for testing ASAP.
5. **PAPR (Positive Air Pressure Respirator)** – this is a fan which provides filtered air into the mask or hood being worn by the user. This type of PPE helps to reduce the need for facial fit and provides a high level of protection. We are currently working on 3 different design approaches in collaboration with partner organisations.
6. **Contact Protector** – this is an item which can be carried by a person and used to open doors and windows, turn on/off lights, enter pin numbers and anything else which would otherwise involve the use of the hand/fingers. We are working through designs for 4 different models currently; one of which will include a mist/spray dispenser for an antiviral agent.



# Ear Saver Designs



# Negative Pressure System



# Contact Protector

## Summary of CDO Worked Hours

<b><u>Week Commencing: 18/04/20</u></b>	<b><u>Hours: 75hrs 30min</u></b>
Intubation Tent design, 3D printing components for tent, sourcing materials (Carmarthen), existing concept research. Group support, social media engagement, collection from Dimitris (Nantgaredig).	
Intubation tent Development, Group comms, social media engagement, setup Zoo meeting and vlogging kit. Collecting and delivering fridge to community member I need for storage of medicine.	
Face shields decontamination, VuMedi and Slack groups update/catchup, face shield printing, assembly of 1st test tent, meet with Maurice at CR Clarke, redesign of clips and corner connectors, time sheets and report, emails and calls, group support, social media engagement. Collection of materials (Trostre), General duties.	
Intubation tent, social media engagement, support to community groups, Zoom meeting with F3D design group, materials prep. Emails, calls and general duties.	
Update groups, decontamination and delivery of face shields, prep and assembly of Copper ITent V.1, design and print through connectors, design negative pressure fan for tent, printing components, social media engagement and group support.	
<b><u>Week Commencing: 25/04/20</u></b>	<b><u>Hours: 93hrs 45min</u></b>
Covic Response Works, Community provision research, community survey draft, emails and social media comms, W/A groups updates, community queries.	
Covid Response Works, Sue Smith updates, Social Media comms, Face shield production, design modifications, ear saver designs.	
Covid Response Work, Emails, Messages, groups, teams and social media updates/support, Apron, PPAS and passive half face respirator design, Collection and meeting with Dimitris at Nantgaredig. Media and press updates - WG, SW Guardian and Journal. Amman Valley Covid Support Reference List, Food Hub	
Snorkel Modifications, review of Clin. Eng. feedback - updated to clinical leads and working group, Face shield distribution (7 locations), Apron Design and shield decon. 250 face shields to Nantgaredig for North Wales. Social Media updates.	
Snorkel Prototype Modifications and Design, WG Press Queries, Social Media Updates, Community Queries, Art Comp planning.	
Covid response works, emails, comms and general duties, WG press office queries, donor queries, supplier sourcing, social media and groups collaboration and updates.	
Apron Pattern Making, meet with volunteers at food hub, meet with Mellanie re. volunteer action, apron prototype builds at MakerSpace, discussion with Cllr. DJ, WhatsApp Groups Update, Social Media Responses, COVID PPE research.	
<b><u>Week Commencing: 02/05/20</u></b>	<b><u>Hours: 104hrs 45min</u></b>
Website Update for GI Project, Social Media, group comms, face shield design update, gcode calibration, face shield production and distribution.	
Face shield printing, prototype half mask, pneumask update and writeup - circulation to partners, drop-off to Prince Philip Hospital, Half mask prototype printing, ear saver design and prototype.	
Pneumask Zoom Meeting, WG officer comms, volunteer support, social media, groups support.	
Emails, comms and general duties, face shield prototype printing and comms, groups support, OTS Pneumask concept x 2, farms support.	
Modified pneumask prototype for testing in Cardiff, drop-off and meet with Sharmila (at Cardiff Bay), Dropoff face shields to Treorchy and Cardiff for Eluned Morgan. Groups and social media support. Modified and Updated CDO Report.	
Emails, messaged and calls. Zoom Meeting (SW PPE Solutions), Ear Saver prototypes, Zoom Podcast interview, Zoom (Eluned Morgan and Kirsty), Zoom Meeting (Council Meeting), Ear Saver Prototypes.	
Messages and Emails, 3D printer maintenance, meeting with Dimitris in Nantgredig, delivery of ear saver testing samples to PPH, Intubation Tent Comms.	
<b><u>Week Commencing: 09/05/20</u></b>	<b><u>Hours: 93hrs 15min</u></b>
Social Media and group support, calls, volunteer support, Intubation Tent prototype design and print - corner couplers, clinician feedback discussion.	
Groups support, social media, Intubation Tent Concept Development, Fridge Collection and Delivery (for community member with need for medication storage).	
VuMedi and Slack research group catchup and contribution, F3D Group Zoom meeting, Intubation Tent Builds, Meet with Maurice at CR Clarke, Entry port designs, coupler modifications. Website pages.	
Intubation tent - materials research, copper tube concept design, Sharmila meeting (WhatsApp), funding updates, case study document collation, PR/media calls, WG calls re. funding future, tent builds, face shield printing, decon and assembly, face shield delivery.	
General duties, volunteers support, emails and calls, GI Project planning (recording local nature/spaces), AP Project (development of additional machinery to support F3D initiative findings), VuMedi research paper planning with Dimitris.	
Social Media and groups support/updates, intubation tent connector modifications, ZOOM Meeting- F3D Research Papers, Findings, Case Studies and Next Steps Planning, Funder Liaison - Places for Nature Grant and potential Artisan Plastics collaboration, info for PSB meeting, Face Shield Deliveries (Ammanford, Llanelli, Gorseinon), Intubation Tent Prototype Builds, PAPR System Research and Design, PAPR Prototype Printing, PAPR System - assembly of parts and surface finishing	
Face shield printing and assembly, social media updates and volunteer support, funding search, emails, calls and general duties. WhatsApp groups support, resident queries, prototype assembly, parts and equipment research.	

**Week Commencing: 16/05/20**

**Hours: 93hrs 30min**

Ear Saver Designs, Trial Prints, Intubation Tent Assembly, Groups Support, Social Media Queries, Emails and Calls, General Duties. Materials from Trostre and Carmarthen.

Face shield production, expenses/costs processing for Covid response, community grant search, group support, community updates, VuMedi updates, Prakash Labs updates, WA Comms, Face shield testing rig design.

In This Together Grants Work, PPH - Paul Buckingham Comms, Ear Saver final design mods, Revised Face Shield Testing Rig Design, Community FB Updates, Groups Support, Emails and General Duties. Duct fan/negative air pressure system, processing of models to STL files for printers, update to STL/gcode files.

No Weld extruder design started, Zoom meeting with F3D Group, conference call with collaborators, groups support, social media review and updates, F3D project mapping, Brechfa queries, research and case study planning (with Dimitris).

In This Together Queries, Sue Smith updates, community groups support, community groups support, wellbeing report review, data collation (projects), emails, comms and general duties. F3D group support. C19AV Group support.

Calls, emails, collaboration chats, Intubation tent prototype prep/packing, Intubation Tent to Cardiff, Meeting with Sharmila, Internal Zoom Meeting, Ear Saver and Mask Extender CAD.

Welsh Gov update email, Face shield test rig design, standards review, Wellbeing Council Zoom Meeting, CDOs Zoom Meeting, community groups support, social media updates, C19 WHO review, SW PPE Group Updates, concerns raised community group call,